

# AB 1504 California Forest Ecosystem and Harvested Wood Product Carbon Inventory: 2018 Reporting Period

## DATA UPDATE

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## **Acronym List**

AB – Assembly Bill

AGL – aboveground live

Board; BOF – California Board of Forestry and Fire Protection

BF – board feet

BLM – Bureau of Land Management

C – carbon

CAL FIRE – California Department of Forestry and Fire Protection

CF – cubic feet

CH<sub>4</sub> - methane

CI – confidence interval

CO - carbon monoxide

CO<sub>2e</sub> – carbon dioxide equivalent

DBH – diameter at breast height

FF – Forest Land Remaining Forest (IPCC terminology)

FIA – Forest Inventory and Analysis

FIADB – FIA database

FMRL – Forest Management Reference Level

FS – Forest Service

GHG – greenhouse gas

GRM – Growth, Removals and Mortality

HWP – harvested wood product

HWP-use – harvested wood products in use

HWP-SWDS – harvested wood products at a solid waste disposal site

HWP-energy – harvested wood products burned for energy production

HWP-without energy – harvested wood products decayed or burned without energy production

IPCC – Intergovernmental Panel on Climate Change

LF – Forest Land Conversions (IPCC terminology)

MBF – thousand board feet

MMBF – million board feet

MMT – million metric tons

MT – metric tons

NFS – National Forest System

N<sub>2</sub>O – nitrous oxide

NO<sub>x</sub> - nitrogen oxides

PNW – Pacific Northwest Research Station

SOC – soil organic carbon

SWDS – solid waste disposal site

TBD – to be determined

TPO – Timber Products Output

U-MT BBER - University of Montana's Bureau of Business and Economic Research

USDA – United States Department of Agriculture

USFS – United States Forest Service



# Table of Contents

1 Executive summary and key findings.....	1
2 Forest ecosystem results: Carbon flux, stock, and trends, select table and figure updates.....	14
3 Harvested wood product carbon results: Carbon flux, stock, and trends, select table and figure updates .....	72
4 Forest ecosystem and harvested wood product carbon flux and stock summary,.....	84
References .....	87
Appendix 1: Forest carbon stock by forest type and region.....	A1
Appendix 2: 2009 - 2018 California FIA forest carbon inventory tables .....	B1
Appendix 3: Harvested wood product carbon model inputs; calculations .....	C1

## Appendix organization:

**Appendix 1:** Regional forest carbon stock data by forest type.

**Appendix 2:** 2009 - 2018 California FIA forest carbon inventory tables

### **Area**

#### **Sampled area:**

Sampled area by land status and ownership group for all of California (Table A1) and by region (Tables A2-A8), 2009-2018

#### **Forest Area for Forest Land Remaining Forest (FF): by owner:**

Forest land area by forest land status and ownership group for all of California (Table A9) and by region (Tables A10-A16), 2009-2018

#### **Forest Area for Forest Land Remaining Forest (FF): by forest type:**

Forest land area by forest type, forest land status and ownership group for all of California (Table A17) and by region (Tables A18-A24), 2009-2018

### **Net forest carbon flux for forest land remaining forest (FF)**

#### **Net carbon flux for all pools by owner:**

Annual net change for all forest carbon pools by owner for all of California (Table B1) and by region (Tables B2-B8), 2001-2008 and 2011-2018

#### **Disturbance effects on net forest carbon flux, all forest land:**

Annual net change for aboveground pools by disturbance, forest land status and owner, 2001-2008 and 2011-2018 – total (Table B9.1) and per acre (Table B10); by county (Table B9.2), National Forest (Table B9.3), and Forest Practice District (Table B9.4, 9.5 and 9.6).

#### **Disturbance effects on net forest carbon flux, timberland:**

Annual net change on timberland for aboveground pools by disturbance and owner, 2001-2008 and 2011-2018 – total (Table B11) and per acre (Table B12)

### **Forest carbon stock for forest land remaining forest (FF): by owner and forest land status**

#### **Aboveground live tree pool:**

All of California (Table C1) and by region (Tables C2-C8), 2009-2018  
All of California by 10-year averages (Tables C9.1-C9.8)

#### **Aboveground dead tree pool:**

All of California (Table C10) and by region (Tables C11-C17), 2009-2018  
All of California by 10-year averages (Tables C18.1-C18.8)

#### **Aboveground live understory vegetation pool:**

All of California (Table C19) and by region (Tables C20-C26), 2009-2018

#### **Aboveground and belowground live understory vegetation pools, 10-year averages:**

All of California by 10-year averages (Tables C27.1-C27.8)

#### **Belowground live understory vegetation pool:**

All of California (Table C28) and by region (Tables C29-C35), 2009-2018

#### **Belowground live tree pool:**

All of California (Table C36) and by region (Tables C37-C43), 2009-2018

#### **Belowground live and dead tree pools, 10-year averages:**

All of California by 10-year averages (Tables C44.1-C44.8)

#### **Belowground dead tree pool:**

### **Forest carbon stock for forest land remaining forest (FF): by owner and forest land status (cont.)...**

All of California (Table C45) and by region (Tables C46-C52), 2009-2018

#### **Soil organic carbon pool:**

All of California (Table C53) and by region (Tables C54-C60), 2009-2018  
All of California by 10-year averages (Tables C61.1-C61.8)

**Aboveground down dead wood pool:**

All of California (Table C62) and by region (Tables C63-C69), 2009-2018  
All of California by 10-year averages (Tables C70.1-C70.8)

**Aboveground forest floor pool:**

All of California (Table C71) and by region (Tables C72-C78), 2009-2018  
All of California by 10-year averages (Tables C79.1-C79.8)

***Forest carbon stock for forest land remaining forest (FF): by forest type and forest land status***

**Aboveground live tree pool:**

All of California (Table D1) and regions (Tables D2-D8), 2009-2018

**Aboveground dead tree pool:**

All of California (Table D9) and regions (Tables D10-D16), 2009-2018

**Aboveground live understory vegetation pool:**

All of California (Table D17) and regions (Tables D18-D24), 2009-2018

**Belowground live understory vegetation pool:**

All of California (Table D25) and regions (Tables D26-D32), 2009-2018

**Belowground live tree pool:**

All of California (Table D33) and regions (Tables D34-D40), 2009-2018

**Belowground dead tree pool:**

All of California (Table D41) and regions (Tables D42-D48), 2009-2018

**Soil organic carbon pool:**

All of California (Table D49) and regions (Tables D50-D56), 2009-2018

**Aboveground down dead wood pool:**

All California (Table D57) and regions (Tables D58-D64), 2009-2018

**Aboveground forest floor pool:**

All California (Table D65) and regions (Tables D66-D72), 2009-2018

***Forest land conversions (LF)***

**Changes in area from forest land-use conversions:**

Annual change in forest land area to and from other IPCC land-use classes in California by forest land status for all of California, 2001-2008 to 2011-2018 (Table E1)

**Net forest carbon flux from forest land-use conversions:**

Annual change in carbon pools due to change in land-use between forest and non-forest in California, 2001-2008 to 2011-2018 (Table E2)

**Net flux from other GHG emissions:**

Annual net emissions of non-CO<sub>2</sub> greenhouse gasses from fire by owner group and class for all of California, 2001-2008 to 2011-2018 (Table F1)

### **Appendix 3: Harvested wood product carbon model inputs; calculations**

**Table 3.1:** California Harvest Volume Data, 1952-2018 (MMBF)

**Table 3.2:** California Timber Product Ratios

**Table 3.3:** California Primary Product Ratios

**Table 3.4:** End-use Product Ratios

**Table 3.5:** Product end-use half-lives

**Table 3.6:** Discarded disposition ratios

**Table 3.7:** Discarded product half-lives; landfill fixed ratios

**Table 3.8:** HWP C model distribution parameters for Monte Carlo Analysis [included but not used for 2018 data update]

**Table 3.9:** CCF to Metric Tons C conversion

**Table 3.10:** Primary products for each timber product

**Table 3.11:** End-use products for each primary product

**Table 3.12:** Disposition of HWP C for all years

**Table 3.13:** Average annual HWP C flux by owner and pool for ten-year reporting intervals and the California AB 1504 2018 reporting period

**Table 3.14:** Average annual timber harvest between 2001 to 2018 weighted by the proportion of FIA plots remeasured each year

# 1 Executive summary and key findings

The state of California has enacted a variety of legislation establishing greenhouse gas (GHG) emissions reduction targets. Currently, the state has a net carbon sequestration target for the forest sector of 5 million metric tons (MMT) of carbon dioxide equivalent (CO<sub>2</sub>e) annually until 2020, establishing a critical role for California's forests in meeting the state's targets. This data update was provided to inform several elements of the state's effort to meet GHG emissions reduction targets by compiling best-available data on GHG emissions, stock and flux from California's forest sector, identifying critical gaps in data, and suggesting strategies to reduce uncertainty in estimating the magnitude of stocks and flux within the forest sector.

This is the fourth release in a series of annual Assembly Bill (AB) 1504 Forest Ecosystem and Harvested Wood Product (HWP) Carbon Inventory reports to the California Board of Forestry and Fire Protection (also referred to as the Board). Based on the 2018 CA AB 1504 reporting period, California's forests remain net sinks, sequestering 24.9 MMT CO<sub>2</sub>e per year. This value includes changes in forest ecosystem pools (26.2 MMT CO<sub>2</sub>e per year), harvested wood product pools (0.7 MMT CO<sub>2</sub>e per year), non-CO<sub>2</sub> emissions from wildfires (-0.6 MMT CO<sub>2</sub>e per year), and forest land conversions (-1.5 MMT CO<sub>2</sub>e per year). Net forest carbon sequestration in 2018 is down 3.0 MMT CO<sub>2</sub>e when compared to the 2017 reporting period<sup>1</sup>.

The 2018 reporting period annual rate of carbon sequestration for just the forest ecosystem pools is 26.2 MMT CO<sub>2</sub>e per year. This value is down by approximately 3.0 MMT CO<sub>2</sub>e per year from the 2017 reporting period. This reduction in carbon sequestration is the result of several factors including improvements in inventory methodology but is also being driven by two complementary factors; an increased rate of tree mortality and decreased gross growth rate on live trees during the most recent measurement years. Tree mortality regardless of cause, accounted for an additional 2.3 MMT of CO<sub>2</sub>e converted to dead wood annually. Gross growth on trees measured 10-years earlier declined by 1.1 MMT CO<sub>2</sub>e annually further reducing the net rate of sequestration. Of note, net change in the live tree pool on National Forest System lands decreased by 74% while net change in the standing dead pool increased by 16%. Changes in growth, removals, mortality and flux vary in each region, displaying different patterns amongst each category. Additional work is being completed to assess these differences in more detail.

Forest ecosystem and harvested wood product carbon stocks are approximately 3.2 billion metric tons. For just the forest ecosystem, carbon stocks are approximately 3.1 billion metric

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<sup>1</sup> 2017 reporting period: CA net sequestration rate of 27.9 MMT CO<sub>2</sub>e per year; includes changes in forest ecosystem pools (29.2 MMT CO<sub>2</sub>e per year), harvested wood product pools (0.9 MMT CO<sub>2</sub>e per year based on old version of HWP C model), non-CO<sub>2</sub> emissions from wildfires (-0.5 MMT CO<sub>2</sub>e per year), and forest land conversions (-1.7 MMT CO<sub>2</sub>e per year).

tons. This is a decrease of 0.2 billion metric tons of forest ecosystem carbon compared to the 2017 reporting period primarily due to the improvement of the forest soils estimation methodology. This decrease is attributed to refinements in the Digital General Soil Map of the United States (STATSGO2) dataset where soil orders may have changed in the updated data product, resulting in a structural change in the soil organic carbon estimates for mineral and organic soils across the entire time series (U.S. EPA 2020). However, when the 2017 reporting period is recalculated with the updated SOC method (see table 4.31), 2018 carbon stock represents an increase in line with previous results. Harvested wood products contribute an additional 134.8 MMT C to the forest ecosystem carbon stocks from current and historic harvests going back to 1952. The increase from the previous reporting period's HWP C estimate reflects revisions in input parameters and the model code, discussed further below in the "Improvements" section. When the original 2017 HWP C stocks (133.4 MMT C) are recalculated to reflect the revisions (134.6 MMT C), the 2018 stock represents an increase of 0.2 MMT C.

In many forest types, current stocking levels reflect over a century of fire suppression and may not represent stand densities that are resilient to disturbances common to California forests such as fire or pest outbreaks. Additionally, as the forests age in unharvested stands, growth rates slow. Older forests tend to store more carbon, but they might not accumulate new carbon as quickly as younger, fast-growing stands. Consequently, the stocks and flux represented in this report may not be sustainable into the future without forest management given the uncertainty in potential effects from climate change, the current level of forest disturbances from wildfire and pests, and aging of forests on federal lands. Compared to previous reporting periods, we continue to see drought effects on tree growth and mortality. Forests provide many other services beyond carbon sequestration and storage, so there are many other considerations beyond forest carbon dynamics when developing management actions.

This update includes several minor revisions to correct previous harvested wood product carbon stock and flux estimates. Corrections described below under "Improvements" section.

### **Key Findings:**

#### **FOREST ECOSYSTEM CARBON**

##### **Forest land area:**

- As of 2018 there are approximately 32 million acres of forest land across all ownerships.
- 16.4 million acres are classified as timberland with an additional 4.2 million acres of productive forest land in reserves.
- The federal government manages 58% of California's forest lands, with the remaining areas under state and local government (3%) or private management (39%) (Figure 2.4).

- Overall there was a net loss of forest land at the rate of  $25.9 \pm 7.2$  thousand acres per year, primarily to developed land-uses (Table 4.8/E1). The confidence interval is high compared to the estimate because it is a relatively rare event at the scale of the inventory.
- Most of the forest land loss occurred on non-productive “other forest” (54%), followed by timberland (41%), with little change occurring on reserved lands (5%).
- Western oak woodlands cover the greatest area of all forest types at approximately  $8.8 \pm 0.38$  million acres, followed by California mixed conifer at approximately  $7.9 \pm 0.34$  million acres (Table 4.11; Appendix 2, Table A17).

#### **Average net annual forest carbon dioxide sequestration - overview:**

- Overall California forests are exceeding the 5 MMT CO<sub>2</sub>e target rate of annual sequestration established by AB 1504, sequestering  $26.9 \pm 4.7$  MMT CO<sub>2</sub>e per year (excludes confidence interval for HWP C flux; Table 7.1). This value includes changes in forest ecosystem pools (26.2 MMT CO<sub>2</sub>e per year), harvested wood product pools (0.7 MMT CO<sub>2</sub>e per year), non-CO<sub>2</sub> emissions from wildfires (-0.6 MMT CO<sub>2</sub>e per year), and forest land conversions (-1.5 MMT CO<sub>2</sub>e per year).
- Based on plots initially measured between 2001-2008 and re-measured between 2011-2018, the average statewide rate of forest carbon sequestration is  $26.2 \pm 4.7$  MMT CO<sub>2</sub>e per year, excluding net CO<sub>2</sub>e contributions from other sources such as, harvested wood products, forest land conversions and non-CO<sub>2</sub> GHG emissions from wildfire (Table 4.1, 4.3).
- Net flux in the soil organic carbon pool is estimated at  $-0.5 \pm 0.6$  MMT CO<sub>2</sub>e per year (Table 4.1-4.3).
- Combined annual net emissions of non-CO<sub>2</sub> GHGs (methane and nitrous oxide) from wildfire is estimated to be  $0.6 \pm 0.1$  MMT CO<sub>2</sub>e per year (Table 4.2a, 4.7).
- Changes in land-use between forest and non-forest land condition is estimated to have a net effect of emitting  $1.5 \pm 0.9$  MMT CO<sub>2</sub>e per year (Table 4.2a, 4.9).
- Based on the 2018 measurement period, after accounting for these other CO<sub>2</sub> and greenhouse gas sources the statewide rate of carbon sequestration on all forest land is  $27.2 \pm 5.0$  MMT CO<sub>2</sub>e per year (Table 4.2a), down from the 2015 reporting period estimate of  $32.8 \pm 5.5$  MMT CO<sub>2</sub>e, the 2016 reporting period estimate of  $30.7 \pm 5.3$  MMT CO<sub>2</sub>e and 2017 reporting period estimate of  $27.0 \pm 5.5$ . This value excludes contributions from HWP pools.

### **Average net annual forest carbon dioxide sequestration – by pool:**

- Growth on live trees, including foliage and live roots, makes up 71% of the annual CO<sub>2</sub>e flux on all forest land at a net rate of about 19.0 ± 4.1 MMT CO<sub>2</sub>e per year (Table 4.3).
- Of the estimated 13.7 MMT CO<sub>2</sub>e per year cut within the forest (Table 4.3, 4.6a), approximately 10.0 MMT CO<sub>2</sub>e per year in the form of commercial timber was removed from the forest to either be stored long term in durable wood products or emitted from burning (Appendix 3, Table 3.14).

### **Average net annual forest carbon dioxide sequestration – by owner:**

- Individual noncorporate forest land owners provide the largest contribution, accounting for 40% of the statewide annual flux at a rate of 10.4 ± 1.4 MMT CO<sub>2</sub>e per year (figure 4.1). While there is only an increase in the rate of 0.1 MMT CO<sub>2</sub>e per year from the previous measurement period, this represents a 4% increase in the percent contribution, mainly due to a decrease in the contribution from National Forest System lands.
- The national forests account for 30% of the statewide annual flux at a rate of 7.7 ± 2.7 MMT CO<sub>2</sub>e per year (figure 4.1). This represents a decrease of approximately 2.6 MMT CO<sub>2</sub>e per year from the previous measurement period, dropping the percent contribution from these lands by 5%.
- Corporate forest land accounts for 19% of the statewide annual flux at a rate of 5.1 ± 3.2 MMT CO<sub>2</sub>e per year (figure 4.1). This represents an increase of 0.3 MMT CO<sub>2</sub>e per year from the previous measurement period, and a 3% increase in the percent contribution.
- State and local governments contribute 8% of the statewide annual flux at a rate of 2.1 ± 0.7 MMT CO<sub>2</sub>e per year (figure 4.1).
- Other federal lands contribute 3% of the statewide annual flux at a rate of 0.9 ± 1.3 MMT CO<sub>2</sub>e per year (figure 4.1). This represents a decrease from the previous measurement period of 0.5 MMT CO<sub>2</sub>e per year and a 3% decrease in the percent contribution.
- Only on reserved forest lands managed by the Forest Service is live tree growth not currently estimated to exceed carbon losses from the live tree pool due to tree mortality, as in previous measurement cycles (Figure 4.4a, Table 4.4a).
- As in previous measurement cycles, annual gross growth per acre on live trees is currently exceeding all other carbon losses from the live tree pool due to mortality or harvest on unreserved timberland for all ownerships including lands managed by the Forest Service.



- The annual net rate of carbon sequestration per acre in the live tree pool is greatest on timberland owned by state and local government at  $4.1 \pm 1.9$  metric tons of CO<sub>2</sub>e per acre per year (Appendix 2, Table B12).
- The next highest annual net rate of carbon sequestration per acre in the live tree pool is on timberland owned by private individuals at  $2.5 \pm 0.4$  metric tons of CO<sub>2</sub>e per acre per year (Figure 4.4b, Table 4.4b).
- Trees growing on all ownerships across all of California's forests are sequestering carbon at a net rate of  $0.5 \pm 0.1$  metric tons CO<sub>2</sub>e per acre per year (Table 4.4a).

#### **Average net annual forest carbon dioxide sequestration – by region:**

- The Sierra/Cascades region has the greatest annual growth in its forests relative to growth from other regions. This region also has the greatest amount of mortality; after accounting for harvest, live trees in the Sierra/Cascades region are still sequestering  $3.1 \pm 2.6$  MMT CO<sub>2</sub>e per year. It is no longer the region with the highest net live tree CO<sub>2</sub>e flux due to decreases in the growth rate and increases in mortality (figure 4.6). This is down from the 2015 measurement period which estimated a rate of  $8.7 \pm 3.0$  MMT CO<sub>2</sub>e per year, the 2016 measurement period which estimated a rate of  $7.8 \pm 2.7$  MMT CO<sub>2</sub>e per year, and the 2017 measurement period which estimated a rate of  $5.5 \pm 2.7$  MMT CO<sub>2</sub>e per year.
- The North Coast region has the highest net carbon sequestration at  $7.7 \pm 1.8$  MMT CO<sub>2</sub>e per year.
- The Southern Coastal Mountains and Deserts region continues to be the only region where tree mortality is exceeding tree growth, resulting in a net carbon reduction of the live tree pool of  $0.8 \pm 0.4$  MMT CO<sub>2</sub>e per year (figure 4.6). Further analysis is being conducted to determine why this region is experiencing an annual net loss of CO<sub>2</sub>e and will be presented in a later report.

#### **Average net annual forest carbon dioxide sequestration – Forest Practice Districts**

- Net annual sequestration from forests in the Northern Forest Practice District is  $8.9 \pm 2.9$  MMT CO<sub>2</sub>e (15% lower than 2017 reporting period); in the Southern Forest Practice District net annual forest sequestration is  $2.9 \pm 1.8$  MMT CO<sub>2</sub>e (42% lower than 2017 reporting period); and in the Coastal Forest Practice District it is  $11.9 \pm 2.7$  MMT CO<sub>2</sub>e (9% lower than 2017 reporting period) (Table 4.2b). These values include change from all forest ecosystem pools and non-CO<sub>2</sub> emissions from wildfires, but does not include change from harvested wood product pools or from forest land use conversions.
- The Southern Forest Practice District is experiencing carbon losses due to mortality primarily on forest land managed by National Forests nearly equaling gross growth on live trees leaving this district susceptible to net carbon loss if the current rate of disturbance increases (Tables 4d, 4e, 4f).

### **Average net annual forest carbon dioxide sequestration – County**

- Mendocino ( $5.3 \pm 1.4$  MMT CO<sub>2</sub>e per year) and Humboldt ( $4.9 \pm 2.2$  MMT CO<sub>2</sub>e per year) counties have the highest net carbon sequestration rates for all forest pools (Table 4.6b).
- By county, notable counties estimated in 2018 to have a net loss of forest carbon based on all pools are; Monterey ( $-0.3 \pm 0.6$  MMT CO<sub>2</sub>e per year), San Bernardino ( $-0.4 \pm 0.3$  MMT CO<sub>2</sub>e per year), Santa Barbara ( $-0.2 \pm 0.2$  MMT CO<sub>2</sub>e per year), and Tuolumne ( $-0.7 \pm 1.1$  MMT CO<sub>2</sub>e per year) (Table 4.6b).

### **Average net annual forest carbon dioxide sequestration – National Forests**

- The Shasta-Trinity National Forest has the highest net annual carbon sequestration rate for all forest pools at approximately  $2.2 \pm 0.9$  MMT CO<sub>2</sub>e per year (Table 4.6c).
- There are three national forests in California currently experiencing a net loss of carbon based on all pools; San Bernardino ( $-0.4 \pm 0.3$  MMT CO<sub>2</sub>e per year), Los Padres ( $-0.6 \pm 0.6$  MMT CO<sub>2</sub>e per year), Angeles ( $-0.1 \pm 0.2$  MMT CO<sub>2</sub>e per year) (Table 4.6c).

### **Carbon stocks for forest land remaining forest land (FF) by pool:**

- Currently there is just under 3.1 billion metric tons of carbon stocks stored on forest land including forest soils across all ownerships in California (Table 4.12a, figure 4.9, 4.10).
- Although this number is approximately 173 million metric tons less than the number reported in the previous inventory, the main decrease was due to an improvement in the soil organic carbon pool accounting methodology. When the previous estimates are recalculated with this same improvement, it results in an approximate increase of 4.4 million metric tons of carbon stocks from the prior inventory.
- Approximately one third of this stored carbon is found above ground in the live tree pool (including foliage) ( $1,064 \pm 27$  MMT C, Table 4.12a, figure 4.9).
- Forest soils store about 45% of the carbon ( $1,400 \pm 17$  MMT C, Table 4.12a, figure 4.9).
- Approximately 7% of the stored carbon is found aboveground in dead wood pools ( $213 \pm 7$  MMT C, Table 4.12a, figure 4.9).
- Estimates of carbon on the forest floor was added in 2017 and contributed  $136 \pm 2$  MMT C, Table 4.12a, figure 4.9).

### **Carbon stocks for forest land remaining forest land (FF) by owner:**

- Approximately 65% of the carbon stocks in the state are found on public forest land ( $1,992 \pm 40$  MMT C), with approximately 80% of that on National Forest System lands ( $1,595 \pm 31$  MMT C) (Table 4.12a, figure 4.8).
- Private corporate forest land contains approximately 17% of the state's carbon stocks ( $529 \pm 28$  MMT C, Table 4.12a, figure 4.8).

- Private noncorporate forest land contains approximately 18% of the state's carbon stocks ( $562 \pm 29$  MMT C, Table 4.12a, figure 4.8).
- Approximately 60% of the forest carbon stores are found on unreserved timberland (1,843 MMT C, Table 4.12a, Figure 4.10).

#### **Carbon stocks for forest land remaining forest land (FF) by region:**

- Nearly half of California's carbon stocks in all carbon pools are found in a single region, the Sierra and Cascade Mountain Ranges. This region represents 47% of the forest land area and contains  $1,442 \pm 47$  MMT C (Table 4.19, figure 4.11). The majority of the decrease from the previous reporting period is due to refinements in the SOC accounting method.
- The next largest carbon store, the Klamath Interior and Coast Ranges region has about half the carbon stocks found in the Sierra and Cascades and just over a quarter of those found in the state at  $878 \pm 44$  MMT C (Table 4.17, figure 4.11). The majority of the decrease from the previous reporting period is due to refinements in the SOC accounting method.
- For each of these regions the dead tree and down woody material pools are each about 10% of the live tree carbon pool.

#### **Carbon stocks for forest land remaining forest land (FF) by forest type:**

- The California mixed conifer forest type contains the largest carbon stock compared to all other forest types, storing approximately  $982 \pm 44$  MMT C (Table 4.21, Figure 4.12). The decrease from the previous year's estimate is entirely due to refinements in the SOC accounting method; all other pools increased slightly.
- Western oak forests follow with  $636 \pm 30$  MMT C (Table 4.21, Figure 4.12). The decrease from the previous year's estimate is mainly due to refinements in the SOC accounting method; live tree, understory and forest floor pools decreased slightly while the remaining pools increased slightly.
- Notable exceptions of forest types where live tree carbon exceeds soil carbon includes the redwood, Douglas-fir, and tanoak/laurel types.
- Most carbon stocks are found on unreserved timberland for most softwood forest types (Table 4.22, figure 4.13).
- The redwood forest type has the highest carbon density per acre (figure 4.14).
- Regional data by forest type is included in Appendix 1.

#### **Carbon stocks for forest land remaining forest land (FF) by county:**

- The counties with the highest carbon stocks are Siskiyou county with  $320.5 \pm 28.5$  MMT C, Humboldt county with  $245.7 \pm 31.1$  MMT C and Trinity county with  $224.0 \pm 25.7$  MMT C.

C (Table 4.12b). Although these numbers are less than the number reported in the previous inventory, the main decrease is likely due to an improvement in the soil organic carbon pool accounting methodology.

#### **Carbon stocks for forest land remaining forest land (FF) by National Forest:**

- The Shasta-Trinity National Forest has the highest carbon stocks at  $230.7 \pm 25.2$  MMT C and is also the largest National Forest at approximately  $1.9 \pm 0.2$  million acres. (Table 4.12c) Although these numbers are less than the number reported in the previous inventory, the main decrease is likely due to an improvement in the soil organic carbon pool accounting methodology.

#### **Carbon stocks for forest land remaining forest land (FF) by Forest Practice District:**

- The Northern Forest Practice District has the highest carbon stocks at  $1,344.7 \pm 45.4$  MMT C (Table 4.12e).
- In the Northern and Southern Forest Practice Districts, carbon on public lands make up the majority of the forest carbon, while in the Coastal Forest Practice District carbon on private lands make up the majority of the forest carbon (Table 4.12d, e, f).

#### **Comparison to the Forest Management Reference Level (FMRL):**

- FIA's initial 10-year forest inventory in California installed from 2001 - 2010 is the FMRL basis (i.e., baseline) to evaluate relative changes in California forest carbon stocks between measurement periods.
- Stock-change comparisons to the FMRL cannot determine net flux until the entire 10-year re-measurement period is complete in 2020. The GRM method is used to estimate annual net flux.
- Comparison to the FMRL show that overall California's forest carbon stocks are increasing over time with minor annual variations (table 4.31).

#### **HARVESTED WOOD PRODUCT CARBON**

2018 reporting period HWP C estimates for stock and flux reflect revisions in erroneous input parameters (board foot to cubic foot conversion factor for 2013-2018 and end-use ratios for all years) and revisions in the HWP C model code to correct errors resulting in approximately 1% of the carbon disappearing from all storage and emission pools. Revisions are described further below in the "Improvements" section.

#### **HWP C stock**

- For the 2018 California AB 1504 reporting period, the average HWP C stock is approximately 78.0 MMT C for products in use (HWP-use), 56.8 MMT C for products in solid waste disposal sites (HWP-SWDS), and approximately 134.8 MMT C for both HWP

pools (see Table 6.5). The majority of the increase from the previous reporting period's estimate of 133.4 MMT C is due to the revisions in the HWP C model. When the 2017 reporting period estimate is recalculated with the revised HWP C model, stocks are slightly higher in the 2018 reporting period. Monte Carlo analysis has not been completed for this data update as the model is currently being revised to correct errors in Monte Carlo analysis.

- For the 2018 California AB 1504 reporting period, carbon stored from privately owned forestland comprises 67% of the HWP C stock at 90.6 MMT C. Carbon stored from harvest originating from USFS forestland comprises 31% of the HWP C stock at 41.7MMT C, with the remainder of the HWP C stocks coming from Tribal, BLM, and State and other public land.

### **HWP C flux**

- For the 2018 California AB 1504 reporting period, the average HWP C flux is approximately -1.3 MMT CO<sub>2</sub>e for products in use, 2.0 MMT CO<sub>2</sub>e for products in SWDS, and 0.7 MMT CO<sub>2</sub>e for all pools (see Table 6.6). The decrease in net HWP C flux from the previous reporting period estimate is due to revisions in the HWP C model. When the 2017 reporting period estimate is recalculated with the revised HWP C model, net flux is slightly higher in the 2018 reporting period.
- For the 2018 California AB 1504 reporting period, for all ownerships, net flux in the products in use pool is negative, representing a shift in HWP C from the products in use pool to the SWDS pool faster than new carbon is being added to the products in use pool.

### **Harvest**

- The weighted average annual harvest values associated with the 2018 California AB 1504 reporting period is approximately 2.7 MMT C (1.6 million MBF). This equates to approximately 10.0 MMT CO<sub>2</sub>e per year in the form of commercial timber removed from the forest (Appendix 3, Table 3.14). Based on the forest ecosystem portion of the inventory for the same time period, approximately 13.7 MMT CO<sub>2</sub>e per year is cut within the forest (Table 4.6a).

### **HWP C Emissions**

- HWP C emissions data for HWP burned with and without energy capture are not included in forest sector C accounting, but are used in other sectors (i.e., waste, energy). Cumulative emissions associated with these pools (HWP-energy, HWP-without energy) for individual years can be found in table 6.2. However, without a greater understanding

of the reporting timeframes and data needs from these other sectors, additional calculations on HWP emissions are not provided in this report at this time.

**Background:**

The forest sector carbon data provided in this update comply with the Intergovernmental Panel on Climate Change Tier 3 good practice guidelines for carbon accounting (IPCC 2006, 2014) and are intended to assist the Board in evaluating and monitoring progress on meeting California's forest sector carbon sequestration target. This update can inform policy decision-making, but is not intended to be a complex policy assessment framework. Forest ecosystem carbon stocks and flux are established using direct measurements on forested plots throughout the state of California as part of the United States Department of Agriculture (USDA) Forest Service Forest Inventory and Analysis (FIA) program. Harvested wood product carbon (HWP C) stocks are based on estimates from the California variant of the harvested wood product carbon accounting model based upon the IPCC Tier 3 production accounting approach.

The forest ecosystem data presented in this report are based on the 2009-2018 FIA measurement cycle. Carbon stocks physically present in the forest are based on a 10-year average for the time-period of 2009-2018 and given in metric tons (MT) of carbon (C). The estimates of average annual carbon sequestration (i.e., net flux) is based on plots and trees initially measured between 2001 and 2008 then re-measured 10 years later between 2011 and 2018. Calculating flux based on actual growth, removals and mortality (i.e., the GRM approach) allows for annual reporting and is more statistically robust than a simple stock-change approach.

Harvested wood product carbon estimates include contributions from current and historic harvests going back to 1952, the year annual harvest data was available for all ownerships. Harvested wood product carbon stocks are reported by the HWP C model in the year following harvest, i.e. harvested wood product carbon stock associated with 2018 removals is reported in year 2019. To be consistent with FIA's forest ecosystem ten-year average reporting periods and correspond with 2009-2018 annual harvests, the 10-year average of the HWP C stock for the years 2010-2019 is reported. Harvested wood product carbon flux for the 2018 reporting period is reported as the average annual flux for the eight ten-year intervals of 2002-2012, 2003-2013, 2004-2014, 2005-2015, 2006-2016, 2007-2017, and 2008-2018 2009-2019 to match the removals associated with the 2018 FIA plot remeasurement cycle.

Forest ecosystem and harvested wood product carbon stock and flux results associated with these time periods are referred to as 2018 results, 2018 reporting period results, or 2018 measurement cycle results throughout the report. To more clearly describe the time periods

covered in the stock and flux estimates in this report, please note that the title has been changed to reflect the “2018 reporting period,” rather than specific ranges of years.

In this analysis results of carbon physically present in the forest or in harvested wood products in use or at solid waste disposal sites are given in metric tons (MT) of carbon (C). Results of carbon flux are given in metric tons (MT) of carbon dioxide equivalent (CO<sub>2</sub>e). Net changes in individual carbon pools are also shown in units of CO<sub>2</sub>e to provide insight into the components of change, even if they aren’t a direct flux with the atmosphere (e.g., tree mortality, which is a conversion from live to dead wood that initially stays in the ecosystem; transition from harvested wood products in use to harvested wood products in solid waste disposal sites). Carbon can be converted to CO<sub>2</sub>e by multiplying by 3.667 or the fraction 44/12<sup>2</sup>. Ranges in the text presented for forest ecosystem results (i.e., ±) represent a 95% confidence interval (CI), while values in the tables report the sampling error (SE; CI = 1.96\*SE). Confidence intervals around forest ecosystem flux estimates tend to be slightly smaller than in the previous year’s report because estimates are based on more plots (8/10ths of the full cycle compared to 7/10ths).

Reports released to date include:

- [AB 1504 California Forest Ecosystem and Harvested Wood Product Carbon Inventory: 2006 – 2015 FINAL REPORT](#) (Christensen et al. 2017).
- [AB 1504 California Forest Ecosystem and Harvested Wood Product Carbon Inventory: 2006 – 2015 ERRATUM SHEET](#) (Christensen et al. 2018a).
- [AB 1504 California Forest Ecosystem and Harvested Wood Product Carbon Inventory: 2007 – 2016 DATA UPDATE](#) (Christensen et al. 2018b).
- [AB 1504 California Forest Ecosystem and Harvested Wood Product Carbon Inventory: 2017 Reporting Period FINAL REPORT](#) (Christensen et al. 2019).
- AB 1504 California Forest Ecosystem and Harvested Wood Product Carbon Inventory: 2018 Reporting Period DATA UPDATE (i.e., this report)

### Improvements:

Errors found after release of the initial inventory (Christensen et al. 2017) are detailed in Christensen et al. 2018a and are also corrected in subsequent reports. Please note that to compare some results to the initial 2015 report, the erratum must be referred to. Changes to this data update from previous reports include:

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<sup>2</sup> Throughout the forest ecosystem portion of the inventory, results are converted from C to CO<sub>2</sub>e by multiplying by 3.667. Throughout the harvested wood product portion of the inventory, results are converted from C to CO<sub>2</sub>e by

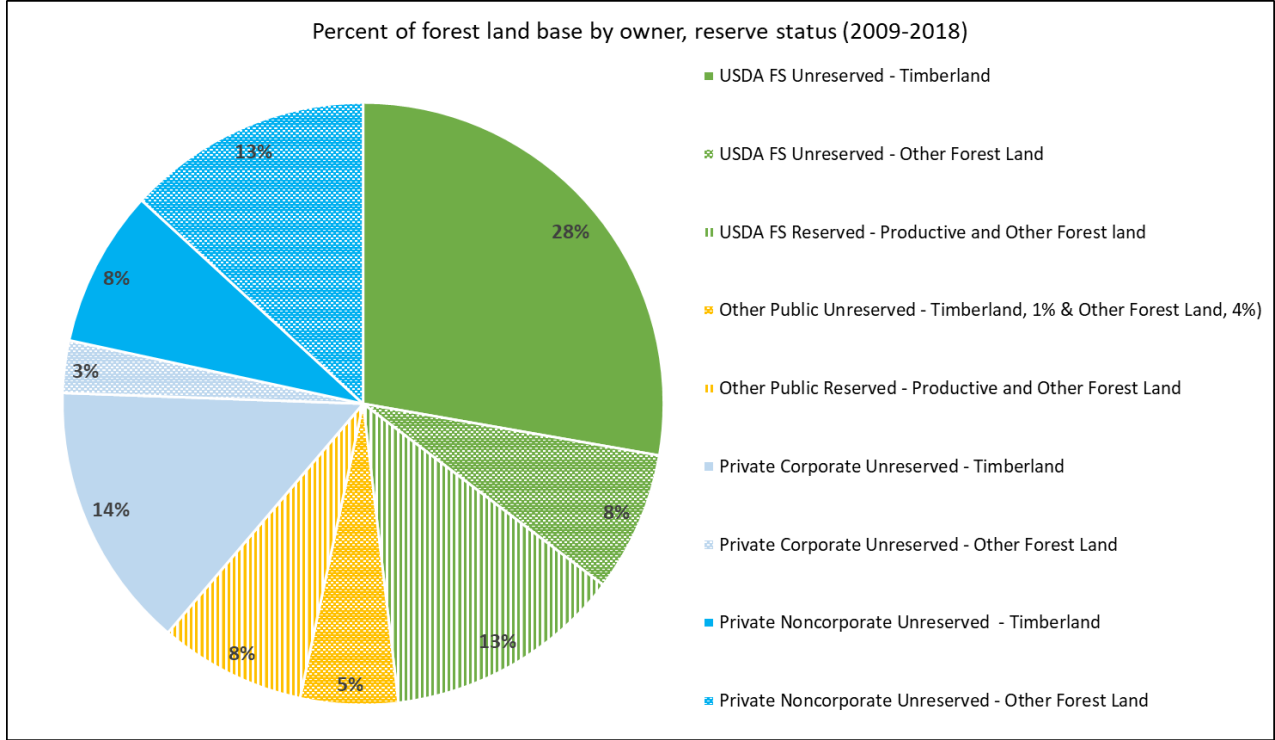
- Revision of soil organic carbon stock and flux estimates based on refinements in the Digital General Soil Map of the United States (STATSGO2) dataset (U.S. EPA 2020).
- Minor revisions of harvested wood product carbon stock and flux estimates following the discovery of errors in input parameters:
  - The 2013 – 2018 board foot to cubic foot conversion factor was updated to 4.2857 from the value of 3.9594 applied to those years in the previous report – see updated table 5.2; based on information from the most recent 2016 timber products output report (Marcille, et al. in press).
  - Revisions made to end-use product ratios after discovery of rounding errors originating in McKeever (2011). Very small additions and subtractions were made to the “other” end-use category within each primary product category so that the ratios within each primary product category summed to one. This work was completed by Andrew Yost, Oregon Department of Forestry (A. Yost, pers. communication, April 30, 2020).
- Minor revisions of harvested wood product carbon stock and flux estimates following the discovery of errors in the HWP C model code that resulted in two issues: (1) on average, approximately 1% of the initial harvested carbon to disappear from storage pools and remain unaccounted for in emission categories (revisions complete in this update) (2) narrower confidence intervals than expected based on the parameters set for Monte Carlo Uncertainty Analysis (revisions to Monte Carlo Analysis still in progress and not completed in this update). These errors are being corrected through re-coding the model using R-script through an agreement between Oregon Department of Forestry, Oregon State University, and Groom Analytics, LLC.
  - Additionally, in order to allow for better quality assurance of calculations, lag times built into the original model were modified. The model assumes that all trees harvested in a given year are processed within that year and the carbon is distributed according to the end use product ratios of that same year. Most of the carbon is immediately burned or turned into Products in Use. A fraction (the 8% loss factor) is immediately discarded and distributed to the different discard fates using the discarded disposition ratios for the same year. The carbon fate for a given year is reported in the following year. Carbon that enters the model in a given year does not undergo a half-life decay until the following year. For example, the model uses the TPO for 1952 and all product and discard ratios for 1952 to distribute the carbon in Products in Use, products at Solid Waste Disposal Sites (SWDS), and the Burned with and without Energy Capture pools. The sum of those fates for 1952 is recorded in tables as occurring by January 1, 1953. Any carbon from



1952 that was distributed to Products in Use, Landfill, or Dumps was subject to a half-life decay or disposal in 1953 (J. Groom, pers. communication, Aug. 13, 2020). In this way, inputs from harvest into the products in use and solid waste disposal pools, as well as decay from those pools are all reported in the same year. Now, if a single harvest year is being evaluated, sums for all storage and emission pools within an inventory year will sum to the harvested carbon. In the previous iteration of the model, carbon was emitted or wound up in use (e.g., Products in Use) the year after harvest, and that carbon ended up in SWDS the year *after* it was produced as a stock (i.e., shifted two years). Half-life emissions from landfills and dumps occurred the same year as the discarded carbon enters SWDS (the emissions are not lagged a year, just the SWDS stocks). That the fate from one harvest year was recorded the following year and discard and associated decay was not accounted for until the year following that, complicated the ease of verifying the model tracking of harvested carbon through the various fates.

## **2 Forest ecosystem results: Carbon flux, stock, and trends, select table and figure updates**

Table and figure numbers in this section match numbers in the 2017 measurement period report (Christensen et al. 2019). While most of the tables and figures have been replicated here, not all have been as the organization of the report is continuing to be revised. This section is intended to serve as a data update only - detailed discussion associated with the following tables and figures are forthcoming in the next full report.



**Figure 2.4:** Percent of forest land base by owner, reserve status for forest land remaining forest land (2009-2018).

**Table 4.1:** Statewide average annual net CO<sub>2</sub>e flux from forest pools in forest land remaining forest land, 2001-2008 to 2011-2018

	<b>Net flux</b>	
	<b>Total</b>	<b>SE</b>
	<i>million metric tons CO<sub>2</sub> equivalent</i>	
<b>CARBON POOL</b>		
<b>Forest</b>		
<b>Aboveground live<sup>1</sup></b>	15.6	2.1
<b>Aboveground dead<sup>2</sup></b>	6.7	1.4
<b>Belowground live<sup>3</sup></b>	3.2	0.4
<b>Belowground dead<sup>4</sup></b>	1.1	0.2
<b>NET FLUX</b>	26.7	2.2
<b>Soil Organic C</b>	-0.5	0.3
<b>TOTAL FOREST NET FLUX</b>	26.2	2.4
<sup>1</sup> includes live trees, foliage, and understory veg		
<sup>2</sup> includes standing and down dead wood, forest floor		
<sup>3</sup> includes live tree and understory veg roots		
<sup>4</sup> includes dead tree roots		
Totals may be off due to rounding		

**Table 4.2a:** Statewide average annual net CO<sub>2</sub>e flux from forest pools, non-CO<sub>2</sub> emissions from forest fires in Forest land remaining forest land, and changes due to forest land conversions (i.e., by forest land-use and land-use change). Plots initially measured between 2001-2008 and re-measured between 2011-2018.

Land-use category	Net flux	
	Total*	SE
	<i>million metric tons CO<sub>2</sub> equivalent</i>	
<b>Forest land remaining forest land</b>		
Changes in forest carbon	29.7	2.4
Changes in Soil Organic Carbon	-0.5	0.3
Non-CO <sub>2</sub> emissions from forest fires	-0.5	0.1
<b><i>net flux</i></b>	<b>28.7</b>	<b>2.5</b>
<b>Forest land conversions</b>		
Changes in forest carbon, forest to non-forest	-2.9	0.4
Changes in forest carbon, non-forest to forest	1.4	0.2
<b><i>net flux</i></b>	<b>-1.5</b>	<b>0.5</b>
<b><i>total net flux</i></b>	<b>27.2</b>	<b>2.6</b>

Note: negative numbers are a net emission to the atmosphere

\*totals may be off due to rounding

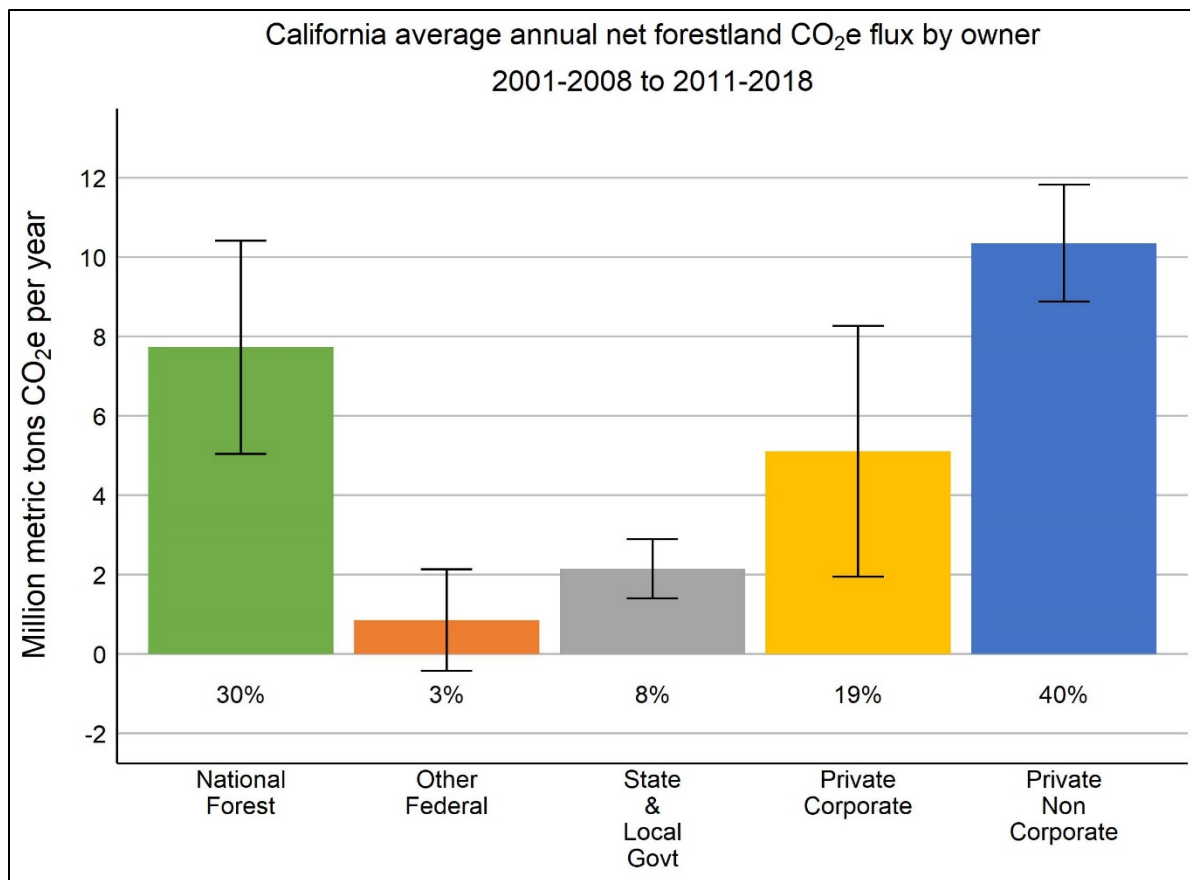
**Table 4.2b:** Average annual net CO<sub>2</sub>e flux from forest ecosystem pools and non-CO<sub>2</sub> emissions from forest fires in Forest land remaining forest land, 2001-2008 to 2011-2018: Forest Practice Districts

Forest Practice District	Net flux		Soil Organic C		Forest Floor		non-CO <sub>2</sub> emissions from forest fires		net flux	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>million metric tons CO<sub>2</sub> equivalent</i>										
Northern	9.7	1.4	-0.6	0.3	0.1	0.1	-0.3	0.0	8.9	1.5
Southern	3.3	0.9	-0.1	0.1	-0.1	0.1	-0.2	0.0	2.9	0.9
Coastal	11.6	1.4	0.2	0.2	0.1	0.0	0.0	0.0	11.9	1.4
<b>All California</b>	<b>26.7</b>	<b>2.2</b>	<b>-0.5</b>	<b>0.3</b>	<b>0.0</b>	<b>0.2</b>	<b>-0.6</b>	<b>0.1</b>	<b>25.6</b>	<b>2.4</b>

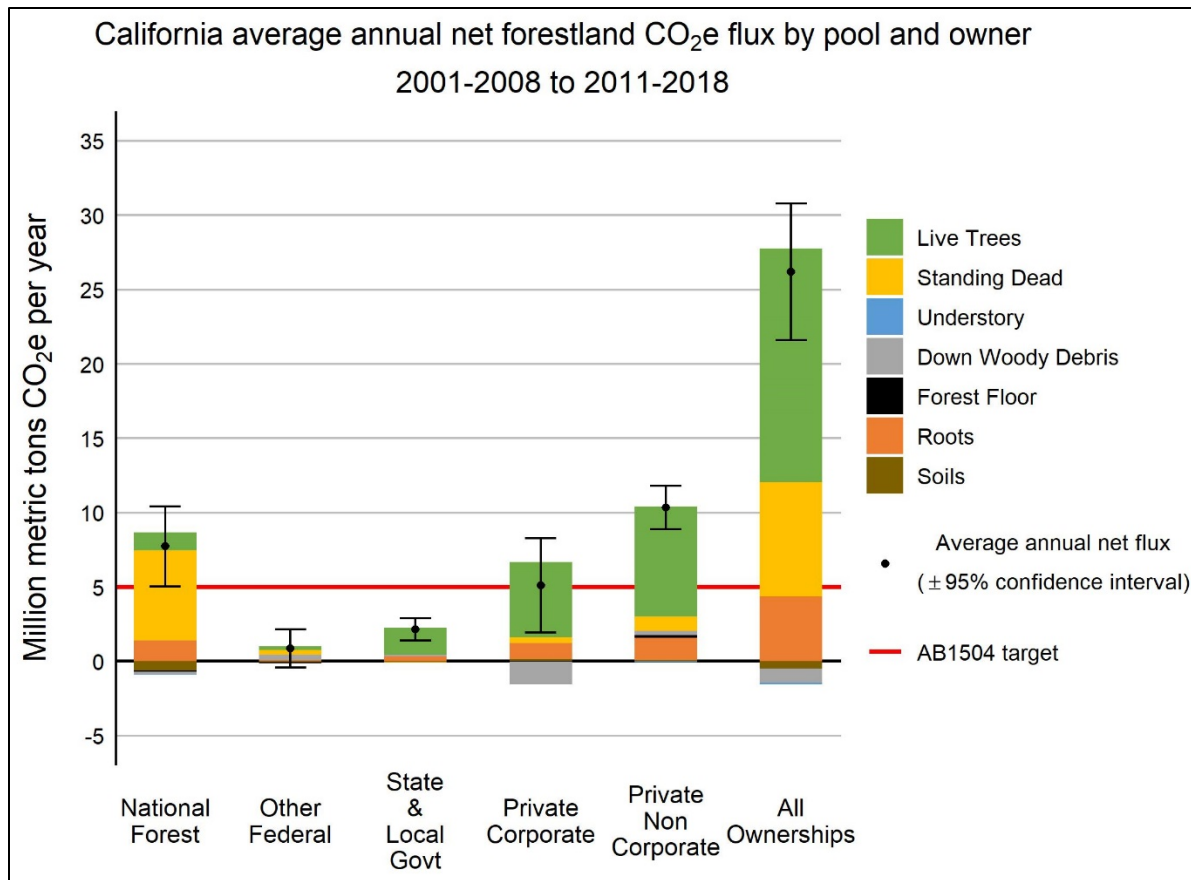
Note: negative numbers are a net emission to the atmosphere

**Table 4.3:** Statewide estimate of average annual net carbon flux (CO<sub>2</sub>e) by pools and owner, 2001-2008 to 2011-2018. Changes in CO<sub>2</sub>e due to land-use and non-CO<sub>2</sub> greenhouse gas emissions are not included. See also Appendix 2, Table B1.

	Public						Private				Total		Total	
	National forest		Other federal		State and local gov.		Corporate		Non Corporate		Total	SE	Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons CO<sub>2</sub> equivalent per year</i>														
<b>Standing Live tree</b>														
Mortality	-27,538	1,256	-3,780	600	-1,388	262	-3,990	274	-4,675	325	-8,665	402	-41,371	1,465
Cut	-2,141	375	-33	22	-129	111	-10,163	1,034	-1,270	265	-11,433	1,056	-13,736	1,126
Gross Growth	30,746	521	4,030	294	3,239	324	18,926	701	13,014	597	31,939	713	69,954	924
Net	1,067	1,386	217	612	1,722	300	4,773	1,170	7,068	593	11,842	1,295	14,847	2,025
<b>Foliage</b>	141	70	19	28	85	16	280	60	321	28	601	66	846	102
<b>Roots</b>														
Live	418	276	83	109	339	67	1,064	242	1,354	123	2,418	268	3,258	408
Dead	988	190	-6	93	-9	31	-12	52	161	54	149	75	1,123	227
<b>Standing Dead</b>	6,046	910	305	506	-35	118	385	202	991	224	1,376	301	7,692	1,090
<b>Dead Woody Debris</b>	-186	590	373	284	108	153	-1,546	440	273	290	-1,273	527	-979	854
<b>Understory Vegetation</b>														
Above Ground	-44	48	6	23	-17	6	1	38	-59	18	-58	42	-112	68
Below Ground	-5	5	1	3	-2	1		4	-7	2	-6	5	-12	8
<b>Total (excluding soils)</b>	<b>8,426</b>	<b>1,284</b>	<b>998</b>	<b>612</b>	<b>2,192</b>	<b>376</b>	<b>4,945</b>	<b>1,551</b>	<b>10,103</b>	<b>726</b>	<b>15,048</b>	<b>1,695</b>	<b>26,663</b>	<b>2,242</b>
<b>Forest Floor</b>	-78	123	-66	57		14	-14	86	161	54	147	102	4	170
<b>Soils</b>	-619	220	-71	80	-44	47	175	228	90	102	265	249	-468	346

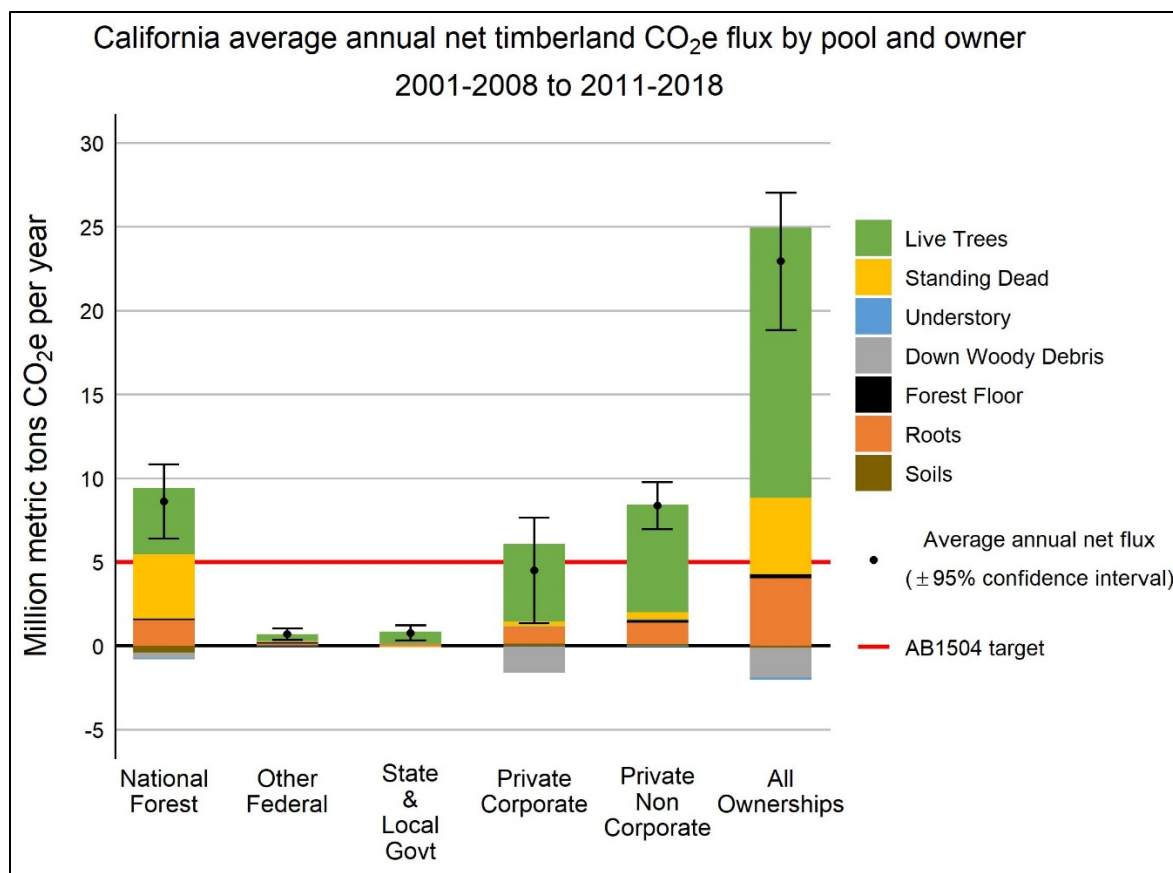


**Figure 4.1.** California average annual net forest CO<sub>2</sub>e flux, all forest ecosystem pools by owner, 2001-2008 to 2011-2018 (MMT CO<sub>2</sub>e/yr). Error bars represent the 95% confidence interval of net flux. Percentage contribution by owner based on average value. Figure derived from table 4.3/Appendix 2, Table B1.

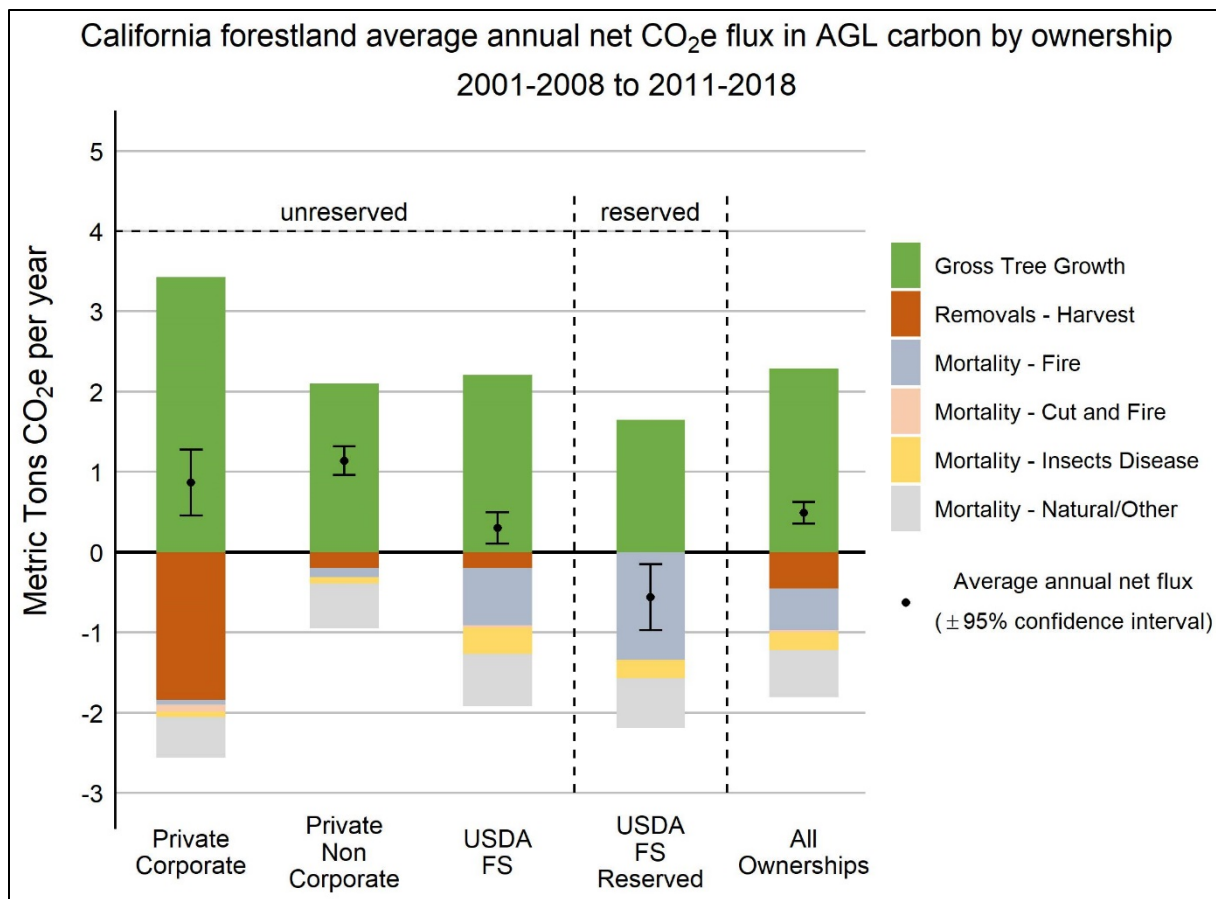


**Figure 4.2.** California average annual net forestland carbon flux by pool and ownership, 2001-2006 to 2011-2016 (MMT CO<sub>2</sub>e/yr). Estimates exclude emissions from land-use changes (1.5 MMT CO<sub>2</sub>e/yr) and non-CO<sub>2</sub> greenhouse gases (0.5 MMT CO<sub>2</sub>e/yr). Roots includes belowground live and dead tree roots. Understory includes aboveground and belowground understory vegetation. Error bars represent the 95% confidence interval of estimated net flux. Figure derived from Table 4.3/Appendix 2, Table B1.





**Figure 4.3.** California average annual net timberland carbon flux by pool and ownership, 2001-2006 to 2011-2016 (MMT CO<sub>2</sub>e/yr). Estimates exclude emissions from land-use changes (1.5 MMT CO<sub>2</sub>e/yr) and non-CO<sub>2</sub> greenhouse gases (0.5 MMT CO<sub>2</sub>e/yr). Roots includes belowground live and dead tree roots. Understory includes aboveground and belowground understory vegetation. Error bars represent the 95% confidence interval of estimated net flux.

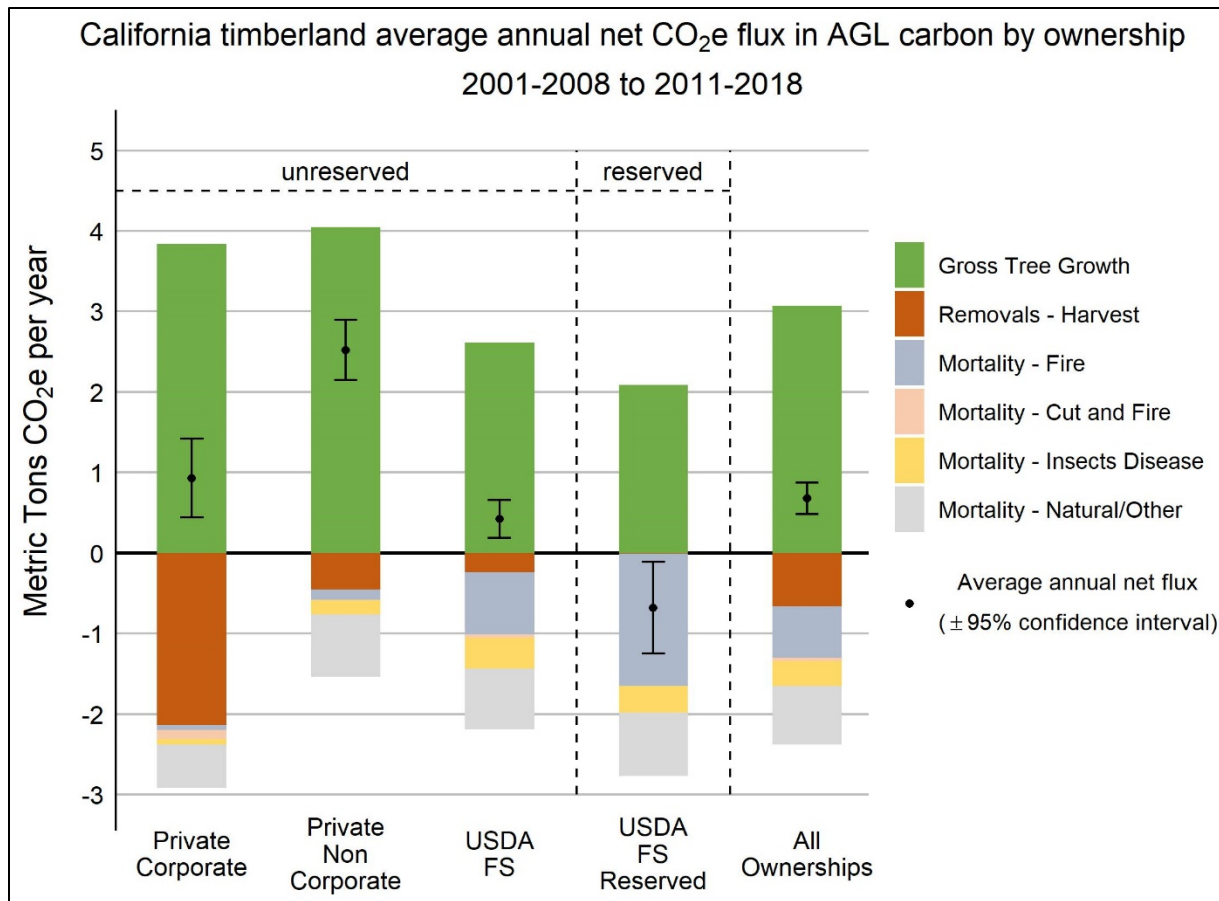


**Figure 4.4a.** Average annual net CO<sub>2</sub>e flux per acre in aboveground live tree carbon pool from growth, mortality and harvest by ownership and land status of California’s forests (MT CO<sub>2</sub>e/acre/year), 2001-2005 to 2011-2015. The “all ownerships” category includes all other state and federal agencies managing fewer overall acres of forest land in California. The error bars represent the 95% confidence interval of net change. Figure derived from Appendix 2, Table B12.

**Table 4.4A** Forest land average annual growth, mortality, harvest, and net change per acre in aboveground live tree carbon pool by ownership and land status of California's forests, 2001-2008 to 2011-2018. The all ownerships category includes all other state and federal agencies managing fewer overall acres of forest land in California.

	Unreserved Forest Land			Reserved Forest Land	All Forest Land
	Private - Corporate	Private - Noncorporate	National Forests	National Forests	All Ownerships
	<i>Metric tons CO<sub>2</sub>e/acre/year</i>				
<b>Gross tree growth</b>	3.43	2.10	2.21	1.65	2.29
<b>Removals - harvest</b>	-1.84	-0.20	-0.20	0.00	-0.45
<b>Mortality - fire killed</b>	-0.06	-0.11	-0.71	-1.34	-0.52
<b>Mortality - cut and fire<sup>1</sup></b>	-0.09	0.00	-0.03	--	-0.03
<b>Mortality - insects and disease</b>	-0.07	-0.08	-0.33	-0.23	-0.22
<b>Mortality - natural/other</b>	-0.50	-0.56	-0.65	-0.62	-0.59
<b>Net change (± 95% Confidence Interval)</b>	<b>0.87 (0.41)</b>	<b>1.14 (0.18)</b>	<b>0.3 (0.20)</b>	<b>-0.56 (0.41)</b>	<b>0.49 (0.14)</b>

<sup>1</sup>Mortality - Cut and fire: plots where tree mortality has occurred due to both harvest and fire.



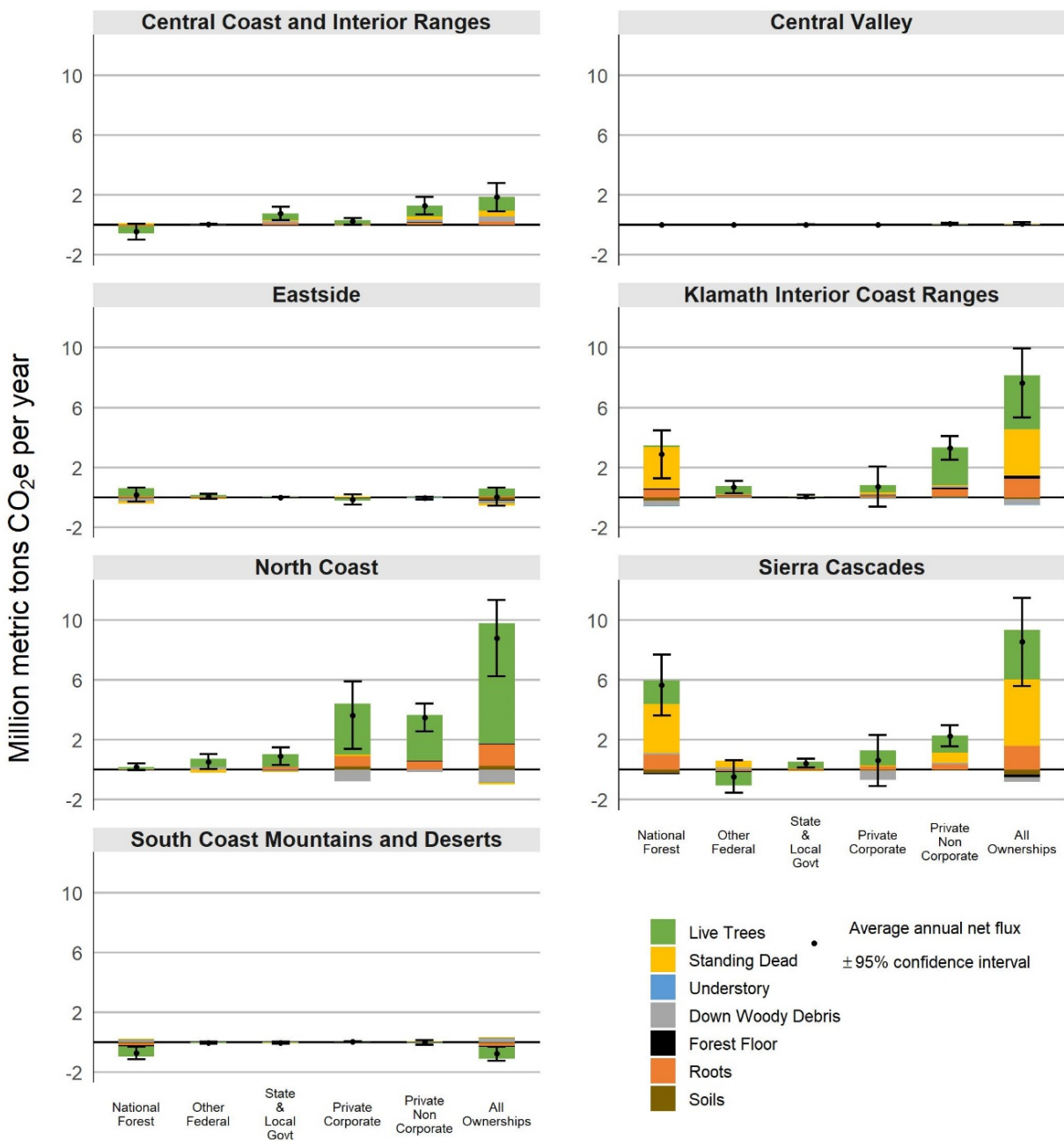
**Figure 4.4b.** Timberland (productive forest land) average annual net CO<sub>2</sub>e flux per acre in aboveground live tree carbon pool from growth, mortality and harvest by ownership and land status of California’s productive forests (MT CO<sub>2</sub>e/acre/year), 2001-2008 to 2011-2018. The “all ownerships” category includes all other state and federal agencies managing fewer overall acres of forest land in California. The error bars represent the 95% confidence interval of net change. Figure derived from Appendix 2, Table B12.

**Table 4.4B** Timberland average annual growth, mortality, harvest, and net change per acre in aboveground live tree carbon pool by ownership and land status of California’s productive forests, 2001-2008 to 2011-2018. The all ownerships category includes all other state and federal agencies managing fewer overall acres of forest land in California.

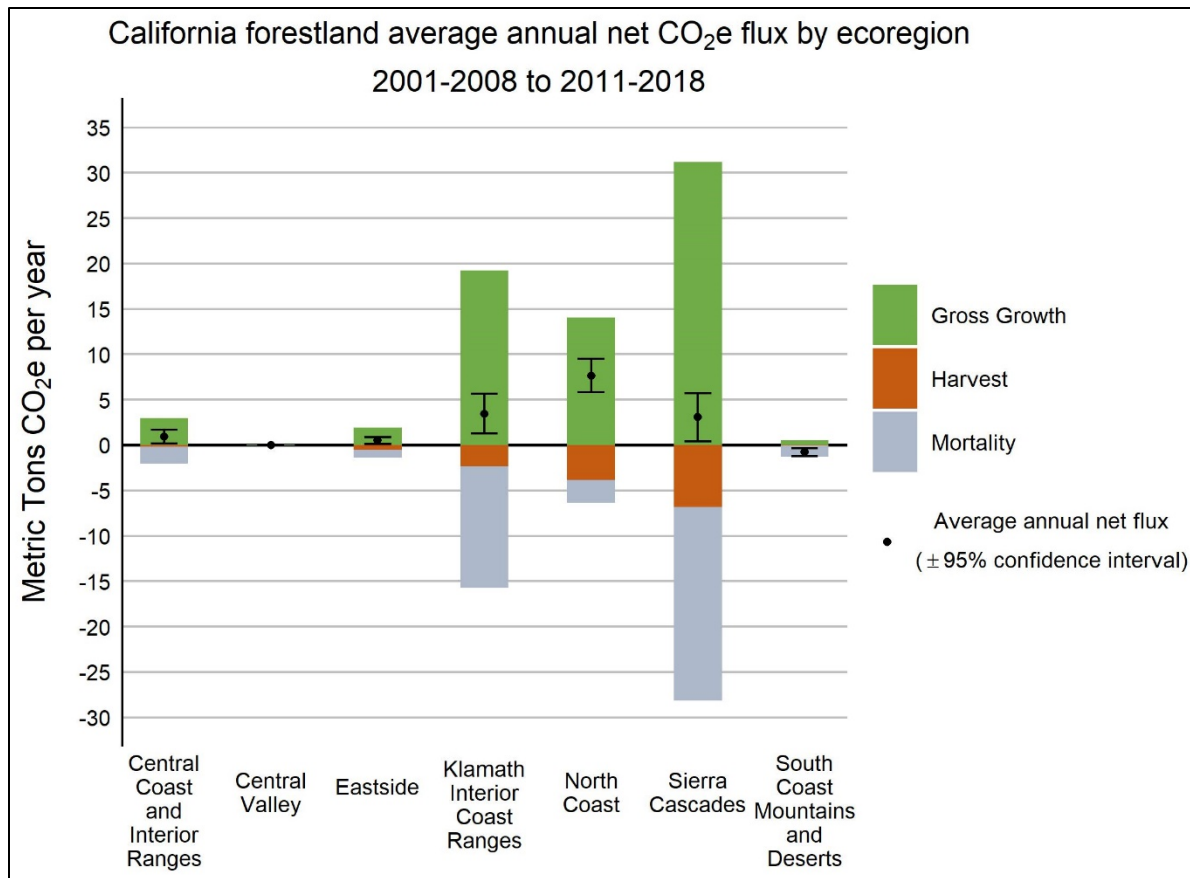
	Timberland			Reserved Productive Forest Land	All Productive Forest Land
	Private - Corporate	Private - Noncorporate	National Forests	National Forests	All Ownerships
	<i>Metric tons CO2e/acre/year</i>				
<b>Gross tree growth</b>	3.84	4.05	2.61	2.09	3.07
<b>Removals - harvest</b>	-2.14	-0.45	-0.24	-0.01	-0.66
<b>Mortality - fire killed</b>	-0.06	-0.13	-0.77	-1.64	-0.64
<b>Mortality - cut and fire<sup>1</sup></b>	-0.11	-0.01	-0.04	--	-0.04
<b>Mortality - insects and disease</b>	-0.07	-0.17	-0.39	-0.33	-0.31
<b>Mortality - natural/other</b>	-0.54	-0.78	-0.75	-0.79	-0.73
<b>Net change</b>	<b>0.93 (0.49)</b>	<b>2.52 (0.37)</b>	<b>0.42 (0.24)</b>	<b>-0.68 (0.57)</b>	<b>0.68 (0.20)</b>

<sup>1</sup>Mortality - Cut and fire: plots where tree mortality has occurred due to both harvest and fire.

California (ecoregions) average annual net forestland CO<sub>2</sub>e flux by pool and owner  
2001-2008 to 2011-2018



**Figure 4.6a.** California Ecoregions average annual net forestland carbon flux by pool and ownership, 2001-2008 to 2011-2018 (MMT CO<sub>2</sub>e/yr). Estimates exclude emissions from land-use changes. Roots includes belowground live and dead tree roots. Understory includes aboveground and belowground understory vegetation. Error bars represent the 95% confidence interval of estimated net flux. Figure derived from Appendix 2, Tables B2-8. For more visible scale, individual ecoregion figures replicated in Appendix 1. *\*Note, this is a new figure that was not included in the previous report.*



**Figure 4.6b.** Average annual net CO<sub>2</sub>e flux in live trees from growth, harvest and mortality by ecological region, 2001-2008 to 2011-2018 (MMT CO<sub>2</sub>e/yr). Error bars represent the 95% confidence interval of estimated net flux. Figure derived from Table 4.5/Appendix 2, Tables B2-B8.

*\*Note, figure number changed from 4.6 in the previous report to 4.6b in this data update.*

**Table 4.5** Average annual net CO<sub>2</sub>e flux in live trees from growth, harvest, mortality by ecological region, 2001-2008 to 2011-2018. Compare to Appendix 2, Tables B2-B8.

	<b>Gross Growth</b>		<b>Harvest</b>		<b>Mortality</b>		<b>Net Flux</b>	
	<b>Total</b>	<b>SE</b>	<b>Total</b>	<b>SE</b>	<b>Total</b>	<b>SE</b>	<b>Total</b>	<b>SE</b>
	<i>Thousand Metric Tons CO<sub>2</sub> equivalent per year</i>							
<b>Central Coast and Interior Ranges</b>	2,981	344	-184	84	-1,881	348	916	392
<b>Central Valley</b>	71	31	-4	4	-42	22	26	21
<b>Eastside</b>	1,909	168	-546	130	-857	146	506	190
<b>Klamath Interior Coast Ranges</b>	19,214	676	-2,313	484	-13,436	967	3,465	1,128
<b>North Coast</b>	14,028	802	-3,834	749	-2,547	297	7,647	940
<b>Sierra Cascades</b>	31,221	759	-6,800	733	-21,357	1,120	3,064	1,342
<b>South Coast Mountains and Deserts</b>	530	69	-55	32	-1,252	238	-777	214
<b>All California</b>	<b>69,954</b>	<b>924</b>	<b>-13,736</b>	<b>1,126</b>	<b>-41,371</b>	<b>1,465</b>	<b>14,847</b>	<b>2,025</b>



**Table 4.6a:** Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2008 to 2011-2018: All California. See also Appendix 2, Table B9.1

	USDA Forest Service								Other Public				Private				Total			
	Timberland		Reserved		Low productive, unreserved		Total		Other federal		State and local govt.		Corporate		Non Corporate		Total		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons CO2 equivalent per year</i>																				
<b>Cut</b>																				
Mortality	-207	72	-6	6	-3	3	-216	73			-15	12	-415	70	-237	69	-652	97	-883	122
Cut	-1,124	226	-3	3	--	--	-1,127	226	-17	16	-18	19	-8,250	945	-867	249	-9,117	969	-10,279	996
Gross Growth	1,067	163	14	15	1	1	1,081	164	13	12	16	14	3,663	334	971	213	4,634	386	5,743	420
Net Live	-264	188	5	6	-2	2	-261	188	-5	15	-17	17	-5,002	817	-133	215	-5,135	844	-5,418	865
Standing Dead Change	-198	128	--	--	1	1	-197	128	-2	2	4	3	-99	72	52	56	-47	91	-241	157
Dead Woody Debris Change	-3	81	-1	1	7	7	3	82	17	16	13	23	-564	273	93	139	-471	307	-439	319
Total Net <sup>1</sup>	-548	263	5	5	6	5	-537	263	8	13	-2	6	-6,821	1,142	-17	289	-6,838	1,178	-7,370	1,207
<b>Cut and Fire</b>																				
Mortality	-327	129	--	--	--	--	-327	129	--	--	-17	18	-517	154	-30	30	-547	157	-891	204
Cut	-593	239	--	--	--	--	-593	239	--	--	-105	109	-1,144	401	--	--	-1,144	401	-1,842	480
Gross Growth	261	77	--	--	--	--	261	77	--	--	53	55	223	61	5	5	228	61	541	113
Net Live	-660	247	--	--	--	--	-660	247	--	--	-69	72	-1,439	448	-25	25	-1,464	449	-2,192	517
Standing Dead Change	35	60	--	--	--	--	35	60	--	--	-1	1	67	56	-7	7	60	57	94	83
Dead Woody Debris Change	-33	41	--	--	--	--	-33	41	--	--	12	13	82	98	-7	7	75	99	55	107
Total Net <sup>1</sup>	-798	305	--	--	--	--	-798	305	--	--	-69	72	-1,600	499	-44	44	-1,643	501	-2,510	591
<b>Fire</b>																				
Mortality	-6,743	831	-5,407	816	-989	249	-13,139	1,185	-1,328	427	-274	122	-321	95	-667	175	-987	199	-15,728	1,280
Cut	-190	176	--	--	-2	1	-192	176	--	--	--	--	-13	11	-38	22	-50	25	-242	177
Gross Growth	2,016	210	1,200	154	187	44	3,403	264	459	103	42	29	213	61	327	80	540	101	4,444	302
Net Live	-4,917	768	-4,207	737	-804	225	-9,928	1,083	-869	383	-232	103	-120	80	-377	143	-497	164	-11,526	1,165
Standing Dead Change	2,850	547	1,954	463	290	149	5,094	730	20	353	59	32	26	61	191	83	217	103	5,390	819
Dead Woody Debris Change	-378	198	-15	151	-27	44	-420	253	-98	91	38	42	-118	47	148	83	30	95	-450	288
Total Net <sup>1</sup>	-3,004	579	-2,834	551	-689	179	-6,527	817	-1,153	429	-174	98	-227	129	-87	107	-314	168	-8,169	942

**Table 4.6a: Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2008 to 2011-2018: All California. See also Appendix 2, Table B9.1 (Continued)**

	USDA Forest Service								Other Public				Private				Total			
	Timberland		Reserved		Low productive, unreserved		Total		Other federal		State and local govt.		Corporate		Non Corporate		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE		
<i>thousand metric tons CO2 equivalent per year</i>																				
<b>Insect and Disease</b>																				
Mortality	-3,384	379	-950	240	-159	69	-4,493	453	-1,262	433	-181	80	-379	82	-477	126	-856	149	-6,792	647
Cut	-64	30	--	--	--	--	-64	30	--	--	--	--	-48	19	-78	27	-78	27	-143	41
Gross Growth	4,308	328	706	122	77	24	5,091	350	572	115	284	107	1,090	189	886	186	1,976	263	7,923	462
Net Live	860	330	-244	204	-82	52	534	392	-690	372	103	74	663	139	379	155	1,041	207	989	586
Standing Dead Change	419	279	196	173	53	47	667	332	542	329	-98	96	-27	41	131	103	104	111	1,215	490
Dead Woody Debris Change	238	219	245	184	-7	33	476	288	168	96	21	82	-59	61	7	53	-52	81	612	324
Total Net <sup>1</sup>	1,828	351	202	187	-45	46	1,986	401	-12	156	42	152	722	163	628	174	1,350	237	3,365	513
<b>Other cut and weather</b>																				
Mortality	-876	218	-306	118	-115	45	-1,297	251	-173	85	-5	5	-235	82	-521	137	-756	159	-2,231	309
Cut	-123	52	-12	10	--	--	-135	53	-15	15	-2	3	-246	85	-155	60	-401	103	-554	117
Gross Growth	1,033	165	292	74	71	30	1,395	182	155	58	33	34	725	169	702	139	1,426	217	3,010	291
Net Live	34	184	-26	87	-44	27	-37	206	-33	68	25	31	244	132	26	153	270	202	225	298
Standing Dead Change	418	183	68	123	64	33	551	223	49	29	-7	13	49	21	279	110	328	112	920	251
Dead Woody Debris Change	-7	112	20	63	20	29	33	132	20	32	36	30	-221	129	211	100	-10	163	80	214
Total Net <sup>1</sup>	520	157	66	99	41	35	627	188	39	69	57	38	135	174	585	164	720	239	1,444	314
<b>Less than 25% disturbed</b>																				
Mortality	-5,502	392	-2,216	237	-348	63	-8,067	456	-1,018	171	-896	229	-2,123	179	-2,743	201	-4,866	257	-14,847	594
Cut	-28	14	-1	1	-1	1	-30	14			-3	3	-462	108	-181	61	-643	124	-677	125
Gross Growth	14,192	513	4,443	314	879	114	19,515	571	2,831	289	2,812	341	13,012	678	10,123	541	23,135	756	48,293	1,019
Net Live	8,661	495	2,227	289	530	104	11,418	565	1,813	260	1,912	253	10,427	612	7,199	483	17,626	703	32,769	956
Standing Dead Change	312	287	-342	212	-74	45	-104	359	-305	151	8	58	369	164	345	134	714	211	313	448
Dead Woody Debris Change	-153	329	-41	244	-51	82	-245	418	266	248	-11	115	-668	296	-178	212	-846	364	-836	617
Total Net <sup>1</sup>	10,948	634	2,253	391	474	131	13,676	735	2,116	381	2,338	303	12,735	805	9,037	620	21,773	926	39,902	1,261
<b>Total</b>																				
Mortality	-17,039	941	-8,884	830	-1,615	268	-27,538	1,256	-3,780	600	-1,388	262	-3,990	274	-4,675	325	-8,665	402	-41,371	1,465
Cut	-2,122	375	-16	10	-3	2	-2,141	375	-33	22	-129	111	-10,163	1,034	-1,270	265	-11,433	1,056	-13,736	1,126
Gross Growth	22,876	505	6,654	314	1,215	127	30,746	521	4,030	294	3,239	324	18,926	701	13,014	597	31,939	713	69,954	924
Net Live	3,715	1,073	-2,246	841	-402	256	1,067	1,386	217	612	1,722	300	4,773	1,170	7,068	593	11,842	1,295	14,847	2,025
Standing Dead Change	3,836	709	1,876	553	334	166	6,046	910	305	506	-35	118	385	202	991	224	1,376	301	7,692	1,090
Dead Woody Debris Change	-337	466	208	348	-58	103	-186	590	373	284	108	153	-1,546	440	273	290	-1,273	527	-979	854
Total Net <sup>1</sup>	8,947	1,044	-308	725	-214	231	8,426	1,284	998	612	2,192	376	4,945	1,551	10,103	726	15,048	1,695	26,663	2,242

<sup>1</sup>Total Net value includes change from roots and understory vegetation which are not enumerated in this table. Excludes change from SOC and forest floor (litter).

**Table 4.6b:** Average annual carbon (CO<sub>2</sub>e) flux in live trees from growth, harvest, mortality, 2001-2008 to 2011-2018: COUNTY. See also Appendix 2, Table B9.2.

County	Standing Live														All Pools			
	Gross Growth		Harvest		Fire killed		Cut and fire		Insects and disease		Natural/other		Total Mortality		Net Flux		Net Flux	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand Metric Tons CO<sub>2</sub>e equivalent per year</i>																	
Alameda	120	40	-5	5	--	--	--	--	--	--	-38	21	-38	21	77	30	103	48
Alpine	515	95	-3	3	-7	7	--	--	-172	58	-164	52	-343	77	169	65	194	131
Amador	490	130	-40	24	-43	34	-95	100	-30	29	-151	61	-320	125	130	130	112	152
Butte	1,839	271	-296	141	-143	73	-49	43	-29	13	-567	113	-788	143	755	251	1,047	310
Calaveras	1,183	195	-260	104	-164	116	--	--	-28	17	-329	163	-521	200	403	217	691	191
Colusa	144	41	-1	1	-257	142	--	--	--	--	-68	36	-326	146	-182	131	-86	87
Contra Costa	55	24	-6	6	--	--	--	--	--	--	-19	14	-19	14	30	22	46	31
Del Norte	2,863	433	-423	251	-259	134	--	--	-16	7	-764	235	-1,039	270	1,401	380	1,285	463
El Dorado	2,571	293	-557	226	-405	207	-97	80	-265	74	-643	109	-1,410	257	604	358	1,221	423
Fresno	1,673	196	-121	94	-436	199	-43	32	-228	128	-1,214	258	-1,921	352	-369	339	409	276
Glenn	377	87	-1	1	-127	106	--	--	-22	14	-114	44	-263	115	113	95	118	130
Humboldt	8,947	672	-2,307	601	-182	111	--	--	-43	25	-1,650	196	-1,876	225	4,764	755	4,903	1,130
Imperial			--	--	--	--	--	--	--	--	--	--	--	--			-1	1
Inyo	96	15	--	--	--	--	--	--			-22	9	-22	9	74	14	6	50
Kern	381	72	--	--	-105	51	--	--	-86	51	-253	75	-444	105	-63	102	-17	157
Lake	654	123	-9	7	-89	70	--	--	-5	7	-190	106	-284	127	361	149	443	152
Lassen	1,785	184	-504	136	-142	66	-14	13	-123	41	-304	66	-582	103	699	185	469	291
Los Angeles	80	25	--	--	-179	101	--	--	--	--	-40	22	-219	103	-139	89	-113	96
Madera	1,164	183	-32	20	-264	180	--	--	-651	250	-668	174	-1,584	353	-452	310	530	259
Marin	314	139	-2	2	--	--	--	--	-155	105	-19	13	-173	106	138	142	94	162
Mariposa	1,284	186	-55	41	-524	206	--	--	-392	149	-394	109	-1,309	272	-81	222	361	284
Mendocino	6,635	532	-1,399	429	-241	111	-20	18	-146	51	-850	113	-1,256	167	3,980	588	5,303	721
Merced	11	7	--	--	--	--	--	--	--	--	--	--	--	--	11	7	-9	23
Modoc	1,348	155	-423	108	-77	55	-159	88	-128	45	-182	49	-546	122	378	158	246	223
Mono	320	55	-45	34	-36	26	--	--	-92	53	-106	28	-234	65	41	71	106	127
Monterey	382	83	-1	1	-701	310	--	--	--	--	-186	75	-887	319	-506	286	-349	282
Napa	398	101	-36	32	-87	66	--	--	--	--	-163	55	-250	86	113	95	287	112
Nevada	1,077	179	-201	100	--	--	--	--	-189	82	-250	72	-439	109	437	146	673	182
Orange	3	3	--	--	--	--	--	--	--	--	--	--	--	--	3	3	9	9
Placer	1,851	238	-339	191	-97	56	-7	7	-255	88	-527	120	-885	159	627	251	950	348
Plumas	3,882	331	-1,075	321	-1,846	516	-89	51	-470	118	-712	123	-3,117	545	-311	621	119	697
Riverside	54	24	--	--	-4	6	--	--	-69	42	-9	9	-83	43	-29	30	14	41

**Table 4.6b:** Average annual carbon (CO<sub>2</sub>e) flux in live trees from growth, harvest, mortality, 2001-2008 to 2011-2018: COUNTY. See also Appendix 2, Table B9.2. (CONTINUED)

County	Standing Live														All Pools			
	Gross Growth		Harvest		Fire killed		Cut and fire		Insects and disease		Natural/other		Total Mortality		Net Flux		Net Flux	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand Metric Tons CO<sub>2</sub> equivalent per year</i>																	
Sacramento	6	5	--	--	--	--	--	--	--	--	-1	1	-1	1	5	4	5	5
San Benito	107	46	--	--	--	--	--	--	--	--	-34	19	-34	19	73	44	108	45
San Bernardino	165	43	-37	29	-220	122	-14	15	-15	11	-140	54	-389	134	-262	132	-355	156
San Diego	56	21	-14	13	-59	34	--	--	--	--	-38	21	-97	40	-55	42	-84	54
San Joaquin	22	23	-4	4	--	--	--	--	--	--	-15	15	-15	15	4	4	18	16
San Luis Obispo	192	39	--	--	--	--	--	--	--	--	-130	42	-130	42	62	34	251	58
San Mateo	482	166	-65	49	--	--	--	--	-30	39	-151	60	-181	74	236	134	496	193
Santa Barbara	80	29	--	--	-268	143	--	--	--	--	-61	25	-329	145	-250	121	-189	113
Santa Clara	347	83	--	--	-24	25	--	--	--	--	-176	59	-200	64	147	62	202	66
Santa Cruz	1,245	274	-108	67	-8	7	--	--	-85	52	-257	73	-350	90	787	216	966	314
Shasta	4,458	345	-1,780	430	-860	242	-202	90	-224	66	-1,036	168	-2,322	326	356	583	1,419	656
Sierra	1,292	182	-389	163	-78	80	--	--	-153	47	-219	54	-450	106	452	171	179	278
Siskiyou	6,939	411	-1,539	401	-3,068	684	-88	61	-529	127	-1,466	180	-5,151	714	250	782	1,457	791
Solano	10	8	--	--	--	--	--	--	--	--	--	--	--	--	10	8	9	7
Sonoma	1,421	225	-143	79	-7	6	--	--	-161	71	-200	48	-368	86	910	161	1,169	241
Stanislaus	28	9	--	--	-6	6	--	--	--	--	-12	9	-18	11	10	8	25	31
Sutter	19	18	--	--	--	--	--	--	--	--	-1	1	-1	1	19	18	23	22
Tehama	1,685	205	-329	142	-308	152	--	--	-184	67	-639	147	-1,131	220	225	212	499	303
Trinity	4,514	334	-745	259	-2,373	542	-14	13	-237	81	-1,241	172	-3,865	565	-96	581	990	583
Tulare	1,583	192	-3	4	-787	263	--	--	-390	184	-696	144	-1,873	350	-294	315	212	300
Tuolumne	2,205	243	-392	176	-1,135	422	-1	1	-1,187	446	-646	142	-2,969	627	-1,156	576	-735	536
Ventura	68	19	-4	4	-114	62	--	--	-1	1	-27	15	-142	64	-78	57	-78	62
Yolo	25	9	--	--	--	--	--	--	--	--	-12	10	-12	10	13	9	26	11
Yuba	511	133	-43	37	--	--	--	--	--	--	-169	55	-169	55	299	99	417	160
All counties	69,954	924	-13,736	1,126	-15,728	1,280	-891	204	-6,792	647	-17,961	659	-41,371	1,465	14,847	2,025	26,199	2,352

**Table 4.6c:** Average annual carbon (CO<sub>2</sub>e) flux in live trees from growth, harvest, mortality, 2001-2008 to 2011-2018: NATIONAL FOREST. See also Appendix 2, Table B9.3.

	Standing Live																All Pools		
	Gross Growth		Harvest		Fire killed		Cut and fire		Insects and disease		Natural/other		Total Mortality		Net Flux		Net Flux		
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	
	<i>Thousand Metric Tons CO<sub>2</sub> equivalent per year</i>																		
<b>Region 5</b>																			
Angeles	89	27	--	--	-179	101	--	--	--	--	-40	22	-219	103	-131	90	-114	97	
Cleveland	8	6	--	--	-6	6	--	--	--	--	--	--	-6	6	2	8	5	13	
Eldorado	1,932	249	-331	213	-434	209	-108	100	-241	68	-469	101	-1,253	259	347	342	639	387	
Inyo	439	80	-45	34	-2	2	--	--	-51	31	-160	45	-213	54	180	69	136	175	
Klamath	2,818	253	-160	76	-2,656	670	-66	58	-314	102	-777	127	-3,814	689	-1,156	638	42	462	
Lake Tahoe Basin	247	75	-32	29	--	--	-7	6	-84	44	-71	54	-161	70	54	65	5	103	
Lassen	2,443	251	-315	121	-1,073	390	-36	22	-324	96	-689	140	-2,122	423	6	406	377	429	
Los Padres	329	65	--	--	-917	329	--	--	-1	1	-143	42	-1,061	331	-732	297	-637	294	
Mendocino	1,649	192	-13	8	-1,043	389	--	--	-126	52	-480	127	-1,649	411	-13	379	360	334	
Modoc	1,196	138	-94	48	-23	13	-37	39	-182	52	-233	62	-475	90	627	111	434	165	
Plumas	3,033	286	-378	193	-1,359	403	--	--	-296	85	-658	122	-2,313	427	341	479	786	551	
San Bernardino	161	42	-37	29	-184	117	-14	15	-77	43	-126	52	-401	136	-278	130	-388	150	
Sequoia	1,238	175	-9	5	-925	270	--	--	-272	163	-578	148	-1,774	347	-544	323	19	303	
Shasta-Trinity	4,719	336	-213	79	-2,055	437	-1	2	-277	87	-1,442	193	-3,776	473	731	455	2,197	461	
Sierra	2,198	240	-131	96	-625	259	-43	32	-800	276	-1,446	277	-2,914	469	-847	425	470	328	
Six Rivers	3,300	322	-54	51	-969	254	-14	13	-125	63	-904	167	-2,012	308	1,234	338	1,335	440	
Stanislaus	1,937	230	-77	46	-531	201	--	--	-671	209	-628	201	-1,829	350	30	287	496	266	
Tahoe	2,373	259	-250	123	-102	81	--	--	-523	126	-532	110	-1,156	184	967	220	1,212	316	
Toiyabe	320	56	--	--	-43	27	--	--	-128	58	-101	38	-271	74	49	67	51	106	
<b>Total</b>	<b>30,427</b>	<b>517</b>	<b>-2,139</b>	<b>375</b>	<b>-13,124</b>	<b>1,184</b>	<b>-327</b>	<b>129</b>	<b>-4,492</b>	<b>453</b>	<b>-9,479</b>	<b>508</b>	<b>-27,422</b>	<b>1,255</b>	<b>866</b>	<b>1,384</b>	<b>7,424</b>	<b>1,367</b>	
<b>Region 6</b>																			
Rogue River / Siskiyou	319	72	-2	4	-15	26	--	--	-1	2	-101	43	-116	47	200	84	305	104	
<b>Total</b>	<b>319</b>	<b>72</b>	<b>-2</b>	<b>4</b>	<b>-15</b>	<b>26</b>	<b>--</b>	<b>--</b>	<b>-1</b>	<b>2</b>	<b>-101</b>	<b>43</b>	<b>-116</b>	<b>47</b>	<b>200</b>	<b>84</b>	<b>305</b>	<b>104</b>	
<b>All National Forests</b>	<b>30,746</b>	<b>521</b>	<b>-2,141</b>	<b>375</b>	<b>-13,139</b>	<b>1,185</b>	<b>-327</b>	<b>129</b>	<b>-4,493</b>	<b>453</b>	<b>-9,580</b>	<b>509</b>	<b>-27,538</b>	<b>1,256</b>	<b>1,067</b>	<b>1,386</b>	<b>7,729</b>	<b>1,371</b>	

**Table 4.6d:** Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2008 to 2011-2018: Coastal Forest Practice District. See also Appendix 2, Table B9.4.

	USDA Forest Service						Other Public				Private				Total					
	Timberland		Reserved		Low productive, unreserved		Total		Other federal		State and local govt.		Corporate		Non Corporate		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE		
<i>thousand metric tons CO2 equivalent per year</i>																				
<b>Cut</b>																				
Mortality	--	--	--	--	--	--	--	--	--	--	--	--	-105	33	-111	42	-216	53	-216	53
Cut	--	--	--	--	--	--	--	--	--	--	--	--	-3,048	715	-510	228	-3,558	747	-3,558	747
Gross Growth	--	--	--	--	--	--	--	--	--	--	--	--	954	199	525	175	1,480	263	1,480	263
Net Live	--	--	--	--	--	--	--	--	--	--	--	--	-2,199	610	-96	203	-2,295	642	-2,295	642
Standing Dead Change	--	--	--	--	--	--	--	--	--	--	--	--	-5	56	30	30	25	64	25	64
Dead Woody Debris Change	--	--	--	--	--	--	--	--	--	--	--	--	-370	242	-44	97	-414	261	-414	261
Total Net <sup>1</sup>	--	--	--	--	--	--	--	--	--	--	--	--	-3,129	901	-131	255	-3,260	936	-3,260	936
<b>Cut and Fire</b>																				
Mortality	--	--	--	--	--	--	--	--	--	--	-17	18	-3	2	--	--	-3	2	-20	18
Cut	--	--	--	--	--	--	--	--	--	--	-105	109	-67	62	--	--	-67	62	-171	126
Gross Growth	--	--	--	--	--	--	--	--	--	--	53	55	14	13	--	--	14	13	67	57
Net Live	--	--	--	--	--	--	--	--	--	--	-69	72	-55	51	--	--	-55	51	-124	88
Standing Dead Change	--	--	--	--	--	--	--	--	--	--	-1	1	1	1	--	--	1	1		1
Dead Woody Debris Change	--	--	--	--	--	--	--	--	--	--	12	13	13	9	--	--	13	9	25	15
Total Net <sup>1</sup>	--	--	--	--	--	--	--	--	--	--	-69	72	-53	58	--	--	-53	58	-122	92
<b>Fire</b>																				
Mortality	-277	122	-259	134	--	--	-535	181	--	--	-73	77	-70	52	-46	33	-116	61	-725	206
Cut	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1	1	-1	1	-1	1
Gross Growth	114	46	121	54	--	--	235	71	--	--	26	27	66	41	67	38	133	56	393	95
Net Live	-162	91	-138	91	--	--	-301	129	--	--	-48	50	-4	36	20	38	16	52	-332	148
Standing Dead Change	52	43	15	46	--	--	67	63	--	--	9	10	25	25	14	8	39	27	115	69
Dead Woody Debris Change	53	43	62	55	--	--	115	70	--	--	-24	25	-49	32	32	29	-17	43	74	86
Total Net <sup>1</sup>	-112	57	-95	105	--	--	-207	119	--	--	-71	74	-21	46	76	44	55	64	-223	154

**Table 4.6d:** Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2008 to 2011-2018: Coastal Forest Practice District. See also Appendix 2, Table B9.4. (CONTINUED)

	USDA Forest Service								Other Public				Private				Total			
	Timberland		Reserved		Low productive, unreserved		Total		Other federal		State and local govt.		Corporate		Non Corporate		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE		
<i>thousand metric tons CO2 equivalent per year</i>																				
<b>Insect and Disease</b>																				
Mortality	-22	21	-15	7	--	--	-37	22	-30	39	-119	73	-100	43	-187	75	-288	86	-474	121
Cut	--	--	--	--	--	--	--	--	--	--	--	--	-14	13	-13	11	-26	17	-26	17
Gross Growth	65	39	55	27	--	--	120	47	4	5	82	51	235	107	403	153	638	187	844	199
Net Live	43	25	40	22	--	--	83	34	-26	34	-38	29	121	65	203	122	324	138	343	148
Standing Dead Change	-1	2	-7	6	--	--	-8	6	5	6	-74	91	3	20	29	25	31	32	-45	97
Dead Woody Debris Change	-9	6	-15	20	--	--	-24	21	15	19	60	72	1	9	19	34	20	36	71	84
Total Net <sup>1</sup>	36	25	28	17	--	--	64	30	-8	10	-65	121	166	95	297	131	463	162	454	205
<b>Other cut and weather</b>																				
Mortality	-67	40	-14	11	--	--	-81	42	--	--	--	--	-87	60	-46	28	-132	66	-213	78
Cut	--	--	--	--	--	--	--	--	--	--	--	--	-125	74	-45	26	-170	78	-170	78
Gross Growth	150	73	22	16	--	--	172	75	--	--	--	--	285	118	236	101	521	154	693	171
Net Live	83	54	8	6	--	--	91	55	--	--	--	--	73	91	146	68	219	114	310	126
Standing Dead Change	21	17	6	5	--	--	27	18	--	--	--	--	14	8	6	4	20	9	48	20
Dead Woody Debris Change	16	16	3	3	--	--	18	16	--	--	--	--	-36	45	44	43	8	62	26	65
Total Net <sup>1</sup>	145	74	18	14	--	--	163	75	--	--	--	--	76	130	234	107	310	168	473	184
<b>Less than 25% disturbed</b>																				
Mortality	-433	113	-247	80	--	--	-681	138	-255	97	-550	222	-784	112	-847	117	-1,631	159	-3,117	320
Cut	--	--	--	--	--	--	--	--	--	--	-3	3	-255	90	-63	40	-319	98	-321	98
Gross Growth	1,222	209	870	182	--	--	2,092	275	923	220	1,874	323	5,991	568	4,596	451	10,587	689	15,476	833
Net Live	789	175	622	154	--	--	1,411	232	667	166	1,321	230	4,952	500	3,687	393	8,638	607	12,038	705
Standing Dead Change	8	63	37	38	--	--	45	74	-73	58	29	36	215	116	93	59	308	130	309	164
Dead Woody Debris Change	-80	58	-71	59	--	--	-151	83	-77	136	-47	67	-472	241	-242	147	-714	282	-988	331
Total Net <sup>1</sup>	908	206	708	191	--	--	1,616	279	633	228	1,612	283	6,004	665	4,399	487	10,403	793	14,263	912
<b>Total</b>																				
Mortality	-800	171	-535	156	--	--	-1,335	230	-285	106	-760	241	-1,149	145	-1,237	150	-2,386	204	-4,765	403
Cut	--	--	--	--	--	--	--	--	--	--	-107	110	-3,509	736	-631	232	-4,140	767	-4,248	775
Gross Growth	1,552	227	1,067	192	--	--	2,619	294	926	220	2,034	321	7,545	610	5,828	508	13,372	742	18,952	881
Net Live	752	207	532	182	--	--	1,285	274	641	168	1,167	262	2,887	806	3,959	463	6,847	920	9,940	1,007
Standing Dead Change	80	78	51	61	--	--	132	99	-68	59	-36	99	254	133	171	71	425	150	452	214
Dead Woody Debris Change	-21	75	-21	86	--	--	-42	114	-62	137	2	102	-913	344	-192	187	-1,105	392	-1,206	442
Total Net <sup>1</sup>	976	227	660	219	--	--	1,636	314	625	228	1,407	348	3,043	1,137	4,874	573	7,917	1,268	11,585	1,368

<sup>1</sup> Total Net value includes change from roots and understorey vegetation which are not enumerated in this table. Excludes change from SOC and forest floor (litter).

**Table 4.6e:** Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2008 to 2011-2018: Northern Forest Practice District. See also Appendix 2, Table B9.5.

	USDA Forest Service								Other Public				Private				Total			
	Timberland		Reserved		Low productive, unreserved		Total		Other federal		State and local govt.		Corporate		Non Corporate		Total		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons CO2 equivalent per year</i>																				
<b>Cut</b>																				
Mortality	-85	39	--	--	--	--	-85	39	--	--	--	--	-210	53	-18	9	-229	53	-314	66
Cut	-786	188	--	--	--	--	-786	188	-5	5	--	--	-4,106	591	-260	95	-4,366	597	-5,156	626
Gross Growth	704	138	--	--	--	--	704	138	11	12	--	--	1,979	236	239	84	2,218	248	2,933	284
Net Live	-167	124	--	--	--	--	-167	124	6	7	--	--	-2,337	513	-39	64	-2,376	517	-2,537	532
Standing Dead Change	-69	34	--	--	--	--	-69	34	--	--	--	--	-75	43	-18	15	-93	45	-162	56
Dead Woody Debris Change	-10	48	--	--	--	--	-10	48	3	4	--	--	-161	113	-4	23	-165	115	-172	125
Total Net <sup>1</sup>	-277	195	--	--	--	--	-277	195	11	12	--	--	-3,074	674	-83	84	-3,158	679	-3,423	707
<b>Cut and Fire</b>																				
Mortality	-104	48	--	--	--	--	-104	48	--	--	--	--	-314	112	-30	30	-344	116	-448	125
Cut	-344	201	--	--	--	--	-344	201	--	--	--	--	-862	352	--	--	-862	352	-1,206	405
Gross Growth	111	45	--	--	--	--	111	45	--	--	--	--	127	45	5	5	132	45	244	64
Net Live	-336	197	--	--	--	--	-336	197	--	--	--	--	-1,049	376	-25	25	-1,074	377	-1,410	425
Standing Dead Change	32	42	--	--	--	--	32	42	--	--	--	--	67	56	-7	7	60	56	92	70
Dead Woody Debris Change	-40	31	--	--	--	--	-40	31	--	--	--	--	75	95	-7	7	67	95	27	100
Total Net <sup>1</sup>	-414	248	--	--	--	--	-414	248	--	--	--	--	-1,128	402	-44	44	-1,172	404	-1,586	474
<b>Fire</b>																				
Mortality	-4,435	705	-2,824	670	-221	97	-7,481	977	-166	94	-76	65	-205	77	-165	74	-369	106	-8,092	990
Cut	-13	13	--	--	-2	1	-15	13	--	--	--	--	-13	11	-22	18	-34	21	-49	25
Gross Growth	1,461	190	717	134	69	25	2,248	234	155	58	8	7	115	44	112	51	227	67	2,638	250
Net Live	-2,987	622	-2,107	604	-153	87	-5,248	870	-12	68	-68	58	-102	70	-74	42	-176	81	-5,503	879
Standing Dead Change	1,790	457	1,197	408	31	41	3,019	613	38	29	18	16	-12	54	8	42	-4	69	3,072	618
Dead Woody Debris Change	-242	158	-30	104	13	26	-259	191	19	24	21	18	-59	34	56	57	-3	66	-221	205
Total Net <sup>1</sup>	-1,740	430	-1,185	388	-142	85	-3,066	585	48	61	-38	33	-188	120	-26	65	-215	137	-3,271	604



**Table 4.6e:** Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2008 to 2011-2018: Northern Forest Practice District. See also Appendix 2, Table B9.5. (CONTINUED)

	USDA Forest Service								Other Public				Private				Total			
	Timberland		Reserved		Low productive, unreserved		Total		Other federal		State and local govt.		Corporate		Non Corporate		Total		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons CO2 equivalent per year</i>																				
<b>Insect and Disease</b>																				
Mortality	-1,600	207	-208	76	-9	9	-1,817	220	-91	39	-5	7	-238	66	-89	26	-328	71	-2,241	234
Cut	-51	27	--	--	--	--	-51	27	--	--	--	--	-28	13	--	--	-28	13	-78	30
Gross Growth	2,552	258	259	85	18	13	2,829	272	93	44	13	16	742	148	228	59	970	158	3,904	317
Net Live	901	189	52	54	9	14	962	197	1	37	7	9	476	118	138	45	615	126	1,585	237
Standing Dead Change	-121	135	34	48	-1	7	-88	143	34	16	3	4	-7	26	-10	39	-17	47	-68	151
Dead Woody Debris Change	266	141	18	44	-25	25	258	150	-9	23			-103	54	-23	26	-126	60	123	163
Total Net <sup>1</sup>	1,259	253	128	64	-14	23	1,373	262	44	44	13	17	464	124	144	72	608	143	2,037	302
<b>Other cut and weather</b>																				
Mortality	-200	73	-22	11	--	--	-222	74				1	-121	53	-2	1	-123	53	-345	91
Cut	-79	47	-10	9	--	--	-90	48	--	--	-2	3	-113	42	-51	45	-164	61	-257	78
Gross Growth	503	119	39	20	1	2	542	121	41	40	30	34	421	122	116	47	537	130	1,150	185
Net Live	224	91	6	23	1	2	231	94	41	40	27	31	187	95	63	50	250	107	548	151
Standing Dead Change	-34	51	-49	46			-83	69	4	4	-11	12	22	16	-8	6	15	17	-75	72
Dead Woody Debris Change	30	105	27	26	-3	3	54	108	-5	5			-179	120	2	24	-177	123	-129	163
Total Net <sup>1</sup>	261	124	-23	51	-3	5	236	133	52	51	19	22	69	115	70	72	138	136	445	198
<b>Less than 25% disturbed</b>																				
Mortality	-2,984	260	-764	138	-107	33	-3,856	294	-276	118	-94	31	-840	115	-830	107	-1,670	156	-5,896	355
Cut	-26	13	--	--	-1	1	-27	13			-1	1	-129	40	-30	18	-159	43	-187	46
Gross Growth	8,615	434	1,309	175	451	84	10,375	465	564	113	323	87	4,632	356	2,865	260	7,497	425	18,760	643
Net Live	5,605	378	545	135	343	69	6,492	403	288	126	229	76	3,663	314	2,005	222	5,668	374	12,677	566
Standing Dead Change	22	173	-215	158	-50	24	-243	236	83	45	26	14	131	91	18	95	149	132	14	275
Dead Woody Debris Change	-124	275	106	84	-55	67	-73	295	85	42	-31	17	-124	140	-4	110	-128	178	-147	347
Total Net <sup>1</sup>	6,813	510	529	242	275	89	7,617	564	559	131	280	88	4,553	407	2,469	317	7,023	504	15,479	770
<b>Total</b>																				
Mortality	-9,408	755	-3,819	672	-337	103	-13,565	1,013	-534	156	-175	72	-1,928	199	-1,134	144	-3,063	242	-17,337	1,054
Cut	-1,298	280	-10	9	-3	2	-1,312	280	-5	5	-3	3	-5,250	687	-363	109	-5,613	694	-6,933	748
Gross Growth	13,946	495	2,325	208	540	89	16,810	530	863	137	374	95	8,017	441	3,565	285	11,582	493	29,629	733
Net Live	3,239	809	-1,505	629	199	112	1,934	1,030	324	154	195	101	838	732	2,068	248	2,906	773	5,359	1,300
Standing Dead Change	1,620	511	968	442	-20	48	2,567	678	159	56	37	25	126	131	-17	113	109	173	2,873	702
Dead Woody Debris Change	-120	367	120	141	-70	77	-69	400	94	54	-10	25	-552	245	19	131	-533	278	-518	491
Total Net <sup>1</sup>	5,903	798	-551	470	117	126	5,468	931	714	159	274	98	696	911	2,529	357	3,225	979	9,682	1,363

<sup>1</sup> Total Net value includes change from roots and understorey vegetation which are not enumerated in this table. Excludes change from SOC and forest floor (litter).

**Table 4.6f:** Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2008 to 2011-2018: Southern Forest Practice District. See also Appendix 2, Table B9.6

	USDA Forest Service						Other Public				Private				Total					
	Timberland		Reserved		Low productive, unreserved		Total		Other federal		State and local govt.		Corporate				Non Corporate			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE				
<i>thousand metric tons CO2 equivalent per year</i>																				
<b>Cut</b>																				
Mortality	-53	44	-6	6	--	--	-59	45	--	--	-3	3	-36	21	-74	48	-110	52	-172	69
Cut	-65	30	-3	3	--	--	-68	30	--	--	--	--	-604	215	-43	21	-647	216	-716	218
Gross Growth	219	73	14	15	--	--	233	74	--	--	3	2	341	106	122	77	463	130	699	152
Net Live	101	56	5	6	--	--	106	56	--	--	-1	1	-299	168	5	28	-294	171	-188	180
Standing Dead Change	-54	52	--	--	--	--	-54	52	--	--	3	2	-12	13	50	42	38	44	-13	68
Dead Woody Debris Change	-55	42	-1	1	--	--	-57	42	--	--	-8	7	8	40	69	65	77	76	12	88
Total Net <sup>1</sup>		96	5	5	--	--	4	96	--	--	-6	5	-368	194	140	92	-228	215	-229	235
<b>Cut and Fire</b>																				
Mortality	-159	106	--	--	--	--	-159	106	--	--	--	--	-85	80	--	--	-85	80	-244	133
Cut	-98	47	--	--	--	--	-98	47	--	--	--	--	-18	16	--	--	-18	16	-116	49
Gross Growth	91	46	--	--	--	--	91	46	--	--	--	--	42	33	--	--	42	33	133	57
Net Live	-166	97	--	--	--	--	-166	97	--	--	--	--	-61	77	--	--	-61	77	-227	124
Standing Dead Change	8	33	--	--	--	--	8	33	--	--	--	--	7	6	--	--	7	6	15	33
Dead Woody Debris Change	-7	19	--	--	--	--	-7	19	--	--	--	--	1		--	--	1		-6	19
Total Net <sup>1</sup>	-194	106	--	--	--	--	-194	106	--	--	--	--	-64	88	--	--	-64	88	-258	138
<b>Fire</b>																				
Mortality	-1,056	302	-1,761	432	-428	138	-3,245	543	-978	403	-114	69	-4	3	-274	104	-278	104	-4,615	687
Cut	-11	12	--	--	--	--	-11	12	--	--	--	--	--	--	-14	13	-14	13	-25	18
Gross Growth	233	67	288	70	67	29	588	101	269	85	8	6	3	2	62	24	64	24	930	135
Net Live	-834	262	-1,473	383	-361	125	-2,668	478	-709	362	-106	69	-1	1	-226	89	-227	89	-3,710	610
Standing Dead Change	526	235	609	201	73	89	1,208	321	24	335	29	26	--	--	76	40	76	40	1,338	466
Dead Woody Debris Change	-115	66	-20	86	-25	35	-160	114	-77	83	39	28	1	1	24	36	25	36	-173	148
Total Net <sup>1</sup>	-506	173	-1,069	312	-390	138	-1,966	382	-928	382	-55	55	-1	1	-165	65	-166	65	-3,115	547

**Table 4.6f:** Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2008 to 2011-2018: Southern Forest Practice District. See also Appendix 2, Table B9.6 (CONTINUED)

	USDA Forest Service						Other Public				Private				Total					
	Timberland		Reserved		Low productive, unreserved		Total		Other federal		State and local govt.		Corporate				Non Corporate			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE				
<i>thousand metric tons CO2 equivalent per year</i>																				
<b>Insect and Disease</b>																				
Mortality	-946	217	-521	172	-125	63	-1,592	284	-884	412	-51	34	-5	4	-125	83	-130	83	-2,657	509
Cut	-14	14	--	--	--	--	-14	14	--	--	--	--	--	--	-16	16	-16	16	-30	21
Gross Growth	1,118	183	313	83	50	19	1,481	201	347	94	178	94	48	30	147	68	195	74	2,201	252
Net Live	158	190	-208	138	-75	47	-125	240	-537	362	127	66	44	30	6	74	49	80	-486	446
Standing Dead Change	148	157	40	81	46	45	235	182	490	320	-21	32	-25	22	52	82	27	85	731	379
Dead Woody Debris Change	9	149	289	169	31	17	330	226	128	85	-20	25	24	22	-16	19	8	29	445	244
Total Net <sup>1</sup>	387	213	99	165	-8	33	478	272	52	105	114	82	45	28	53	51	98	58	743	308
<b>Other cut and weather</b>																				
Mortality	-449	155	-258	116	-96	41	-802	198	-129	78	-5	5	-7	5	-392	128	-398	128	-1,335	249
Cut	-18	17	-2	2	--	--	-20	17	--	--	--	--	--	--	-51	29	-51	29	-71	34
Gross Growth	278	81	209	69	65	30	552	110	82	36	3	2	9	7	287	78	297	78	934	140
Net Live	-189	100	-50	84	-31	21	-270	132	-47	44	-2	4	3	7	-156	122	-153	123	-472	186
Standing Dead Change	296	125	121	114	55	32	472	172	38	28	4	3	-1	1	242	107	241	107	755	204
Dead Woody Debris Change	-53	32	34	44	20	28	61		24		36	30	-10	12	131	83	120	84	156	111
Total Net <sup>1</sup>	55	50	111	77	47	32	214	98	-15	41	39	31	-9	10	234	93	225	94	462	145
<b>Less than 25% disturbed</b>																				
Mortality	-1,434	266	-827	145	-179	45	-2,440	306	-330	71	-99	30	-102	33	-752	106	-854	110	-3,723	334
Cut	-3	2			--	--	-3	2	--	--	--	--	-72	46	-88	43	-160	63	-163	63
Gross Growth	2,811	288	1,622	180	339	72	4,772	343	952	130	284	80	807	178	1,630	159	2,438	237	8,445	442
Net Live	1,374	280	794	173	160	74	2,328	336	622	125	185	76	633	164	790	140	1,424	214	4,559	424
Standing Dead Change	286	184	-159	117	-26	37	101	221	-271	109	-57	42	50	23	195	59	246	63	19	258
Dead Woody Debris Change	-53	130	-34	189	17	45	-70	234	173	158	91	45	-93	36	-54	90	-147	97	47	302
Total Net <sup>1</sup>	2,037	318	761	208	181	90	2,980	388	611	225	231	91	742	189	1,112	183	1,854	261	5,675	527
<b>Total</b>																				
Mortality	-4,098	486	-3,373	490	-828	163	-8,298	703	-2,321	570	-272	82	-238	89	-1,617	216	-1,856	233	-12,746	937
Cut	-209	61	-5	4	--	--	-215	61	--	--	--	--	-695	229	-212	59	-907	236	-1,121	244
Gross Growth	4,751	354	2,446	211	520	84	7,718	410	1,649	170	476	120	1,251	213	2,249	203	3,500	291	13,342	542
Net Live	444	458	-932	453	-307	154	-794	662	-672	529	204	121	318	249	420	221	737	334	-525	920
Standing Dead Change	1,209	363	612	272	149	111	1,970	466	281	474	-42	59	19	35	616	157	635	160	2,845	687
Dead Woody Debris Change	-273	218	267	274	43	66	37	356	222	199	138	67	-71	61	155	144	84	157	481	442
Total Net <sup>1</sup>	1,780	450	-93	417	-169	172	1,517	636	-280	462	322	136	344	284	1,374	239	1,719	371	3,277	880

<sup>1</sup> Total Net value includes change from roots and understory vegetation which are not enumerated in this table. Excludes change from SOC and forest floor (litter).

**Table 4.7** - Annual Net Emissions of Non-CO2 Greenhouse Gases from Fire, 2001-2008 to 2011-2018: All California. CO2 values are from table 4.6 and were used to calculate the other gases. See also Appendix 2, Table F1.

	Public						Private						Total	
	National Forest		Other Federal		State and local govt.		Corporate		Non Corporate		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons CO2 equivalent per year</i>														
<b>Cut and Fire</b>														
CO2	-798	305	--	--	-69	72	-1,600	499	-44	44	-1,643	501	-2,510	591
CH4	-26	10	--	--	-2	2	-51	16	-1	1	-53	16	-80	19
N2O	-17	6	--	--	-1	2	-34	11	-1	1	-35	11	-53	12
<b>Fire</b>														
CO2	-6,527	817	-1,153	429	-174	98	-227	129	-87	107	-314	168	-8,169	942
CH4	-209	26	-37	14	-6	3	-7	4	-3	3	-10	5	-262	30
N2O	-138	17	-24	9	-4	2	-5	3	-2	2	-7	4	-172	20
<b>Total Fire</b>														
CO2	-7,325	869	-1,153	429	-243	120	-1,827	512	-131	132	-1,957	529	-10,679	1,119
CH4	-235	28	-37	14	-8	4	-58	16	-4	4	-63	17	-342	36
N2O	-155	18	-24	9	-5	3	-39	11	-3	3	-41	11	-225	24

**Table 4.8:** Annual change in forest land area to/from other IPCC land-use classes in California, 2001-8 to 2011-18. See also Appendix table E1.

	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Reserved		All forest land	
	Total	SE	Total	SE	Total	SE	Total	SE
<i>Acres per year</i>								
<b>Forest to nonforest:</b>								
Cropland	936	740	3,071	1,347	--	--	4,007	1,536
Developed	7,589	1,872	5,257	1,352	455	272	13,301	2,324
Grassland	1,358	959	5,590	2,008	640	633	7,587	2,312
Other	20	21			8	7	28	22
Water	758	521	90	68	111	107	959	536
Total	10,661	2,293	14,007	2,777	1,214	697	25,882	3,665
<b>Nonforest to forest:</b>								
Cropland	206	111	--	--	--	--	206	111
Developed	4,140	941	868	302	41	31	5,048	989
Grassland	3,812	1,318	2,743	1,205	169	105	6,724	1,788
Other			124	128	--	--	124	128
Water	16	17	231	201	--	--	247	202
Total	8,174	1,623	3,966	1,264	210	110	12,349	2,055
<b>Net change to forest land:</b>								
Cropland	-730	747	-3,071	1,347	--	--	-3,801	1,540
Developed	-3,449	2,096	-4,389	1,374	-414	274	-8,253	2,524
Grassland	2,455	1,635	-2,847	2,341	-471	641	-863	2,926
Other	-20	21	124	128	-8	7	96	130
Water	-742	521	142	212	-111	107	-712	573
Total	-2,487	2,819	-10,042	3,048	-1,004	706	-13,533	4,211

Note: Totals may be off because of rounding

<sup>1</sup> Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup> Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table 4.9:** Annual change in carbon pools due to change in land use between forest and nonforest in California, 2001-8 to 2011-18. See also Appendix table E2.

<b>Carbon pool</b>	<b>Forest to nonforest</b>		<b>Nonforest to forest</b>		<b>Net change</b>	
	<b>Total</b>	<b>SE</b>	<b>Total</b>	<b>SE</b>	<b>Total</b>	<b>SE</b>
	<i>Thousand metric tons CO2 equivalent per year</i>					
Live tree	-1,890	309	1,001	194	-889	365
Standing dead	-205	112	29	8	-176	113
Down wood	-215	49	93	31	-123	58
Understory veg	-272	39	149	25	-123	47
Litter	-321	51	157	23	-164	56
Soil*	-4,347	573	1,980	314	-2,368	654
<b>All pools</b>	<b>-2,903</b>	<b>416</b>	<b>1,429</b>	<b>234</b>	<b>-1,474</b>	<b>478</b>

\* No changes in landuse involved cultivated land so soil organic carbon change was assumed to be zero (Ogle et al. 2003)

**Table 4.10:** Area of forest land remaining forest land by ownership group and region in California, 2009-2018. Table derived from Appendix 2, Tables A10-A16.

	Public		Private		All Ownerships	
	Total	SE	Total	SE	Total	SE
<i>Thousand acres</i>						
<b>Central Coast and Interior Ranges:</b>						
Unreserved forest land	252	37	1,067	74	1,318	82
Reserved forest land	477	48	--	--	477	48
Total forest land	729	60	1,067	74	1,796	95
<b>Central Valley:</b>						
Unreserved forest land	4	3	78	20	83	20
Reserved forest land	6	5	--	--	6	5
Total forest land	10	6	78	20	89	21
<b>Eastside:</b>						
Unreserved forest land	1,965	100	540	57	2,505	115
Reserved forest land	298	43	--	--	298	43
Total forest land	2,263	108	540	57	2,803	122
<b>Klamath Interior Coast Ranges:</b>						
Unreserved forest land	3,244	120	2,929	121	6,173	170
Reserved forest land	1,782	87	--	--	1,782	87
Total forest land	5,026	143	2,929	121	7,955	187
<b>North Coast:</b>						
Unreserved forest land	159	30	2,210	101	2,369	105
Reserved forest land	327	42	--	--	327	42
Total forest land	486	49	2,210	101	2,696	111
<b>Sierra Cascades:</b>						
Unreserved forest land	6,672	149	5,169	146	11,842	206
Reserved forest land	3,229	116	--	--	3,229	116
Total forest land	9,902	177	5,169	146	15,071	225
<b>South Coast Mountains and Deserts:</b>						
Unreserved forest land	539	54	279	39	818	66
Reserved forest land	443	51	--	--	443	51
Total forest land	982	74	279	39	1,260	84
<b>All California:</b>						
Unreserved forest land	12,836	149	12,272	153	25,107	203
Reserved forest land	6,563	136	--	--	6,563	136
Total forest land	19,398	159	12,272	153	31,670	201

**Table 4.11: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: All California.** See also Appendix 2, Table A17.

Forest type group	USDA Forest Service		Other federal		State and local government		Private corporate		Private non-corporate		All owners											
	Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		All owners									
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE								
	<i>thousand acres</i>																					
<b>Softwoods:</b>																						
California mixed conifer	4,111	120	1,056	70	52	17	396	45	30	13	49	17	1,761	92	--	--	442	50	3	3	7,899	173
Douglas-fir	173	31	161	31	19	11	50	18	29	13	29	14	331	43	--	--	334	43	--	--	1,126	78
Fir / spruce / mountain hemlock	1,117	76	429	49	--	--	200	34	11	8	11	8	192	33	--	--	61	20	--	--	2,020	104
Western Hemlock / Sitka spruce	--	--	--	--	--	--	1	1	1	1	1	1	22	12	--	--	3	2	--	--	28	12
Lodgepole pine	221	35	487	50	--	--	230	35	9	8	6	6	24	12	--	--	29	13	--	--	1,005	74
Pinyon / juniper	11	8	713	60	--	--	540	55	--	--	73	21	--	--	41	16	--	--	122	26	1,499	89
Ponderosa pine	1,257	76	219	35	29	13	46	16	4	4	18	10	535	54	4	3	253	37	2	2	2,367	108
Redwood	3	3	16	10	--	--	31	14	44	15	65	19	428	49	--	--	191	33	--	--	778	65
Western juniper	127	27	615	57	22	11	320	42	--	--	17	11	11	7	66	20	23	11	264	39	1,465	90
Western white pine	30	13	117	27	--	--	13	9	--	--	--	--	--	--	--	--	--	--	--	--	160	31
Other western softwoods	37	14	327	42	3	2	151	29	--	--	17	11	16	10	--	--	15	10	6	6	572	57
<b>Total</b>	<b>7,087</b>	<b>129</b>	<b>4,140</b>	<b>117</b>	<b>124</b>	<b>27</b>	<b>1,976</b>	<b>89</b>	<b>128</b>	<b>26</b>	<b>286</b>	<b>39</b>	<b>3,319</b>	<b>114</b>	<b>111</b>	<b>26</b>	<b>1,351</b>	<b>83</b>	<b>397</b>	<b>47</b>	<b>18,919</b>	<b>219</b>
<b>Hardwoods:</b>																						
Alder / maple	34	13	15	8	12	7	28	13	--	--	7	6	90	22	1	1	26	12	12	6	226	34
Aspen / birch	8	6	54	17	--	--	9	7	--	--	1	1	4	4	--	--	--	--	--	--	77	20
Elm / ash / cottonwood	--	--	5	5	--	--	1	1	--	--	8	6	--	--	3	2	--	--	17	8	34	11
Tanoak / laurel	185	32	230	37	13	7	57	19	10	8	150	30	510	54	24	11	546	56	90	22	1,816	98
Western oak	891	69	1,588	90	95	24	531	53	13	9	435	44	334	44	742	63	627	60	3,496	121	8,753	192
Woodland hardwoods	14	9	48	16	--	--	55	17	--	--	9	7	--	--	6	6	--	--	29	12	160	29
Exotic hardwoods	--	--	--	--	2	2	--	--	--	--	--	--	--	--	--	--	--	--	2	2	5	3
Other hardwoods	131	27	78	21	11	7	16	10	4	4	36	15	70	19	3	3	90	23	103	24	543	55
<b>Total</b>	<b>1,263</b>	<b>81</b>	<b>2,018</b>	<b>100</b>	<b>133</b>	<b>28</b>	<b>696</b>	<b>60</b>	<b>28</b>	<b>12</b>	<b>646</b>	<b>54</b>	<b>1,008</b>	<b>73</b>	<b>780</b>	<b>65</b>	<b>1,290</b>	<b>83</b>	<b>3,751</b>	<b>123</b>	<b>11,614</b>	<b>212</b>
<b>Nonstocked</b>	<b>437</b>	<b>48</b>	<b>293</b>	<b>41</b>	<b>15</b>	<b>9</b>	<b>112</b>	<b>26</b>	<b>--</b>	<b>--</b>	<b>15</b>	<b>9</b>	<b>207</b>	<b>32</b>			<b>28</b>	<b>12</b>	<b>29</b>	<b>12</b>	<b>1,138</b>	<b>78</b>
<b>All forest types</b>	<b>8,787</b>	<b>121</b>	<b>6,451</b>	<b>132</b>	<b>273</b>	<b>40</b>	<b>2,785</b>	<b>95</b>	<b>156</b>	<b>29</b>	<b>946</b>	<b>61</b>	<b>4,534</b>	<b>122</b>	<b>891</b>	<b>69</b>	<b>2,669</b>	<b>111</b>	<b>4,178</b>	<b>130</b>	<b>31,670</b>	<b>201</b>

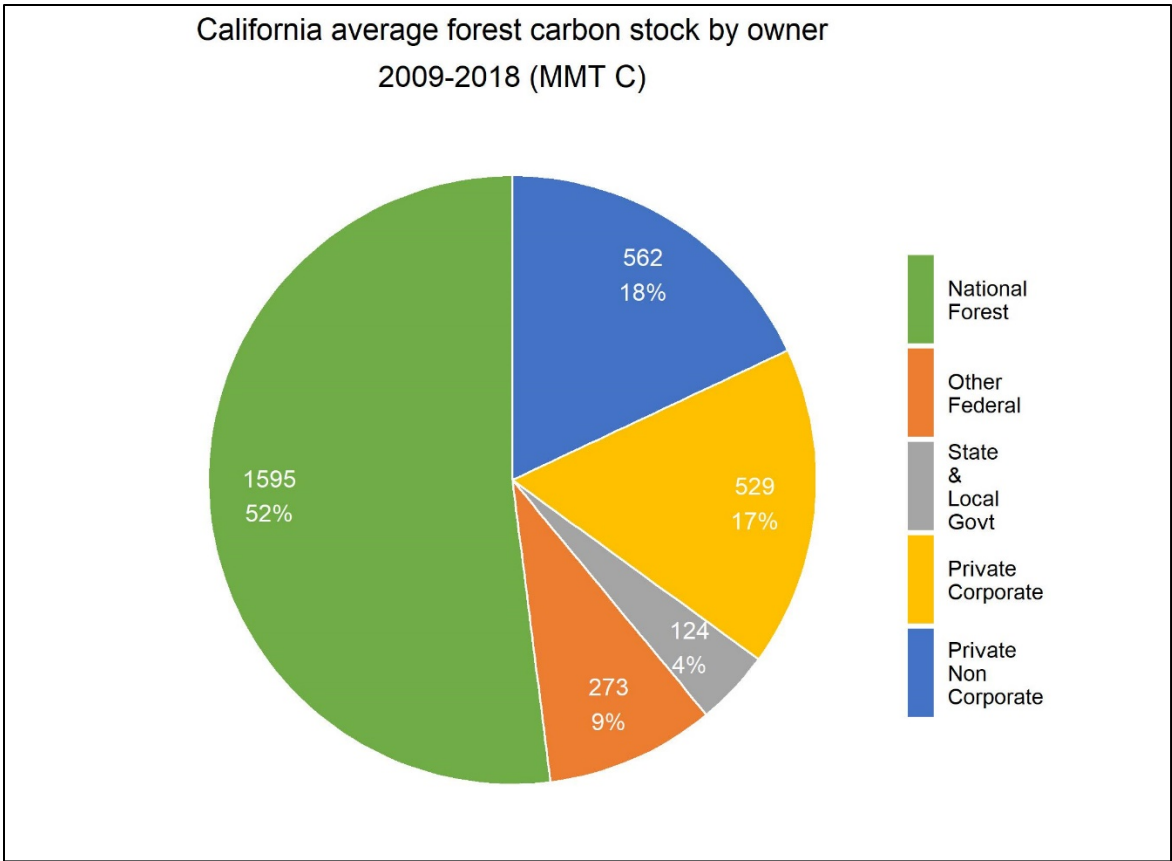
Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment and not in reserved status.

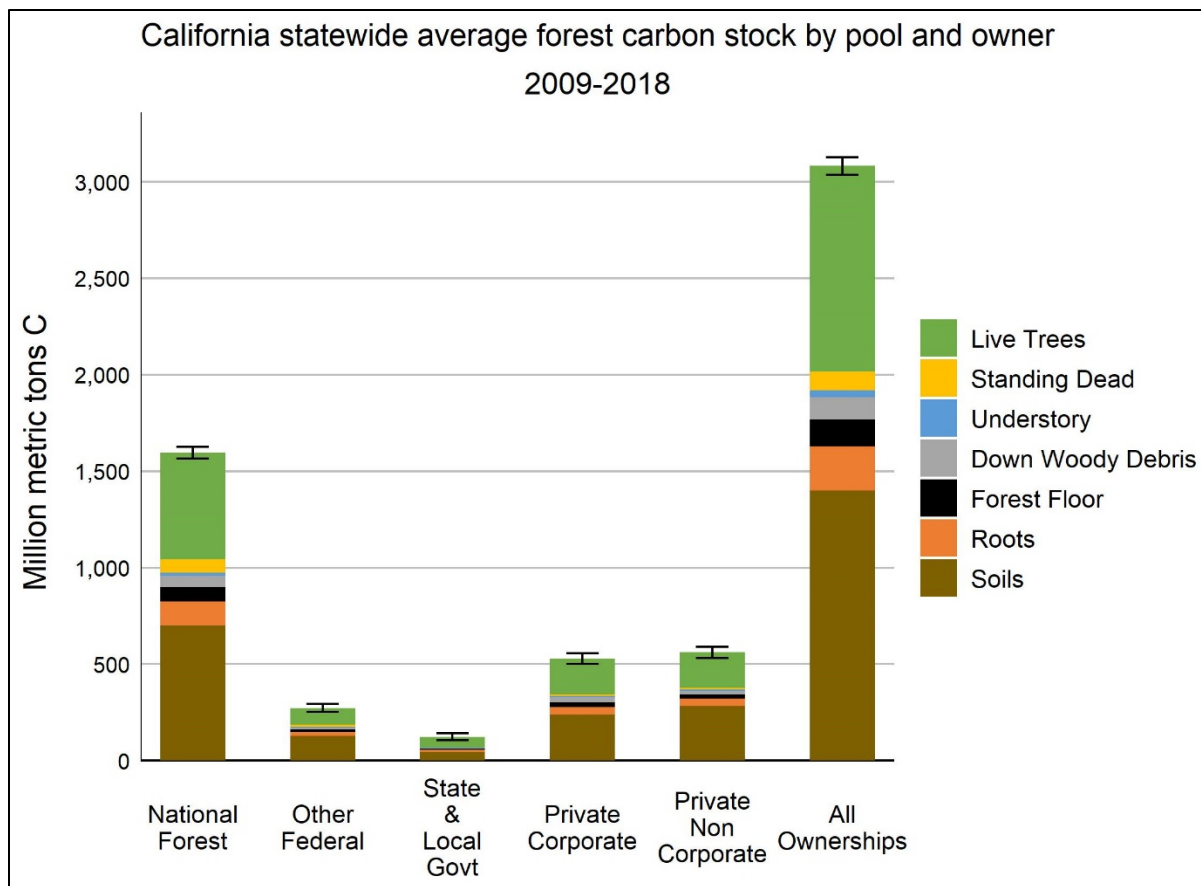
<sup>2</sup>Combination of productive reserved forest land (capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment) and low-productive forest land (not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment).



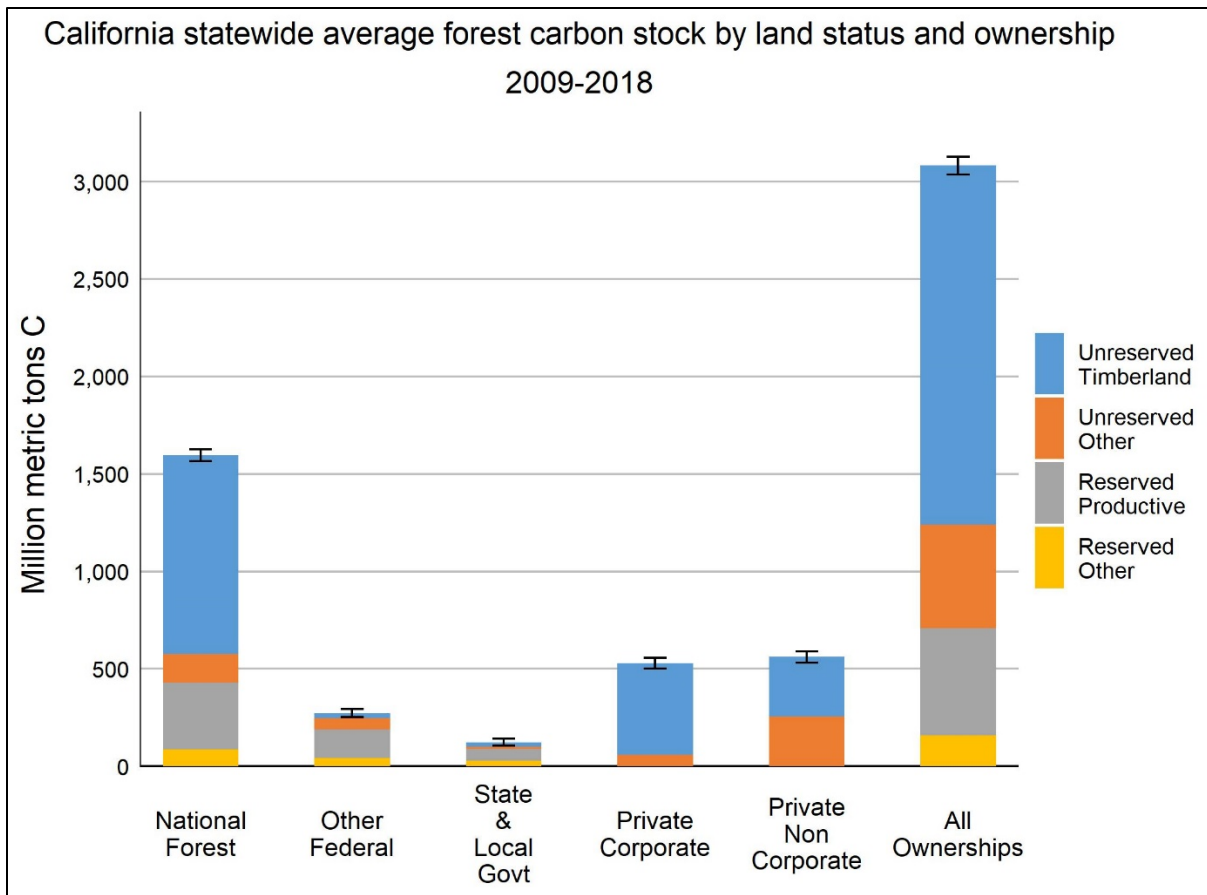




**Figure 4.8.** California statewide average forest carbon stock by owner, 2009-2018 (MMT C). Figure derived from Table 4.12.



**Figure 4.9.** California statewide average forest carbon stock by pool and ownership, 2009-2018 (MMT C). Error bars represent 95% interval of estimated total stock for each ownership. Figure derived from table 4.12.



**Figure 4.10.** California statewide average forest carbon stock by land status and ownership, 2009-2018 (MMT C). Error bars represent 95% confidence interval of estimated total stock for each ownership.

Table 4.12b. Forest land carbon stock by county, 2009-2018: COUNTY

County	Live trees				Dead trees				Understory vegetation				Down wood		Forest Floor		Soil		Total C	
	Aboveground		Belowground		Aboveground		Belowground		Aboveground		Belowground		Total	SE	Total	SE	Total	SE	Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE								
	<i>Million metric tons C<sup>1</sup></i>																			
Alameda	2.83	0.67	0.52	0.12	0.07	0.03	0.02	0.01	0.18	0.04	0.02	0.00	0.27	0.10	0.30	0.07	4.87	1.07	9.08	2.01
Alpine	11.28	1.85	1.98	0.32	1.13	0.21	0.25	0.05	0.36	0.05	0.04	0.01	1.25	0.26	2.06	0.27	18.25	2.33	36.60	4.97
Amador	5.62	1.30	1.08	0.24	0.65	0.26	0.14	0.05	0.27	0.05	0.03	0.01	0.58	0.14	0.83	0.16	9.87	1.64	19.06	3.48
Butte	23.16	3.14	4.45	0.60	1.11	0.22	0.27	0.05	0.64	0.07	0.07	0.01	2.03	0.29	2.28	0.26	24.85	2.62	58.86	6.76
Calaveras	14.55	2.21	2.74	0.41	1.12	0.40	0.23	0.06	0.61	0.07	0.07	0.01	1.31	0.21	2.00	0.27	22.85	2.49	45.48	5.49
Colusa	2.32	0.67	0.46	0.13	0.45	0.22	0.11	0.05	0.32	0.05	0.04	0.01	0.38	0.11	0.42	0.08	9.23	1.58	13.73	2.49
Contra Costa	1.44	0.47	0.26	0.08	0.00	0.00	0.00	0.00	0.09	0.02	0.01	0.00	0.06	0.03	0.16	0.05	2.76	0.79	4.79	1.38
Del Norte	39.33	6.92	7.65	1.30	2.49	0.43	0.65	0.11	0.83	0.08	0.09	0.01	2.74	0.40	2.43	0.23	33.03	3.16	89.24	11.16
El Dorado	38.33	4.04	7.25	0.76	3.49	0.54	0.78	0.12	0.75	0.07	0.08	0.01	3.87	0.49	5.26	0.47	39.71	3.32	99.52	8.92
Fresno	36.88	3.84	6.91	0.70	4.85	0.69	1.10	0.15	1.22	0.10	0.14	0.01	3.47	0.49	5.61	0.44	50.30	3.54	110.48	8.75
Glenn	5.85	1.38	1.16	0.27	0.51	0.21	0.11	0.04	0.24	0.04	0.03	0.00	0.51	0.13	0.81	0.16	8.91	1.54	18.12	3.44
Humboldt	114.64	8.67	22.40	1.66	6.80	0.82	1.85	0.22	2.07	0.12	0.23	0.01	13.37	1.17	6.61	0.39	77.70	4.49	245.69	15.88
Imperial	0.04	0.05	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.18	0.13	0.26	0.20
Inyo	3.01	0.45	0.65	0.10	0.27	0.07	0.07	0.02	0.75	0.08	0.08	0.01	0.76	0.15	1.29	0.16	18.47	2.01	25.35	2.82
Kern	9.39	1.27	1.79	0.24	0.96	0.20	0.21	0.05	1.07	0.10	0.12	0.01	1.60	0.26	1.60	0.18	28.73	2.60	45.47	4.39
Lake	9.20	1.54	1.83	0.31	0.77	0.25	0.20	0.06	0.50	0.07	0.06	0.01	0.99	0.19	1.43	0.20	17.59	2.21	32.55	4.32
Lassen	23.05	2.15	4.34	0.40	1.40	0.22	0.30	0.05	1.90	0.16	0.21	0.02	3.81	0.41	5.80	0.43	58.34	3.85	99.14	6.88
Los Angeles	1.77	0.45	0.33	0.08	0.26	0.09	0.07	0.02	0.27	0.05	0.03	0.01	0.29	0.08	0.39	0.08	7.36	1.28	10.77	1.92
Madera	23.26	3.26	4.18	0.57	3.86	0.78	0.83	0.16	0.66	0.07	0.07	0.01	2.85	0.60	3.15	0.36	25.79	2.55	64.66	7.38
Marin	5.28	1.91	0.99	0.35	0.16	0.07	0.05	0.02	0.13	0.03	0.01	0.00	0.48	0.24	0.36	0.09	4.50	1.10	11.97	3.45
Mariposa	19.60	2.63	3.69	0.48	3.05	0.58	0.66	0.12	0.74	0.08	0.08	0.01	2.72	0.44	2.90	0.34	26.93	2.61	60.38	6.57
Mendocino	82.89	5.77	16.26	1.13	3.17	0.39	0.85	0.10	2.18	0.13	0.24	0.01	7.12	0.64	6.31	0.37	74.42	4.33	193.45	11.86
Merced	0.36	0.18	0.07	0.03	0.01	0.01	0.00	0.00	0.04	0.02	0.00	0.00	0.01	0.01	0.05	0.02	0.96	0.42	1.52	0.65
Modoc	16.79	1.78	3.06	0.31	1.13	0.21	0.24	0.04	2.17	0.17	0.24	0.02	2.54	0.28	4.55	0.34	55.55	3.65	86.28	6.04
Mono	9.67	1.20	1.96	0.24	0.72	0.17	0.17	0.04	1.05	0.10	0.12	0.01	1.89	0.25	2.61	0.25	31.74	2.69	49.93	4.46
Monterey	10.24	2.42	1.85	0.42	0.81	0.27	0.18	0.06	0.65	0.07	0.07	0.01	1.13	0.33	1.10	0.13	19.02	2.14	35.06	4.89
Napa	5.16	1.12	1.02	0.22	0.22	0.07	0.05	0.02	0.28	0.05	0.03	0.01	0.48	0.20	0.50	0.09	7.81	1.35	15.54	2.83
Nevada	14.62	2.22	2.79	0.42	0.98	0.25	0.23	0.06	0.42	0.06	0.05	0.01	1.47	0.34	1.90	0.24	18.52	2.25	40.98	5.29
Orange	0.02	0.02	0.00	0.00	--	--	--	--	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.09	0.09	0.13	0.13
Placer	24.05	2.98	4.49	0.56	2.04	0.36	0.45	0.08	0.65	0.07	0.07	0.01	2.39	0.34	3.21	0.34	30.08	2.96	67.43	7.04
Plumas	54.24	4.40	9.99	0.80	6.77	0.95	1.53	0.21	1.30	0.10	0.14	0.01	6.45	0.57	9.06	0.59	66.36	4.09	155.85	10.29
Riverside	0.70	0.32	0.14	0.06	0.04	0.03	0.01	0.01	0.13	0.03	0.01	0.00	0.19	0.08	0.20	0.06	3.19	0.83	4.61	1.29

Table 4.12b. Forest land carbon stock by county, 2009-2018: COUNTY (CONTINUED)

County	Live trees				Dead trees				Understory vegetation				Down wood		Forest Floor		Soil		Total C		Acres	
	Aboveground		Belowground		Aboveground		Belowground		Aboveground		Belowground		Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>																					
Sacramento	0.15	0.13	0.03	0.03	--	--	--	--	0.02	0.01	0.00	0.00	0.00	0.00	0.02	0.01	0.48	0.33	0.70	0.50	11.91	7.71
San Benito	1.71	0.60	0.29	0.10	0.03	0.02	0.01	0.00	0.21	0.04	0.02	0.00	0.12	0.04	0.26	0.06	5.36	1.12	8.02	1.77	130.59	27.25
San Bernardino	4.34	0.97	0.78	0.16	0.90	0.25	0.21	0.06	0.60	0.07	0.07	0.01	1.12	0.24	0.99	0.16	16.06	1.92	25.08	3.29	429.50	50.45
San Diego	1.42	0.55	0.25	0.10	0.17	0.07	0.04	0.02	0.20	0.04	0.02	0.00	0.29	0.10	0.25	0.06	4.50	0.92	7.13	1.57	126.25	25.42
San Joaquin	0.35	0.27	0.07	0.05	0.01	0.01	0.00	0.00	0.02	0.01	0.00	0.00	0.03	0.03	0.04	0.02	0.54	0.34	1.07	0.73	13.74	8.05
San Luis Obispo	4.10	0.80	0.73	0.14	0.18	0.05	0.04	0.01	0.37	0.05	0.04	0.01	0.49	0.13	0.49	0.08	9.78	1.45	16.21	2.49	241.68	35.08
San Mateo	7.11	2.31	1.33	0.43	0.32	0.11	0.09	0.03	0.11	0.03	0.01	0.00	0.71	0.27	0.31	0.08	4.07	1.05	14.05	4.07	85.58	21.82
Santa Barbara	2.03	0.55	0.36	0.10	0.43	0.15	0.09	0.03	0.36	0.06	0.04	0.01	0.34	0.09	0.39	0.07	8.39	1.34	12.43	2.07	229.01	36.11
Santa Clara	6.93	1.26	1.29	0.24	0.25	0.09	0.08	0.03	0.41	0.06	0.05	0.01	0.57	0.12	0.79	0.12	10.15	1.44	20.52	3.07	279.01	39.25
Santa Cruz	18.56	3.64	3.50	0.68	0.43	0.10	0.11	0.03	0.25	0.04	0.03	0.00	0.98	0.23	0.90	0.15	9.96	1.65	34.71	6.23	211.38	34.85
Shasta	54.20	3.87	10.60	0.77	4.02	0.55	0.91	0.12	2.02	0.13	0.22	0.01	5.97	0.51	9.25	0.58	81.03	4.54	168.24	9.99	1,843.98	102.21
Sierra	21.11	2.90	3.96	0.55	1.54	0.27	0.35	0.06	0.47	0.06	0.05	0.01	2.00	0.28	2.88	0.31	25.75	2.72	58.11	6.60	534.91	55.49
Siskiyou	106.61	6.03	20.46	1.17	12.72	1.47	3.01	0.34	3.20	0.16	0.36	0.02	11.97	0.78	15.71	0.70	146.46	6.16	320.50	14.54	3,083.01	128.71
Solano	0.41	0.21	0.07	0.04	--	--	--	--	0.04	0.02	0.00	0.00	0.06	0.03	0.06	0.02	1.18	0.54	1.83	0.80	28.36	12.70
Sonoma	24.28	3.71	4.70	0.71	0.78	0.19	0.21	0.06	0.57	0.07	0.06	0.01	1.77	0.30	1.44	0.17	18.60	2.16	52.41	6.84	439.77	50.70
Stanislaus	0.67	0.20	0.13	0.04	0.01	0.01	0.00	0.00	0.15	0.04	0.02	0.00	0.09	0.04	0.18	0.05	3.04	0.76	4.30	1.08	93.26	23.10
Sutter	0.19	0.17	0.04	0.03	--	--	--	--	0.01	0.01	0.00	0.00	0.00	0.00	0.02	0.02	0.35	0.24	0.62	0.48	9.74	6.80
Tehama	26.18	2.93	5.00	0.55	2.38	0.41	0.57	0.10	1.19	0.11	0.13	0.01	3.50	0.50	3.82	0.36	41.80	3.31	84.57	7.46	965.51	74.96
Trinity	83.78	5.65	16.92	1.15	9.63	1.03	2.35	0.25	1.69	0.11	0.19	0.01	8.51	0.66	9.78	0.57	91.15	5.04	223.99	13.12	1,837.36	100.80
Tulare	42.74	4.21	7.81	0.74	6.50	0.86	1.38	0.18	1.37	0.10	0.15	0.01	4.90	0.59	6.11	0.46	55.69	3.73	126.65	9.60	1,341.09	89.18
Tuolumne	38.33	3.86	7.07	0.69	6.79	1.23	1.39	0.22	1.05	0.09	0.12	0.01	4.45	0.49	6.22	0.51	48.94	3.59	114.35	9.30	1,079.04	78.48
Ventura	1.46	0.40	0.28	0.08	0.38	0.16	0.09	0.04	0.35	0.06	0.04	0.01	0.28	0.07	0.42	0.08	8.54	1.39	11.84	1.98	230.43	36.79
Yolo	0.50	0.16	0.10	0.03	0.03	0.02	0.01	0.00	0.10	0.03	0.01	0.00	0.04	0.02	0.10	0.03	2.52	0.75	3.40	1.01	65.33	19.09
Yuba	8.05	1.87	1.63	0.38	0.27	0.09	0.08	0.02	0.21	0.04	0.02	0.00	0.72	0.25	0.82	0.17	7.65	1.36	19.45	3.85	186.40	33.02
All counties	1,064.78	13.95	203.69	2.62	97.09	2.83	22.65	0.62	37.47	0.38	4.16	0.04	115.94	2.09	136.46	1.02	1,399.95	8.86	3,082.20	23.17	31,669.95	200.99

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

Table 4.12c. Forest land carbon stock by National Forest, 2009-2018: NATIONAL FOREST.

	Live trees				Dead trees				Understory vegetation				Down wood		Forest Floor		Soil		Total C		Acres	
	Aboveground		Belowground		Aboveground		Belowground		Aboveground		Belowground		Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>																					
<b>Region 5</b>																						
Angeles	1.98	0.60	0.35	0.10	0.21	0.08	0.06	0.02	0.20	0.04	0.02	0.00	0.30	0.09	0.38	0.09	6.11	1.22	9.61	2.01	146.13	28.75
Cleveland	0.17	0.11	0.02	0.02	0.01	0.01	0.00	0.00	0.02	0.01	0.00	0.00	0.01	0.01	0.04	0.02	0.62	0.35	0.90	0.49	16.23	8.86
Eldorado	32.09	3.76	6.04	0.72	3.51	0.56	0.77	0.12	0.46	0.05	0.05	0.01	2.99	0.42	4.07	0.41	30.51	3.00	80.49	8.30	605.58	59.10
Inyo	14.21	1.71	2.90	0.34	1.14	0.19	0.28	0.05	1.13	0.10	0.13	0.01	2.47	0.38	3.40	0.29	37.84	2.88	63.49	5.23	954.64	71.92
Klamath	55.78	4.73	10.83	0.92	9.33	1.39	2.20	0.32	1.28	0.10	0.14	0.01	6.14	0.60	6.81	0.46	64.17	4.17	156.69	11.02	1,316.40	84.38
Lake Tahoe Basin	4.77	1.68	0.83	0.29	0.49	0.19	0.11	0.04	0.11	0.03	0.01	0.00	0.48	0.16	0.66	0.16	4.89	1.14	12.36	3.36	111.74	25.81
Lassen	35.48	3.40	6.38	0.60	4.34	0.79	0.93	0.16	0.95	0.08	0.11	0.01	4.38	0.52	5.73	0.45	46.53	3.41	104.83	8.34	1,034.80	75.06
Los Padres	8.72	2.12	1.59	0.36	1.32	0.32	0.29	0.07	0.90	0.09	0.10	0.01	1.41	0.32	1.37	0.15	23.51	2.30	39.20	4.63	598.05	57.22
Mendocino	27.20	2.99	5.43	0.60	3.69	0.66	0.87	0.15	0.92	0.09	0.10	0.01	3.11	0.38	3.55	0.33	39.03	3.31	83.90	7.57	814.86	68.32
Modoc	17.58	2.02	3.18	0.35	1.24	0.21	0.27	0.05	1.78	0.15	0.20	0.02	2.37	0.28	4.11	0.32	48.13	3.34	78.86	6.00	1,120.87	76.74
Plumas	50.38	4.58	9.43	0.85	5.34	0.72	1.26	0.17	1.05	0.09	0.12	0.01	5.45	0.54	6.98	0.50	52.14	3.56	132.15	9.81	1,154.81	78.09
San Bernardino	3.51	0.84	0.65	0.15	0.75	0.24	0.18	0.06	0.32	0.05	0.04	0.01	0.86	0.18	0.78	0.14	9.91	1.53	17.01	2.82	250.32	38.42
Sequoia	27.06	3.37	4.89	0.59	4.85	0.72	1.03	0.15	0.96	0.09	0.11	0.01	2.84	0.45	3.97	0.37	38.11	3.11	83.82	7.68	889.59	72.16
Shasta-Trinity	86.27	5.49	17.12	1.11	9.20	0.92	2.23	0.22	1.64	0.10	0.18	0.01	8.69	0.67	10.91	0.60	94.42	4.98	230.67	12.84	1,925.54	100.46
Sierra	45.03	4.30	8.30	0.77	6.96	0.97	1.51	0.20	0.96	0.08	0.11	0.01	4.86	0.68	6.19	0.49	47.36	3.42	121.28	9.71	1,086.97	78.07
Six Rivers	65.57	5.85	12.98	1.17	6.49	0.84	1.62	0.21	1.28	0.10	0.14	0.01	5.03	0.53	4.66	0.34	58.03	4.10	155.80	11.91	1,105.77	77.74
Stanislaus	31.26	3.47	5.64	0.61	4.16	0.72	0.87	0.14	0.71	0.07	0.08	0.01	2.98	0.36	4.75	0.44	37.48	3.25	87.93	8.26	781.32	66.83
Tahoe	35.19	3.67	6.59	0.69	3.07	0.43	0.70	0.09	0.75	0.07	0.08	0.01	3.54	0.47	4.57	0.39	41.17	3.41	95.65	8.38	833.19	67.86
Toiyabe	6.53	1.06	1.21	0.19	0.74	0.19	0.17	0.04	0.48	0.07	0.05	0.01	1.17	0.23	1.71	0.22	17.30	2.07	29.35	3.69	409.56	48.41
<b>Total</b>	<b>548.77</b>	<b>8.98</b>	<b>104.34</b>	<b>1.71</b>	<b>66.84</b>	<b>2.39</b>	<b>15.34</b>	<b>0.53</b>	<b>15.91</b>	<b>0.24</b>	<b>1.77</b>	<b>0.03</b>	<b>59.08</b>	<b>1.45</b>	<b>74.65</b>	<b>0.76</b>	<b>697.25</b>	<b>5.86</b>	<b>1,583.95</b>	<b>15.67</b>	<b>15,156.36</b>	<b>123.04</b>
<b>Region 6</b>																						
Rogue River / Siskiyou	4.70	0.92	0.93	0.19	0.39	0.13	0.10	0.04	0.08	0.01	0.01	0.00	0.40	0.09	0.41	0.04	4.26	0.39	11.26	1.44	81.95	6.62
<b>Total</b>	<b>4.70</b>	<b>0.92</b>	<b>0.93</b>	<b>0.19</b>	<b>0.39</b>	<b>0.13</b>	<b>0.10</b>	<b>0.04</b>	<b>0.08</b>	<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>0.40</b>	<b>0.09</b>	<b>0.41</b>	<b>0.04</b>	<b>4.26</b>	<b>0.39</b>	<b>11.26</b>	<b>1.44</b>	<b>81.95</b>	<b>6.62</b>
<b>All National Forests</b>	<b>553.47</b>	<b>9.00</b>	<b>105.27</b>	<b>1.72</b>	<b>67.23</b>	<b>2.39</b>	<b>15.44</b>	<b>0.53</b>	<b>15.99</b>	<b>0.24</b>	<b>1.78</b>	<b>0.03</b>	<b>59.48</b>	<b>1.46</b>	<b>75.06</b>	<b>0.76</b>	<b>701.52</b>	<b>5.86</b>	<b>1,595.22</b>	<b>15.67</b>	<b>15,238.31</b>	<b>122.90</b>

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

Table 4.12d. Forest land carbon stock by ownership and land status, 2009–2018: Coastal Forest Practice District

	Live trees				Dead trees				Understory vegetation				Down wood		Forest Floor		Soil		Total C		Acres	
	Aboveground		Belowground		Aboveground		Belowground		Aboveground		Belowground		Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	Million metric tons C <sup>1</sup>																					
<b>National Forests</b>																						
Timberland	30.60	4.11	6.05	0.82	2.92	0.81	0.73	0.20	0.43	0.05	0.05	0.01	2.25	0.35	2.12	0.25	22.40	2.54	67.55	8.16	437.48	49.32
Other forest	0.65	0.43	0.13	0.09	0.03	0.02	0.01	0.01	0.02	0.01	0.00	0.00	0.02	0.02	0.05	0.03	0.85	0.49	1.76	1.03	16.83	9.63
Reserved - productive	19.55	3.44	3.85	0.69	1.48	0.35	0.39	0.09	0.42	0.06	0.05	0.01	1.33	0.28	1.32	0.18	17.81	2.35	46.20	6.83	340.51	44.76
Reserved - other	0.56	0.22	0.10	0.04	0.11	0.06	0.02	0.01	0.08	0.03	0.01	0.00	0.04	0.02	0.18	0.06	3.06	1.02	4.15	1.40	54.23	18.09
<b>Total</b>	<b>51.36</b>	<b>5.33</b>	<b>10.12</b>	<b>1.07</b>	<b>4.53</b>	<b>0.88</b>	<b>1.15</b>	<b>0.22</b>	<b>0.95</b>	<b>0.08</b>	<b>0.11</b>	<b>0.01</b>	<b>3.64</b>	<b>0.44</b>	<b>3.67</b>	<b>0.31</b>	<b>44.12</b>	<b>3.58</b>	<b>119.66</b>	<b>10.64</b>	<b>849.05</b>	<b>68.60</b>
<b>Other Federal</b>																						
Timberland	3.27	1.57	0.67	0.33	0.04	0.03	0.01	0.01	0.07	0.02	0.01	0.00	0.13	0.06	0.17	0.06	2.09	0.75	6.46	2.69	50.50	17.78
Other forest	0.12	0.12	0.02	0.03	--	--	--	--	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.31	0.32	0.48	0.49	6.13	6.25
Reserved - productive	14.56	4.62	2.70	0.82	0.74	0.24	0.20	0.07	0.16	0.04	0.02	0.00	1.05	0.35	0.54	0.12	6.04	1.32	26.00	7.02	131.09	28.13
Reserved - other	0.47	0.28	0.09	0.05	0.02	0.03	0.01	0.01	0.03	0.02	0.00	0.00	0.11	0.12	0.06	0.04	0.77	0.46	1.57	0.94	18.12	10.81
<b>Total</b>	<b>18.41</b>	<b>4.86</b>	<b>3.48</b>	<b>0.88</b>	<b>0.80</b>	<b>0.24</b>	<b>0.22</b>	<b>0.07</b>	<b>0.26</b>	<b>0.05</b>	<b>0.03</b>	<b>0.01</b>	<b>1.30</b>	<b>0.38</b>	<b>0.79</b>	<b>0.14</b>	<b>9.21</b>	<b>1.58</b>	<b>34.51</b>	<b>7.52</b>	<b>205.83</b>	<b>34.75</b>
<b>State and Local Government</b>																						
Timberland	7.33	2.11	1.39	0.40	0.22	0.09	0.08	0.03	0.08	0.02	0.01	0.00	0.60	0.25	0.34	0.09	3.64	0.96	13.69	3.78	77.62	20.25
Other forest	0.20	0.12	0.04	0.02	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.01	0.00	0.03	0.01	0.49	0.24	0.79	0.38	11.15	5.52
Reserved - productive	26.76	6.90	5.04	1.26	0.84	0.22	0.24	0.06	0.26	0.04	0.03	0.00	1.45	0.34	0.83	0.13	9.02	1.43	44.46	9.68	205.25	32.20
Reserved - other	2.66	1.07	0.51	0.21	0.07	0.04	0.02	0.02	0.14	0.04	0.02	0.00	0.11	0.04	0.26	0.07	3.96	0.99	7.76	2.19	90.93	22.88
<b>Total</b>	<b>36.95</b>	<b>6.87</b>	<b>6.98</b>	<b>1.25</b>	<b>1.14</b>	<b>0.23</b>	<b>0.34</b>	<b>0.06</b>	<b>0.50</b>	<b>0.06</b>	<b>0.06</b>	<b>0.01</b>	<b>2.17</b>	<b>0.40</b>	<b>1.45</b>	<b>0.15</b>	<b>17.11</b>	<b>1.76</b>	<b>66.70</b>	<b>9.75</b>	<b>384.95</b>	<b>39.53</b>
<b>Total Public</b>																						
Timberland	41.20	4.88	8.11	0.97	3.19	0.81	0.82	0.20	0.58	0.06	0.06	0.01	2.98	0.44	2.63	0.27	28.13	2.81	87.70	9.38	565.60	56.20
Other forest	0.96	0.46	0.19	0.09	0.03	0.02	0.01	0.01	0.05	0.02	0.01	0.00	0.03	0.02	0.09	0.04	1.66	0.63	3.03	1.21	34.11	12.73
Reserved - productive	60.87	8.99	11.58	1.65	3.05	0.48	0.83	0.13	0.84	0.08	0.09	0.01	3.83	0.56	2.69	0.25	32.88	3.05	116.66	13.78	676.85	61.95
Reserved - other	3.69	1.13	0.69	0.22	0.20	0.08	0.05	0.02	0.25	0.05	0.03	0.01	0.26	0.13	0.50	0.10	7.79	1.50	13.48	2.77	163.28	31.10
<b>Total</b>	<b>106.72</b>	<b>9.96</b>	<b>20.58</b>	<b>1.87</b>	<b>6.48</b>	<b>0.94</b>	<b>1.71</b>	<b>0.23</b>	<b>1.71</b>	<b>0.11</b>	<b>0.19</b>	<b>0.01</b>	<b>7.11</b>	<b>0.70</b>	<b>5.92</b>	<b>0.37</b>	<b>70.45</b>	<b>4.29</b>	<b>220.87</b>	<b>16.27</b>	<b>1,439.83</b>	<b>86.42</b>
<b>Private Corporate</b>																						
Timberland	71.58	5.31	13.94	1.03	3.93	0.57	1.14	0.16	1.53	0.10	0.17	0.01	10.30	0.97	4.92	0.32	55.36	3.59	162.86	11.03	1,262.66	80.68
Other forest	2.19	0.67	0.41	0.13	0.08	0.04	0.02	0.01	0.09	0.03	0.01	0.00	0.18	0.07	0.19	0.05	2.78	0.79	5.95	1.68	63.44	18.12
<b>Total</b>	<b>73.77</b>	<b>5.35</b>	<b>14.35</b>	<b>1.04</b>	<b>4.01</b>	<b>0.57</b>	<b>1.16</b>	<b>0.16</b>	<b>1.62</b>	<b>0.10</b>	<b>0.18</b>	<b>0.01</b>	<b>10.48</b>	<b>0.97</b>	<b>5.10</b>	<b>0.33</b>	<b>58.14</b>	<b>3.67</b>	<b>168.81</b>	<b>11.16</b>	<b>1,326.10</b>	<b>82.61</b>
<b>Private Noncorporate</b>																						
Timberland	71.37	5.71	13.90	1.11	2.27	0.29	0.57	0.07	1.38	0.10	0.15	0.01	5.36	0.57	4.33	0.31	48.73	3.45	148.06	10.91	1,097.54	76.85
Other forest	8.21	1.23	1.61	0.24	0.22	0.08	0.06	0.02	0.44	0.06	0.05	0.01	0.62	0.13	0.89	0.12	13.03	1.69	25.14	3.35	296.00	38.43
<b>Total</b>	<b>79.58</b>	<b>5.81</b>	<b>15.51</b>	<b>1.13</b>	<b>2.49</b>	<b>0.30</b>	<b>0.63</b>	<b>0.07</b>	<b>1.81</b>	<b>0.11</b>	<b>0.20</b>	<b>0.01</b>	<b>5.98</b>	<b>0.58</b>	<b>5.22</b>	<b>0.33</b>	<b>61.76</b>	<b>3.80</b>	<b>173.19</b>	<b>11.31</b>	<b>1,393.54</b>	<b>84.94</b>
<b>Total Private</b>																						
Timberland	142.95	7.24	27.84	1.41	6.20	0.63	1.71	0.17	2.91	0.13	0.32	0.01	15.66	1.08	9.25	0.41	104.09	4.57	310.92	14.27	2,360.20	102.25
Other forest	10.40	1.40	2.02	0.27	0.31	0.09	0.08	0.02	0.53	0.06	0.06	0.01	0.80	0.15	1.08	0.13	15.82	1.87	31.09	3.74	359.43	42.39
<b>Total</b>	<b>153.35</b>	<b>7.33</b>	<b>29.86</b>	<b>1.42</b>	<b>6.50</b>	<b>0.64</b>	<b>1.79</b>	<b>0.17</b>	<b>3.44</b>	<b>0.14</b>	<b>0.38</b>	<b>0.02</b>	<b>16.46</b>	<b>1.08</b>	<b>10.32</b>	<b>0.43</b>	<b>119.90</b>	<b>4.87</b>	<b>342.00</b>	<b>14.61</b>	<b>2,719.63</b>	<b>109.07</b>
<b>All Ownerships</b>																						
Timberland	184.14	8.72	35.95	1.71	9.39	1.03	2.53	0.26	3.48	0.14	0.39	0.02	18.64	1.16	11.87	0.49	132.22	5.35	398.62	17.04	2,925.80	116.23
Other forest	11.36	1.47	2.21	0.29	0.34	0.09	0.09	0.02	0.58	0.07	0.06	0.01	0.83	0.15	1.17	0.14	17.47	1.98	34.12	3.93	393.54	44.35
Reserved - productive	60.87	8.99	11.58	1.65	3.05	0.48	0.83	0.13	0.84	0.08	0.09	0.01	3.83	0.56	2.69	0.25	32.88	3.05	116.66	13.78	676.85	61.95
Reserved - other	3.69	1.13	0.69	0.22	0.20	0.08	0.05	0.02	0.25	0.05	0.03	0.01	0.26	0.13	0.50	0.10	7.79	1.50	13.48	2.77	163.28	31.10
<b>Total</b>	<b>260.07</b>	<b>12.33</b>	<b>50.44</b>	<b>2.34</b>	<b>12.98</b>	<b>1.13</b>	<b>3.50</b>	<b>0.29</b>	<b>5.15</b>	<b>0.18</b>	<b>0.57</b>	<b>0.02</b>	<b>23.57</b>	<b>1.29</b>	<b>16.24</b>	<b>0.56</b>	<b>190.35</b>	<b>6.43</b>	<b>562.88</b>	<b>21.73</b>	<b>4,159.47</b>	<b>137.43</b>

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)







**Table 4.13:** Forest land carbon stocks by ownership and pool, 2009-2018: All California. Compare to appendix 2, C tables.

	Live Trees		Dead Trees		Understory		Down wood		Forest Floor		Soil		Total C		Acres	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>															
	<i>x1000</i>															
<b>Public reserved</b>	305.8	12.7	40.9	2.3	7.7	0.2	27.9	1.3	30.3	0.7	296.1	6.1	708.7	18.6	6,562.5	135.7
<b>Public unreserved</b>	522.7	10.2	57.5	2.4	16.2	0.3	46.3	1.2	60.5	0.8	580.1	6.8	1,283.4	16.7	12,835.7	149.4
<b>Private corporate</b>	219.4	7.9	11.7	0.9	7.0	0.2	25.3	1.1	25.3	0.7	239.9	6.1	528.6	14.4	5,425.2	136.3
<b>Private noncorporate</b>	220.6	8.2	9.6	0.7	10.7	0.3	16.4	0.9	20.4	0.6	283.9	6.7	561.5	15.0	6,846.5	159.7
<b>Total</b>	1,268.5	16.5	119.7	3.4	41.6	0.4	115.9	2.1	136.5	1.0	1,400.0	8.9	3,082.2	23.2	31,670.0	201.0

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

**Table 4.14:** Forest land carbon stocks by ownership and pool, 2009-2018: Central Coast/Interior Ranges. Compare to appendix 2, C tables.

	Live Trees		Dead Trees		Understory		Down wood		Forest Floor		Soil		Total C		Acres	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>															
	<i>x1000</i>															
<b>Public reserved</b>	21.7	4.1	1.0	0.3	0.8	0.1	1.6	0.4	1.4	0.2	19.8	2.0	46.2	6.1	477.2	48.3
<b>Public unreserved</b>	4.5	1.3	0.2	0.1	0.4	0.1	0.4	0.1	0.5	0.1	9.4	1.4	15.3	2.6	251.6	36.9
<b>Private corporate</b>	7.5	1.8	0.2	0.1	0.3	0.1	0.5	0.2	0.5	0.1	7.5	1.3	16.6	3.2	177.8	30.7
<b>Private noncorporate</b>	30.6	3.9	1.3	0.2	1.4	0.1	2.0	0.3	2.3	0.2	36.7	2.8	74.3	6.7	889.0	67.8
<b>Total</b>	64.3	6.1	2.7	0.4	2.9	0.2	4.5	0.5	4.7	0.3	73.4	3.9	152.5	9.9	1,795.6	94.7

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

**Table 4.15:** Forest land carbon stocks by ownership and pool, 2009-2018: Central Valley. Compare to appendix 2, C tables.

	Live Trees		Dead Trees		Understory		Down wood		Forest Floor		Soil		Total C		Acres	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>															
	<i>x1000</i>															
Public reserved	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.5	0.4	5.6	4.7
Public unreserved	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.2	4.4	3.1
Private corporate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Private noncorporate	1.2	0.4	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	2.7	0.7	4.4	1.2	78.5	20.2
<b>Total</b>	1.5	0.5	0.1	0.0	0.1	0.0	0.1	0.1	0.2	0.0	3.1	0.8	5.1	1.3	88.5	21.0

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

**Table 4.16:** Forest land carbon stocks by ownership and pool, 2009-2018: Eastside. Compare to appendix 2, C tables.

	Live Trees		Dead Trees		Understory		Down wood		Forest Floor		Soil		Total C		Acres	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>															
	<i>x1000</i>															
Public reserved	5.0	1.2	0.4	0.1	0.4	0.1	0.6	0.1	1.0	0.2	11.5	1.7	18.9	3.1	298.4	43.2
Public unreserved	23.5	1.9	1.7	0.3	3.7	0.2	3.3	0.3	5.9	0.3	81.7	4.2	119.9	6.5	1,965.1	100.2
Private corporate	3.9	0.8	0.3	0.1	0.5	0.1	0.8	0.1	1.2	0.2	13.6	1.9	20.4	2.9	318.6	43.9
Private noncorporate	2.1	0.5	0.1	0.0	0.4	0.1	0.3	0.1	0.6	0.1	9.3	1.6	12.9	2.2	221.4	36.7
<b>Total</b>	34.5	2.5	2.4	0.3	5.2	0.3	4.9	0.4	8.7	0.4	116.2	5.1	172.0	8.0	2,803.4	122.2

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

**Table 4.17:** Forest land carbon stocks by ownership and pool, 2009-2018: Klamath Interior/Coast Ranges. Compare to appendix 2, C tables.

	Live Trees		Dead Trees		Understory		Down wood		Forest Floor		Soil		Total C		Acres	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>															
	<i>x1000</i>															
Public reserved	96.4	7.1	14.9	1.5	2.1	0.1	8.2	0.7	8.1	0.4	90.2	4.4	219.8	11.9	1,782.2	86.8
Public unreserved	182.7	8.6	20.1	1.7	3.7	0.2	14.4	0.8	16.1	0.6	159.1	5.9	396.1	15.7	3,244.2	119.9
Private corporate	40.8	3.5	2.5	0.5	1.6	0.1	5.4	0.6	5.5	0.4	56.2	3.8	112.0	8.0	1,213.2	81.8
Private noncorporate	60.8	4.8	2.2	0.3	2.6	0.1	4.4	0.5	5.3	0.3	75.0	4.3	150.2	9.4	1,715.3	95.6
<b>Total</b>	<b>380.7</b>	<b>12.3</b>	<b>39.7</b>	<b>2.4</b>	<b>10.0</b>	<b>0.3</b>	<b>32.4</b>	<b>1.3</b>	<b>34.9</b>	<b>0.9</b>	<b>380.4</b>	<b>9.0</b>	<b>878.0</b>	<b>22.4</b>	<b>7,954.9</b>	<b>186.7</b>

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

**Table 4.18:** Forest land carbon stocks by ownership and pool, 2009-2018: North Coast. Compare to appendix 2, C tables.

	Live Trees		Dead Trees		Understory		Down wood		Forest Floor		Soil		Total C		Acres	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>															
	<i>x1000</i>															
Public reserved	38.7	8.8	2.0	0.5	0.5	0.1	2.3	0.5	1.3	0.2	14.5	1.9	59.2	10.8	326.9	42.2
Public unreserved	13.2	3.2	0.5	0.1	0.2	0.0	0.8	0.3	0.6	0.1	7.1	1.4	22.4	4.8	159.1	30.2
Private corporate	86.3	6.7	4.9	0.7	1.7	0.1	9.5	0.9	4.8	0.3	54.2	3.6	161.4	11.2	1,247.7	80.7
Private noncorporate	64.8	5.6	2.0	0.3	1.4	0.1	4.1	0.5	3.6	0.3	40.8	3.1	116.7	9.2	962.2	72.0
<b>Total</b>	<b>203.0</b>	<b>12.1</b>	<b>9.4</b>	<b>0.9</b>	<b>3.7</b>	<b>0.2</b>	<b>16.7</b>	<b>1.2</b>	<b>10.2</b>	<b>0.4</b>	<b>116.6</b>	<b>4.9</b>	<b>359.7</b>	<b>17.5</b>	<b>2,695.9</b>	<b>111.2</b>

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

**Table 4.19:** Forest land carbon stocks by ownership and pool, 2009-2018: Sierra/Cascades. Compare to appendix 2, C tables.

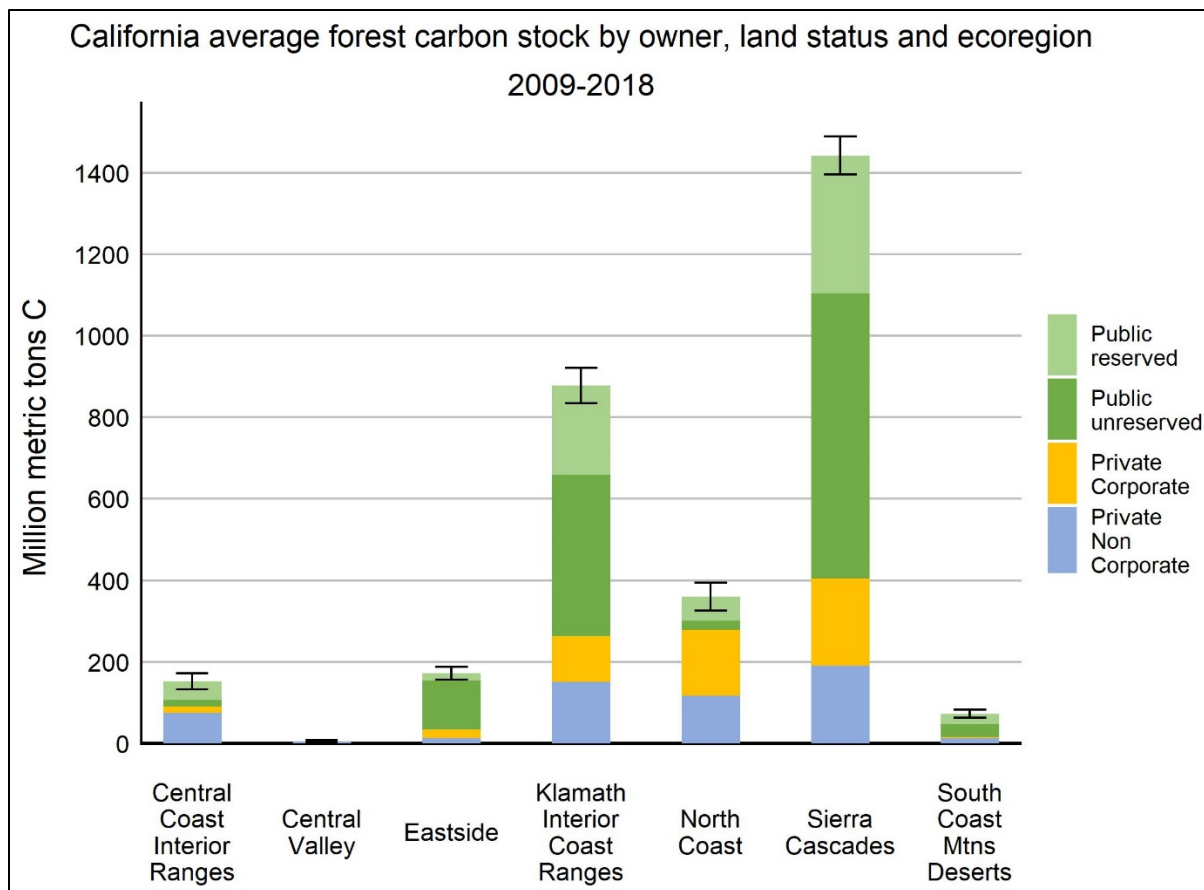
	Live Trees		Dead Trees		Understory		Down wood		Forest Floor		Soil		Total C		Acres	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>															
	<i>x1000</i>															
Public reserved	139.2	7.5	21.4	1.8	3.2	0.1	14.1	1.0	17.6	0.7	143.0	5.2	338.6	14.0	3,229.5	115.5
Public unreserved	292.4	9.4	33.8	1.9	7.3	0.2	26.5	1.1	36.1	0.9	302.3	6.8	698.4	17.3	6,672.4	149.3
Private corporate	80.5	4.8	3.8	0.4	2.8	0.2	9.0	0.6	13.2	0.7	106.2	4.9	215.6	10.4	2,411.0	109.2
Private noncorporate	57.8	3.5	3.7	0.5	4.3	0.2	4.9	0.4	8.1	0.4	110.9	4.7	189.7	8.6	2,758.4	115.6
<b>Total</b>	<b>569.9</b>	<b>12.6</b>	<b>62.8</b>	<b>2.7</b>	<b>17.6</b>	<b>0.3</b>	<b>54.6</b>	<b>1.6</b>	<b>75.0</b>	<b>1.3</b>	<b>662.4</b>	<b>10.0</b>	<b>1,442.3</b>	<b>23.8</b>	<b>15,071.3</b>	<b>225.4</b>

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

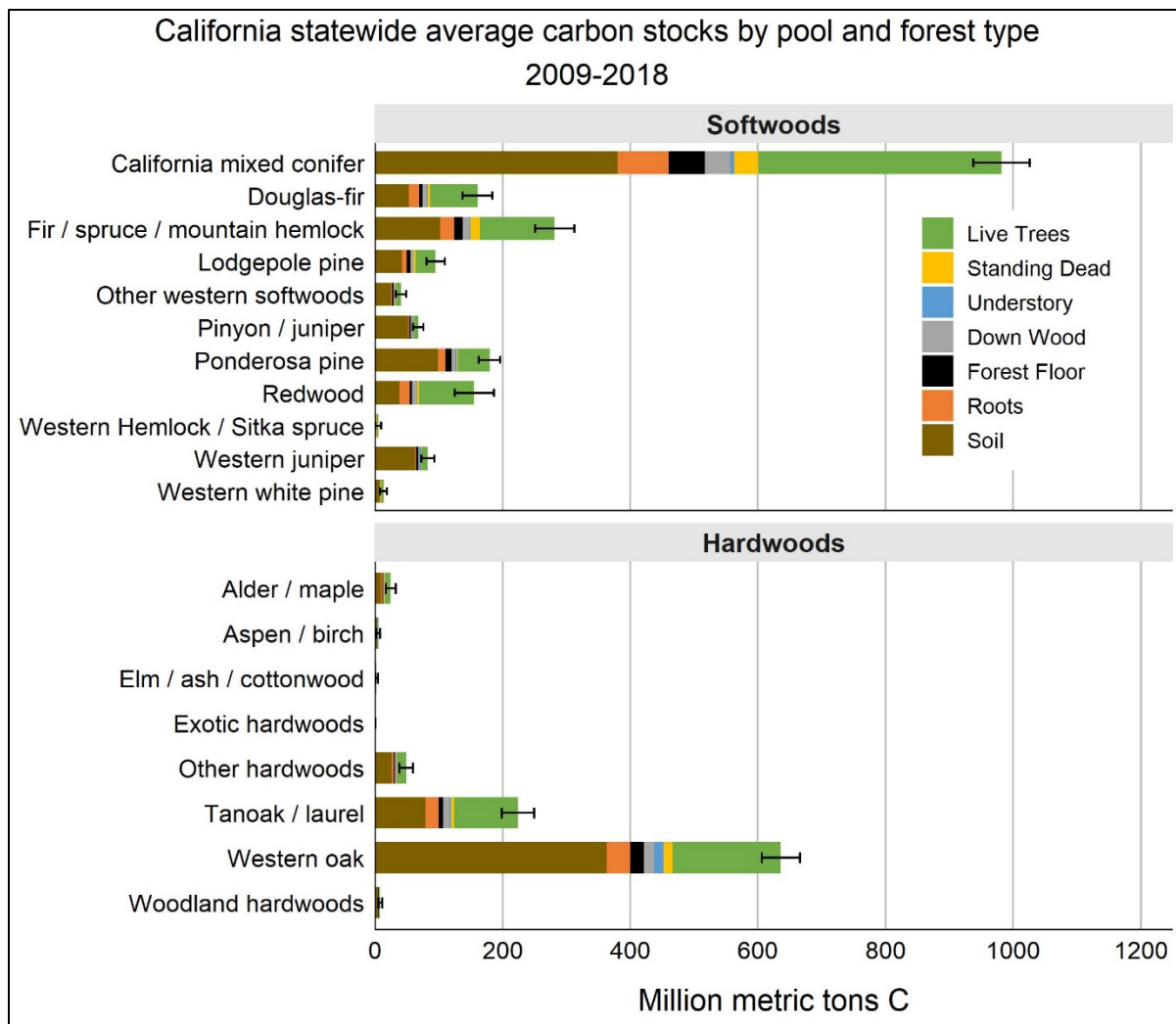
**Table 4.20:** Forest land carbon stocks by ownership and pool, 2009-2018: South Coast Mountains and Deserts. Compare to appendix 2, C tables.

	Live Trees		Dead Trees		Understory		Down wood		Forest Floor		Soil		Total C		Acres	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>															
	<i>x1000</i>															
Public reserved	4.7	1.0	1.1	0.3	0.7	0.1	1.1	0.2	1.0	0.1	16.9	2.0	25.5	3.2	442.8	51.3
Public unreserved	6.4	1.1	1.2	0.3	0.9	0.1	1.1	0.2	1.3	0.2	20.4	2.1	31.1	3.4	539.0	53.7
Private corporate	0.3	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	2.0	0.7	2.6	0.9	56.9	18.8
Private noncorporate	3.2	0.9	0.3	0.1	0.4	0.1	0.5	0.2	0.4	0.1	8.4	1.3	13.3	2.3	221.6	34.4
<b>Total</b>	<b>14.7</b>	<b>1.7</b>	<b>2.7</b>	<b>0.4</b>	<b>2.1</b>	<b>0.1</b>	<b>2.7</b>	<b>0.3</b>	<b>2.7</b>	<b>0.2</b>	<b>47.7</b>	<b>3.2</b>	<b>72.6</b>	<b>5.2</b>	<b>1,260.3</b>	<b>83.5</b>

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)



**Figure 4.11.** Average forest carbon stock by owner, land status and ecological region, 2009-2018 (MMT C). Error bars represent 95% confidence interval of estimated total stock for each ecological region.



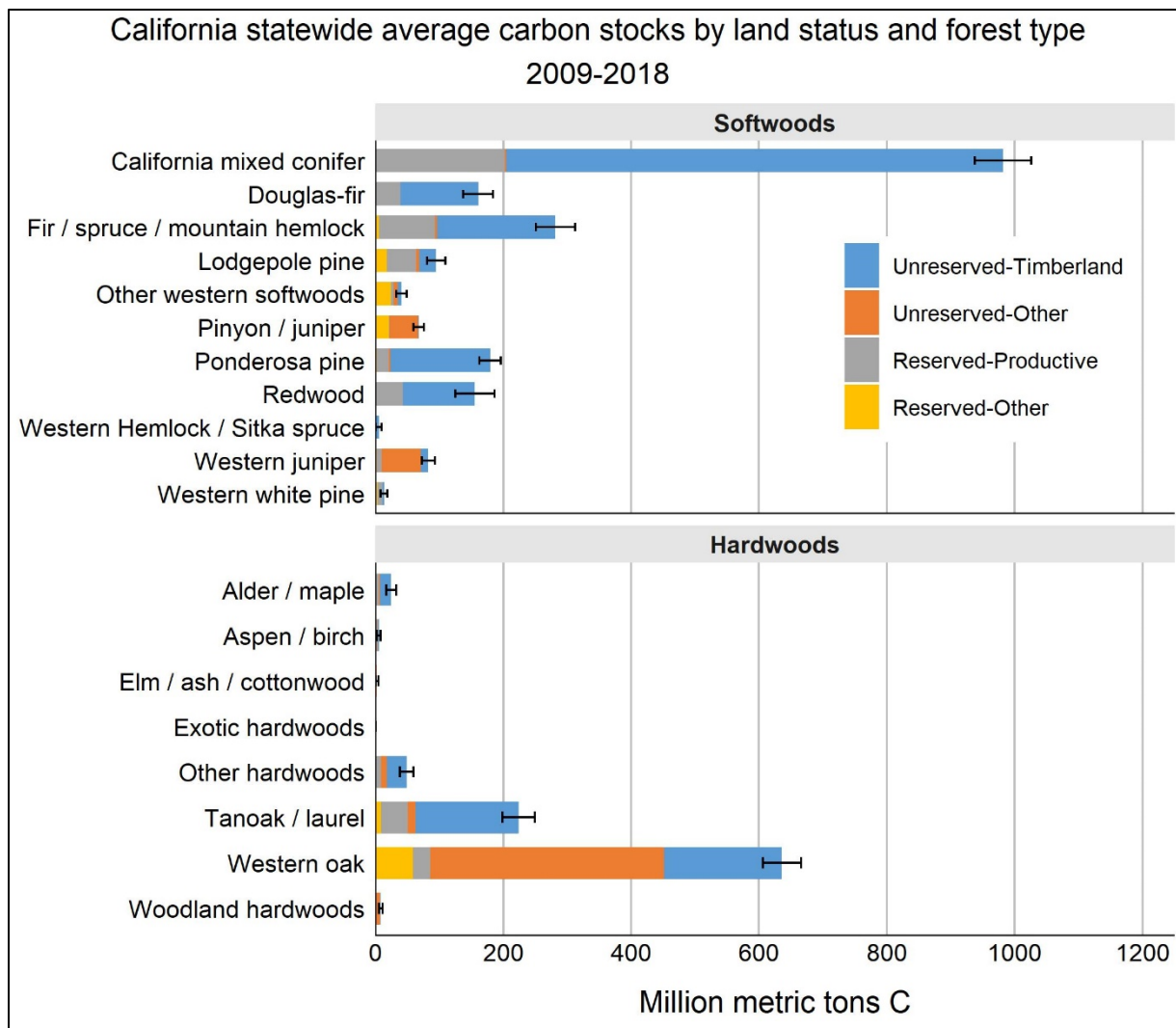
**Figure 4.12.** California statewide average carbon stock by pool and forest type, 2007-2016 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table 4.21; compare to Appendix 2, D tables. \*note, “non-stocked” not depicted in this figure.



**Table 4.21:** Forest land carbon stocks by forest type and pool, 2009-2018: All California. Compare to Appendix 2, D tables.

	Live Trees		Dead Trees		Roots		Understory		Down wood		Forest Floor		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand metric tons C</i>																
<b>Softwoods:</b>																
California mixed conifer	380,899	10,066	37,871	1,938	80,712	2,141	5,622	167	40,148	1,382	56,556	1,274	379,959	8,414	981,768	22,579
Douglas-fir	74,168	6,031	4,131	523	16,374	1,338	1,321	93	6,721	708	4,807	338	53,153	3,758	160,676	11,945
Fir / spruce / mountain hemlock	117,555	7,364	14,219	1,216	22,745	1,420	1,648	87	10,932	839	12,868	677	101,776	5,297	281,743	15,572
Western Hemlock / Sitka spruce	2,440	1,061	253	177	607	282	31	13	309	233	250	108	1,341	594	5,232	2,328
Lodgepole pine	31,466	2,738	3,503	417	7,308	630	760	69	4,098	520	5,297	399	42,696	3,163	95,128	7,257
Pinyon / juniper	6,192	533	481	71	1,405	118	2,688	160	1,923	229	2,550	177	52,491	3,169	67,730	4,131
Ponderosa pine	49,634	2,950	1,818	257	11,046	664	2,574	144	5,504	434	10,235	485	98,971	4,508	179,781	8,593
Redwood	86,036	10,043	3,433	544	16,814	1,904	803	69	7,455	954	3,027	254	38,069	3,188	155,637	15,619
Western juniper	9,521	848	375	78	1,746	160	3,658	251	1,343	172	3,573	234	62,559	3,853	82,775	5,169
Western white pine	3,531	808	527	140	791	178	150	33	444	127	794	158	7,194	1,389	13,431	2,646
Other western softwoods	7,639	1,107	881	174	1,808	273	852	108	1,543	271	2,308	239	25,320	2,510	40,350	4,177
<b>Total</b>	<b>769,083</b>	<b>14,529</b>	<b>67,493</b>	<b>2,295</b>	<b>161,356</b>	<b>2,936</b>	<b>20,106</b>	<b>365</b>	<b>80,418</b>	<b>1,941</b>	<b>102,265</b>	<b>1,269</b>	<b>863,530</b>	<b>10,043</b>	<b>2,064,251</b>	<b>27,558</b>
<b>Hardwoods:</b>																
Alder / maple	9,072	1,694	938	244	2,042	369	374	56	1,530	297	812	124	9,867	1,506	24,635	3,966
Aspen / birch	711	279	74	39	146	55	134	35	289	117	268	71	3,608	950	5,229	1,384
Elm / ash / cottonwood	741	334	31	19	136	65	57	19	73	29	87	33	1,434	511	2,559	982
Tanoak / laurel	99,810	6,500	4,777	554	20,376	1,326	2,945	160	10,142	821	7,042	386	79,212	4,366	224,303	12,991
Western oak	169,174	5,475	13,967	1,202	36,880	1,187	14,756	324	17,074	754	20,723	502	363,294	8,131	635,869	15,304
Woodland hardwoods	755	191	162	45	167	38	288	52	233	75	415	81	6,165	1,138	8,184	1,497
Exotic hardwoods	3	3	--	--		1	9	6	6	6	9	6	149	100	177	119
Other hardwoods	13,856	2,267	921	211	3,043	499	928	94	2,083	389	1,921	201	26,135	2,663	48,887	5,547
<b>Total</b>	<b>294,122</b>	<b>8,425</b>	<b>20,869</b>	<b>1,351</b>	<b>62,790</b>	<b>1,771</b>	<b>19,492</b>	<b>356</b>	<b>31,429</b>	<b>1,191</b>	<b>31,276</b>	<b>628</b>	<b>489,864</b>	<b>9,138</b>	<b>949,842</b>	<b>19,656</b>
<b>Nonstocked</b>	<b>1,573</b>	<b>326</b>	<b>8,729</b>	<b>1,442</b>	<b>2,200</b>	<b>323</b>	<b>2,040</b>	<b>140</b>	<b>4,088</b>	<b>512</b>	<b>2,917</b>	<b>209</b>	<b>46,557</b>	<b>3,232</b>	<b>68,103</b>	<b>5,090</b>
<b>All forest types</b>	<b>1,064,778</b>	<b>13,954</b>	<b>97,091</b>	<b>2,828</b>	<b>226,346</b>	<b>2,770</b>	<b>41,637</b>	<b>423</b>	<b>115,936</b>	<b>2,088</b>	<b>136,458</b>	<b>1,018</b>	<b>1,399,950</b>	<b>8,855</b>	<b>3,082,195</b>	<b>23,174</b>

Note: Totals may be of because of rounding

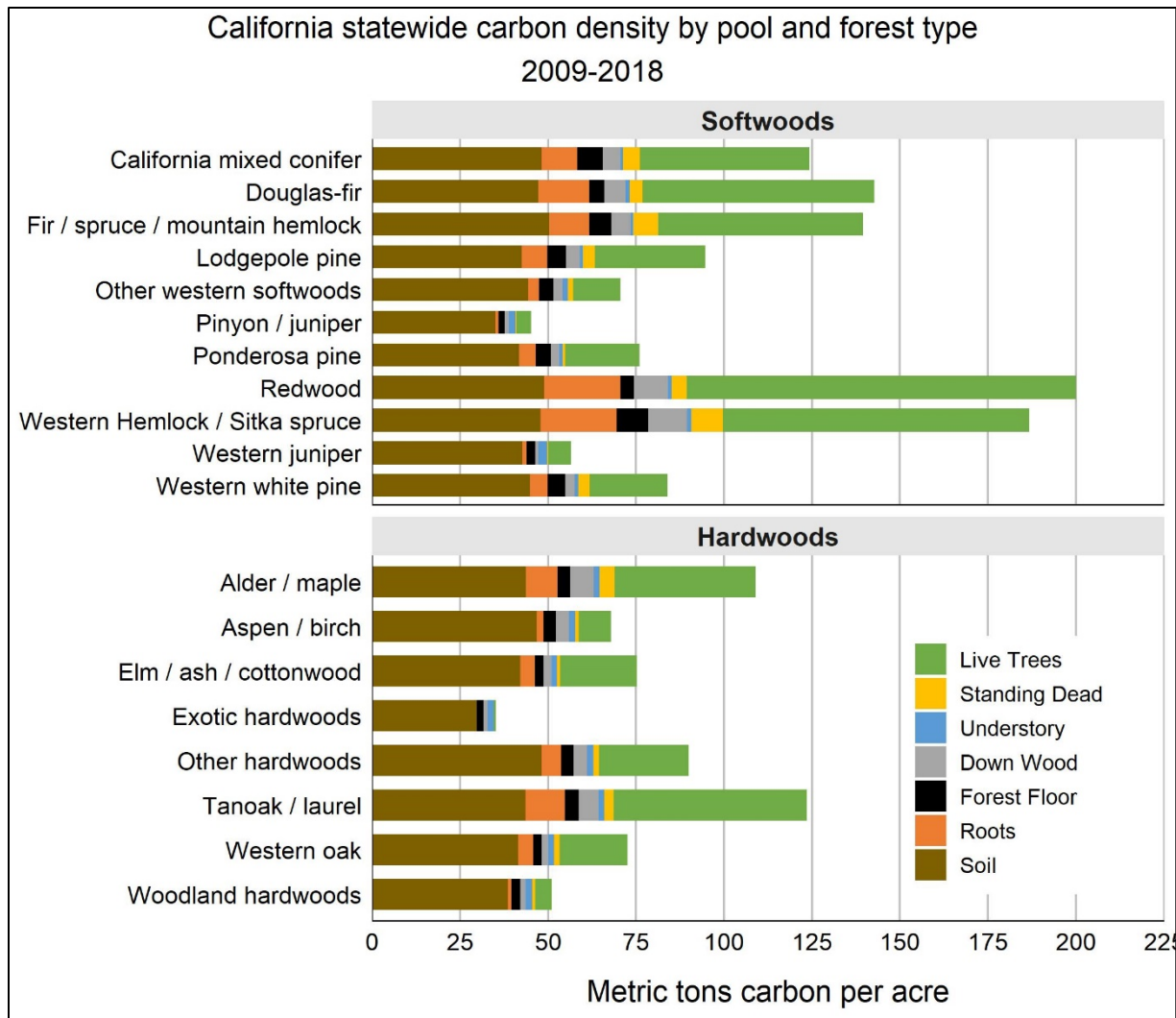


**Figure 4.13.** California statewide average forest carbon stock by land status and forest type, 2007-2016 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table 4.22; compare to Appendix 2, D tables. \*note, “non-stocked” not depicted in this figure.

**Table 4.22:** Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2009-2018: all California. Compare to Appendix 2, D tables.

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
<b>Softwoods:</b>										
California mixed conifer	777,458	19,943	2,195	1,038	200,531	12,204	1,584	1,106	981,768	22,579
Douglas-fir	121,570	10,016	--	--	37,273	6,577	1,833	923	160,676	11,945
Fir / spruce / mountain hemlock	185,640	12,166	3,007	1,386	87,817	9,532	5,279	1,933	281,743	15,572
Western Hemlock / Sitka spruce	4,968	2,314	--	--	263	262	--	--	5,232	2,328
Lodgepole pine	26,430	3,946	4,745	1,677	45,892	5,360	18,061	3,094	95,128	7,257
Pinyon / juniper	590	419	45,388	3,358	250	237	21,501	2,456	67,730	4,131
Ponderosa pine	156,071	7,917	2,787	997	18,651	3,217	2,272	886	179,781	8,593
Redwood	112,605	10,700	--	--	43,033	11,623	--	--	155,637	15,619
Western juniper	11,478	2,002	61,619	4,294	7,167	1,970	2,511	951	82,775	5,169
Western white pine	2,533	1,084	--	--	7,886	2,100	3,011	1,198	13,431	2,646
Other western softwoods	5,698	1,713	6,115	1,490	4,042	1,429	24,495	3,249	40,350	4,177
<b>Total</b>	<b>1,405,042</b>	<b>23,027</b>	<b>125,856</b>	<b>5,943</b>	<b>452,806</b>	<b>18,457</b>	<b>80,547</b>	<b>5,562</b>	<b>2,064,251</b>	<b>27,558</b>
<b>Hardwoods:</b>										
Alder / maple	17,190	3,207	1,634	667	5,134	2,175	677	533	24,635	3,966
Aspen / birch	1,049	639	1,449	650	1,205	710	1,526	762	5,229	1,384
Elm / ash / cottonwood	--	--	1,931	859	23	23	605	474	2,559	982
Tanoak / laurel	161,483	11,036	12,090	2,494	41,739	6,223	8,990	2,470	224,303	12,991
Western oak	184,373	10,337	365,349	10,656	27,278	3,944	58,869	4,890	635,869	15,304
Woodland hardwoods	898	597	5,714	1,253	--	--	1,572	564	8,184	1,497
Exotic hardwoods	92	95	85	73	--	--	--	--	177	119
Other hardwoods	31,453	4,639	8,914	1,688	7,175	2,521	1,345	619	48,887	5,547
<b>Total</b>	<b>396,539</b>	<b>15,338</b>	<b>397,165</b>	<b>11,015</b>	<b>82,555</b>	<b>7,932</b>	<b>73,583</b>	<b>5,608</b>	<b>949,842</b>	<b>19,656</b>
<b>Nonstocked</b>	<b>41,507</b>	<b>3,889</b>	<b>7,405</b>	<b>1,387</b>	<b>15,031</b>	<b>2,801</b>	<b>3,842</b>	<b>1,041</b>	<b>68,103</b>	<b>5,090</b>
<b>All forest types</b>	<b>1,843,088</b>	<b>21,628</b>	<b>530,427</b>	<b>12,151</b>	<b>550,391</b>	<b>18,479</b>	<b>157,972</b>	<b>7,757</b>	<b>3,082,195</b>	<b>23,174</b>

Note: Totals may be of because of rounding



**Figure 4.14.** California statewide carbon density by pool and forest type, 2007-2016 (metric tons C/acre). \*note, “non-stocked” not depicted in this figure.

**Table 4.23:** Aboveground live carbon (C) stocks on forest land by ownership, 2009-2018. Compare to Table 4.12, Appendix 2, Tables C1 and C19.

	Public						Private				All ownerships	
	National Forest		Other Federal		State and local govt.		Corporate		Non Corporate			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>											
<b>Live trees</b>	553.47	9.00	87.26	5.94	55.52	6.50	184.08	6.61	184.45	6.86	1,064.78	13.95
<b>Live understory</b>	15.99	0.24	4.12	0.17	1.47	0.09	6.27	0.20	9.62	0.24	37.47	0.38

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

**Table 4.24** Aboveground average annual live carbon flux (CO<sub>2</sub>e) on forest land by ownership, 2001-2008 to 2011-2018. Compare to table 4.3 and Appendix 2, Table B1.

	Public						Private				Total		Total	
	National forest		Other federal		State and local govt.		Corporate		Non Corporate					
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million Metric Tons CO<sub>2</sub> Equivalent Per Year</i>													
<b>Live trees</b>	1.07	1.39	0.22	0.61	1.72	0.30	4.77	1.17	7.07	0.59	11.84	1.30	14.85	2.03
<b>Foliage</b>	0.14	0.07	0.02	0.03	0.09	0.02	0.28	0.06	0.32	0.03	0.60	0.07	0.85	0.10
<b>Live understory</b>	-0.04	0.05	0.01	0.02	-0.02	0.01	0.00	0.04	-0.06	0.02	-0.06	0.04	-0.11	0.07

Note: Totals may be of because of rounding.

**Table 4.25:** Belowground live and dead carbon (C) stocks on forest land by ownership, 2009-2018. Compare to Table 4.12, Appendix 2, Tables C28, C36 and C45.

	Public						Private				All ownerships	
	National Forest		Other Federal		State and local govt.		Corporate		Non Corporate			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C</i>											
<b>Live tree roots</b>	105.27	1.72	16.45	1.07	10.53	1.18	35.32	1.27	36.12	1.34	203.69	2.62
<b>Dead tree roots</b>	15.44	0.53	2.35	0.24	0.56	0.07	2.41	0.18	1.90	0.13	22.65	0.62
<b>Understory roots</b>	1.78	0.03	0.46	0.02	0.16	0.01	0.70	0.02	1.07	0.03	4.16	0.04

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

**Table 4.26:** Belowground live and dead average annual carbon flux (CO<sub>2</sub>e) on forest land by ownership, 2001-2008 to 2011-2018. Compare to table 4.3 and Appendix 2, Table B1.

	Public						Private				Total	
	National forest		Other federal		State and local govt.		Corporate		Non Corporate			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons CO<sub>2</sub> Equivalent</i>											
<b>Live tree roots</b>	0.42	0.28	0.08	0.11	0.34	0.07	1.06	0.24	1.35	0.12	3.26	0.41
<b>Dead tree roots</b>	0.99	0.19	-0.01	0.09	-0.01	0.03	-0.01	0.05	0.16	0.05	1.12	0.23
<b>Understory roots</b>	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	-0.01	0.01

Note: Totals may be of because of rounding

**Table 4.27:** Aboveground dead wood carbon (C) stocks on forest land by ownership, 2009-2018. Compare to Table 4.12, Appendix 2, Tables C10 and C62.

	Public						Private				All ownerships	
	National Forest		Other Federal		State and local govt.		Corporate		Non Corporate			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>											
<b>Standing dead trees</b>	67.23	2.39	10.75	1.26	2.07	0.28	9.31	0.70	7.73	0.56	97.09	2.83
<b>Down woody material</b>	59.48	1.46	10.71	0.81	4.08	0.43	25.30	1.13	16.36	0.85	115.94	2.09

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

**Table 4.28:** Aboveground dead wood average annual carbon flux (CO<sub>2</sub>e) on forest land by ownership, 2001-2008 to 2011-2018. Compare to table 4.3 and Appendix 2, Table B1.

	Public						Private				Total	
	National forest		Other federal		State and local govt.		Corporate		Non Corporate			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons CO<sub>2</sub> Equivalent</i>											
<b>Standing dead trees</b>	6.05	0.91	0.30	0.51	-0.03	0.12	0.39	0.20	0.99	0.22	7.69	1.09
<b>Down woody material</b>	-0.19	0.59	0.37	0.28	0.11	0.15	-1.55	0.44	0.27	0.29	-0.98	0.85

Note: Totals may be of because of rounding

**Table 4.29:** Soil organic carbon and forest floor (C) stocks on forest land by ownership, 2009-2018. Compare to Table 4.12, Appendix 2, Table C53 and C71.

	Public						Private				All ownerships	
	National Forest		Other Federal		State and local govt.		Corporate		Non Corporate			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>											
<b>Forest Floor</b>	75.06	0.76	12.05	0.47	3.66	0.22	25.29	0.71	20.39	0.58	136.46	1.02
<b>Soil organic carbon</b>	701.52	5.86	128.96	4.16	45.72	2.53	239.88	6.10	283.88	6.73	1,399.95	8.86

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

**Table 4.30:** Soil organic carbon and forest floor average annual flux (CO<sub>2</sub>e) on forest land by ownership, 2001-2008 to 2011-2018. Compare to table 4.3 and Appendix 2, Table B1.

	Public						Private				Total	
	National forest		Other federal		State and local govt.		Corporate		Non Corporate			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons CO<sub>2</sub> Equivalent</i>											
<b>Forest Floor</b>	-0.08	0.12	-0.07	0.06	0.00	0.01	-0.01	0.09	0.16	0.05	0.00	0.17
<b>Soil organic carbon</b>	-0.62	0.22	-0.07	0.08	-0.04	0.05	0.17	0.23	0.09	0.10	-0.47	0.35

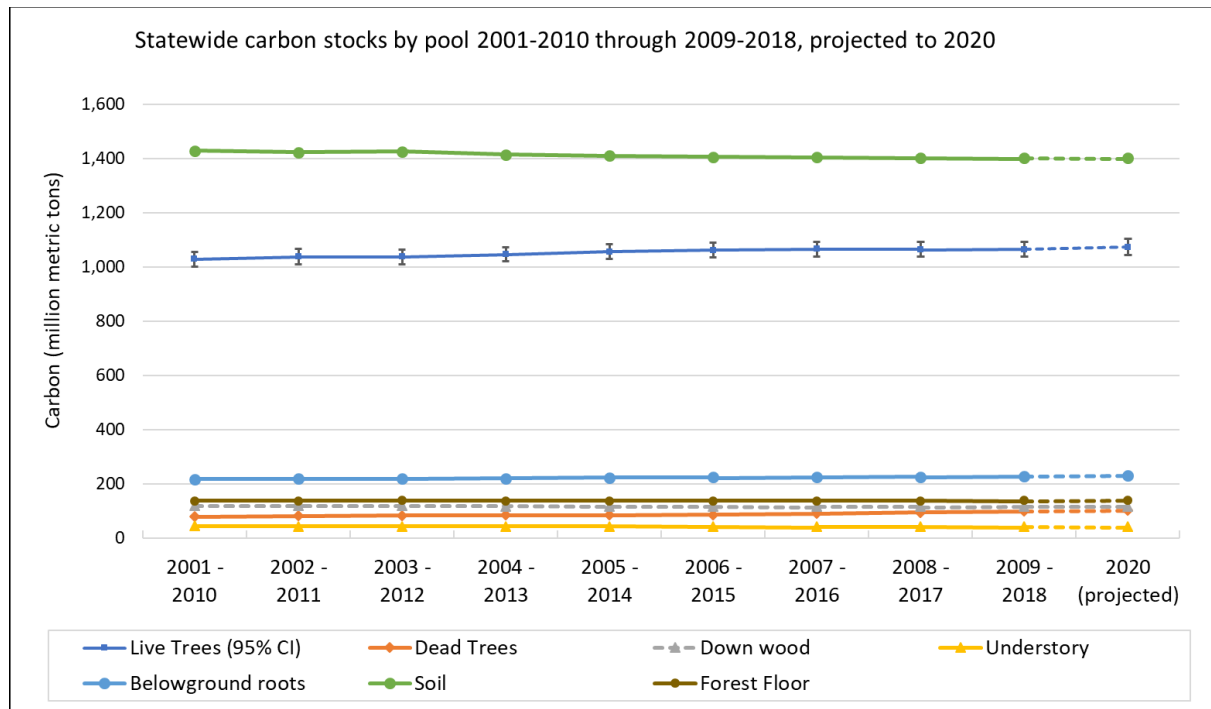
Note: Totals may be of because of rounding



**Table 4.31:** Forest carbon pools by 10-year inventory period, 2001-2010 through 2009-2018. Compare to Appendix 2, C tables.

	Live Trees		Dead Trees		Down wood		Understory		Belowground roots		Forest Floor		Soil		Total carbon	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>															
<b>2001 - 2010</b>	1,028.30	14.25	79.02	2.35	119.13	1.97	43.75	0.43	216.51	2.82	137.15	1.02	1,428.77	8.80	3,052.62	23.60
<b>2002 - 2011</b>	1,037.66	14.32	81.41	2.38	118.87	2.02	43.39	0.43	218.80	2.84	136.78	1.02	1,422.14	8.80	3,059.06	23.73
<b>2003 - 2012</b>	1,037.24	13.64	83.23	2.41	117.89	1.98	43.08	0.44	218.65	2.72	138.09	1.02	1,425.14	8.95	3,063.31	22.77
<b>2004 - 2013</b>	1,046.26	13.74	83.51	2.42	116.51	1.96	42.43	0.44	220.42	2.73	137.52	1.02	1,413.75	8.91	3,060.41	22.86
<b>2005 - 2014</b>	1,055.90	13.70	84.19	2.44	115.82	1.97	42.19	0.43	222.40	2.74	137.44	1.02	1,410.33	8.91	3,068.27	22.89
<b>2006 - 2015</b>	1,061.86	13.77	86.19	2.46	116.07	2.01	42.02	0.43	223.91	2.75	137.38	1.02	1,405.65	8.86	3,073.08	22.95
<b>2007 - 2016</b>	1,065.33	13.92	88.61	2.53	115.30	2.01	41.94	0.43	224.73	2.77	137.21	1.02	1,403.71	8.86	3,076.83	23.08
<b>2008 - 2017</b>	1,064.17	13.97	93.59	2.78	115.41	2.04	41.79	0.43	225.49	2.77	136.72	1.02	1,400.66	8.84	3,077.83	23.14
<b>2009 - 2018</b>	1,064.78	13.95	97.09	2.83	115.94	2.09	41.64	0.42	226.35	2.77	136.46	1.02	1,399.95	8.86	3,082.20	23.17

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)



**Figure 4.15.** California carbon stocks by source pool, 2001-2010 through 2009-2018 with projection to 2020. Error bars represent the 95% confidence interval of live tree carbon stocks to 2020.

**Table 4.32:** Live tree carbon stocks by ownership and land status, 2001-2010 through 2009-2018. Compare to Appendix 2, C tables.

	Unreserved timberland						Reserved forest land		All forest land	
	Private - corporate		Private - noncorporate		National forests		National forests		All ownerships	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>									
<b>2001 - 2010</b>	145.90	5.81	129.19	6.53	377.34	9.06	139.69	7.18	1,028.30	14.25
<b>2002 - 2011</b>	143.20	5.79	131.34	6.62	383.88	9.20	141.39	7.27	1,037.66	14.32
<b>2003 - 2012</b>	143.01	5.62	134.16	6.72	379.83	8.04	147.61	6.19	1,037.24	13.64
<b>2004 - 2013</b>	146.85	5.74	135.68	6.83	382.44	8.06	147.21	6.19	1,046.26	13.74
<b>2005 - 2014</b>	148.34	5.73	135.40	6.82	384.63	8.03	149.03	6.19	1,055.90	13.70
<b>2006 - 2015</b>	155.03	6.01	133.17	6.74	385.76	8.07	147.93	6.17	1,061.86	13.77
<b>2007 - 2016</b>	160.26	6.15	131.26	6.78	385.39	8.10	148.11	6.16	1,065.33	13.92
<b>2008 - 2017</b>	164.16	6.21	129.68	6.79	384.19	8.13	147.09	6.13	1,064.17	13.97
<b>2009 - 2018</b>	169.89	6.50	129.78	6.70	382.57	8.17	145.52	5.96	1,064.78	13.95

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

**Table 4.33:** Forest carbon stocks by ownership and land status, 2001-2010 through 2009-2018. Compare to Appendix C tables.

	Unreserved timberland						Reserved forest land		All forest land	
	Private - corporate		Private - noncorporate		National forests		National forests		All ownerships	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million metric tons C<sup>1</sup></i>									
<b>2001 - 2010</b>	428.33	13.47	328.91	13.68	1,007.14	17.94	397.30	15.60	3,052.62	23.60
<b>2002 - 2011</b>	420.49	13.50	329.10	13.82	1,020.95	18.33	400.57	15.74	3,059.06	23.73
<b>2003 - 2012</b>	421.38	13.20	334.77	13.92	1,016.71	15.87	421.09	11.80	3,063.31	22.77
<b>2004 - 2013</b>	426.39	13.32	332.36	13.96	1,017.35	15.89	421.76	11.71	3,060.41	22.86
<b>2005 - 2014</b>	429.22	13.31	327.40	13.87	1,020.42	15.81	424.99	11.66	3,068.27	22.89
<b>2006 - 2015</b>	441.75	13.53	320.95	13.77	1,021.85	15.85	425.86	11.66	3,073.08	22.95
<b>2007 - 2016</b>	451.17	13.65	312.90	13.71	1,021.18	15.88	429.73	11.62	3,076.83	23.08
<b>2008 - 2017</b>	459.61	13.67	306.40	13.69	1,020.65	15.94	429.26	11.64	3,077.83	23.14
<b>2009 - 2018</b>	469.87	13.91	305.71	13.66	1,019.25	15.98	429.35	11.62	3,082.20	23.17

<sup>1</sup>Multiply carbon (C) by 3.667 to calculate equivalent carbon dioxide (CO<sub>2</sub>e)

### 3 Harvested wood product carbon results: Carbon flux, stock, and trends, select table and figure updates

**Table 5.2.** Conversion factors used in this analysis.

Conversion	Units	Conversion location
6.0200	BF per CF, timber harvest 1952 – 1979	
5.3500	BF per CF, timber harvest 1980 – 1989	
4.7170	BF per CF, timber harvest 1990 – 2000	External
4.6213	BF per CF, timber harvest 2001 – 2006	
3.9594	BF per CF, timber harvest 2007 – 2012	
4.2857*	BF per CF, timber harvest 2013-2018	
33 to 42	lbs per cubic foot, primary products	Internal
2204.6	lbs per metric ton	Internal
0.95 to 1.0	Metric ton wood fiber per metric ton product	Internal
0.5	Metric ton carbon per dry metric ton wood fiber	Internal
0.711 to 0.919	MT C per CCF, primary products <sup>1</sup>	Internal

<sup>1</sup>See Appendix 3, Table 3.9 for CCF to MT C conversions for all primary products.

*\*Note BF per CF value for 2013-2018 updated from previous report value of 3.9594 based on information from the most recent 2016 timber products output report (Marcille, et al. in press).*

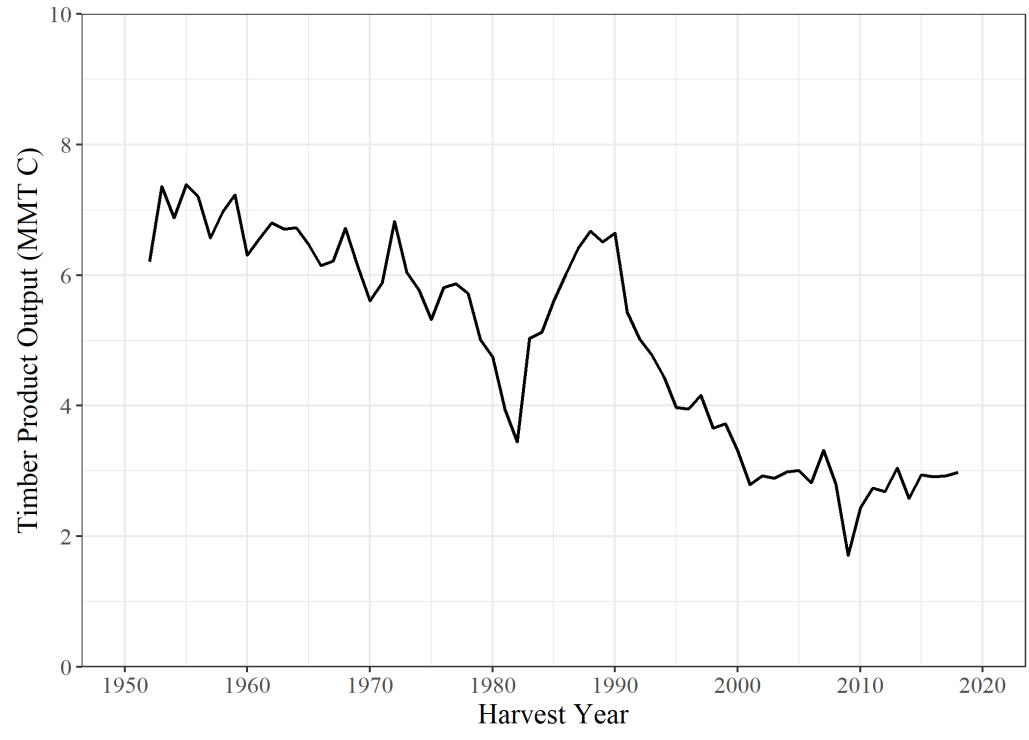
**Table 6.1.** Annual timber product output in California for selected years using the IPCC production approach. This table shows carbon removed from the ecosystem by harvesting.

*\* Please note that all TPO numbers in this table are updated from table 6.1 in the 2017 report due to revisions in end-use ratios, board foot to cubic foot conversions for 2013-2018, and model code to correct previous errors that resulted in approximately 1% of harvested carbon to disappear from HWP pools. Additionally, cumulative TPO column has been added. There are no changes to harvest volumes except for a typo in the 2017 harvest volume that was 275 MBF scribner higher in the previous report.*

<b>Harvest year</b>	<b>Harvest (MBF Scribner)</b>	<b>Timber product output (MT C)</b>	<b>Cumulative TPO (MT C)</b>
1952	5,057,000	6,210,832	6,210,832
1960	5,137,000	6,309,085	62,107,091
1970	4,566,000	5,607,171	126,213,538
1980	3,441,000	4,748,834	183,209,323
1990	4,251,000	6,646,425	238,614,445
1995	2,535,000	3,970,456	262,263,008
2000	2,112,000	3,307,930	281,069,030
2001	1,751,800	2,788,119	283,857,149
2002	1,838,753	2,926,511	286,783,660
2003	1,812,713	2,885,066	289,668,726
2004	1,875,287	2,984,658	292,653,384
2005	1,889,454	3,007,205	295,660,589
2006	1,774,600	2,824,407	298,484,996
2007	1,776,300	3,318,111	301,803,107
2008	1,497,513	2,797,340	304,600,447
2009	915,095	1,709,389	306,309,835
2010	1,302,764	2,433,550	308,743,386
2011	1,464,641	2,735,935	311,479,321
2012	1,437,180	2,684,638	314,163,959
2013	1,767,033	3,049,488	317,213,447
2014	1,494,437	2,579,050	319,792,497
2015	1,703,188	2,939,306	322,731,803
2016	1,687,376	2,912,018	325,643,822
2017	1,695,681	2,926,351	328,570,172
2018	1,724,957	2,976,874	331,547,047

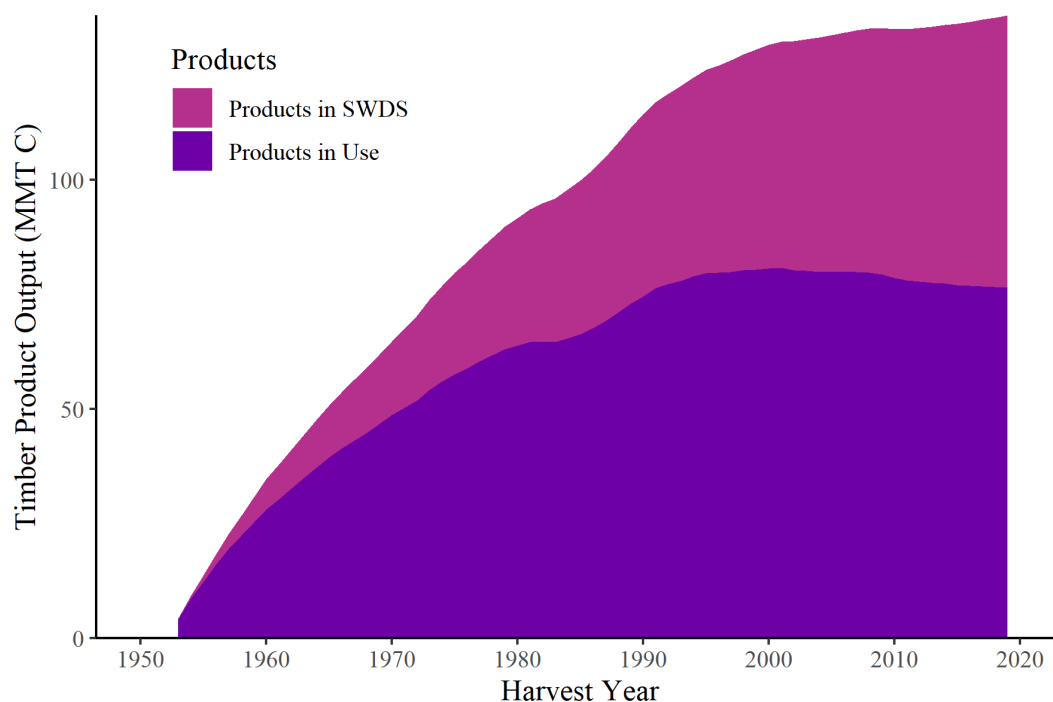
**Figure 6.1.** Annual timber product output in California, converted to metric tons carbon 1952 to 2018.

*\* Please note that this entire figure is updated from fig 6.1 in the 2017 report due to revisions in end-use ratios, board foot to cubic foot conversions for 2013-2018, and model code to correct previous errors that resulted in approximately 1% of harvested carbon to disappear from HWP pools.*



**Figure 6.2.** Cumulative total carbon stored in HWP manufactured from California timber using the IPCC production approach, 1952-2018. Carbon in HWP includes both products that are still in use and carbon stored at solid waste disposal sites (SWDS).

\* Please note that this entire figure is updated from fig 6.2 in the 2017 report report due to revisions in end-use ratios, board foot to cubic foot conversions for 2013-2018, and model code to correct previous errors that resulted in approximately 1% of harvested carbon to disappear from HWP pools.



**Table 6.2.** Cumulative disposition of California HWP C for selected years using the IPCC production approach. This table shows the fate of all carbon removed from the ecosystem by harvesting.

\* Please note that all numbers in this table are updated from table 6.2 in the 2017 report due to revisions in end-use ratios, board foot to cubic foot conversions for 2013-2018, and model code to correct previous errors that resulted in approximately 1% of harvested carbon to disappear from HWP pools.

Inventory year	Emitted with energy capture (metric ton CO <sub>2</sub> e) <sup>a</sup>	Emitted without energy capture (metric ton CO <sub>2</sub> e) <sup>a</sup>	Products in use (metric ton C)	SWDS (metric ton C) <sup>d</sup>	Total in HWP pool <sup>b</sup> (metric ton C)
1960	61,908,899	15,456,377	28,083,244	6,615,140	34,698,385
1970	132,479,288	69,192,814	49,549,702	16,055,183	65,604,885
1980	181,420,269	133,799,370	64,718,902	27,772,594	92,491,496
1990	237,574,946	190,415,212	75,520,876	39,722,556	115,243,431

Inventory year	Emitted with energy capture (metric ton CO <sub>2</sub> e) <sup>a</sup>	Emitted without energy capture (metric ton CO <sub>2</sub> e) <sup>a</sup>	Products in use (metric ton C)	SWDS (metric ton C) <sup>d</sup>	Total in HWP pool <sup>b</sup> (metric ton C)
1995	263,918,164	223,094,689	81,164,766	44,306,099	125,470,865
2000	284,541,705	253,869,331	82,130,799	48,790,927	130,921,726
2001	288,045,882	259,808,778	82,241,234	49,412,888	131,654,122
2002	291,831,032	265,641,053	81,819,797	49,999,510	131,819,307
2003	295,804,063	271,249,385	81,545,276	50,587,444	132,132,719
2004	299,720,828	276,741,695	81,314,720	51,136,954	132,451,674
2005	303,772,799	282,050,821	81,201,884	51,681,421	132,883,306
2006	307,855,381	287,175,842	81,152,769	52,226,577	133,379,346
2007	311,689,795	292,114,144	81,040,800	52,770,394	133,811,194
2008	318,040,086	296,867,228	80,791,611	53,309,501	134,101,112
2009	323,393,711	301,441,131	80,349,089	53,841,855	134,190,944
2010	326,665,185	305,825,332	79,462,483	54,349,938	133,812,421
2011	331,322,580	310,071,852	78,946,397	54,871,235	133,817,631
2012	336,558,687	314,192,400	78,598,005	55,403,746	134,001,752
2013	341,696,621	318,193,150	78,252,143	55,941,878	134,194,021
2014	347,532,813	322,097,173	78,090,983	56,496,104	134,587,087
2015	352,468,670	325,894,689	77,735,969	57,048,339	134,784,308
2016	358,093,994	329,612,449	77,560,493	57,615,008	135,175,501
2017	363,667,094	333,252,273	77,385,155	58,189,749	135,574,903
2018	369,267,624	336,821,957	77,227,292	58,772,995	136,000,287
2019 <sup>c</sup>	374,964,846	340,328,971	77,101,416	59,365,498	136,466,914

<sup>a</sup> HWP-energy and HWP-without energy pools. HWP C emissions were converted to CO<sub>2</sub> equivalents at the request of the California Board of Forestry and Fire Protection. Multiply carbon (C) by 44/12 to calculate equivalent carbon dioxide (CO<sub>2</sub>e).

<sup>b</sup> Sum of products in use (HWP-use) and SWDS (HWP-SWDS).

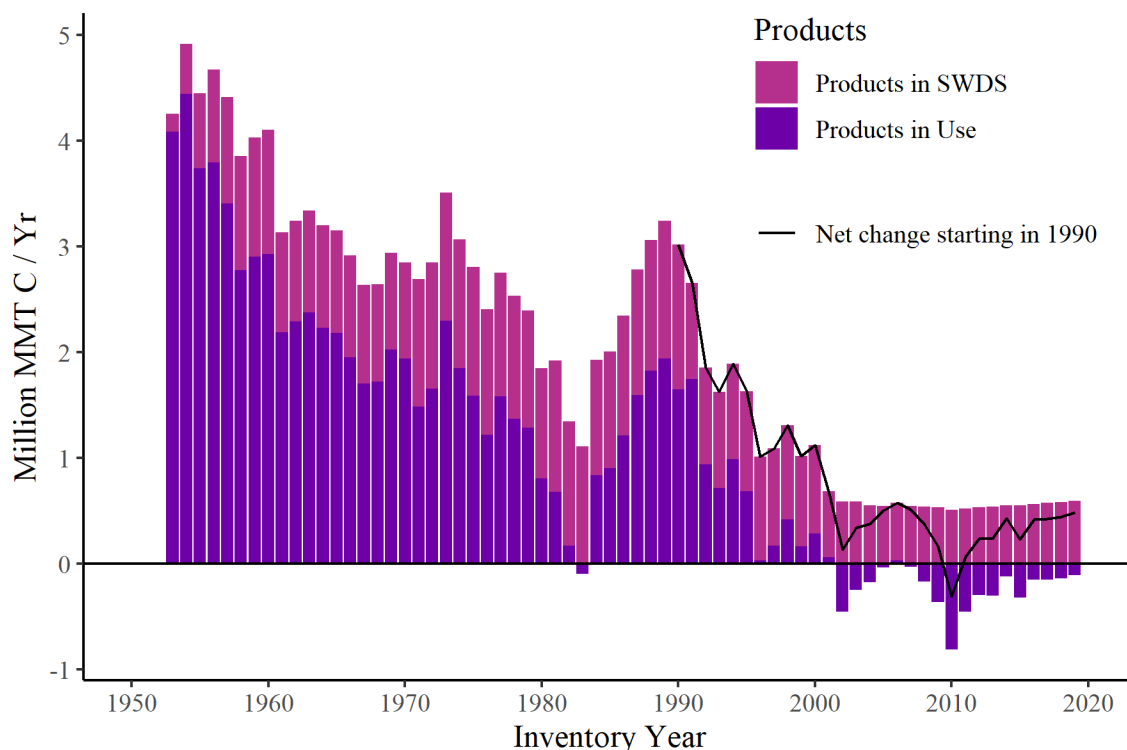
<sup>c</sup> Although no harvest records are entered for 2019, the cumulative dispositions from prior year harvests are estimated in 2019. Note that HWP storage and emissions as a result of the 2018 harvest are reported by the model in 2019.

<sup>d</sup> Note: previous reports did not move harvested carbon to SWDS pool until 2 years following harvest, rather than 1 year following harvest in this report. Lag times built into the original model were modified to allow for better quality assurance of calculations.



**Figure 1.3.** The flux in carbon stocks in HWP from the previous year using the IPCC production approach, 1952-2018. Negative values for products in use or at SWDS indicate that the carbon in those pools are shrinking, while positive values indicate that those pools are growing. The net stock change trend line is the sum of net flux for SWDS and products in use.

\* Please note that this entire figure is updated from fig 6.3 in the 2017 report due to revisions in end-use ratios, board foot to cubic foot conversions for 2013-2018, and model code to correct previous errors that resulted in approximately 1% of harvested carbon to disappear from HWP pools.



**Table 6.3.** Selected total stock change (net flux) in cumulative HWP stocks for products in SWDS, products in use, and total from harvests.

\* Please note that all numbers in this table are updated from table 6.3 in the 2017 report due to revisions in end-use ratios, board foot to cubic foot conversions for 2013-2018, and model code to correct previous errors that resulted in approximately 1% of harvested carbon to disappear from HWP pools.

Inventory year	Products in SWDS <sup>c</sup>	Products in use	Total stock change <sup>a</sup>
	MT CO <sub>2</sub> e per year		
1960	4,290,160	10,746,094	15,036,254
1970	3,329,595	7,195,258	10,524,852
1980	3,820,113	2,937,083	6,757,196

Inventory year	Products in SWDS <sup>c</sup>	Products in use	Total stock change <sup>a</sup>
	MT CO <sub>2</sub> e per year		
1990	5,007,956	6,112,797	11,120,752
1995	3,458,870	2,726,915	6,185,785
2000	3,071,331	816,276	3,887,607
2001	2,280,525	404,928	2,685,454
2002	2,150,948	-1,545,270	605,678
2003	2,155,755	-1,006,577	1,149,178
2004	2,014,873	-845,372	1,169,501
2005	1,996,379	-413,731	1,582,648
2006	1,998,905	-180,088	1,818,817
2007	1,993,996	-410,554	1,583,442
2008	1,976,724	-913,692	1,063,032
2009	1,951,966	-1,622,581	329,385
2010	1,862,972	-3,250,888	-1,387,917
2011	1,911,420	-1,892,317	19,103
2012	1,952,542	-1,277,434	675,107
2013	1,973,150	-1,268,161	704,989
2014	2,032,161	-590,921	1,441,240
2015	2,024,862	-1,301,717	723,145
2016	2,077,786	-643,413	1,434,372
2017	2,107,383	-642,907	1,464,476
2018	2,138,569	-578,831	1,559,739
2019 <sup>b</sup>	2,172,513	-461,544	1,710,969

<sup>a</sup> Net annual change (flux) in CO<sub>2</sub>e in products in use and SWDS. HWP C emissions were converted to CO<sub>2</sub> equivalents at the request of the California Board of Forestry and Fire Protection.

<sup>b</sup> Although no harvest records are entered for 2018, the annual net flux from the prior year harvest is estimated for 2018. Note that HWP storage and emissions as a result of the 2018 harvest are reported by the model in 2019.

<sup>c</sup> Note: previous reports did not move harvested carbon to SWDS pool until 2 years following harvest, rather than 1 year following harvest in this report. Lag times built into the original model were modified to allow for better quality assurance of calculations.

**Table 6.4.** Selected yearly carbon dispositions. These calculations quantify cumulative carbon storage from HWP products in use and in SWDS, and cumulative emissions with and without energy capture using the IPCC production approach.

*\* Please note that all numbers in this table are updated from table 6.4 in the 2017 report due to revisions in end-use ratios, board foot to cubic foot conversions for 2013-2018, and model code to correct previous errors that resulted in approximately 1% of harvested carbon to disappear from HWP pools.*

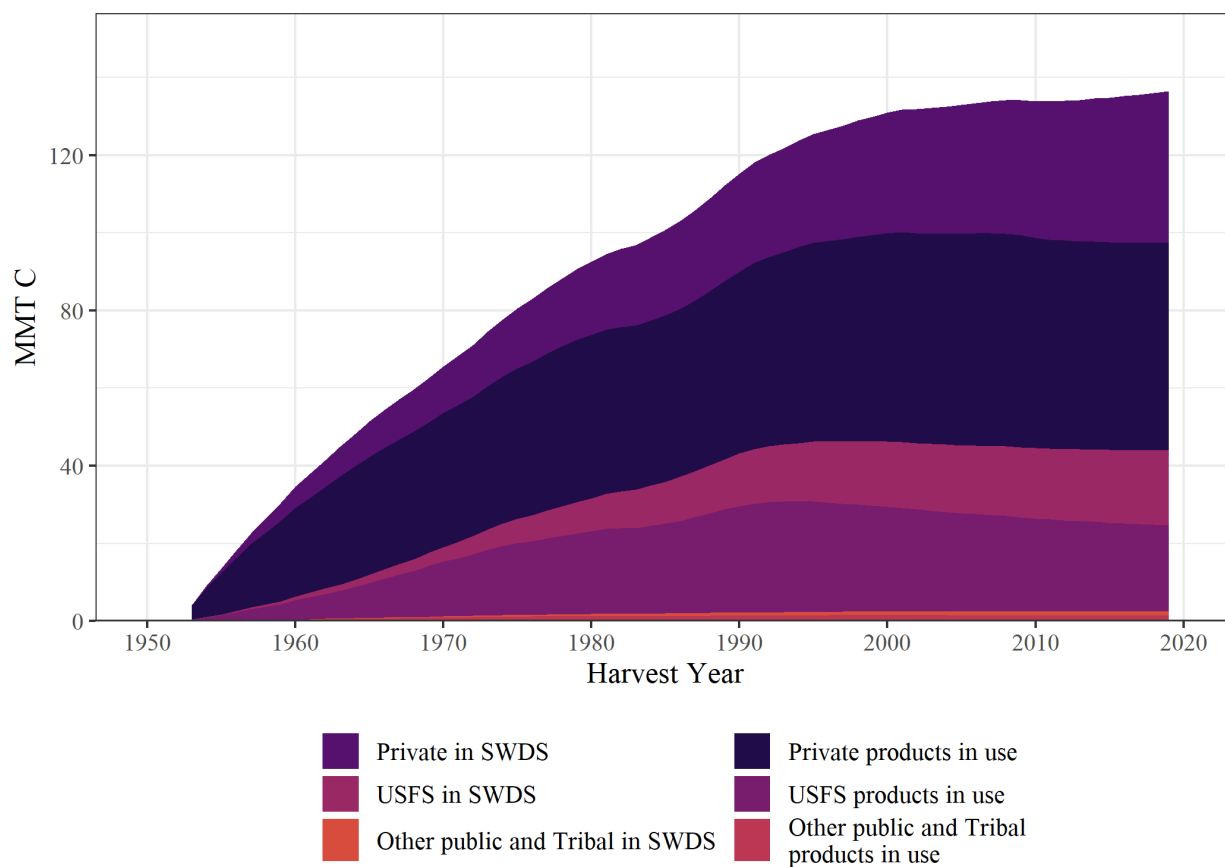
<b>Disposition category</b>	<b>2019<sup>a</sup></b>	<b>2018</b>	<b>2010</b>	<b>2000</b>	<b>1990</b>
<b>Cumulative storage (MT C per year)</b>					
<b>Products in use:</b>					
End-use products	76,451,864	76,562,297	78,497,630	80,691,997	74,553,052
Recovered products	649,552	664,995	964,853	1,438,802	967,823
<b>Products in SWDS<sup>b</sup>:</b>					
Carbon in landfills	55,127,602	54,368,379	48,260,459	39,346,446	24,496,449
Carbon in dumps	4,237,896	4,404,615	6,089,479	9,444,481	15,226,107
<b>Cumulative emissions (MT CO<sub>2</sub>e per year)</b>					
<b>Emissions w/ energy capture:</b>					
Emitted from fuelwood	374,964,846	369,267,624	326,665,185	284,541,705	237,574,946
Emitted from burning discarded products	0	0	0	0	0
<b>Emissions w/o energy capture:</b>					
Emitted from landfills	41,701,319	40,724,940	32,450,772	20,809,292	10,028,960
Emitted from dumps	132,390,899	131,667,330	124,573,335	110,949,275	88,112,588
Emitted from recovered products	49,965,172	49,394,565	43,892,985	32,440,875	20,321,488
Emitted from burning	104,993,710	104,206,504	97,750,401	87,701,254	71,952,176
Emitted from compost	11,277,872	10,828,619	7,157,838	1,968,635	0

<sup>a</sup> Although no harvest records are entered for 2019, the annual net flux from the prior year harvest is estimated for 2019. Note that HWP storage and emissions as a result of the 2018 harvest are reported by the model in 2019.

<sup>b</sup> Note: previous reports did not move harvested carbon to SWDS pool until 2 years following harvest, rather than 1 year following harvest in this report. Lag times built into the original model were modified to allow for better quality assurance of calculations.

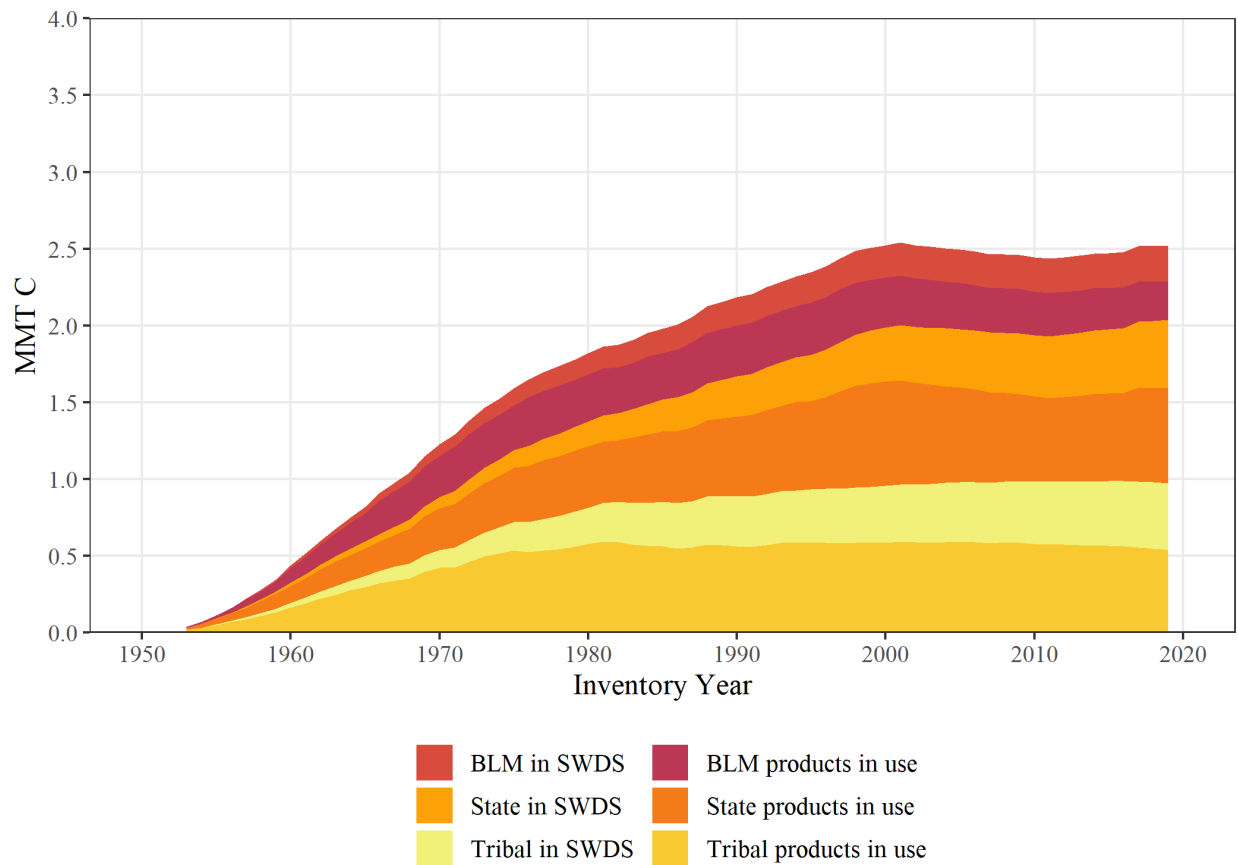
**Figure 6.4.** Cumulative total carbon stored in HWP, by owner group, manufactured from California timber using the IPCC production approach, 1952-2018. Carbon in HWP includes both products that are still in use and carbon stored at solid waste disposal sites (SWDS). “Other public and Tribal” includes BLM, State and other public, and Tribal lands.

*\* Please note that this entire figure is updated from fig 6.4 in the 2017 due to revisions in end-use ratios, board foot to cubic foot conversions for 2013-2018, and model code to correct previous errors that resulted in approximately 1% of harvested carbon to disappear from HWP pools.*



**Figure 6.5.** Cumulative total carbon stored in HWP, by State and other public, Tribal, and BLM owner groups, manufactured from California timber using the IPCC production approach, 1952-2018. Carbon in HWP includes both products that are still in use and carbon stored at solid waste disposal sites (SWDS).

*\* Please note that this entire figure is updated from fig 6.5 in the 2017 report due to revisions in end-use ratios, board foot to cubic foot conversions for 2013-2018, and model code to correct previous errors that resulted in approximately 1% of harvested carbon to disappear from HWP pools.*



**Table 6.5.** Average HWP C stocks by owner group for the 2018 California AB 1504 reporting period (2009 – 2018 harvests).

*Please note majority of changes in stock from the previous report primarily reflects revisions in end-use ratios, board foot to cubic foot conversions for 2013-2018, and model code to correct previous errors that resulted in approximately 1% of harvested carbon to disappear from HWP pools.*

Owner group	Products in use	SWDS <sup>a</sup>	Total
		MT C	
Private	53,581,254	37,055,878	90,637,133
USFS	23,046,183	18,682,536	41,728,719
BLM	269,162	227,835	496,997
State and other public	576,137	418,274	994,411
Tribal	563,298	420,926	984,223
All owners	78,036,034	56,805,449	134,841,483

<sup>a</sup> Note: previous reports did not move harvested carbon to SWDS pool until 2 years following harvest, rather than 1 year following harvest in this report. Lag times built into the original model were modified to allow for better quality assurance of calculations.

**Table 6.6.** Average of HWP C flux by owner group and pool for the 2018 California AB 1504 reporting periods.

*Please note majority of changes in stock from the previous report primarily reflects revisions in end-use ratios, board foot to cubic foot conversions for 2013-2018, and model code to correct previous errors that resulted in approximately 1% of harvested carbon to disappear from HWP pools.*

Owner group	Products in use	SWDS <sup>a</sup>	Total
		MT CO <sub>2</sub> e	
Private	-337,574	1,506,162	1,168,589
USFS	-878,934	445,877	-433,056
BLM	-12,400	3,715	-8,685
State and other public	-9,984	15,104	5,120
Tribal	-10,731	12,793	2,062
All owners	-1,249,622	1,983,651	734,029

<sup>a</sup> Note: previous reports did not move harvested carbon to SWDS pool until 2 years following harvest, rather than 1 year following harvest in this report. Lag times built into the original model were modified to allow for better quality assurance of calculations.

**Table 6.7.** Confidence intervals for cumulative carbon in HWP for selected years for harvests beginning in 1960 using the IPCC production. Means and confidence intervals were calculated using Monte Carlo simulation (5,000 iterations).

*\*Please note this table is not updated in this data update as model code revisions are still pending to fix narrower confidences intervals than expected based on the parameters set for Monte Carlo Uncertainty Analysis. Revisions are anticipated to be complete before release of the 2019 data update.*

**Table 6.8:** HWP carbon pools by 10-year inventory period, 2002-2011 through 2010-2019<sup>1</sup>.

	2002-2011	2003-2012	2004-2013	2005-2014	2006-2015	2007-2016	2008-2017	2009-2018	2010-2019
	<i>Metric tons C</i>								
<b>Private:</b>									
Products in use	54,317,779	54,282,178	54,226,807	54,163,199	54,066,147	53,954,890	53,825,623	53,696,555	53,581,254
SWDS	33,769,706	34,176,219	34,580,575	34,986,478	35,393,786	35,803,862	36,216,862	36,633,903	37,055,878
<i>Total</i>	<i>88,087,485</i>	<i>88,458,398</i>	<i>88,807,382</i>	<i>89,149,676</i>	<i>89,459,932</i>	<i>89,758,752</i>	<i>90,042,486</i>	<i>90,330,457</i>	<i>90,637,133</i>
<b>USFS:</b>									
Products in use	24,963,857	24,693,624	24,433,864	24,186,975	23,947,996	23,708,783	23,476,022	23,252,496	23,046,183
SWDS	17,709,712	17,835,125	17,957,885	18,079,582	18,200,626	18,320,942	18,441,059	18,561,370	18,682,536
<i>Total</i>	<i>42,673,569</i>	<i>42,528,749</i>	<i>42,391,749</i>	<i>42,266,557</i>	<i>42,148,621</i>	<i>42,029,725</i>	<i>41,917,081</i>	<i>41,813,866</i>	<i>41,728,719</i>
<b>BLM:</b>									
Products in use	296,216	292,450	288,840	285,497	282,266	279,230	276,337	272,865	269,162
SWDS	219,730	220,766	221,779	222,792	223,804	224,826	225,857	226,859	227,835
<i>Total</i>	<i>515,946</i>	<i>513,216</i>	<i>510,619</i>	<i>508,289</i>	<i>506,070</i>	<i>504,056</i>	<i>502,195</i>	<i>499,724</i>	<i>496,997</i>
<b>State and other public:</b>									
Products in use	597,920	586,727	577,896	571,851	567,411	564,652	566,791	570,629	576,137
SWDS	385,321	389,309	393,153	396,988	400,838	404,761	408,997	413,489	418,274
<i>Total</i>	<i>983,240</i>	<i>976,036</i>	<i>971,048</i>	<i>968,839</i>	<i>968,249</i>	<i>969,413</i>	<i>975,788</i>	<i>984,118</i>	<i>994,411</i>
<b>Tribal:</b>									
Products in use	586,711	585,325	583,584	581,095	578,206	575,242	572,460	568,257	563,298
SWDS	393,014	396,486	399,958	403,425	406,903	410,409	413,959	417,464	420,926
<i>Total</i>	<i>979,725</i>	<i>981,811</i>	<i>983,542</i>	<i>984,520</i>	<i>985,109</i>	<i>985,651</i>	<i>986,419</i>	<i>985,721</i>	<i>984,223</i>
<b>All owners:</b>									
Products in use	80,762,483	80,440,303	80,110,990	79,788,616	79,442,025	79,082,797	78,717,233	78,360,801	78,036,034
SWDS	52,477,483	53,017,907	53,553,350	54,089,265	54,625,957	55,164,800	55,706,735	56,253,085	56,805,449
<i>Total</i>	<i>133,239,966</i>	<i>133,458,210</i>	<i>133,664,340</i>	<i>133,877,882</i>	<i>134,067,982</i>	<i>134,247,597</i>	<i>134,423,968</i>	<i>134,613,886</i>	<i>134,841,483</i>

<sup>1</sup> Note that 2002-2011 through 2010-2019 correspond with FIA periods of 2001-2010 through 2009-2018; all time periods recalculated to reflect revisions in end-use ratios, board foot to cubic foot conversions for 2013-2018, and model code to correct previous errors that resulted in approximately 1% of harvested carbon to disappear from HWP pools. Previous reports also did not move harvested carbon to SWDS pool until 2 years following harvest, rather than 1 year following harvest in this report. Lag times built into the original model were modified to allow for better quality assurance of calculations.

## 4 Forest ecosystem and harvested wood product carbon flux and stock summary, select table and figure updates

**Table 7.1:** Statewide average annual net CO<sub>2</sub>e flux from forest ecosystem and harvested wood product pools in forest land remaining forest land for the 2018 CA AB 1504 reporting period.

**Table 7.1: Statewide average annual net CO<sub>2</sub>e flux from forest ecosystem and harvested wood product pools in forest land remaining forest land, 2018 reporting period**

	Net flux	
	Total	SE
	<i>million metric tons CO<sub>2</sub> equivalent</i>	
<b>Aboveground live<sup>1</sup></b>	15.6	2.1
<b>Aboveground dead<sup>2</sup></b>	6.7	1.4
<b>Belowground live<sup>3</sup></b>	3.2	0.4
<b>Belowground dead<sup>4</sup></b>	1.1	0.2
<b>NET FLUX</b>	26.7	2.2
<b>Soil Organic C</b>	-0.5	0.3
<b>TOTAL FOREST NET FLUX</b>	26.2	2.4
<b>Harvested Wood</b>		
Products in use	-1.2	--
Products at SWDS	2.0	--
<b>HWP NET FLUX</b>	0.7	--
<b>TOTAL NET FLUX</b>	26.9	2.4 <sup>5</sup>

<sup>1</sup>includes live trees, foliage, and understory veg



<sup>2</sup>includes standing and down dead wood, forest floor

<sup>3</sup>includes live tree and understory veg roots

<sup>4</sup>includes dead tree roots

<sup>5</sup>Excludes HWP C sampling error. There is no HWP C sampling error, just modeling error.

Totals may be off due to rounding

**Table 7.2:** Statewide average annual net CO<sub>2</sub>e flux from forest ecosystem and harvested wood product pools, including non-CO<sub>2</sub> emissions from forest fires in forest land remaining forest land (FF) and from changes due to forest land conversions (i.e., by forest land-use and land-use change) for the 2018 CA AB 1504 reporting period.

**Table 7.2: Statewide average annual net CO<sub>2</sub>e flux from forest ecosystem and harvested wood product pools, including non-CO<sub>2</sub> emissions from forest fires in forest land remaining forest land (FF) and from changes due to forest land conversions (i.e., by forest land-use and land-use change) for the 2018 CA AB 1504 reporting period.**

<u>Land-use category</u>	Net flux	
	Total	SE <sup>1</sup>
<i>million metric tons CO<sub>2</sub> equivalent</i>		
<b>Forest land remaining forest land (FF)</b>		
<b>Forest ecosystem</b>		
Changes in forest ecosystem carbon	26.2	2.4
Non-CO <sub>2</sub> emissions from forest fires	-0.6	0.0
<b>Harvested Wood</b>		
Changes in HWP carbon	0.7	
<b>NET FLUX</b>	<b>26.3</b>	<b>2.4</b>
<b>Forest land conversions (LF)</b>		
Changes in forest carbon, forest to non-forest	-2.9	0.4
Changes in forest carbon, non-forest to forest	1.4	0.2
<b>TOTAL NET FLUX (LF)</b>	<b>-1.5</b>	<b>0.5</b>
<b>TOTAL NET FLUX (FF &amp; LF)</b>	<b>24.9</b>	<b>2.4</b>

<sup>1</sup>Excludes HWP C sampling error. There is no HWP C sampling error, just modeling error

Totals may be off due to rounding

**Table 7.3.** Statewide average carbon stock for the 2018 CA AB 1504 reporting period.

<b><i>Carbon pool</i></b>	<b><i>Stock (MMT C)</i></b>
<b>Forest Ecosystem<sup>1</sup></b>	3,082.2
<b>Harvested wood product<sup>2</sup></b>	134.8
<b>Total carbon stock</b>	3,217.0

<sup>1</sup>For a complete breakdown of carbon stocks in the forest ecosystem pools, refer to table 4.12a

<sup>2</sup>For a complete breakdown of HWP C pools, refer to table 6.5

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[http://bof.fire.ca.gov/board\\_committees/ab\\_1504\\_process/ab\\_1504\\_presentations/financial\\_revised\\_ab1504\\_carbon\\_inventory\\_and\\_hwp\\_report\\_2006-2015\\_05\\_02\\_18.pdf](http://bof.fire.ca.gov/board_committees/ab_1504_process/ab_1504_presentations/financial_revised_ab1504_carbon_inventory_and_hwp_report_2006-2015_05_02_18.pdf)  
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- Christensen, G.A.; Gray, A.N.; Kuegler, O.; Tase, N.A.; Rosenberg, M.; Loeffler, D.; Anderson, N.; Stockmann, K.; Morgan, T.A. 2019. AB 1504 California Forest Ecosystem and Harvested Wood Product Carbon Inventory: 2017 Reporting Period. Final Report. U.S. Forest Service agreement no. 18-CO-11052021-214, 17-CO-11261979-086, California Department of Forestry and Fire Protection agreement no. 8CA04056 and 8CA03714 and the University of Montana. Sacramento, CA: California Department of Forestry and Fire Protection and California Board of Forestry and Fire Protection. 539 p.
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## **Appendix 1: Forest carbon stock by forest type and region**

# A1.0 All Ecoregions

California (ecoregions) average annual net forestland CO<sub>2</sub>e flux by pool and owner  
2001-2008 to 2011-2018

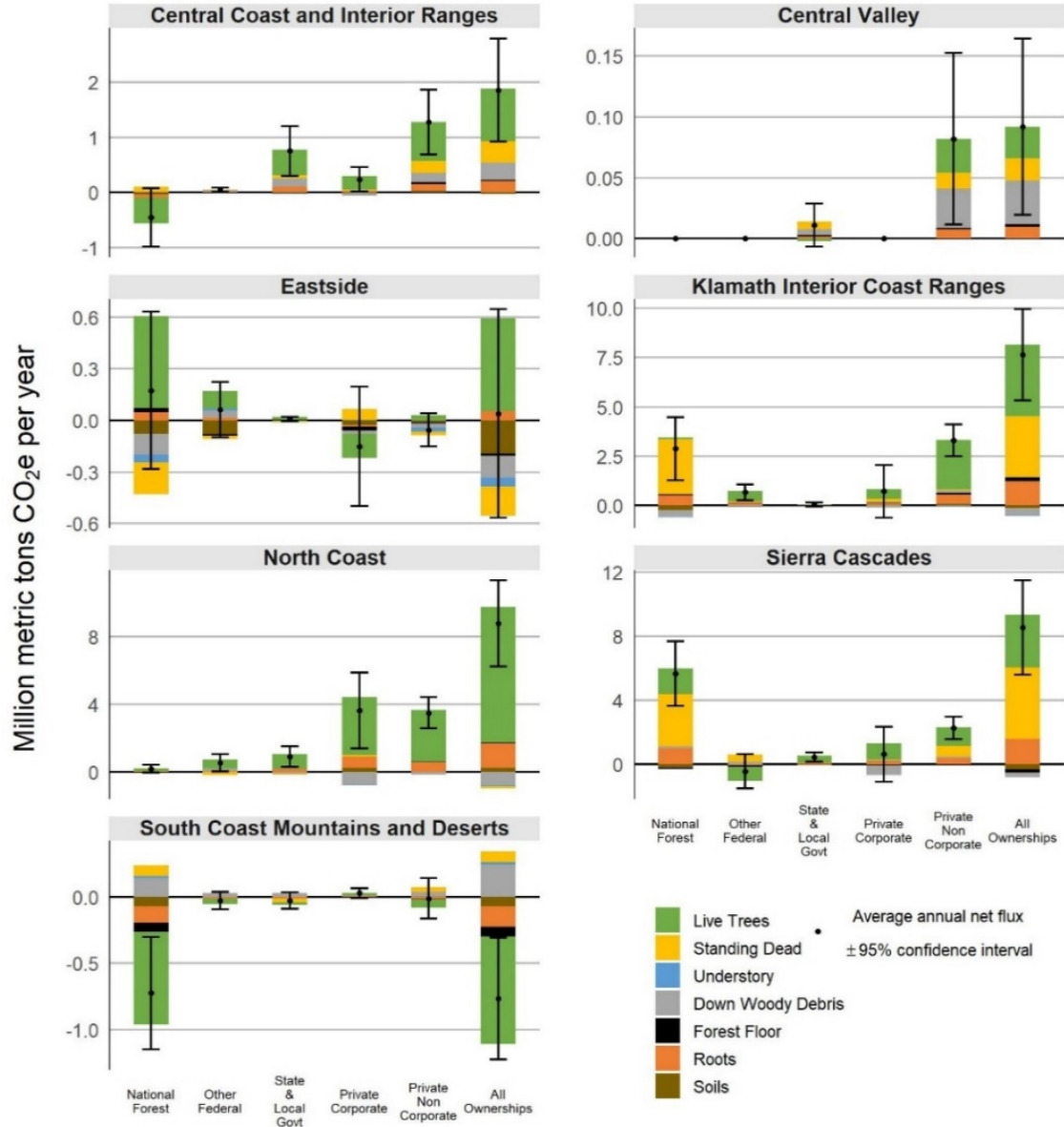


Figure A1.0: California Ecoregions average annual net forestland carbon flux by pool and ownership, 2001-2008 to 2011-2018 (MMT CO<sub>2</sub>e/yr). Estimates exclude emissions from land-use changes. Roots includes belowground live and dead tree roots. Understory includes aboveground and belowground understory vegetation. Error bars represent the 95% confidence interval of estimated net flux. Figure derived from Appendix 2, Tables B2-8. **\*Note – Y axis scale varies for each ecoregion; this is a new figure that was not included in previous reports.**

## A1.1 Central Coast and Interior Ranges

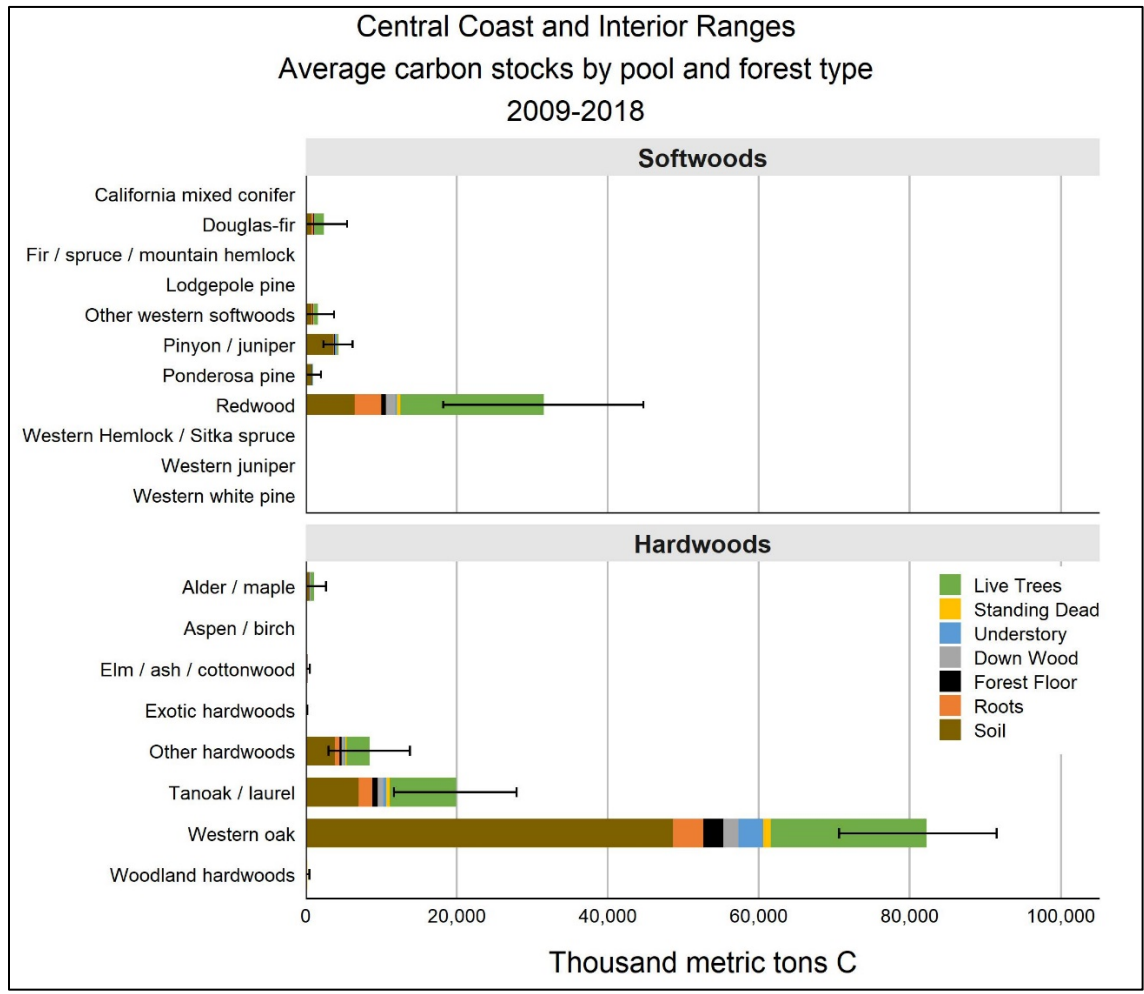


Figure A1.1.1. Central Coast and Interior Ranges: Average carbon stock by pool and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.1.1. *\*note: "non-stocked" not depicted in this figure.*

Table A 1.1.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2009-2018: Central Coast and Interior Ranges

	Live Trees		Dead Trees		Roots		Understory		Down wood		Forest Floor		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand metric tons C</i>																
<b>Softwoods:</b>																
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	1,267	813	18	15	271	179	21	12	69	50	78	49	725	454	2,446	1,546
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	193	57	10	4	40	11	279	58	30	19	127	32	3,702	852	4,299	992
Ponderosa pine	95	59	5	4	21	13	51	33	14	11	45	26	739	433	954	552
Redwood	18,992	4,229	481	147	3,518	778	197	41	1,253	376	620	126	6,481	1,313	31,478	6,776
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	570	449	50	38	148	116	18	13	40	29	64	40	754	463	1,642	1,083
<b>Total</b>	<b>21,117</b>	<b>4,326</b>	<b>564</b>	<b>152</b>	<b>3,998</b>	<b>806</b>	<b>567</b>	<b>81</b>	<b>1,406</b>	<b>381</b>	<b>933</b>	<b>146</b>	<b>12,401</b>	<b>1,746</b>	<b>40,819</b>	<b>7,117</b>
<b>Hardwoods:</b>																
Alder / maple	410	368	2	2	86	78	30	18	48	36	43	30	453	314	1,057	815
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	59	40	--	--	10	7	40	21	11	8	10	6	187	108	284	154
Tanoak / laurel	8,815	2,170	453	189	1,803	432	370	63	731	205	734	140	7,036	1,319	19,830	4,142
Western oak	20,674	1,689	980	212	4,009	317	3,267	196	1,973	242	2,672	176	48,666	3,117	81,042	5,320
Woodland hardwoods	8	8	21	21	5	4	25	18	8	8	8	5	134	96	190	135
Exotic hardwoods	--	--	--	--	--	--	17	15	--	--	5	4	75	65	85	73
Other hardwoods	3,081	1,316	146	71	645	275	182	46	309	135	242	69	3,862	1,079	8,408	2,765
<b>Total</b>	<b>33,047</b>	<b>2,982</b>	<b>1,601</b>	<b>294</b>	<b>6,558</b>	<b>590</b>	<b>3,931</b>	<b>216</b>	<b>3,081</b>	<b>347</b>	<b>3,712</b>	<b>233</b>	<b>60,414</b>	<b>3,531</b>	<b>110,894</b>	<b>7,173</b>
<b>Nonstocked</b>	<b>69</b>	<b>47</b>	<b>10</b>	<b>9</b>	<b>16</b>	<b>10</b>	<b>58</b>	<b>26</b>	<b>13</b>	<b>7</b>	<b>32</b>	<b>19</b>	<b>596</b>	<b>364</b>	<b>764</b>	<b>431</b>
<b>All forest types</b>	<b>54,233</b>	<b>5,153</b>	<b>2,175</b>	<b>330</b>	<b>10,572</b>	<b>977</b>	<b>4,556</b>	<b>233</b>	<b>4,499</b>	<b>520</b>	<b>4,678</b>	<b>272</b>	<b>73,411</b>	<b>3,917</b>	<b>152,477</b>	<b>9,921</b>

Note: Totals may be of because of rounding



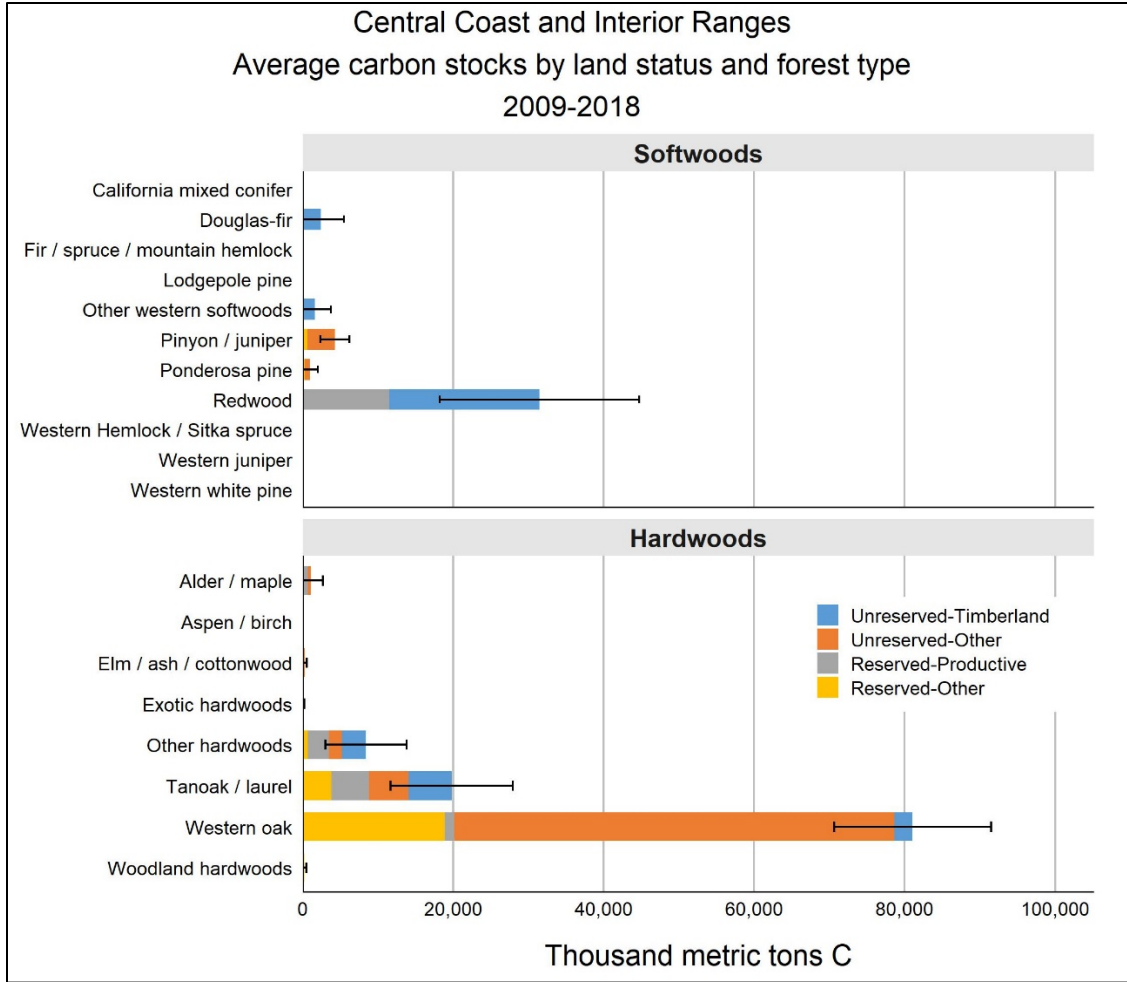


Figure A1.1.2. Central Coast and Interior Ranges: Average forest carbon stock by land status and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.1.2. *\*note: "non-stocked" not depicted in this figure.*

**Table A 1.1.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2009-2018: Central Coast and Interior Ranges**

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
<b>Softwoods:</b>										
California mixed conifer	--	--	--	--	--	--	--	--	--	--
Douglas-fir	2,446	1,546	--	--	--	--	--	--	2,446	1,546
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	3,669	920	--	--	631	372	4,299	992
Ponderosa pine	--	--	679	485	--	--	276	263	954	552
Redwood	19,974	4,955	--	--	11,504	4,439	--	--	31,478	6,776
Western juniper	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--
Other western softwoods	1,642	1,083	--	--	--	--	--	--	1,642	1,083
<b>Total</b>	<b>24,062</b>	<b>5,291</b>	<b>4,347</b>	<b>1,039</b>	<b>11,504</b>	<b>4,439</b>	<b>907</b>	<b>456</b>	<b>40,819</b>	<b>7,117</b>
<b>Hardwoods:</b>										
Alder / maple	--	--	374	295	683	760	--	--	1,057	815
Aspen / birch	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	256	149	--	--	27	37	284	154
Tanoak / laurel	5,720	2,286	5,288	1,599	5,011	2,683	3,811	1,491	19,830	4,142
Western oak	2,428	1,178	58,503	4,521	1,247	765	18,864	2,588	81,042	5,320
Woodland hardwoods	--	--	--	--	--	--	190	135	190	135
Exotic hardwoods	--	--	85	73	--	--	--	--	85	73
Other hardwoods	3,190	1,863	1,722	778	2,812	1,922	684	407	8,408	2,765
<b>Total</b>	<b>11,337</b>	<b>3,172</b>	<b>66,229</b>	<b>4,862</b>	<b>9,752</b>	<b>3,382</b>	<b>23,576</b>	<b>3,056</b>	<b>110,894</b>	<b>7,173</b>
<b>Nonstocked</b>	<b>186</b>	<b>187</b>	<b>96</b>	<b>82</b>	<b>402</b>	<b>373</b>	<b>80</b>	<b>70</b>	<b>764</b>	<b>431</b>
<b>All forest types</b>	<b>35,586</b>	<b>6,148</b>	<b>70,672</b>	<b>4,966</b>	<b>21,657</b>	<b>5,448</b>	<b>24,562</b>	<b>3,089</b>	<b>152,477</b>	<b>9,921</b>

Note: Totals may be off because of rounding

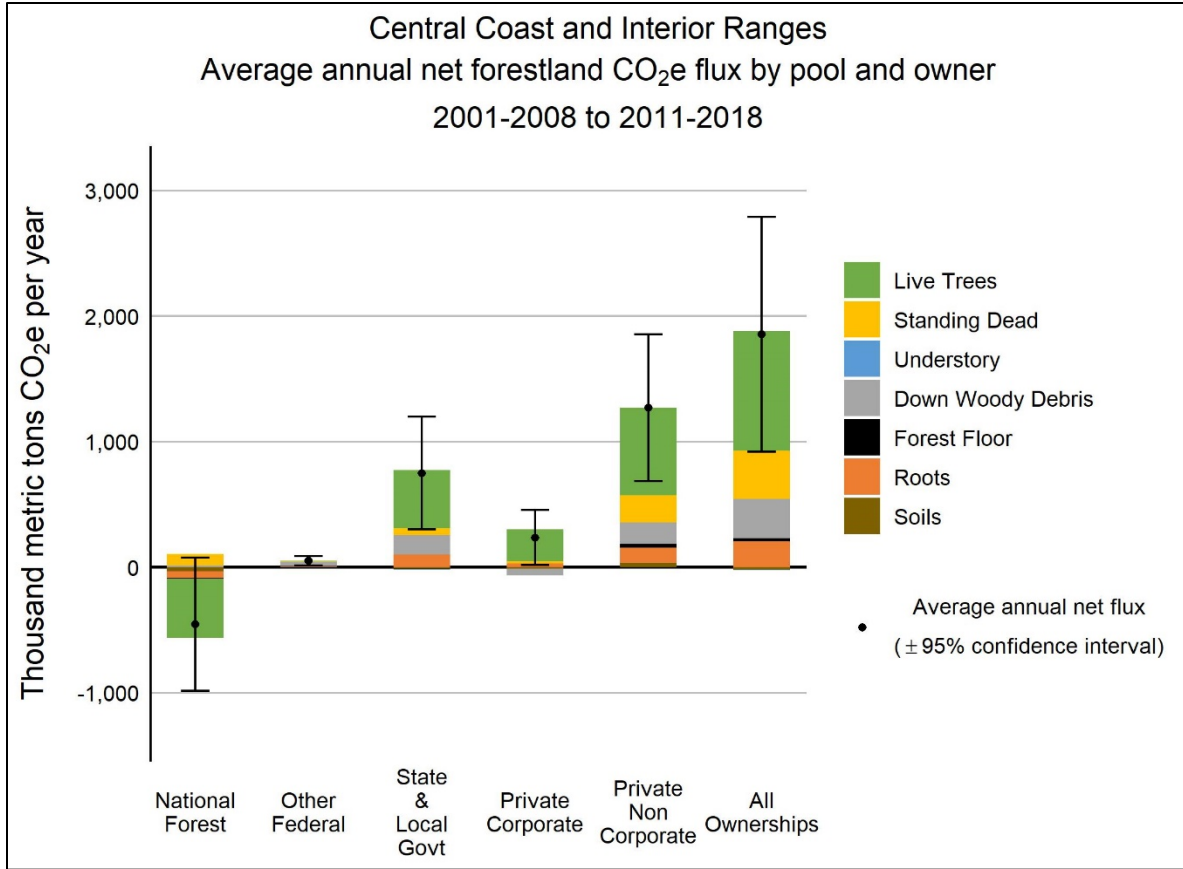


Figure A1.1.3. Central Coast and Interior Ranges average annual net forestland carbon flux by pool and ownership, 2001-2008 to 2011-2018 (MMT CO<sub>2</sub>e/yr). Estimates exclude emissions from land-use changes. Roots includes belowground live and dead tree roots. Understory includes aboveground and belowground understory vegetation. Error bars represent the 95% confidence interval of estimated net flux. Figure derived from Appendix 2, Table B2.

*\*Note: this is a new figure that was not included in previous reports.*

## A1.2 Central Valley

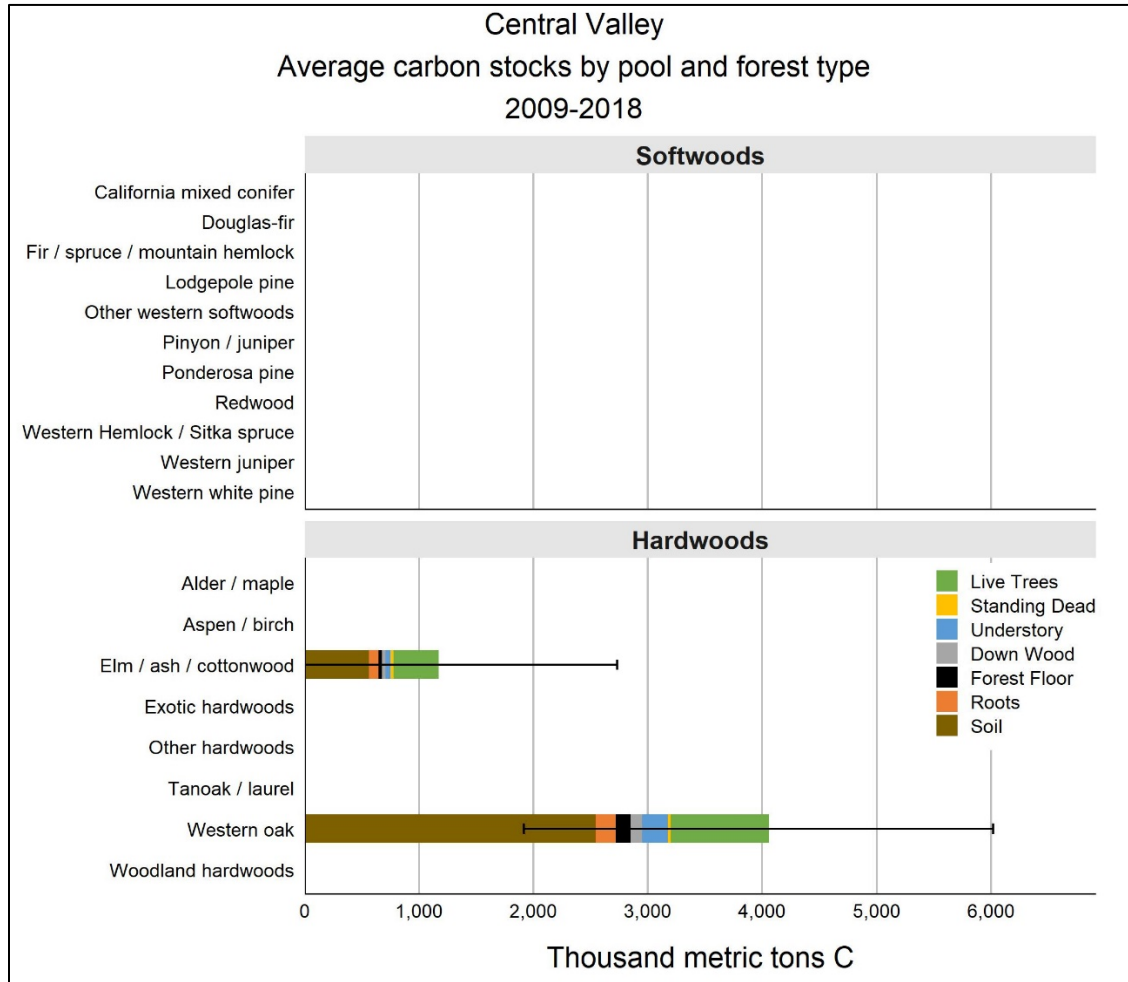


Figure A1.2.1. Central Valley: Average carbon stock by pool and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.2.1. *\*note: "non-stocked" not depicted in this figure.*

Table A 1.2.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2009-2018: Central Valley

	Live Trees		Dead Trees		Roots		Understory		Down wood		Forest Floor		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand metric tons C</i>																
<b>Softwoods:</b>																
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Hardwoods:</b>																
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	397	298	26	19	81	60	42	22	33	24	31	21	563	375	1,151	806
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	859	282	27	14	175	56	225	50	102	49	130	34	2,543	652	3,966	1,046
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	1,256	410	53	24	256	82	266	54	134	55	161	40	3,106	752	5,117	1,320
<b>Nonstocked</b>																
	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types</b>	1,256	410	53	24	256	82	266	54	134	55	161	40	3,106	752	5,117	1,320

Note: Totals may be of because of rounding

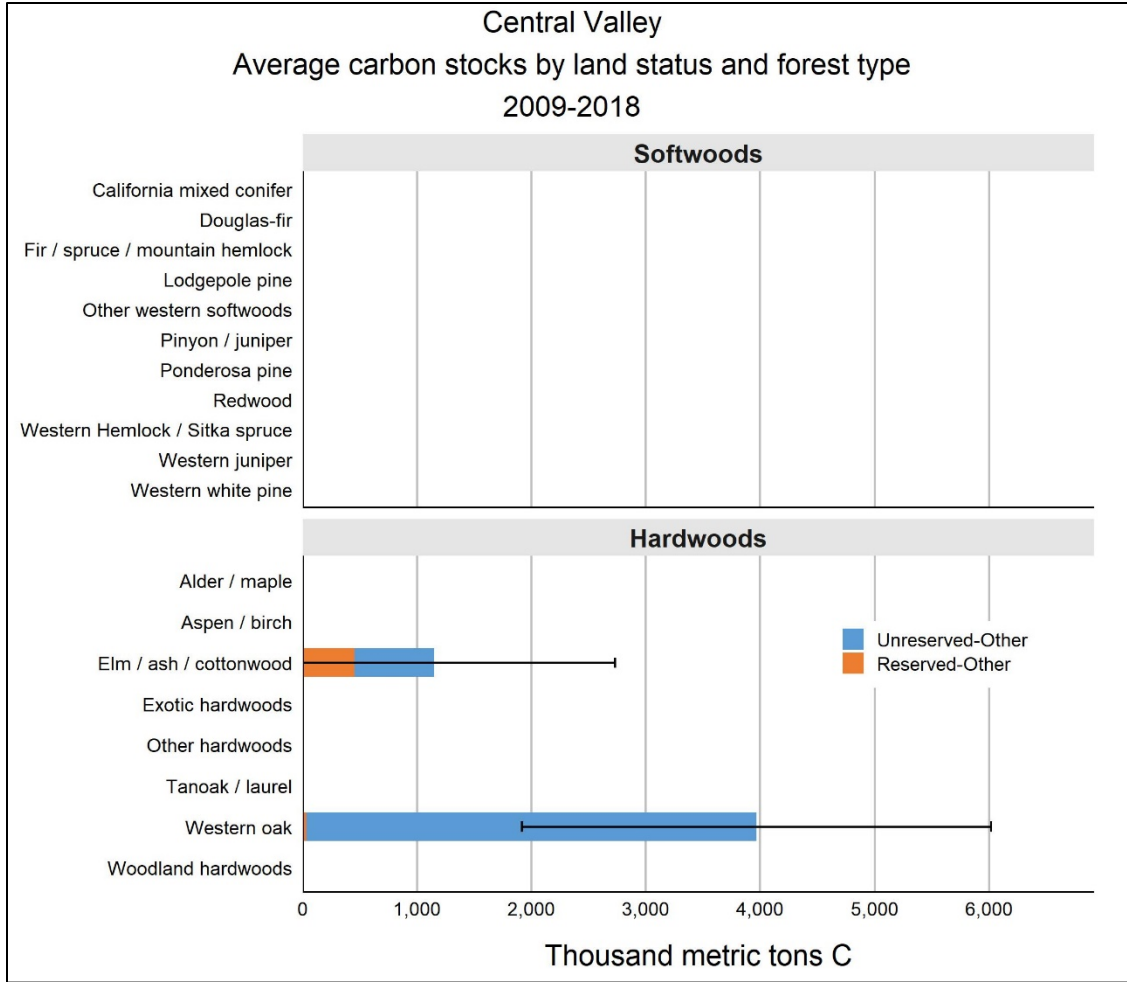


Figure A1.2.2. Central Valley: Average forest carbon stock by land status and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.2.2. *\*note: "non-stocked" not depicted in this figure.*

Table A 1.2.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2009-2018: Central Valley

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
<i>Thousand metric tons C</i>										
<b>Softwoods:</b>										
California mixed conifer			--	--			--	--	--	--
Douglas-fir			--	--			--	--	--	--
Fir / spruce / mountain hemlock			--	--			--	--	--	--
Western Hemlock / Sitka spruce			--	--			--	--	--	--
Lodgepole pine			--	--			--	--	--	--
Pinyon / juniper			--	--			--	--	--	--
Ponderosa pine			--	--			--	--	--	--
Redwood			--	--			--	--	--	--
Western juniper			--	--			--	--	--	--
Western white pine			--	--			--	--	--	--
Other western softwoods			--	--			--	--	--	--
Total			--	--			--	--	--	--
<b>Hardwoods:</b>										
Alder / maple			--	--			--	--	--	--
Aspen / birch			--	--			--	--	--	--
Elm / ash / cottonwood			700	675			451	441	1,151	806
Tanoak / laurel			--	--			--	--	--	--
Western oak			3,932	1,045			34	35	3,966	1,046
Woodland hardwoods			--	--			--	--	--	--
Exotic hardwoods			--	--			--	--	--	--
Other hardwoods			--	--			--	--	--	--
Total			4,632	1,244			485	442	5,117	1,320
<b>Nonstocked</b>										
			--	--			--	--	--	--
<b>All forest types</b>			4,632	1,244			485	442	5,117	1,320

Note: Totals may be of because of rounding

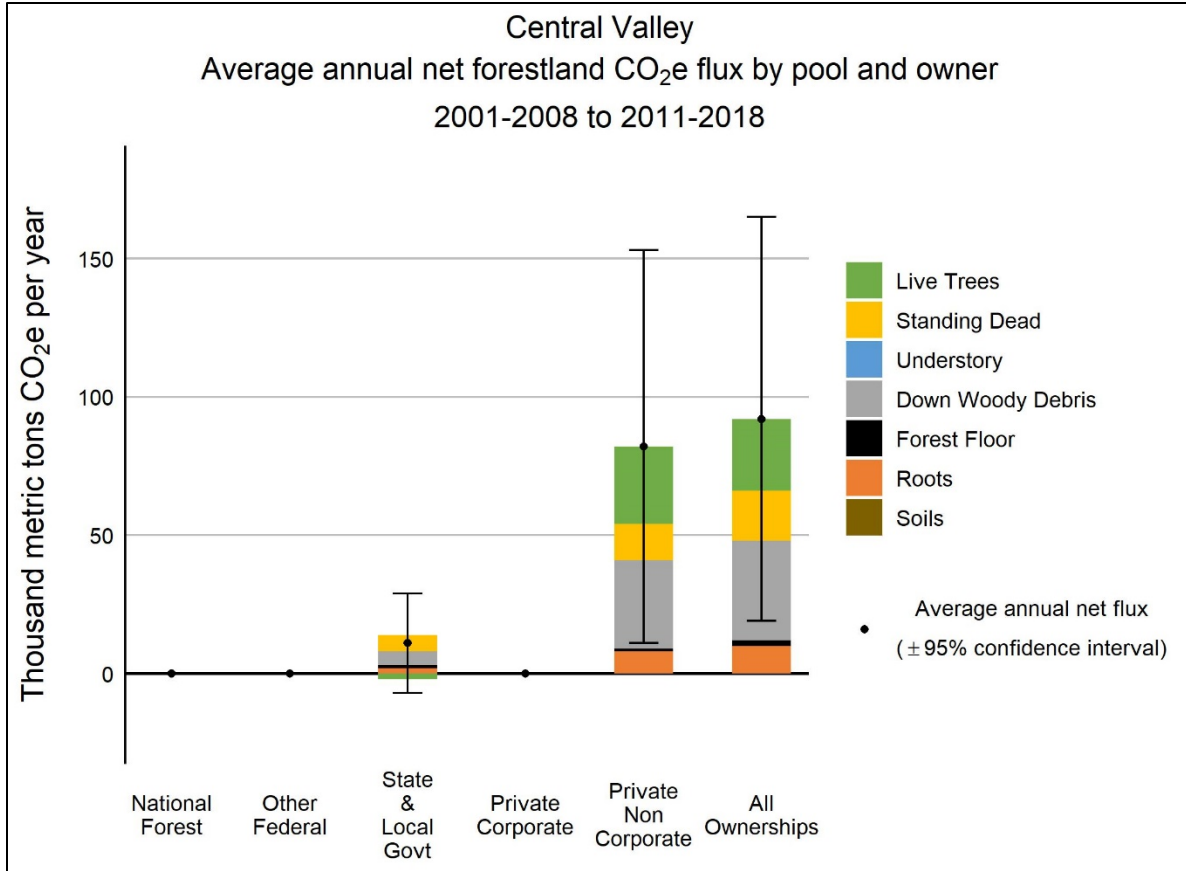


Figure A1.2.3. Central Valley average annual net forestland carbon flux by pool and ownership, 2001-2008 to 2011-2018 (MMT CO<sub>2</sub>e/yr). Estimates exclude emissions from land-use changes. Roots includes belowground live and dead tree roots. Understory includes aboveground and belowground understory vegetation. Error bars represent the 95% confidence interval of estimated net flux. Figure derived from Appendix 2, Table B3.

*\*Note: this is a new figure that was not included in previous reports.*



### A1.3 Eastside

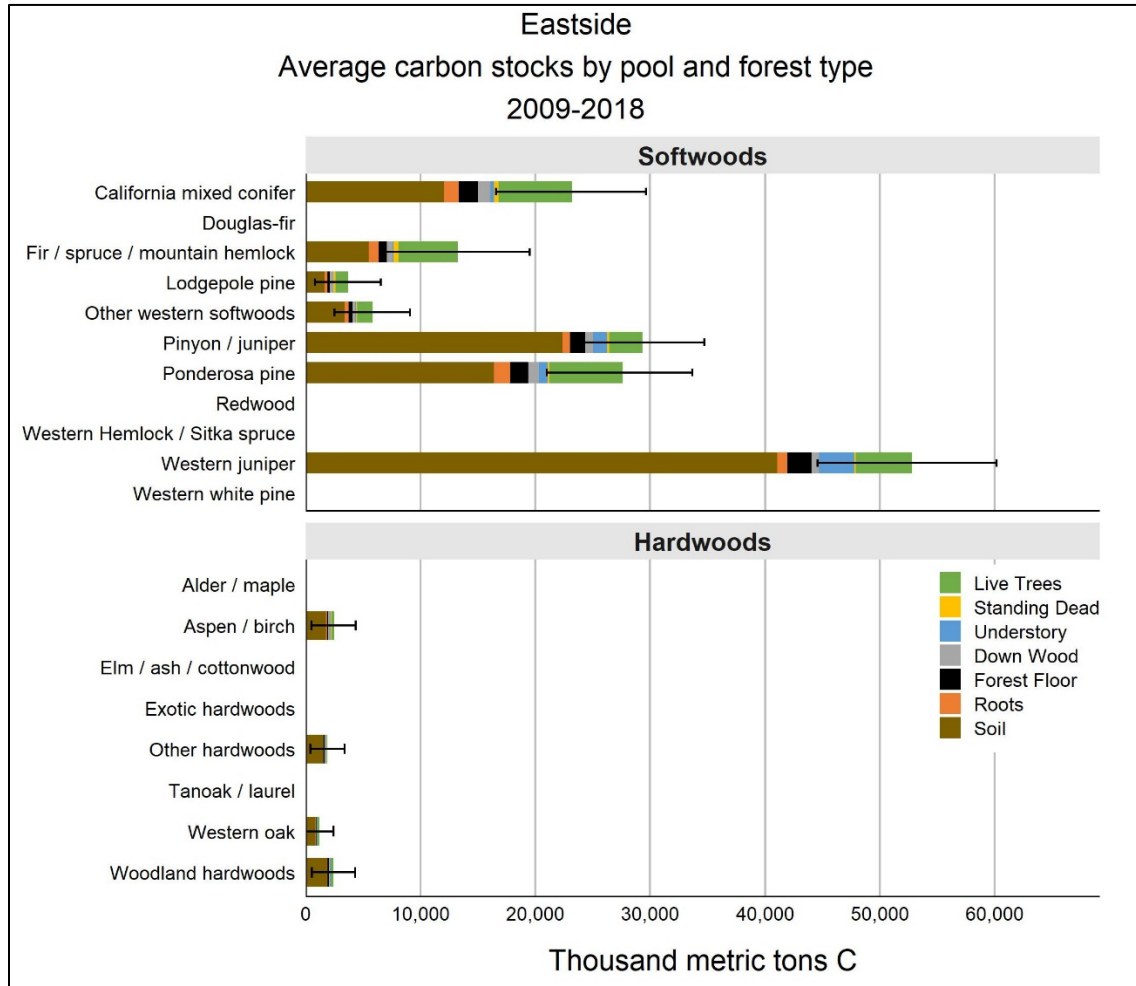


Figure A1.3.1. Eastside: Average carbon stock by pool and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.3.1. *\*note: "non-stocked" not depicted in this figure.*

Table A 1.3.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2009-2018: Eastside

	Live Trees		Dead Trees		Roots		Understory		Down wood		Forest Floor		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand metric tons C</i>																
<b>Softwoods:</b>																
California mixed conifer	6,400	977	409	100	1,282	196	325	48	1,083	201	1,650	241	12,057	1,723	23,111	3,326
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	5,155	1,393	435	136	913	247	113	26	465	133	680	160	5,471	1,257	13,204	3,207
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	1,120	462	154	121	272	120	56	26	258	114	196	78	1,642	638	3,669	1,463
Pinyon / juniper	2,922	351	151	30	651	77	1,250	116	705	111	1,289	136	22,368	2,132	29,218	2,795
Ponderosa pine	6,371	862	145	45	1,397	190	769	106	939	176	1,569	189	16,414	1,914	27,327	3,224
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	4,919	463	129	31	880	87	3,047	244	676	97	2,094	163	41,067	3,128	52,349	3,977
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	1,325	448	113	46	323	112	91	34	204	70	366	106	3,397	945	5,802	1,683
<b>Total</b>	<b>28,213</b>	<b>2,082</b>	<b>1,536</b>	<b>221</b>	<b>5,717</b>	<b>417</b>	<b>5,653</b>	<b>303</b>	<b>4,330</b>	<b>357</b>	<b>7,845</b>	<b>424</b>	<b>102,415</b>	<b>4,799</b>	<b>154,680</b>	<b>7,673</b>
<b>Hardwoods:</b>																
Alder / maple	--	--	--	--	--	--	12	13	--	--	--	--	2	2	2	2
Aspen / birch	211	121	55	38	53	28	95	34	141	80	112	46	1,780	725	2,417	986
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	157	95	8	7	39	23	63	31	44	27	46	24	843	460	1,172	632
Woodland hardwoods	198	95	41	19	45	21	82	34	68	38	136	56	1,854	736	2,411	963
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	83	54	17	14	17	12	80	30	81	39	100	40	1,538	615	1,897	767
<b>Total</b>	<b>650</b>	<b>189</b>	<b>122</b>	<b>45</b>	<b>155</b>	<b>44</b>	<b>333</b>	<b>66</b>	<b>335</b>	<b>100</b>	<b>394</b>	<b>86</b>	<b>6,017</b>	<b>1,285</b>	<b>7,899</b>	<b>1,697</b>
<b>Nonstocked</b>	<b>89</b>	<b>40</b>	<b>327</b>	<b>141</b>	<b>86</b>	<b>31</b>	<b>459</b>	<b>72</b>	<b>272</b>	<b>66</b>	<b>496</b>	<b>88</b>	<b>7,796</b>	<b>1,367</b>	<b>9,396</b>	<b>1,652</b>
<b>All forest types</b>	<b>28,952</b>	<b>2,094</b>	<b>1,985</b>	<b>267</b>	<b>5,958</b>	<b>422</b>	<b>6,445</b>	<b>323</b>	<b>4,937</b>	<b>377</b>	<b>8,735</b>	<b>441</b>	<b>116,227</b>	<b>5,134</b>	<b>171,975</b>	<b>8,020</b>

Note: Totals may be of because of rounding

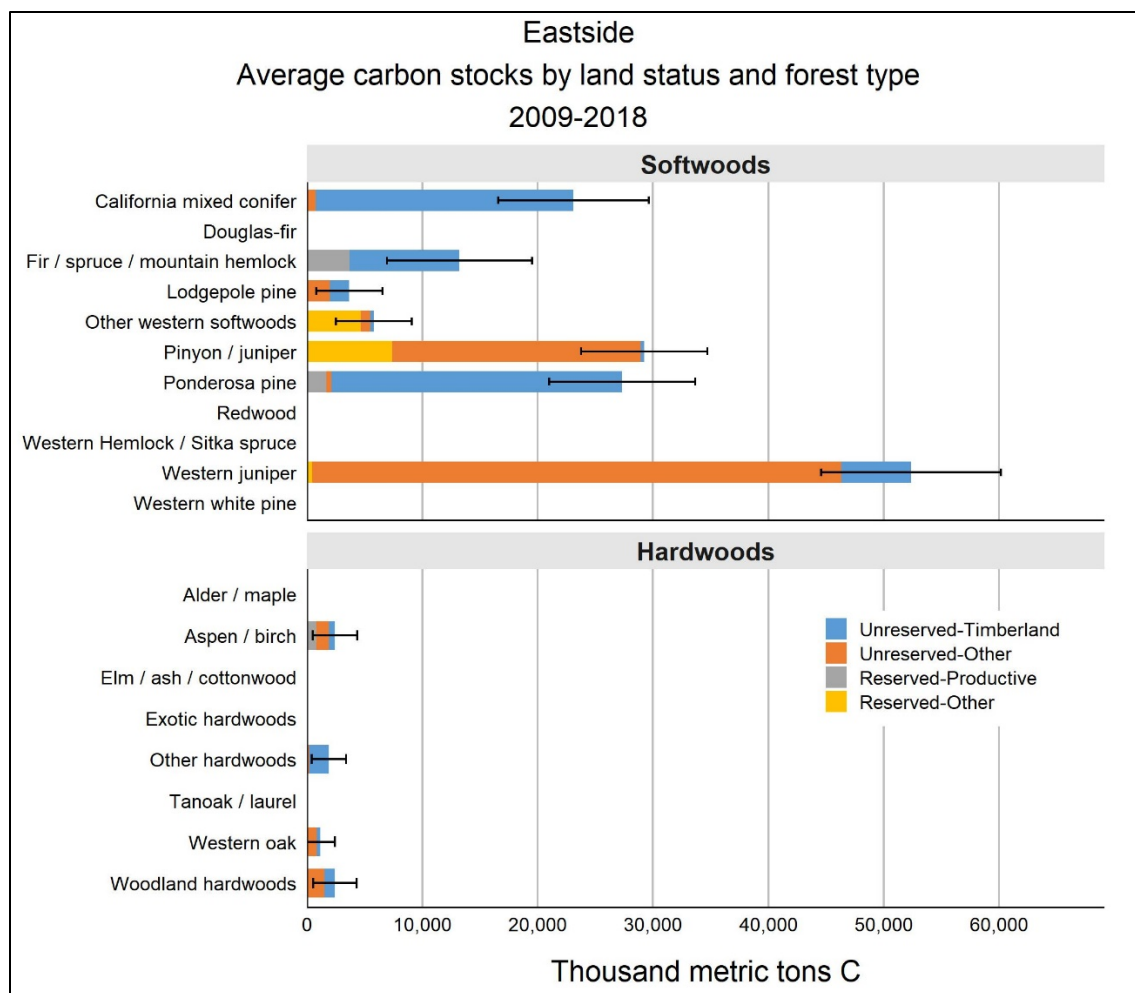


Figure A1.3.2. Eastside: Average forest carbon stock by land status and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.3.2. *\*note: "non-stocked" not depicted in this figure.*

**Table A 1.3.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2009-2018: Eastside**

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
<b>Softwoods:</b>										
California mixed conifer	22,343	3,272	768	616	--	--	--	--	23,111	3,326
Douglas-fir	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	9,497	2,588	--	--	3,707	1,895	--	--	13,204	3,207
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	1,697	866	1,972	1,179	--	--	--	--	3,669	1,463
Pinyon / juniper	294	293	21,559	2,405	--	--	7,366	1,465	29,218	2,795
Ponderosa pine	25,231	3,096	417	279	1,679	863	--	--	27,327	3,224
Redwood	--	--	--	--	--	--	--	--	--	--
Western juniper	6,040	1,384	45,859	3,734	--	--	449	385	52,349	3,977
Western white pine	--	--	--	--	--	--	--	--	--	--
Other western softwoods	291	299	835	587	--	--	4,676	1,549	5,802	1,683
<b>Total</b>	<b>65,393</b>	<b>5,438</b>	<b>71,409</b>	<b>4,603</b>	<b>5,386</b>	<b>2,083</b>	<b>12,491</b>	<b>2,168</b>	<b>154,680</b>	<b>7,673</b>
<b>Hardwoods:</b>										
Alder / maple	--	--	--	--	--	--	2	2	2	2
Aspen / birch	524	478	1,092	615	796	604	5	6	2,417	986
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--
Western oak	337	273	835	528	--	--	--	--	1,172	632
Woodland hardwoods	898	597	1,513	756	--	--	--	--	2,411	963
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--
Other hardwoods	1,693	739	203	204	--	--	--	--	1,897	767
<b>Total</b>	<b>3,453</b>	<b>1,097</b>	<b>3,644</b>	<b>1,126</b>	<b>796</b>	<b>604</b>	<b>7</b>	<b>6</b>	<b>7,899</b>	<b>1,697</b>
<b>Nonstocked</b>	<b>6,547</b>	<b>1,386</b>	<b>2,650</b>	<b>878</b>	<b>--</b>	<b>--</b>	<b>199</b>	<b>203</b>	<b>9,396</b>	<b>1,652</b>
<b>All forest types</b>	<b>75,393</b>	<b>5,757</b>	<b>77,703</b>	<b>4,789</b>	<b>6,182</b>	<b>2,195</b>	<b>12,698</b>	<b>2,188</b>	<b>171,975</b>	<b>8,020</b>

Note: Totals may be of because of rounding

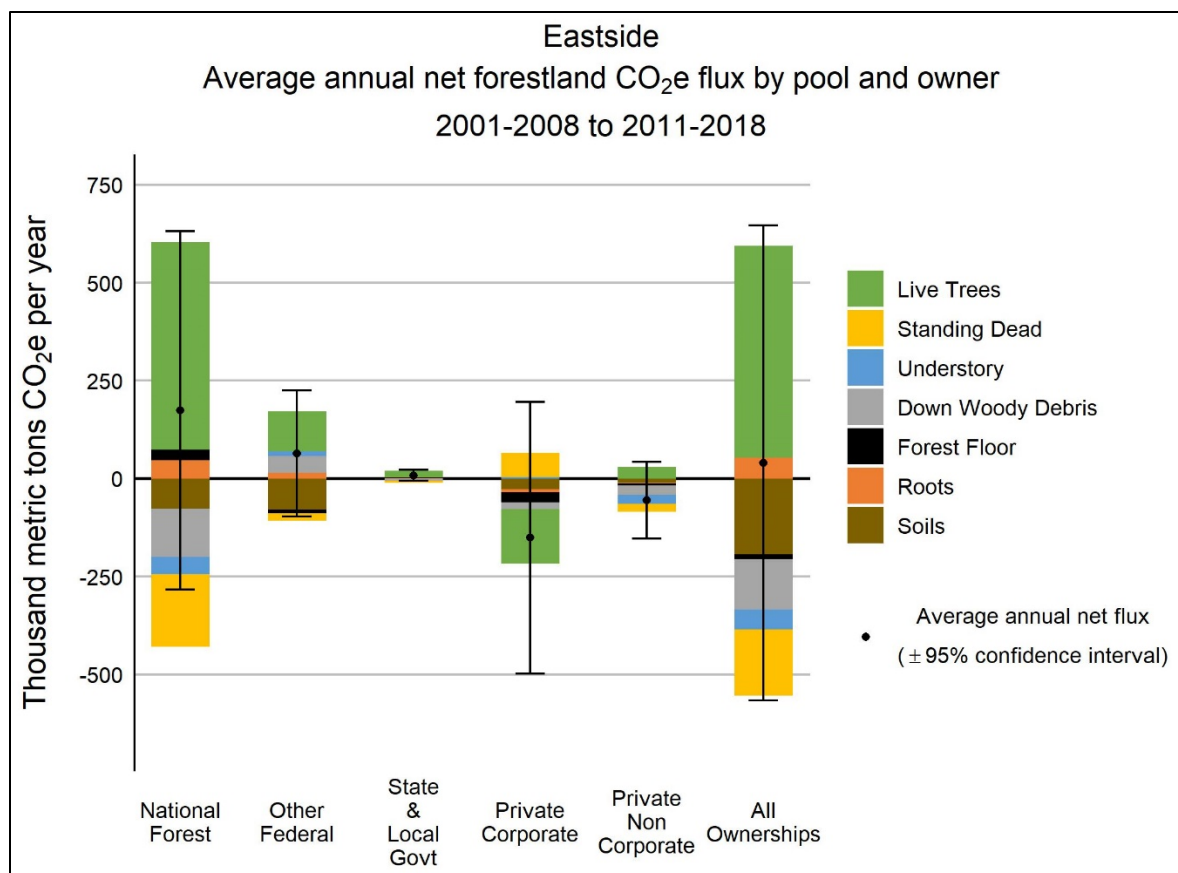


Figure A1.3.3. Eastside average annual net forestland carbon flux by pool and ownership, 2001-2008 to 2011-2018 (MMT CO<sub>2</sub>e/yr). Estimates exclude emissions from land-use changes. Roots includes belowground live and dead tree roots. Understory includes aboveground and belowground understory vegetation. Error bars represent the 95% confidence interval of estimated net flux. Figure derived from Appendix 2, Table B4.

*\*Note: this is a new figure that was not included in previous reports.*

## A1.4 Klamath/Interior Coast Ranges

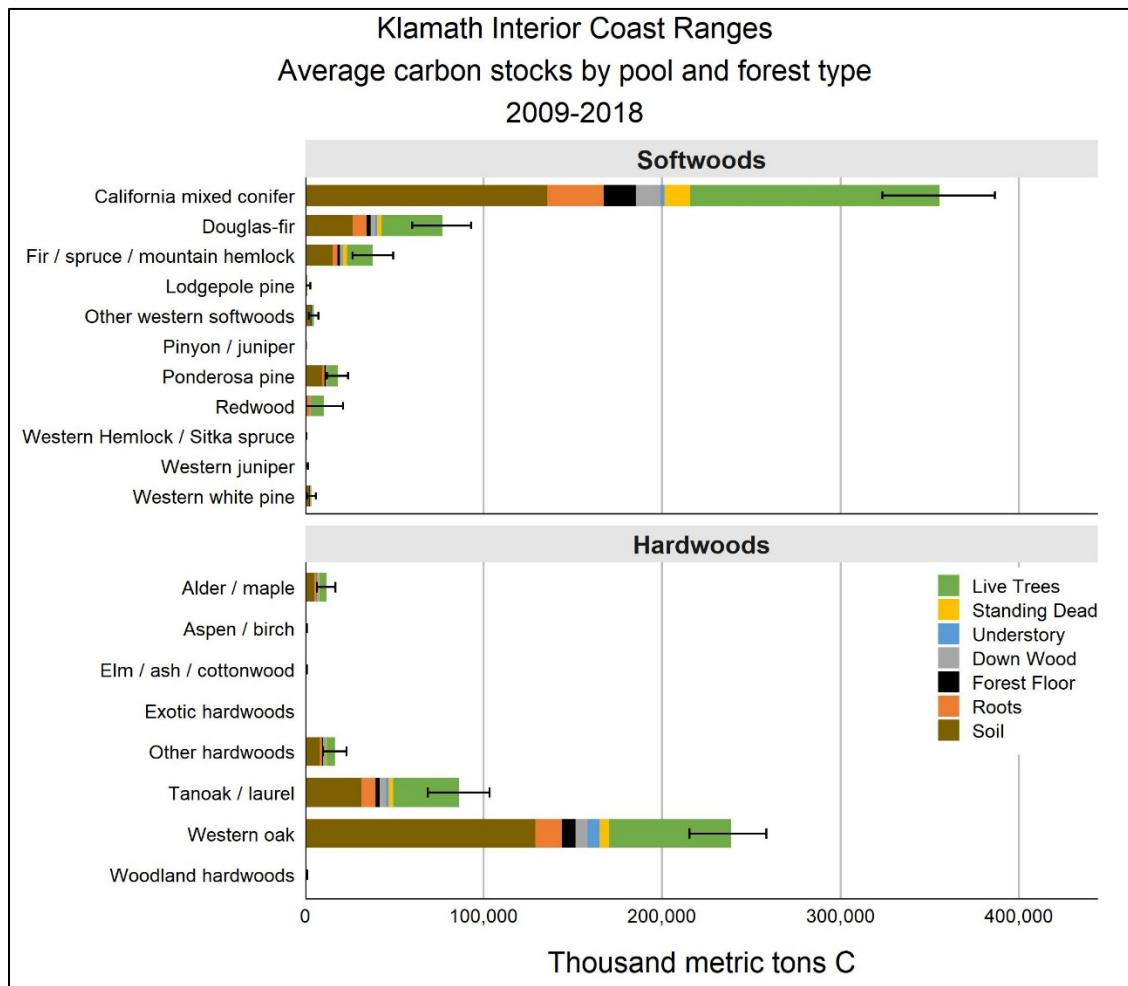


Figure A1.4.1. Klamath/Interior Coast Ranges: Average carbon stock by pool and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.4.1. *\*note: "non-stocked" not depicted in this figure.*

Table A 1.4.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2009-2018: Klamath Interior Coast Ranges

	Live Trees		Dead Trees		Roots		Understory		Down wood		Forest Floor		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand metric tons C</i>																
<b>Softwoods:</b>																
California mixed conifer	139,855	7,065	14,223	1,181	31,555	1,605	2,368	135	13,816	822	17,846	788	135,825	5,910	354,923	16,037
Douglas-fir	34,082	4,040	2,555	452	7,684	918	954	102	2,694	435	2,236	236	26,661	2,817	76,510	8,418
Fir / spruce / mountain hemlock	14,428	2,622	2,341	548	2,896	511	344	52	1,242	266	1,455	210	15,193	2,188	37,809	5,817
Western Hemlock / Sitka spruce	121	120	--	--	24	24	14	14	2	2	22	21	92	92	263	262
Lodgepole pine	249	155	11	8	45	27	24	14	16	10	61	35	894	515	1,299	750
Pinyon / juniper	6	6	--	--	1	1	23	23			7	7	133	133	154	154
Ponderosa pine	5,457	1,087	327	107	1,244	250	464	71	413	92	981	159	9,524	1,488	18,150	3,013
Redwood	7,064	3,888	149	83	1,272	698	46	22	469	291	109	51	1,278	602	10,374	5,551
Western juniper	22	17	5	5	5	3	72	37	1	1	36	22	593	360	700	425
Western white pine	655	285	111	54	134	60	90	35	87	42	182	65	2,226	779	3,464	1,229
Other western softwoods	683	242	105	60	149	48	160	52	241	88	228	64	3,216	910	4,742	1,336
<b>Total</b>	<b>202,624</b>	<b>8,979</b>	<b>19,827</b>	<b>1,335</b>	<b>45,009</b>	<b>1,945</b>	<b>4,559</b>	<b>209</b>	<b>18,981</b>	<b>990</b>	<b>23,162</b>	<b>835</b>	<b>195,635</b>	<b>6,831</b>	<b>508,387</b>	<b>18,935</b>
<b>Hardwoods:</b>																
Alder / maple	3,932	1,088	379	159	890	234	284	58	872	244	410	90	5,098	1,128	11,768	2,709
Aspen / birch	13	13	--	--	2	2	12	12	3	3	15	15	268	269	309	310
Elm / ash / cottonwood	116	82	3	2	17	13	35	20	16	12	11	7	208	138	380	257
Tanoak / laurel	37,054	4,330	2,454	452	7,820	914	1,312	122	3,692	511	2,341	225	31,664	3,015	86,066	8,784
Western oak	68,343	3,943	5,224	960	15,129	877	6,675	279	6,804	530	7,553	348	128,898	5,599	236,846	10,952
Woodland hardwoods	62	40	4	4	8	6	67	28	5	3	26	17	402	261	523	313
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	4,934	1,294	547	188	1,158	304	383	66	951	322	650	125	8,126	1,551	16,639	3,356
<b>Total</b>	<b>114,453</b>	<b>5,977</b>	<b>8,611</b>	<b>1,086</b>	<b>25,025</b>	<b>1,297</b>	<b>8,767</b>	<b>316</b>	<b>12,344</b>	<b>837</b>	<b>11,006</b>	<b>432</b>	<b>174,664</b>	<b>6,520</b>	<b>352,531</b>	<b>14,356</b>
<b>Nonstocked</b>	<b>515</b>	<b>232</b>	<b>3,469</b>	<b>942</b>	<b>868</b>	<b>228</b>	<b>574</b>	<b>84</b>	<b>1,035</b>	<b>235</b>	<b>702</b>	<b>111</b>	<b>10,125</b>	<b>1,592</b>	<b>17,118</b>	<b>2,906</b>
<b>All forest types</b>	<b>317,593</b>	<b>10,307</b>	<b>31,906</b>	<b>1,911</b>	<b>70,902</b>	<b>2,227</b>	<b>13,900</b>	<b>389</b>	<b>32,360</b>	<b>1,275</b>	<b>34,871</b>	<b>897</b>	<b>380,423</b>	<b>8,976</b>	<b>878,037</b>	<b>22,423</b>

Note: Totals may be of because of rounding

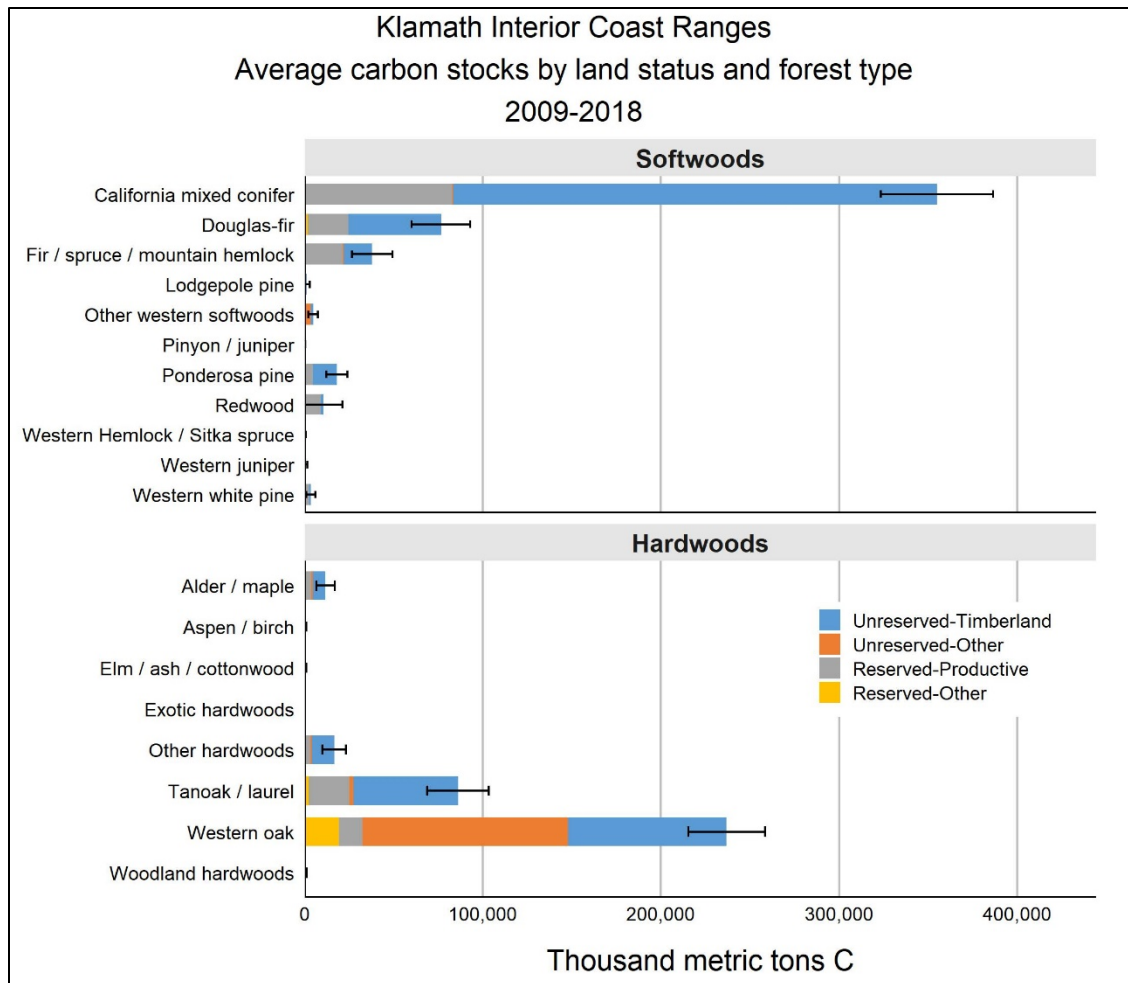


Figure A1.4.2. Klamath/Interior Coast Ranges: Average forest carbon stock by land status and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.4.2. *\*note: "non-stocked" not depicted in this figure.*



**Table A 1.4.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2009-2018: Klamath Interior Coast Ranges**

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
<b>Softwoods:</b>										
California mixed conifer	271,613	14,151	526	463	82,345	7,713	438	430	354,923	16,037
Douglas-fir	51,945	6,711	--	--	22,732	5,043	1,833	923	76,510	8,418
Fir / spruce / mountain hemlock	15,665	3,633	798	645	20,985	4,492	361	377	37,809	5,817
Western Hemlock / Sitka spruce	--	--	--	--	263	262	--	--	263	262
Lodgepole pine	504	483	--	--	390	393	405	417	1,299	750
Pinyon / juniper	--	--	154	154	--	--	--	--	154	154
Ponderosa pine	13,521	2,500	--	--	4,067	1,626	563	440	18,150	3,013
Redwood	1,386	1,221	--	--	8,988	5,415	--	--	10,374	5,551
Western juniper	--	--	700	425	--	--	--	--	700	425
Western white pine	976	727	--	--	2,136	923	353	366	3,464	1,229
Other western softwoods	1,214	709	2,823	1,040	356	314	349	356	4,742	1,336
<b>Total</b>	<b>356,824</b>	<b>15,859</b>	<b>5,001</b>	<b>1,384</b>	<b>142,261</b>	<b>10,703</b>	<b>4,301</b>	<b>1,377</b>	<b>508,387</b>	<b>18,935</b>
<b>Hardwoods:</b>										
Alder / maple	7,220	1,984	728	462	3,146	1,705	675	533	11,768	2,709
Aspen / birch	--	--	--	--	--	--	309	310	309	310
Elm / ash / cottonwood	--	--	356	256	23	23	--	--	380	257
Tanoak / laurel	58,546	7,389	2,282	1,105	22,952	4,556	2,286	1,116	86,066	8,784
Western oak	89,111	7,601	115,155	6,908	13,467	2,860	19,113	3,136	236,846	10,952
Woodland hardwoods	--	--	144	90	--	--	379	299	523	313
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--
Other hardwoods	12,591	3,071	740	538	2,764	1,163	544	454	16,639	3,356
<b>Total</b>	<b>167,469</b>	<b>11,016</b>	<b>119,404</b>	<b>7,021</b>	<b>42,352</b>	<b>5,682</b>	<b>23,306</b>	<b>3,424</b>	<b>352,531</b>	<b>14,356</b>
<b>Nonstocked</b>	<b>8,895</b>	<b>2,055</b>	<b>645</b>	<b>398</b>	<b>7,231</b>	<b>1,993</b>	<b>347</b>	<b>318</b>	<b>17,118</b>	<b>2,906</b>
<b>All forest types</b>	<b>533,188</b>	<b>18,664</b>	<b>125,049</b>	<b>7,160</b>	<b>191,845</b>	<b>11,427</b>	<b>27,954</b>	<b>3,713</b>	<b>878,037</b>	<b>22,423</b>

Note: Totals may be off because of rounding

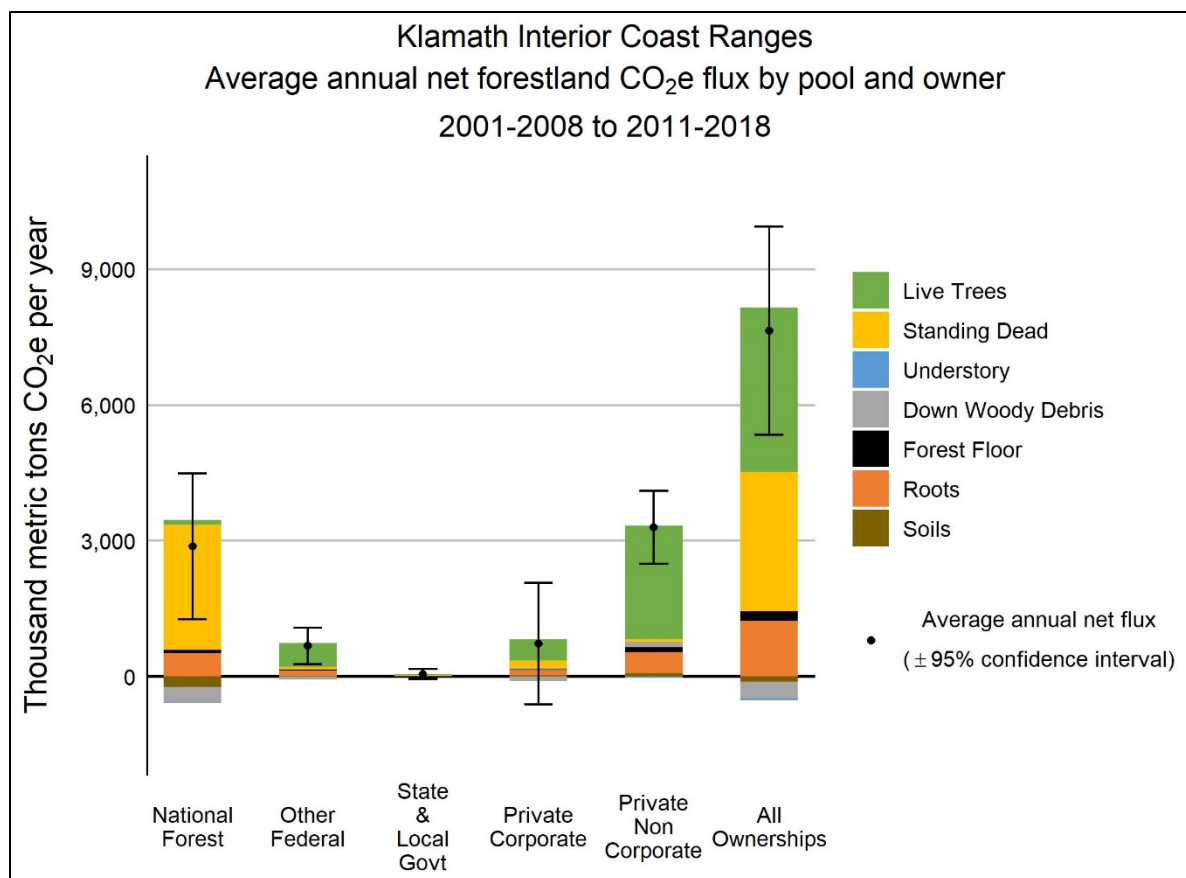


Figure A1.4.3. Klamath Interior Coast Ranges average annual net forestland carbon flux by pool and ownership, 2001-2008 to 2011-2018 (MMT CO<sub>2</sub>e/yr). Estimates exclude emissions from land-use changes. Roots includes belowground live and dead tree roots. Understory includes aboveground and belowground understory vegetation. Error bars represent the 95% confidence interval of estimated net flux. Figure derived from Appendix 2, Table B5.

*\*Note: this is a new figure that was not included in previous reports.*

## A1.5 North Coast

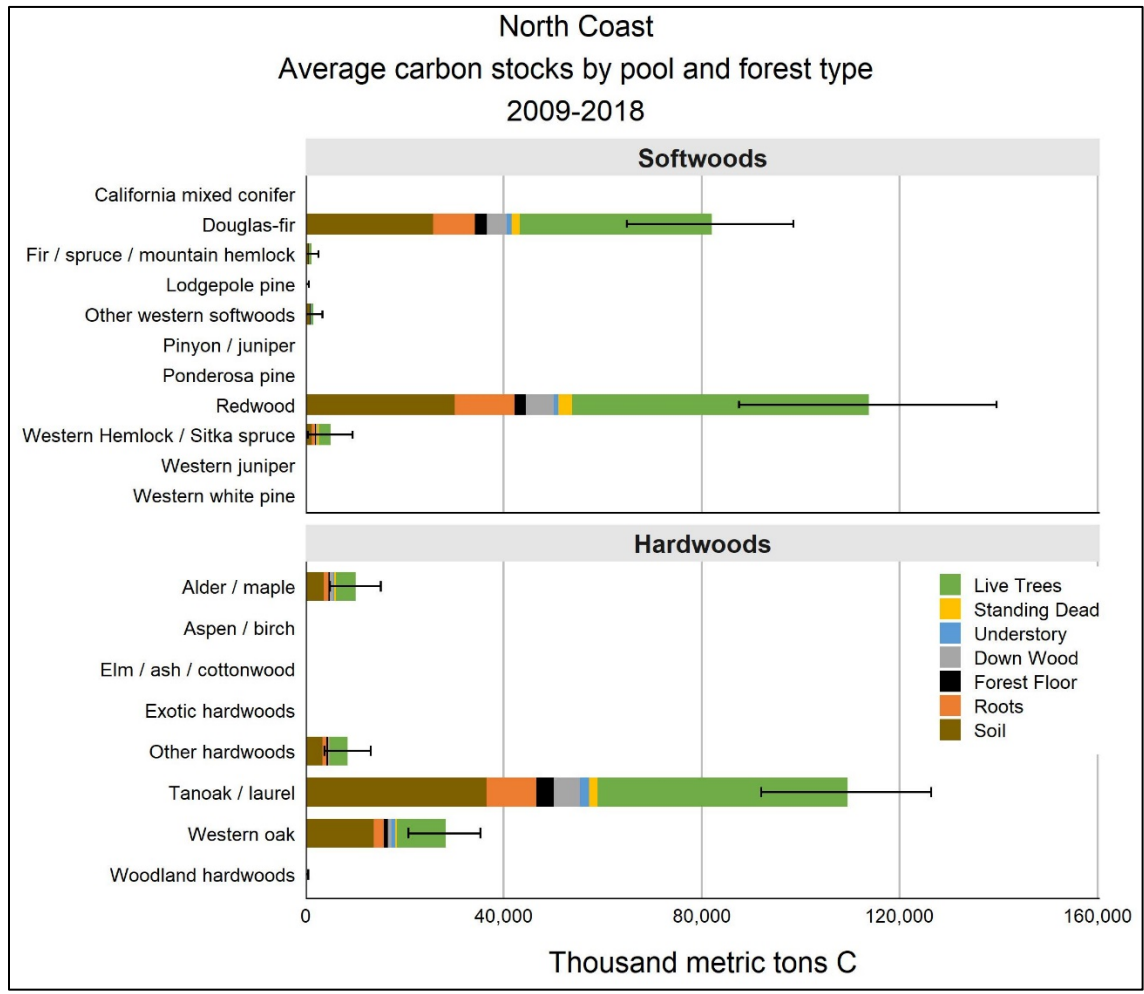


Figure A1.5.1. North Coast: Average carbon stock by pool and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.5.1. *\*note: "non-stocked" not depicted in this figure.*

Table A 1.5.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2009-2018: North Coast

	Live Trees		Dead Trees		Roots		Understory		Down wood		Forest Floor		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand metric tons C</i>															
<b>Softwoods:</b>																
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	38,819	4,512	1,558	268	8,419	980	1,016	100	3,958	564	2,493	244	25,767	2,518	81,721	8,570
Fir / spruce / mountain hemlock	431	292	37	37	89	61	13	8	16	11	53	37	463	311	1,097	742
Western Hemlock / Sitka spruce	2,319	1,054	253	177	583	281	50	20	306	233	229	106	1,249	587	4,968	2,314
Lodgepole pine	28	28	8	8	7	8	14	12	2	2	18	17	168	161	236	228
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	59,951	8,451	2,803	520	12,019	1,631	870	86	5,692	837	2,287	220	30,157	2,895	113,542	13,274
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	446	338	19	20	108	84	45	26	118	108	64	36	804	447	1,590	936
<b>Total</b>	<b>101,994</b>	<b>9,389</b>	<b>4,679</b>	<b>607</b>	<b>21,226</b>	<b>1,869</b>	<b>2,009</b>	<b>136</b>	<b>10,092</b>	<b>1,022</b>	<b>5,144</b>	<b>336</b>	<b>58,608</b>	<b>3,783</b>	<b>203,153</b>	<b>15,485</b>
<b>Hardwoods:</b>																
Alder / maple	3,942	1,147	469	175	907	257	222	48	543	158	296	74	3,738	909	10,043	2,605
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	50,503	4,393	1,778	259	10,065	873	1,800	140	5,244	593	3,615	282	36,501	2,859	109,201	8,771
Western oak	9,900	1,470	322	86	2,010	305	816	96	638	139	841	112	13,801	1,788	28,051	3,721
Woodland hardwoods	94	85			20	18	13	11	6	6	4	3	67	61	194	176
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	3,605	1,086	61	28	754	227	158	41	188	67	307	88	3,413	952	8,448	2,393
<b>Total</b>	<b>68,044</b>	<b>4,813</b>	<b>2,630</b>	<b>323</b>	<b>13,757</b>	<b>969</b>	<b>3,008</b>	<b>181</b>	<b>6,619</b>	<b>629</b>	<b>5,063</b>	<b>317</b>	<b>57,520</b>	<b>3,542</b>	<b>155,936</b>	<b>9,957</b>
<b>Nonstocked</b>	<b>36</b>	<b>25</b>	<b>4</b>	<b>3</b>	<b>9</b>	<b>5</b>	<b>37</b>	<b>21</b>	<b>34</b>	<b>25</b>	<b>39</b>	<b>23</b>	<b>508</b>	<b>303</b>	<b>654</b>	<b>382</b>
<b>All forest types</b>	<b>170,074</b>	<b>10,198</b>	<b>7,312</b>	<b>676</b>	<b>34,992</b>	<b>2,029</b>	<b>5,054</b>	<b>227</b>	<b>16,745</b>	<b>1,167</b>	<b>10,247</b>	<b>433</b>	<b>116,637</b>	<b>4,879</b>	<b>359,744</b>	<b>17,497</b>

Note: Totals may be of because of rounding

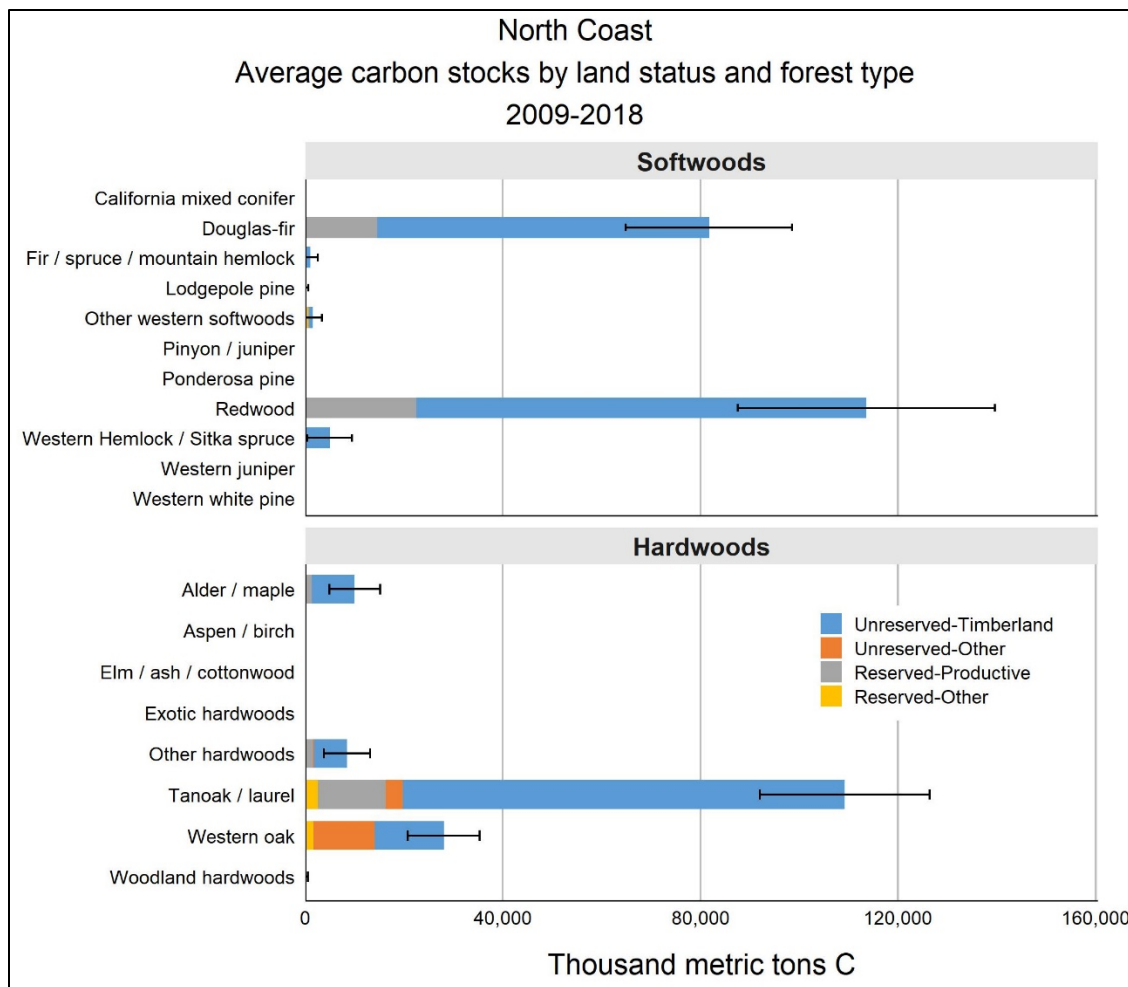


Figure A1.5.2. North Coast: Average forest carbon stock by land status and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.5.2. *\*note: "non-stocked" not depicted in this figure.*

**Table A 1.5.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2009-2018: North Coast**

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
<b>Softwoods:</b>										
California mixed conifer	--	--	--	--	--	--	--	--	--	--
Douglas-fir	67,179	7,462	--	--	14,541	4,322	--	--	81,721	8,570
Fir / spruce / mountain hemlock	1,097	742	--	--	--	--	--	--	1,097	742
Western Hemlock / Sitka spruce	4,968	2,314	--	--	--	--	--	--	4,968	2,314
Lodgepole pine	--	--	--	--	222	227	13	21	236	228
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--
Redwood	91,001	9,589	--	--	22,541	9,495	--	--	113,542	13,274
Western juniper	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--
Other western softwoods	770	695	--	--	315	454	504	433	1,590	936
<b>Total</b>	<b>165,015</b>	<b>12,064</b>	<b>--</b>	<b>--</b>	<b>37,620</b>	<b>10,251</b>	<b>517</b>	<b>433</b>	<b>203,153</b>	<b>15,485</b>
<b>Hardwoods:</b>										
Alder / maple	8,682	2,354	56	52	1,306	1,116	--	--	10,043	2,605
Aspen / birch	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	89,403	7,890	3,462	1,477	13,776	3,370	2,560	1,590	109,201	8,771
Western oak	14,040	2,922	12,360	2,130	--	--	1,651	867	28,051	3,721
Woodland hardwoods	--	--	--	--	--	--	194	176	194	176
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--
Other hardwoods	6,674	2,069	175	166	1,599	1,191	--	--	8,448	2,393
<b>Total</b>	<b>118,799</b>	<b>8,826</b>	<b>16,052</b>	<b>2,595</b>	<b>16,681</b>	<b>3,705</b>	<b>4,405</b>	<b>1,819</b>	<b>155,936</b>	<b>9,957</b>
<b>Nonstocked</b>	<b>654</b>	<b>382</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>654</b>	<b>382</b>
<b>All forest types</b>	<b>284,468</b>	<b>14,205</b>	<b>16,052</b>	<b>2,595</b>	<b>54,302</b>	<b>10,628</b>	<b>4,922</b>	<b>1,870</b>	<b>359,744</b>	<b>17,497</b>

Note: Totals may be of because of rounding

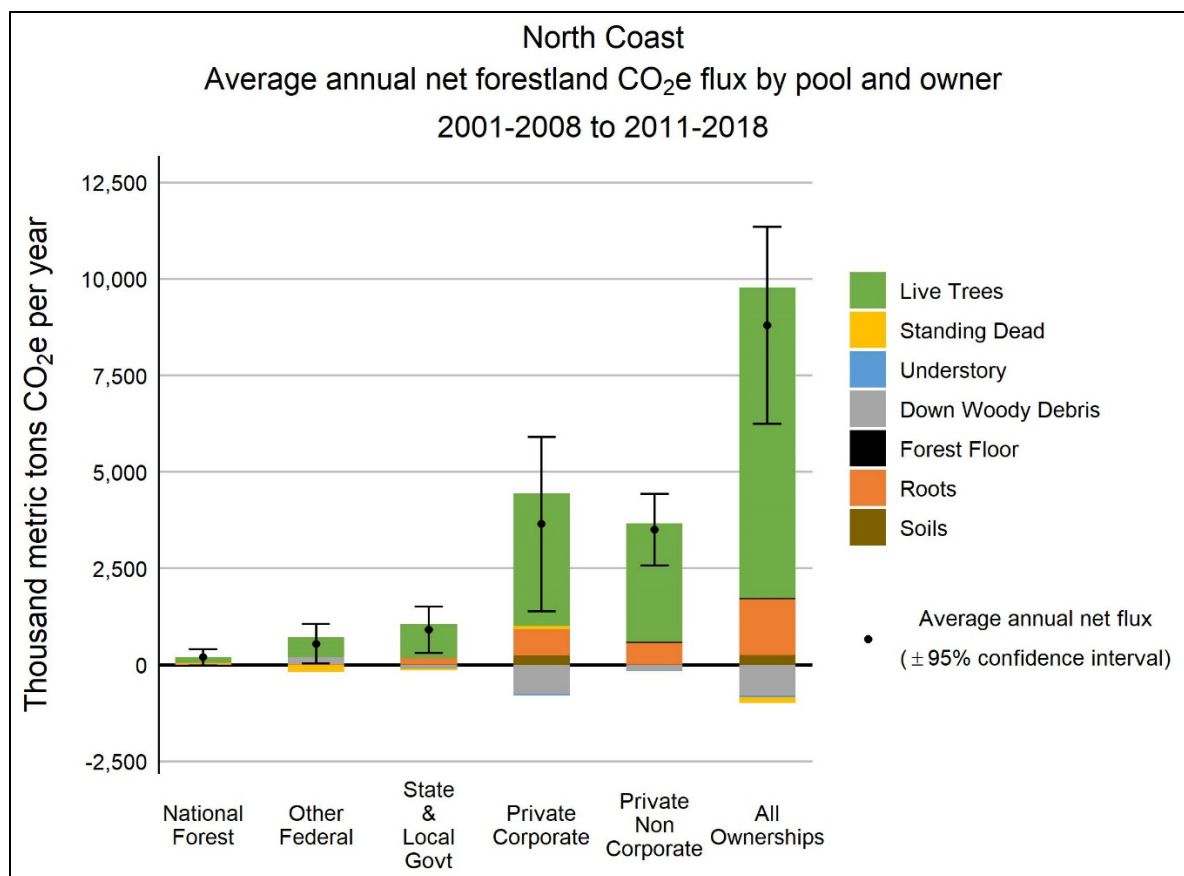


Figure A1.5.3. North Coast annual net forestland carbon flux by pool and ownership, 2001-2008 to 2011-2018 (MMT CO<sub>2</sub>e/yr). Estimates exclude emissions from land-use changes. Roots includes belowground live and dead tree roots. Understory includes aboveground and belowground understory vegetation. Error bars represent the 95% confidence interval of estimated net flux. Figure derived from Appendix 2, Table B6.

*\*Note: this is a new figure that was not included in previous reports.*

## A1.6 Sierra/Cascades

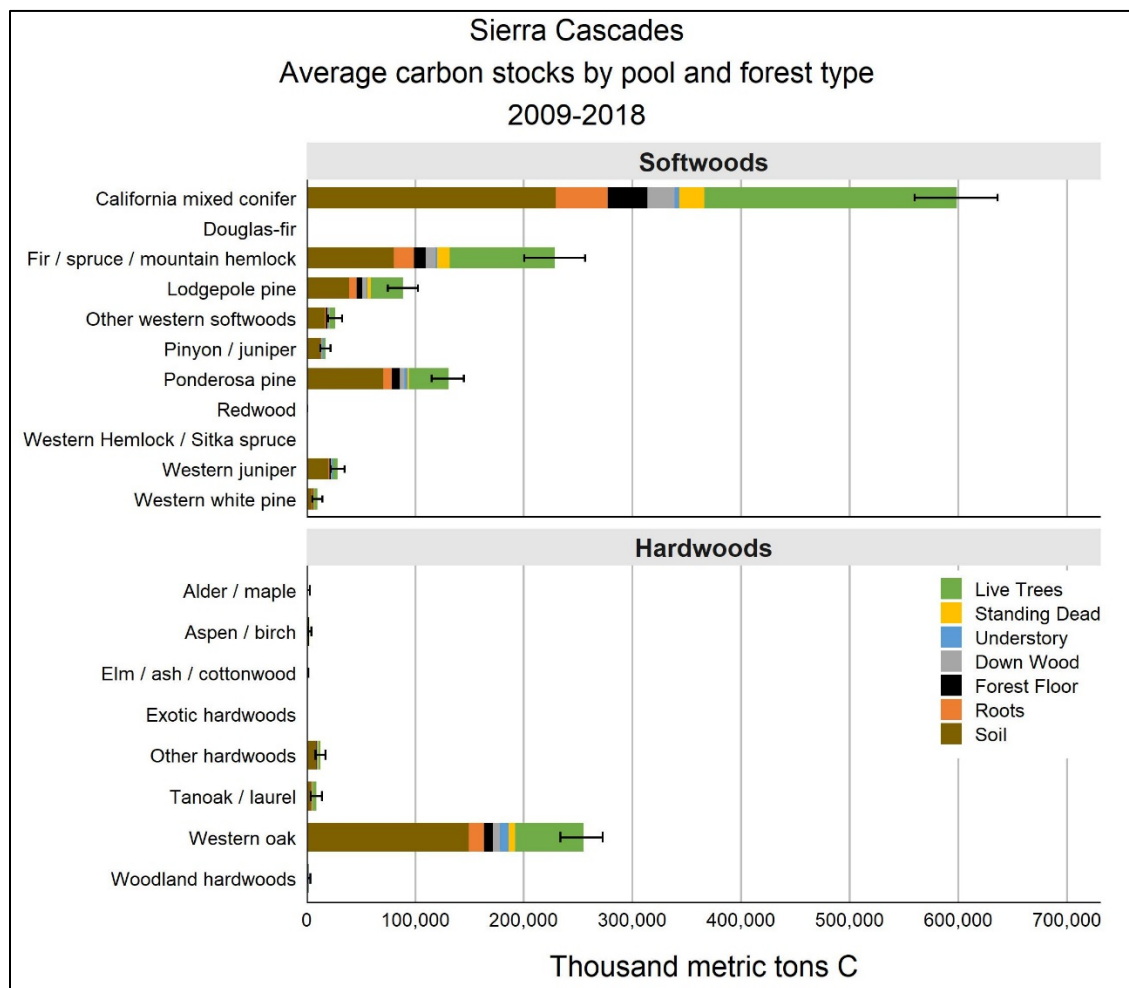


Figure A1.6.1. Sierra/Cascades: Average carbon stock by pool and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.6.1. *\*note: "non-stocked" not depicted in this figure.*



Table A 1.6.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2009-2018: Sierra Cascades

	Live Trees		Dead Trees		Roots		Understory		Down wood		Forest Floor		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand metric tons C</i>																
<b>Softwoods:</b>																
California mixed conifer	232,586	8,652	23,065	1,613	47,522	1,766	4,549	191	24,946	1,184	36,681	1,156	229,412	7,116	597,757	19,471
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	97,018	6,828	11,365	1,087	18,757	1,319	1,598	99	9,164	790	10,588	630	80,066	4,732	228,253	14,306
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	29,817	2,695	3,247	397	6,906	618	889	87	3,743	506	4,940	388	39,287	3,036	88,632	7,050
Pinyon / juniper	2,057	356	198	55	471	81	754	94	709	168	674	101	12,613	1,639	17,364	2,299
Ponderosa pine	36,729	2,634	1,323	229	8,160	592	2,775	171	3,990	382	7,458	427	70,364	3,884	129,833	7,521
Redwood	28	26	--	--	6	5	10	9	41	38	11	10	152	140	243	223
Western juniper	4,272	692	206	64	800	130	1,202	147	629	140	1,388	167	20,131	2,249	28,446	3,275
Western white pine	2,876	757	416	129	657	168	142	36	357	120	612	145	4,968	1,152	9,967	2,345
Other western softwoods	4,536	807	594	151	1,071	198	748	105	935	220	1,563	198	16,728	2,031	26,023	3,282
<b>Total</b>	<b>409,919</b>	<b>10,564</b>	<b>40,413</b>	<b>1,930</b>	<b>84,350</b>	<b>2,141</b>	<b>12,666</b>	<b>344</b>	<b>44,514</b>	<b>1,506</b>	<b>63,915</b>	<b>1,295</b>	<b>473,721</b>	<b>9,116</b>	<b>1,126,517</b>	<b>23,529</b>
<b>Hardwoods:</b>																
Alder / maple	607	474	87	60	125	95	23	15	61	51	42	29	351	239	1,288	942
Aspen / birch	487	251	19	12	90	47	116	37	145	85	140	52	1,559	552	2,502	920
Elm / ash / cottonwood	136	112	1	1	22	18	45	22	12	9	27	20	401	284	615	442
Tanoak / laurel	3,387	1,254	91	44	677	242	164	42	468	217	330	90	3,779	1,007	8,873	2,626
Western oak	62,775	3,377	6,057	649	14,009	732	8,046	281	6,324	436	8,404	335	149,180	5,515	252,998	9,949
Woodland hardwoods	62	46	39	24	23	11	93	33	31	23	106	39	1,526	581	1,855	713
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	2,066	765	147	56	449	176	476	76	547	154	576	101	8,402	1,455	12,507	2,353
<b>Total</b>	<b>69,521</b>	<b>3,697</b>	<b>6,441</b>	<b>655</b>	<b>15,395</b>	<b>792</b>	<b>8,964</b>	<b>298</b>	<b>7,588</b>	<b>518</b>	<b>9,626</b>	<b>364</b>	<b>165,198</b>	<b>5,797</b>	<b>280,639</b>	<b>10,562</b>
<b>Nonstocked</b>	<b>842</b>	<b>219</b>	<b>4,637</b>	<b>1,072</b>	<b>1,148</b>	<b>224</b>	<b>1,491</b>	<b>130</b>	<b>2,460</b>	<b>439</b>	<b>1,492</b>	<b>149</b>	<b>23,500</b>	<b>2,286</b>	<b>35,133</b>	<b>3,673</b>
<b>All forest types</b>	<b>480,282</b>	<b>10,629</b>	<b>51,490</b>	<b>2,232</b>	<b>100,892</b>	<b>2,150</b>	<b>23,121</b>	<b>456</b>	<b>54,562</b>	<b>1,600</b>	<b>75,033</b>	<b>1,272</b>	<b>662,420</b>	<b>9,963</b>	<b>1,442,289</b>	<b>23,805</b>

Note: Totals may be of because of rounding

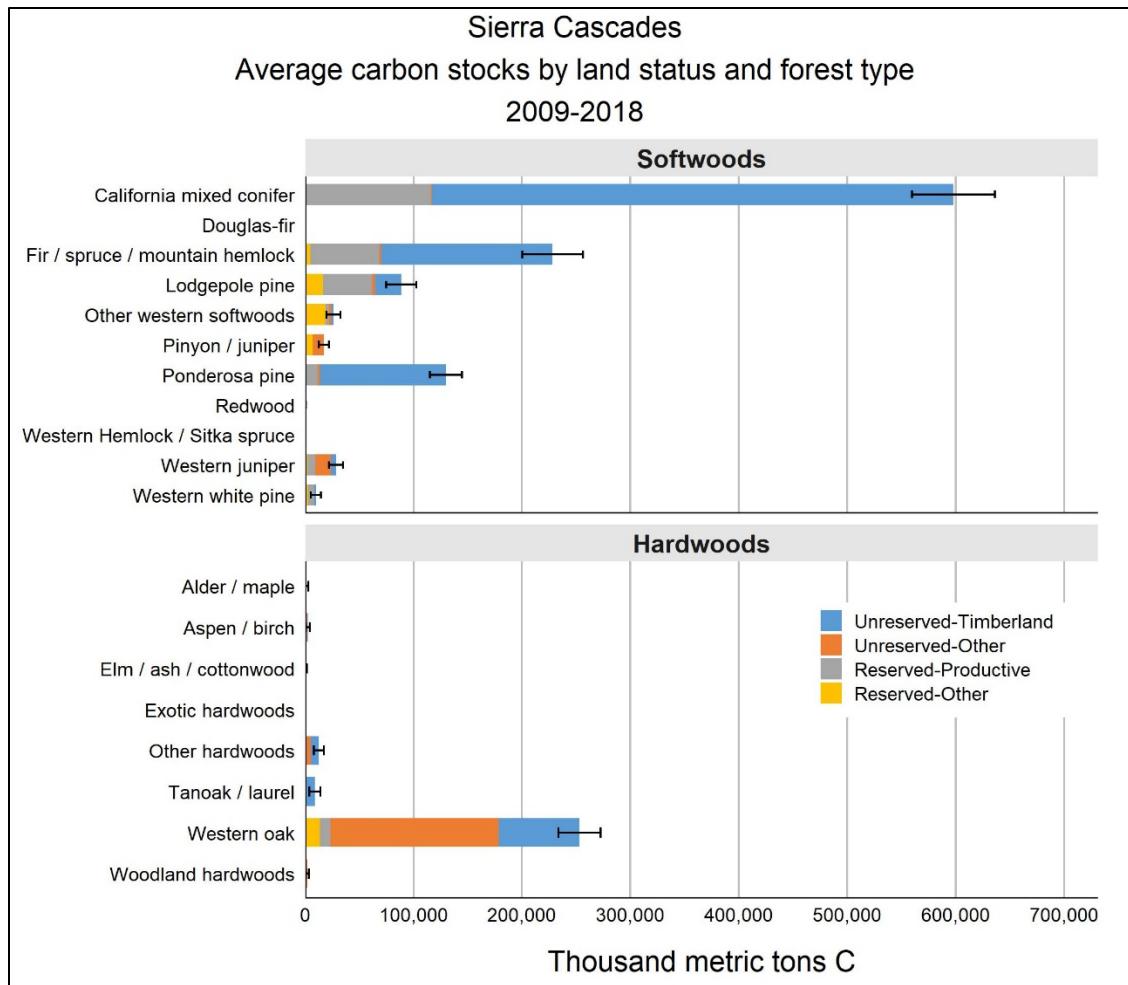


Figure A1.6.2. Sierra/Cascades: Average forest carbon stock by land status and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.6.2. *\*note: "non-stocked" not depicted in this figure.*

**Table A 1.6.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2009-2018: Sierra Cascades**

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
<b>Softwoods:</b>										
California mixed conifer	480,719	17,283	901	695	114,991	10,046	1,146	1,019	597,757	19,471
Douglas-fir	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	158,001	11,430	2,209	1,227	63,126	8,399	4,918	1,896	228,253	14,306
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	24,229	3,825	2,773	1,202	45,280	5,341	16,350	2,977	88,632	7,050
Pinyon / juniper	297	299	9,870	1,717	250	237	6,948	1,490	17,364	2,299
Ponderosa pine	116,461	7,066	1,691	825	10,651	2,448	1,030	597	129,833	7,521
Redwood	243	223	--	--	--	--	--	--	243	223
Western juniper	4,535	1,294	14,682	2,118	7,167	1,970	2,062	869	28,446	3,275
Western white pine	1,558	804	--	--	5,751	1,888	2,658	1,140	9,967	2,345
Other western softwoods	1,780	830	2,458	897	2,908	1,248	18,877	2,822	26,023	3,282
<b>Total</b>	<b>787,822</b>	<b>20,022</b>	<b>34,584</b>	<b>3,471</b>	<b>250,123</b>	<b>13,398</b>	<b>53,988</b>	<b>4,872</b>	<b>1,126,517</b>	<b>23,529</b>
<b>Hardwoods:</b>										
Alder / maple	1,288	942	--	--	--	--	--	--	1,288	942
Aspen / birch	524	423	357	211	410	374	1,211	696	2,502	920
Elm / ash / cottonwood	--	--	615	442	--	--	--	--	615	442
Tanoak / laurel	7,815	2,570	1,058	543	--	--	--	--	8,873	2,626
Western oak	74,305	6,442	155,437	7,224	9,524	2,368	13,732	2,449	252,998	9,949
Woodland hardwoods	--	--	1,665	692	--	--	190	172	1,855	713
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--
Other hardwoods	7,304	1,975	5,086	1,275	--	--	117	109	12,507	2,353
<b>Total</b>	<b>91,237</b>	<b>7,244</b>	<b>164,219</b>	<b>7,359</b>	<b>9,933</b>	<b>2,398</b>	<b>15,250</b>	<b>2,550</b>	<b>280,639</b>	<b>10,562</b>
<b>Nonstocked</b>	<b>23,298</b>	<b>2,905</b>	<b>2,546</b>	<b>800</b>	<b>6,954</b>	<b>1,915</b>	<b>2,335</b>	<b>879</b>	<b>35,133</b>	<b>3,673</b>
<b>All forest types</b>	<b>902,356</b>	<b>20,362</b>	<b>201,349</b>	<b>8,091</b>	<b>267,011</b>	<b>13,486</b>	<b>71,573</b>	<b>5,517</b>	<b>1,442,289</b>	<b>23,805</b>

Note: Totals may be of because of rounding

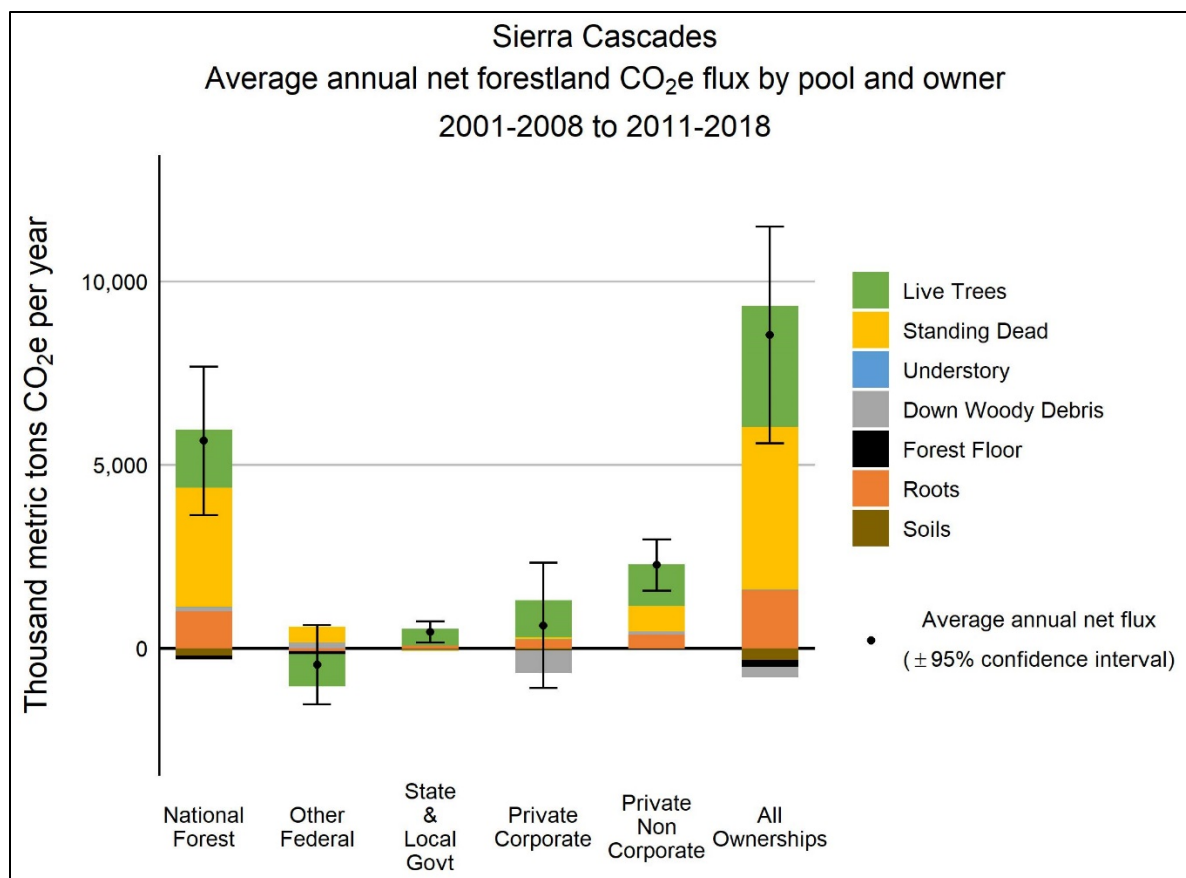


Figure A1.6.3. Sierra Cascades average annual net forestland carbon flux by pool and ownership, 2001-2008 to 2011-2018 (MMT CO<sub>2</sub>e/yr). Estimates exclude emissions from land-use changes. Roots includes belowground live and dead tree roots. Understory includes aboveground and belowground understory vegetation. Error bars represent the 95% confidence interval of estimated net flux. Figure derived from Appendix 2, Table B7.

*\*Note: this is a new figure that was not included in previous reports.*

## A1.7 South Coast Mountains and Deserts

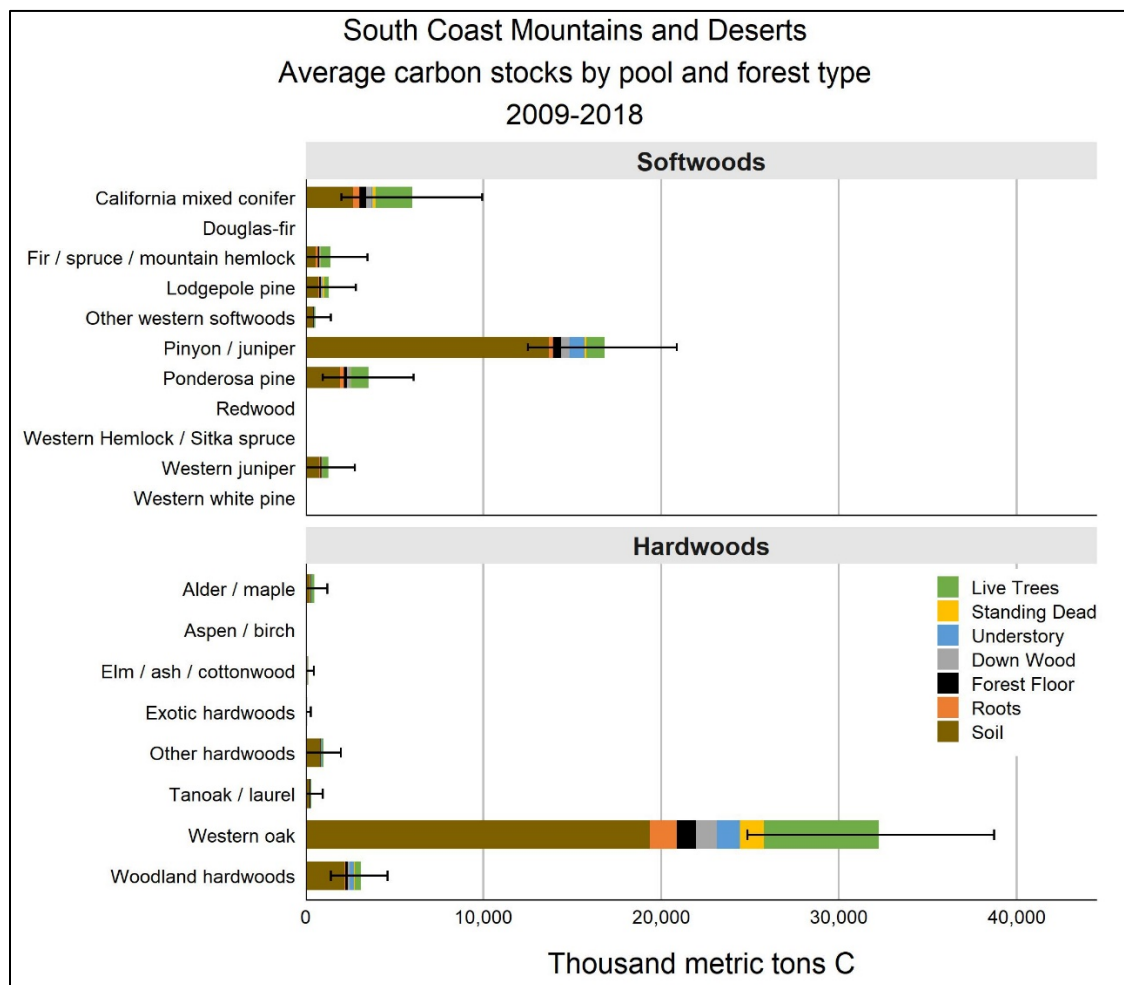


Figure A1.7.1. South Coast Mountains/Deserts: Average carbon stock by pool and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.7.1. *\*note: "non-stocked" not depicted in this figure.*

Table A 1.7.1: Forest land carbon stocks (thousand metric tons C) by forest type and pool, 2009-2018: South Coast Mountains and Deserts

	Live Trees		Dead Trees		Roots		Understory		Down wood		Forest Floor		Soil		All pools	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand metric tons C</i>																
<b>Softwoods:</b>																
California mixed conifer	2,057	807	174	73	353	135	46	17	303	124	379	127	2,666	865	5,977	2,020
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	523	392	41	37	90	68	8	6	44	41	91	71	584	456	1,381	1,065
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	252	154	84	54	78	48	12	7	80	53	82	51	705	430	1,293	789
Pinyon / juniper	1,014	236	122	37	240	50	831	98	478	117	453	63	13,676	1,713	16,694	2,134
Ponderosa pine	982	369	18	9	224	84	49	19	147	76	181	69	1,929	733	3,517	1,301
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	308	184	36	32	62	38	17	10	36	27	55	33	767	456	1,280	765
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	80	73	--	--	9	8	16	13	7	9	23	18	422	332	552	438
<b>Total</b>	<b>5,215</b>	<b>1,024</b>	<b>475</b>	<b>110</b>	<b>1,056</b>	<b>189</b>	<b>978</b>	<b>103</b>	<b>1,095</b>	<b>200</b>	<b>1,265</b>	<b>183</b>	<b>20,750</b>	<b>2,211</b>	<b>30,694</b>	<b>3,568</b>
<b>Hardwoods:</b>																
Alder / maple	181	162	2	2	33	30	24	16	6	4	20	16	226	164	476	378
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	34	47	1	2	6	9	20	15	1	2	8	11	74	98	130	174
Tanoak / laurel	50	49	1	1	11	11	12	11	5	5	21	21	232	228	333	327
Western oak	6,466	1,027	1,349	281	1,508	220	1,302	127	1,188	218	1,077	123	19,362	2,055	31,794	3,534
Woodland hardwoods	330	128	57	26	66	23	228	54	115	59	137	39	2,182	581	3,012	814
Exotic hardwoods	3	3	--	--		1	11	11	6	6	4	4	74	76	92	95
Other hardwoods	88	55	2	1	20	12	49	24	7	4	46	25	794	420	988	515
<b>Total</b>	<b>7,152</b>	<b>1,050</b>	<b>1,411</b>	<b>282</b>	<b>1,645</b>	<b>224</b>	<b>1,646</b>	<b>143</b>	<b>1,328</b>	<b>226</b>	<b>1,313</b>	<b>134</b>	<b>22,945</b>	<b>2,194</b>	<b>36,826</b>	<b>3,695</b>
<b>Nonstocked</b>	<b>21</b>	<b>13</b>	<b>283</b>	<b>173</b>	<b>74</b>	<b>41</b>	<b>238</b>	<b>52</b>	<b>274</b>	<b>105</b>	<b>156</b>	<b>38</b>	<b>4,032</b>	<b>921</b>	<b>5,037</b>	<b>1,177</b>
<b>All forest types</b>	<b>12,388</b>	<b>1,467</b>	<b>2,170</b>	<b>349</b>	<b>2,775</b>	<b>296</b>	<b>2,863</b>	<b>184</b>	<b>2,698</b>	<b>318</b>	<b>2,734</b>	<b>229</b>	<b>47,726</b>	<b>3,225</b>	<b>72,557</b>	<b>5,240</b>

Note: Totals may be of because of rounding

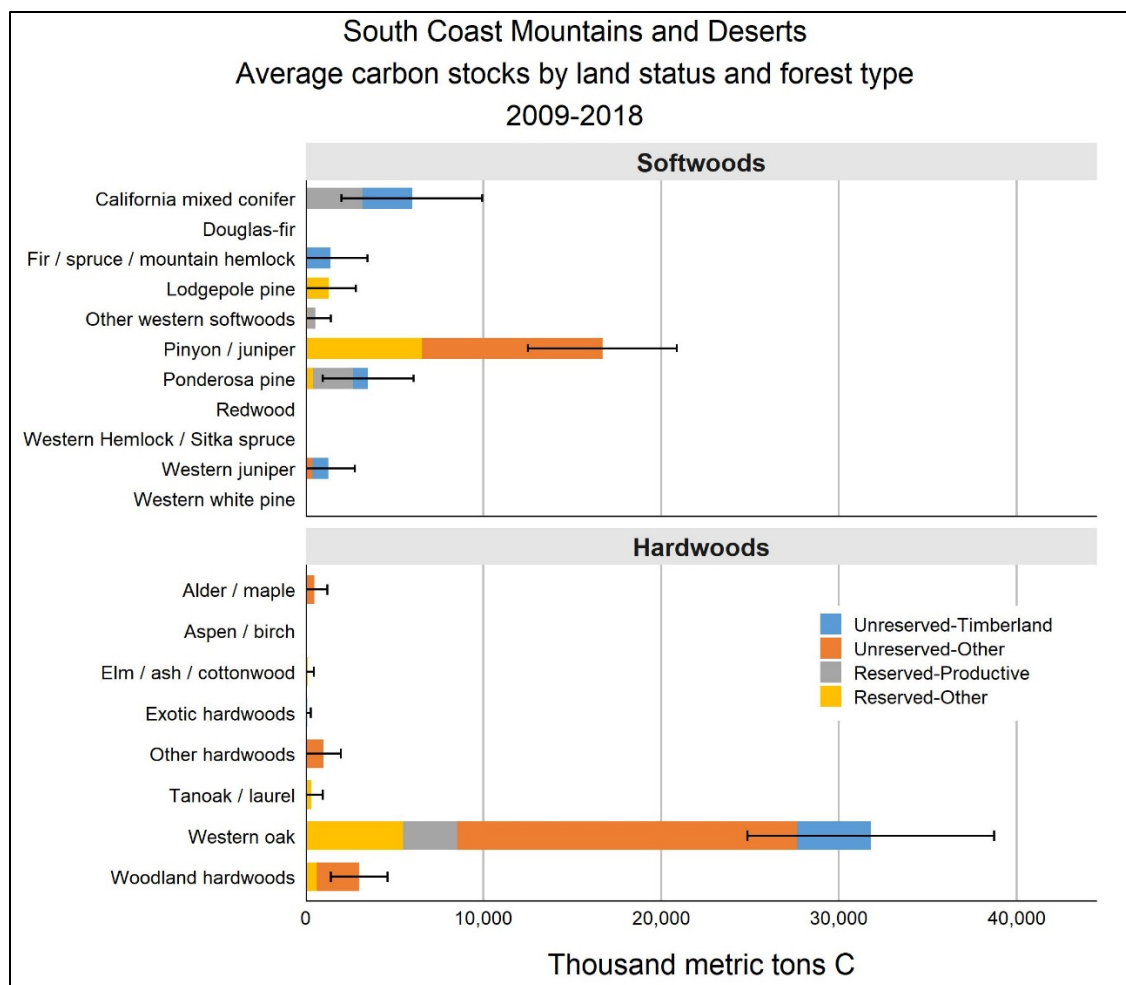


Figure A1.7.2. South Coast Mountains/Deserts: Average forest carbon stock by land status and forest type, 2009-2018 (thousand metric tons C). Error bars represent the 95% confidence interval of total stock for each forest type. Figure derived from Table A1.7.2. *\*note: "non-stocked" not depicted in this figure.*

**Table A 1.7.2: Forest land carbon stocks (thousand metric tons C) by forest type and land status, 2009-2018: South Coast Mountains and Deserts**

	Unreserved Forests:				Reserved Forests:				All forest land	
	Timberland		Other Forest		Productive		Other Forest		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE		
	<i>Thousand metric tons C</i>									
<b>Softwoods:</b>										
California mixed conifer	2,783	1,299	--	--	3,194	1,547	--	--	5,977	2,020
Douglas-fir	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	1,381	1,065	--	--	--	--	--	--	1,381	1,065
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	1,293	789	1,293	789
Pinyon / juniper	--	--	10,138	1,646	--	--	6,557	1,363	16,694	2,134
Ponderosa pine	859	627	--	--	2,255	1,065	404	407	3,517	1,301
Redwood	--	--	--	--	--	--	--	--	--	--
Western juniper	903	663	378	381	--	--	--	--	1,280	765
Western white pine	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	462	423	89	111	552	438
<b>Total</b>	<b>5,926</b>	<b>1,910</b>	<b>10,515</b>	<b>1,690</b>	<b>5,911</b>	<b>1,903</b>	<b>8,343</b>	<b>1,624</b>	<b>30,694</b>	<b>3,568</b>
<b>Hardwoods:</b>										
Alder / maple	--	--	476	378	--	--	--	--	476	378
Aspen / birch	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	3	2	--	--	127	174	130	174
Tanoak / laurel	--	--	--	--	--	--	333	327	333	327
Western oak	4,153	1,405	19,127	2,581	3,041	1,201	5,474	1,469	31,794	3,534
Woodland hardwoods	--	--	2,392	716	--	--	620	386	3,012	814
Exotic hardwoods	92	95	--	--	--	--	--	--	92	95
Other hardwoods	--	--	988	515	--	--	--	--	988	515
<b>Total</b>	<b>4,245</b>	<b>1,408</b>	<b>22,986</b>	<b>2,745</b>	<b>3,041</b>	<b>1,201</b>	<b>6,555</b>	<b>1,564</b>	<b>36,826</b>	<b>3,695</b>
<b>Nonstocked</b>	<b>1,926</b>	<b>812</b>	<b>1,469</b>	<b>607</b>	<b>443</b>	<b>349</b>	<b>881</b>	<b>407</b>	<b>5,037</b>	<b>1,177</b>
<b>All forest types</b>	<b>12,097</b>	<b>2,502</b>	<b>34,969</b>	<b>3,278</b>	<b>9,395</b>	<b>2,284</b>	<b>15,779</b>	<b>2,280</b>	<b>72,557</b>	<b>5,240</b>

Note: Totals may be off because of rounding



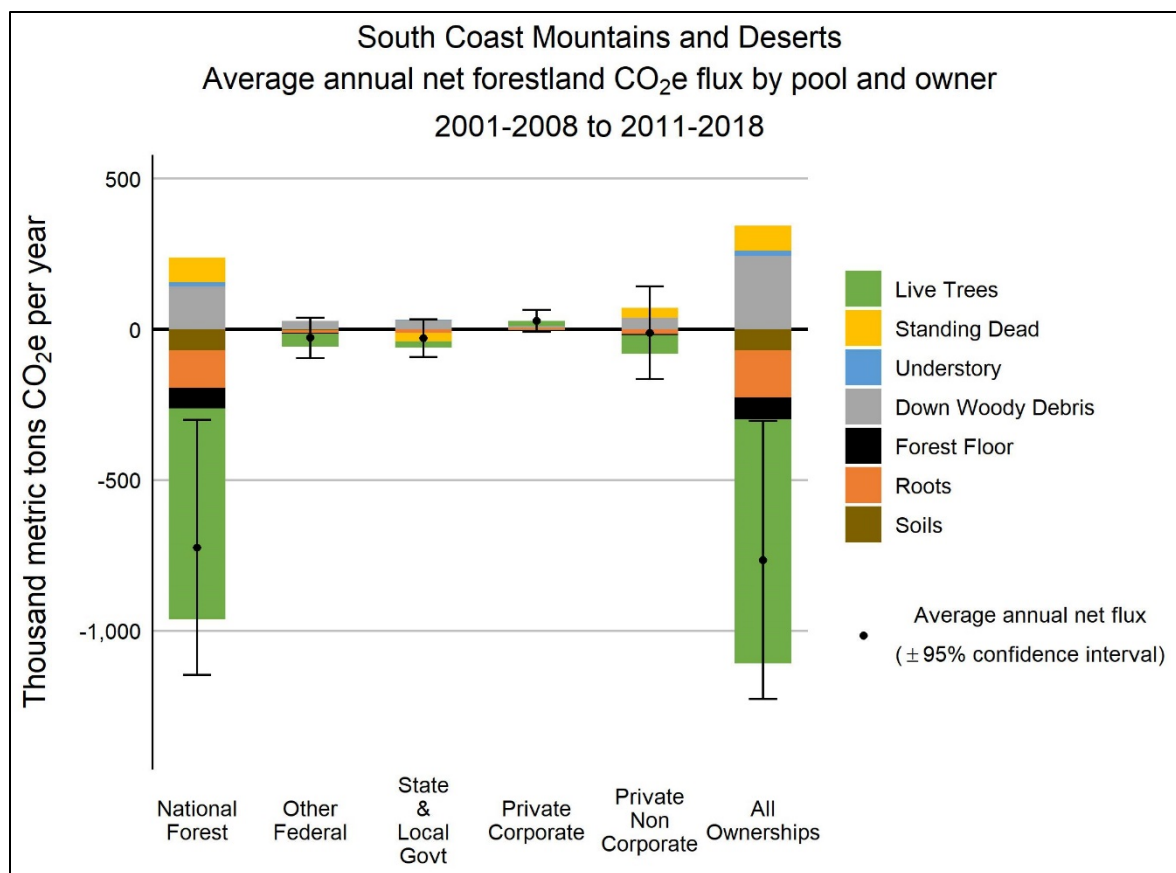


Figure A1.7.3. South Coast Mountains and Deserts average annual net forestland carbon flux by pool and ownership, 2001-2008 to 2011-2018 (MMT CO<sub>2</sub>e/yr). Estimates exclude emissions from land-use changes. Roots includes belowground live and dead tree roots. Understory includes aboveground and belowground understory vegetation. Error bars represent the 95% confidence interval of estimated net flux. Figure derived from Appendix 2, Table B8.

*\*Note: this is a new figure that was not included in previous reports.*

# Appendix 2: 2009 - 2018 California FIA forest carbon inventory tables

Flux are based on plots initially measured between 2001-2008 and re-measured between 2011-2018.

Stocks are based on 10-year averages with the current reporting period being 2009-2018.

## A. Area

### *Sampled Area*

#### ***Table A1- A8: Area of Sampled Land by Land Status and Owner Group, 2009-2018: [Region]***

Table A1: Area of Sampled Land by Land Status and Ownership Group, 2009-2018: All California

Table A2: Area of Sampled Land by Land Status and Owner Group, 2009-2018: Central Coast and Interior Ranges

Table A3: Area of Sampled Land by Land Status and Owner Group, 2009-2018: Central Valley

Table A4: Area of Sampled Land by Land Status and Owner Group, 2009-2018: Eastside

Table A5: Area of Sampled Land by Land Status and Owner Group, 2009-2018: Klamath Interior Coast Ranges

Table A6: Area of Sampled Land by Land Status and Owner Group, 2009-2018: North Coast

Table A7: Area of Sampled Land by Land Status and Owner Group, 2009-2018: Sierra Cascades

Table A8: Area of Sampled Land by Land Status and Owner Group, 2009-2018: South Coast Mountains and Deserts

### ***Forest Area for Forest Land Remaining Forest (FF)***

#### ***Table A9- A16: Area of Forest Land by Owner Group and Forest Land Status, 2009-2018: [Region]***

Table A9: Area of Forest Land by Owner Group and Forest Land Status, 2009-2018: All California

Table A10: Area of Forest Land by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table A11: Area of Forest Land by Owner Group and Forest Land Status, 2009-2018: Central Valley

Table A12: Area of Forest Land by Owner Group and Forest Land Status, 2009-2018: Eastside

Table A13: Area of Forest Land by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table A14: Area of Forest Land by Owner Group and Forest Land Status, 2009-2018: North Coast

Table A15: Area of Forest Land by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades

Table A16: Area of Forest Land by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

***Forest Area for Forest Land Remaining Forest (FF): By Forest Type, Owner Group and Forest Land Status***

Table A17: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: All California

Table A18: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table A19: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: Central Valley

Table A20: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: Eastside

Table A21: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table A22: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: North Coast

Table A23: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: Sierra Cascades

Table A24: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

**B. Net Carbon Flux for Forest Land Remaining Forest (FF)**

***Net Carbon Flux for All Pools by Owner Group***

***Tables B1- B8: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2007 to 2011-2017: [Region]***

Table B1: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2007 to 2011-2017: All California

Table B2: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2007 to 2011-2017: Central Coast and Interior Ranges

Table B3: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2007 to 2011-2017: Central Valley

Table B4: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2007 to 2011-2017: Eastside

Table B5: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2007 to 2011-2017: Klamath Interior Coast Ranges

Table B6: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2007 to 2011-2017: North Coast

Table B7: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2007 to 2011-2017: Sierra Cascades

Table B8: Annual Net Change in Carbon Stocks on Forest Land for all Pools by Owner Group, 2001-2007 to 2011-2017: South Coast Mountains and Deserts

### ***Disturbance Effects on Net Forest Carbon Flux***

Table B9.1: Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2007 to 2011-2017: All California

Table B9.2: Average annual carbon (CO<sub>2</sub>e) flux in live trees from growth, harvest, mortality, 2001-2007 to 2011-2017: COUNTY

Table B9.3: Average annual carbon (CO<sub>2</sub>e) flux in live trees from growth, harvest, mortality, 2001-2007 to 2011-2017: NATIONAL FOREST

Table B9.4: Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2007 to 2011-2017: Coastal Forest Practice District

Table B9.5: Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2007 to 2011-2017: Northern Forest Practice District

Table B9.6: Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2007 to 2011-2017: Southern Forest Practice District

Table B10: Annual Net Change Per Acre in Carbon Stock for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2007 to 2011-2017: All California

Table B11: Annual Net Change in Carbon Stocks for Aboveground Pools on Timberland by Disturbance, Forest Land Status and Owner Group, 2001-2007 to 2011-2017: All California

Table B12: Annual Net Change Per Acre in Carbon Stock for Aboveground Pools on Timberland by Disturbance, Forest Land Status and Owner Group, 2001-2007 to 2011-2017: All California

## **C. Forest Carbon Stocks for Forest Land Remaining Forest (FF): by Owner Group and Forest Land Status**

### ***Aboveground Live Tree Pool***

#### ***Tables C1 – C8: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$ inches) by Owner Group and Forest Land Status, 2009-2018: [Region]***

Table C1: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, 2009-2018: All California (Same as Table C9.8)

Table C2: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table C3: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, 2009-2018: Central Valley

Table C4: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, 2009-2018: Eastside

Table C5: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table C6: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, 2009-2018: North Coast

Table C7: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades

Table C8: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

#### ***Tables C9.1 – C9.8: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$ inches) by Owner Group and Forest Land Status, All California, (10-year averages): [Years]***

Table C9.1: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, All California, (10-year averages): 2001-2010

Table C9.2: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, All California, (10-year averages): 2002-2011

Table C9.3: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, All California, (10-year averages): 2003-2012

Table C9.4: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, All California, (10-year averages): 2004-2013

Table C9.5: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, All California, (10-year averages): 2005-2014

Table C9.6: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, All California, (10-year averages): 2006-2015

Table C9.7: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, All California (10-year averages): 2007-2016

Table C9.8: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inches) by Owner Group and Forest Land Status, All California (10-year averages): 2009-2018 (Same as Table C1)

### ***Aboveground Dead Tree Pool***

#### ***Tables C10 – C17: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$ inch) by Owner Group and Forest Land Status, 2009-2018: [Region]***

Table C10: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: All California (Same as Table C18.8)

Table C11: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table C12: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: Central Valley

Table C13: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: Eastside

Table C14: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table C15: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: North Coast

Table C16: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades

Table C17: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

***Tables C18.1 – C18.8 – Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees Foliage ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): [Years]***

Table C18.1: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees Foliage ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2001-2010

Table C18.2: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees Foliage ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2002-2011

Table C18.3: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees Foliage ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2003-2012

Table C18.4: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees Foliage ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2004-2013

Table C18.5: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees Foliage ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2005-2014

Table C18.6: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees Foliage ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2006-2015

Table C18.7: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees Foliage ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2007-2016

Table C18.8: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees Foliage ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2009-2018 (Same as Table C10)

***Aboveground Live Understory Vegetation Pool***

***Tables C19 – C26: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: [Region]***

Table C19: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: All California (information from Table C19 combined with information from Table C28 in Table C27.8)

Table C20: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table C21: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: Central Valley

Table C22: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: Eastside

Table C23: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table C24: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: North Coast

Table C25: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades

Table C26: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

***Aboveground and Belowground Live Understory Vegetation, 10-Year Averages***

***Tables C27.1 – C27.8: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, All California (10-year averages): [Years]***

Table C27.1: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, All California (10-year averages): 2001-2010

Table C27.2: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, All California (10-year averages): 2002-2011

Table C27.3: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, All California (10-year averages): 2003-2012

Table C27.4: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, All California (10-year averages): 2004-2013

Table C27.5: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, All California (10-year averages): 2005-2014

Table C27.6: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, All California (10-year averages): 2006-2015

Table C27.7: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, All California (10-year averages): 2007-2016

Table C27.8: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, All California (10-year averages): 2009-2018 (Same as Table C19 and Table C28 combined)



### ***Belowground Live Understory Vegetation Pool***

#### ***Tables C28 – C35: Belowground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: [Region]***

Table C28: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: All California (information from Table C28 combined with information from Table C19 in Table C27.8)

Table C29: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table C30: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: Central Valley

Table C31: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: Eastside

Table C32: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table C33: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: North Coast

Table C34: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades

Table C35: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

### ***Belowground Live Tree Pool***

#### ***Tables C36 - 43: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$ inch) by Owner Group and Forest Land Status, 2009-2018: [Region]***

Table C36: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Owner Group and Forest Land Status, 2009-2018: All California (information from Table C36 combined with information from Table C45 in Table C44.8)

Table C37: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Range

Table C38: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Owner Group and Forest Land Status, 2009-2018: Central Valley

Table C39: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Owner Group and Forest Land Status, 2009-2018: Eastside

Table C40: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table C41: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Owner Group and Forest Land Status, 2009-2018: North Coast

Table C42: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades

Table C43: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

***Belowground Live and Dead Tree Pool, 10-year averages***

***Tables C44.1 – C44.8: Belowground Carbon, Dry Weight of Live ( $\geq 1$  inch) and Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): [Years]***

Table C44.1: Belowground Carbon, Dry Weight of Live ( $\geq 1$  inch) and Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2001-2010

Table C44.2: Belowground Carbon, Dry Weight of Live ( $\geq 1$  inch) and Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2002-2011

Table C44.3: Belowground Carbon, Dry Weight of Live ( $\geq 1$  inch) and Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2003-2012

Table C44.4: Belowground Carbon, Dry Weight of Live ( $\geq 1$  inch) and Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2004-2013

Table C44.5: Belowground Carbon, Dry Weight of Live ( $\geq 1$  inch) and Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2005-2014

Table C44.6: Belowground Carbon, Dry Weight of Live ( $\geq 1$  inch) and Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2006-2015

Table C44.7: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) and Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2007-2016

Table C44.8: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) and Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, All California (10-year averages): 2009-2018 (Same as Table C36 and Table C45 combined)

### ***Belowground Dead Tree Pool***

#### ***Tables C45 – 52: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$ inch) by Owner Group and Forest Land Status, 2009-2018: [Regions]***

Table C45: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: All California (information from Table C45 combined with information from Table C36 in Table C44.8)

Table C46: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table C47: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: Central Valley

Table C48: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: Eastside

Table C49: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table C50: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: North Coast

Table C51: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades

Table C52: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

### ***Soil Organic Carbon Pool***

#### ***Tables C53 – C60: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: [Region]***

Table C53: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: All California (information duplicated in Table C61.8)

Table C54: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table C55: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: Central Valley

Table C56: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: Eastside

Table C57: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table C58: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: North Coast

Table C59: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades

Table C60: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

***Tables C61.1 – C61.8: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10 year averages): [Years]***

Table C61.1: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10-year averages): 2001-2010

Table C61.2: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10-year averages): 2002-2011

Table C61.3: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10-year averages): 2003-2012

Table C61.4: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10-year averages): 2004-2013

Table C61.5: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10-year averages): 2005-2014

Table C61.6: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10-year averages): 2006-2015

Table C61.7: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10-year averages): 2007-2016

Table C61.8: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10-year averages): 2009-2018 (Same as Table C53)

***Aboveground Down Dead Wood Pool***

***Tables C62 – C69: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2009-2018: [Region]***

Table C62: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2005-2016: All California (information duplicated in Table C70.8)

Table C63: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2005-2016: Central Coast and Interior Ranges

Table C64: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2005-2016: Central Valley

Table C65: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2005-2016: Eastside

Table C66: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2005-2016: Klamath Interior Coast Ranges

Table C67: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2005-2016: North Coast

Table C68: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2005-2016: Sierra Cascades

Table C69: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2005-2016: South Coast Mountains and Deserts

***Tables C70.1 – C70.8: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10-year averages): [Years]***

Table C70.1: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10-year averages): 2001-2010

Table C70.2: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10-year averages): 2002-2011

Table C70.3: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10-year averages): 2003-2012

Table C70.4: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10-year averages): 2004-2013

Table C70.5: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10-year averages): 2005-2014

Table C70.6: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10-year averages): 2006-2015

Table C70.7: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10-year averages): 2007-2016

Table C70.8: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10-year averages): 2009-2018 (information duplicated in Table C62)

***Forest Floor Pool***

***Tables C71 – C78: Forest Floor by Owner Group and Forest Land Status, 2009-2018: [Region]***

Table C71: Forest Floor by Owner Group and Forest Land Status, 2009-2018: All California (same as Table C79.8)

Table C72: Forest Floor by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table C73: Forest Floor by Owner Group and Forest Land Status, 2009-2018: Central Valley

Table C74: Forest Floor by Owner Group and Forest Land Status, 2009-2018: Eastside

Table C75: Forest Floor by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table C76: Forest Floor by Owner Group and Forest Land Status, 2009-2018: North Coast

Table C77: Forest Floor by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades

Table C78: Forest Floor by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

***Tables C79.1 – C79.8: Forest Floor Pool, by Owner Group and Forest Land Status, All California (10-year averages): [Years]***

Table C79.1: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2001 – 2010

Table C79.2: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2002 – 2011

Table C79.3: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2003 – 2012

Table C79.4: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2004 – 2013

Table C79.5: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2005 – 2014

Table C79.6: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2006 – 2015

Table C79.7: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2007 – 2016

Table C79.8: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2008 – 2017 (Information duplicated in Table C71)

## **D. Forest Carbon Stocks for Forest Land Remaining Forest (FF): by Forest Type and Forest Land Status**

### ***Aboveground Live Tree Pool***

#### ***Tables D1 - D8: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$ inch) by Forest Type and Forest Land Status, 2009-2018: [Region]***

Table D1: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inch) by Forest Type and Land Status, 2009-2018: All California

Table D2: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inch) by Forest Type and Land Status, 2009-2018: Central Coast and Interior Ranges

Table D3: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inch) by Forest Type and Land Status, 2009-2018: Central Valley

Table D4: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inch) by Forest Type and Land Status, 2009-2018: Eastside

Table D5: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inch) by Forest Type and Land Status, 2009-2018: Klamath Interior Coast Ranges

Table D6: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inch) by Forest Type and Land Status, 2009-2018: North Coast

Table D7: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inch) by Forest Type and Land Status, 2009-2018: Sierra Cascades

Table D8: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage ( $\geq 1$  inch) by Forest Type and Land Status, 2009-2018: South Coast Mountains and Deserts

### ***Aboveground Dead Tree Pool***

#### ***Tables D9 – D16: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$ inch) by Forest Type and Forest Land Status, 2009-2018: [Region]***

Table D9: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: All California

Table D10: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table D11: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: Central Valley

Table D12: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inches) by Forest Type and Forest Land Status, 2009-2018: Eastside

Table D13: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table D14: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: North Coast

Table D15: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: Sierra Cascades

Table D16: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status - South Coast Mountains and Deserts

### ***Aboveground Live Understory Vegetation Pool***

#### ***Tables D17 – D24: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Forest Type and Forest Land Status, 2009-2018: [Region]***

Table D17: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: All California

Table D18: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table D19: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Central Valley

Table D20: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Eastside

Table D21: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table D22: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: North Coast

Table D23: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Sierra Cascades

Table D24: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

### ***Belowground Live Understory Vegetation Pool***

#### ***Tables D25 - D32 – Belowground Carbon, Dry Weight of Live Understory Vegetation by Forest Type and Forest Land Status, 2009-2018: [Region]***

Table D25: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: All California



Table D26: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table D27: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Central Valley

Table D28: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Eastside

Table D29: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table D30: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: North Coast

Table D31: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Sierra Cascades

Table D32: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

### ***Belowground Live Tree Pool***

#### ***Tables D33 – D40 – Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$ inch) by Forest Type and Forest Land Status, 2009-2018: [Region]***

Table D33: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Forest Type and Forest Land Status, 2009-2018: All California

Table D34: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Forest Type and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table D35: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Forest Type and Forest Land Status, 2009-2018: Central Valley

Table D36: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Forest Type and Forest Land Status, 2009-2018: Eastside

Table D37: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Forest Type and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table D38: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Forest Type and Forest Land Status, 2009-2018: North Coast

Table D39: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Forest Type and Forest Land Status, 2009-2018: Sierra Cascades

Table D40: Belowground Carbon, Dry Weight of Live Trees ( $\geq 1$  inch) by Forest Type and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

### ***Belowground Dead Tree Pool***

#### ***Tables D41 - 48 – Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$ inch) by Forest Type and Forest Land Status, 2009-2018: [Region]***

Table D41: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: All California

Table D42: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table D43: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: Central Valley

Table D44: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: Eastside

Table D45: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table D46: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: North Coast

Table D47: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: Sierra Cascades

Table D48: Belowground Carbon, Dry Weight of Dead Trees ( $\geq 5$  inch) by Forest Type and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

### ***Soil Organic Carbon Pool***

#### ***Tables D49 – D56 – Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: [Region]***

Table D49: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: All California

Table D50: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table D51: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: Central Valley

Table D52: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: Eastside

Table D53: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table D54: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: North Coast

Table D55: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: Sierra Cascades

Table D56: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

### ***Aboveground Down Dead Wood Pool:***

#### ***Tables D57 – D64 – Aboveground Carbon Mass of Down Dead Wood by Forest Type Group and Forest Land Status, 2009-2018: [Region]***

Table D57: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: All California

Table D58: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table D59: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: Central Valley

Table D60: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: Eastside

Table D61: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table D62: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: North Coast

Table D63: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: Sierra Cascades

Table D64: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

### ***Forest Floor Pool***

#### ***Tables D65 – D72 – Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: [Region]***

Table D65: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: All California

Table D66: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Table D67: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: Central Valley

Table D68: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: Eastside

Table D69: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Table D70: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: North Coast

Table D71: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: Sierra Cascades

Table D72: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

## **E. Forest Land Conversions (LF)**

### ***Changes in Area from Forest Land-Use Conversions***

Table E1: Annual Change in Forest Land Area To and From Other IPCC Land-Use Classes in California, 2001-2008 to 2011-2018

### ***Net Forest Carbon Flux from Forest Land-Use Conversions***

Table E2: Annual Change in Carbon Pools Due to Change in Land-Use Between Forest and Non-forest in California, 2001-2008 to 2011-2018

## **F. Net Flux from Other GHG emissions**

Table F1 - Annual Net Emissions of Non-CO<sub>2</sub>e Greenhouse Gases from Fire, 2001-2008 to 2011-2018

**Table A1: Area of Sampled Land by Land Status and Owner Group, 2009-2018: All California**

Land status	Ownership group									
	National forest		Other federal		State and local govt.		Private		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>									
<b>Unreserved forest land:</b>										
Timberland	8,787	121	273	40	156	29	7,203	119	16,419	169
Other unreserved forest land	2,385	99	1,039	72	196	33	5,069	139	8,688	185
Total, unreserved	11,172	121	1,312	81	351	43	12,272	153	25,107	203
<b>Reserved forest land:</b>										
Reserved productive forest land	2,794	91	1,063	62	328	36	--	--	4,184	116
Other reserved forest land	1,266	77	683	61	423	45	--	--	2,372	107
Total, reserved forest land	4,066	96	1,746	81	751	54	--	--	6,563	136
<b>Total, forest land</b>	15,238	123	3,058	98	1,102	62	12,272	153	31,670	201
<b>Nonforest and other area:</b>										
Nonforest land	5,327	113	23,855	133	2,965	91	36,110	187	68,257	212
Noncensus water	39	9	29	11	17	7	152	28	236	32
Census water	--	--	--	--	4,896	69	--	--	4,896	69
Total, nonforest and other area	5,366	113	23,883	133	7,877	109	36,262	186	73,389	202
<b>Total, all sampled area</b>	20,605	68	26,941	130	8,979	120	48,534	158	105,059	49

**Table A2: Area of Sampled Land by Land Status and Owner Group, 2009-2018: Central Coast and Interior Ranges**

Land status	Ownership group									
	National forest		Other federal		State and local govt.		Private		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>									
<b>Unreserved forest land:</b>										
Timberland	2	1	--	--	15	9	202	34	218	36
Other unreserved forest land	83	21	113	25	40	14	865	66	1,101	75
Total, unreserved	84	21	113	25	55	16	1,067	74	1,318	82
<b>Reserved forest land:</b>										
Reserved productive forest land	29	13	--	--	86	22	--	--	115	26
Other reserved forest land	123	27	17	10	222	32	--	--	362	43
Total, reserved forest land	152	30	17	10	309	37	--	--	477	48
<b>Total, forest land</b>	236	36	129	27	363	40	1,067	74	1,796	95
<b>Nonforest and other area:</b>										
Nonforest land	482	53	729	67	341	43	5,845	177	7,396	199
Noncensus water	2	2	6	5	3	2	15	8	25	9
Census water	--	--	--	--	1,010	72	--	--	1,010	72
Total, nonforest and other area	484	53	734	67	1,353	84	5,860	177	8,432	212
<b>Total, all sampled area</b>	720	64	864	72	1,717	94	6,926	194	10,227	234

**Table A3: Area of Sampled Land by Land Status and Owner Group, 2009-2018: Central Valley**

Land status	Ownership group									
	National forest		Other federal		State and local govt.		Private		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>									
<b>Unreserved forest land:</b>										
Timberland	--	--	--	--	--	--	--	--	--	--
Other unreserved forest land	--	--	--	--	4	3	78	20	83	20
Total, unreserved	--	--	--	--	4	3	78	20	83	20
<b>Reserved forest land:</b>										
Reserved productive forest land	--	--	--	--	--	--	--	--	--	--
Other reserved forest land	--	--	1	1	5	5	--	--	6	5
Total, reserved forest land	--	--	1	1	5	5	--	--	6	5
<b>Total, forest land</b>	--	--	1	1	9	6	78	20	89	21
<b>Nonforest and other area:</b>										
Nonforest land	--	--	291	43	168	32	11,718	215	12,177	220
Noncensus water	--	--	--	--	2	2	30	14	32	14
Census water	--	--	--	--	142	30	--	--	142	30
Total, nonforest and other area	--	--	291	43	312	44	11,748	215	12,351	222
<b>Total, all sampled area</b>	--	--	291	43	321	45	11,827	215	12,440	223

**Table A4: Area of Sampled Land by Land Status and Owner Group, 2009-2018: Eastside**

Land status	Ownership group									
	National forest		Other federal		State and local govt.		Private		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>									
<b>Unreserved forest land:</b>										
Timberland	686	60	25	12	--	--	327	44	1,037	76
Other unreserved forest land	773	62	475	51	6	6	213	36	1,468	88
Total, unreserved	1,459	85	500	53	6	6	540	57	2,505	115
<b>Reserved forest land:</b>										
Reserved productive forest land	54	18	--	--	6	6	--	--	60	19
Other reserved forest land	110	27	119	27	9	8	--	--	238	39
Total, reserved forest land	165	32	119	27	15	10	--	--	298	43
<b>Total, forest land</b>	1,623	91	619	58	21	12	540	57	2,803	122
<b>Nonforest and other area:</b>										
Nonforest land	1,116	73	3,785	142	316	43	1,256	84	6,473	185
Noncensus water	2	2	6	6	6	6	12	9	26	13
Census water	--	--	--	--	263	40	--	--	263	40
Total, nonforest and other area	1,118	73	3,792	142	585	59	1,268	85	6,763	189
<b>Total, all sampled area</b>	2,742	113	4,411	151	605	60	1,808	102	9,566	221



**Table A5: Area of Sampled Land by Land Status and Owner Group, 2009-2018: Klamath Interior Coast Ranges**

Land status	Ownership group									
	National forest		Other federal		State and local govt.		Private		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>									
<b>Unreserved forest land:</b>										
Timberland	2,548	105	117	27	16	9	1,691	94	4,373	144
Other unreserved forest land	397	47	140	28	26	12	1,237	80	1,800	97
Total, unreserved	2,945	112	257	39	42	15	2,929	121	6,173	170
<b>Reserved forest land:</b>										
Reserved productive forest land	1,350	74	68	20	6	5	--	--	1,424	76
Other reserved forest land	263	39	70	20	25	12	--	--	358	46
Total, reserved forest land	1,614	81	137	29	32	14	--	--	1,782	87
<b>Total, forest land</b>	<b>4,559</b>	<b>133</b>	<b>394</b>	<b>47</b>	<b>74</b>	<b>20</b>	<b>2,929</b>	<b>121</b>	<b>7,955</b>	<b>187</b>
<b>Nonforest and other area:</b>										
Nonforest land	355	43	339	44	65	18	2,157	107	2,916	124
Noncensus water	10	5	2	2	2	2	45	14	59	15
Census water	--	--	--	--	159	31	--	--	159	31
Total, nonforest and other area	365	43	341	44	226	36	2,202	108	3,134	129
<b>Total, all sampled area</b>	<b>4,924</b>	<b>140</b>	<b>735</b>	<b>65</b>	<b>300</b>	<b>42</b>	<b>5,130</b>	<b>163</b>	<b>11,089</b>	<b>227</b>

**Table A6: Area of Sampled Land by Land Status and Owner Group, 2009-2018: North Coast**

Land status	Ownership group									
	National forest		Other federal		State and local govt.		Private		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>									
<b>Unreserved forest land:</b>										
Timberland	23	12	48	17	73	20	2,026	98	2,170	101
Other unreserved forest land	7	6			8	5	184	30	199	31
Total, unreserved	30	13	48	17	81	21	2,210	101	2,369	105
<b>Reserved forest land:</b>										
Reserved productive forest land	12	9	108	26	153	27	--	--	273	39
Other reserved forest land	--	--	7	6	48	17	--	--	54	18
Total, reserved forest land	12	9	115	26	200	32	--	--	327	42
<b>Total, forest land</b>	41	16	163	31	282	34	2,210	101	2,696	111
<b>Nonforest and other area:</b>										
Nonforest land	--	--	96	25	98	24	1,119	79	1,314	86
Noncensus water	--	--	--	--	1	2	25	11	26	11
Census water	--	--	--	--	1,035	73	--	--	1,035	73
Total, nonforest and other area	--	--	96	25	1,135	77	1,144	80	2,375	113
<b>Total, all sampled area</b>	41	16	259	39	1,417	84	3,354	132	5,071	161

**Table A7: Area of Sampled Land by Land Status and Owner Group, 2009-2018: Sierra Cascades**

Land status	Ownership group									
	National forest		Other federal		State and local govt.		Private		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>									
<b>Unreserved forest land:</b>										
Timberland	5,398	134	81	22	52	18	2,938	114	8,468	176
Other unreserved forest land	788	64	262	39	92	24	2,232	102	3,373	128
Total, unreserved	6,186	141	343	44	144	30	5,169	146	11,842	206
<b>Reserved forest land:</b>										
Reserved productive forest land	1,238	78	887	59	67	20	--	--	2,192	100
Other reserved forest land	618	56	354	45	65	19	--	--	1,037	75
Total, reserved forest land	1,856	87	1,241	71	132	28	--	--	3,229	116
<b>Total, forest land</b>	<b>8,042</b>	<b>159</b>	<b>1,584</b>	<b>79</b>	<b>276</b>	<b>40</b>	<b>5,169</b>	<b>146</b>	<b>15,071</b>	<b>225</b>
<b>Nonforest and other area:</b>										
Nonforest land	1,636	85	1,124	77	176	30	3,405	134	6,342	178
Noncensus water	22	7	9	4	3	2	13	6	48	10
Census water	--	--	--	--	286	41	--	--	286	41
Total, nonforest and other area	1,659	86	1,133	77	465	51	3,418	134	6,675	183
<b>Total, all sampled area</b>	<b>9,701</b>	<b>172</b>	<b>2,717</b>	<b>105</b>	<b>742</b>	<b>65</b>	<b>8,587</b>	<b>192</b>	<b>21,747</b>	<b>277</b>

**Table A8: Area of Sampled Land by Land Status and Owner Group, 2009-2018: South Coast Mountains and Deserts**

	Ownership group									
	National forest		Other federal		State and local govt.		Private		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<b>Land status</b>	<i>thousand acres</i>									
<b>Unreserved forest land:</b>										
Timberland	130	28	2	2	--	--	19	10	152	29
Other unreserved forest land	339	42	49	16	19	10	259	38	666	59
Total, unreserved	469	50	51	16	19	10	279	39	818	66
<b>Reserved forest land:</b>										
Reserved productive forest land	110	27	--	--	10	8	--	--	120	28
Other reserved forest land	151	30	117	26	48	17	--	--	317	43
Total, reserved forest land	268	40	117	26	58	18	--	--	443	51
<b>Total, forest land</b>	737	64	168	31	77	21	279	39	1,260	84
<b>Nonforest and other area:</b>										
Nonforest land	1,738	87	17,490	169	1,801	78	10,611	220	31,640	288
Noncensus water	2	2	6	6	--	--	12	9	20	11
Census water	--	--	--	--	2,000	90	--	--	2,000	90
Total, nonforest and other area	1,740	87	17,496	169	3,801	118	10,623	220	33,660	299
<b>Total, all sampled area</b>	2,477	105	17,664	170	3,878	119	10,902	224	34,920	308

**Table A9: Area of forest land by Owner Group and Forest Land Status, 2009-2018: All California**

Owner class	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>													
<b>USDA Forest Service:</b>														
National Forest	8,787	121	2,385	99	11,172	121	2,794	91	1,266	77	4,066	96	15,238	123
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>8,787</b>	<b>121</b>	<b>2,385</b>	<b>99</b>	<b>11,172</b>	<b>121</b>	<b>2,794</b>	<b>91</b>	<b>1,266</b>	<b>77</b>	<b>4,066</b>	<b>96</b>	<b>15,238</b>	<b>123</b>
<b>Other federal government:</b>														
Bureau of Land Management	251	38	901	68	1,152	77	75	22	202	35	277	41	1,429	84
Department of Defense and Energy	19	11	80	21	100	24	--	--	6	6	6	6	105	24
National Park Service	--	--	--	--	--	--	984	61	471	52	1,455	76	1,455	76
U.S. Fish and Wildlife Service	--	--	--	--	--	--	4	4	1	1	4	4	4	4
Other federal	3	4	57	18	60	18	--	--	5	3	5	3	65	18
<b>Total</b>	<b>273</b>	<b>40</b>	<b>1,039</b>	<b>72</b>	<b>1,312</b>	<b>81</b>	<b>1,063</b>	<b>62</b>	<b>683</b>	<b>61</b>	<b>1,746</b>	<b>81</b>	<b>3,058</b>	<b>98</b>
<b>State and local government:</b>														
Local	58	18	142	28	201	34	44	16	151	28	196	31	396	45
State	97	22	53	17	150	28	279	33	266	37	544	48	694	48
Other public	--	--	1	1	1	1	5	5	6	6	11	8	11	8
<b>Total</b>	<b>156</b>	<b>29</b>	<b>196</b>	<b>33</b>	<b>351</b>	<b>43</b>	<b>328</b>	<b>36</b>	<b>423</b>	<b>45</b>	<b>751</b>	<b>54</b>	<b>1,102</b>	<b>62</b>
<b>Private:</b>														
Corporate	4,534	122	891	69	5,425	136	--	--	--	--	--	--	5,425	136
<b>Noncorporate private:</b>														
Total, noncorporate private	2,669	111	4,178	130	6,847	160	--	--	--	--	--	--	6,847	160
<b>All private</b>	<b>7,203</b>	<b>119</b>	<b>5,069</b>	<b>139</b>	<b>12,272</b>	<b>153</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>12,272</b>	<b>153</b>
<b>All owners</b>	<b>16,419</b>	<b>169</b>	<b>8,688</b>	<b>185</b>	<b>25,107</b>	<b>203</b>	<b>4,184</b>	<b>116</b>	<b>2,372</b>	<b>107</b>	<b>6,563</b>	<b>136</b>	<b>31,670</b>	<b>201</b>

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table A10: Area of forest land by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Owner class	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>													
<b>USDA Forest Service:</b>														
National Forest	2	1	83	21	84	21	29	13	123	27	152	30	236	36
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	2	1	83	21	84	21	29	13	123	27	152	30	236	36
<b>Other federal government:</b>														
Bureau of Land Management	--	--	53	18	53	18	--	--	11	8	11	8	63	19
Department of Defense and Energy	--	--	49	16	49	16	--	--	--	--	--	--	49	16
National Park Service	--	--	--	--	--	--	--	--	6	6	6	6	6	6
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	11	8	11	8	--	--	--	--	--	--	11	8
Total	--	--	113	25	113	25	--	--	17	10	17	10	129	27
<b>State and local government:</b>														
Local	--	--	30	12	30	12	44	16	98	22	142	26	172	28
State	15	9	10	7	25	11	37	15	119	25	156	29	181	31
Other public	--	--	--	--	--	--	5	5	6	6	11	8	11	8
Total	15	9	40	14	55	16	86	22	222	32	309	37	363	40
<b>Private:</b>														
Corporate	39	15	139	27	178	31	--	--	--	--	--	--	178	31
<b>Noncorporate private:</b>														
Total, noncorporate private	163	31	726	61	889	68	--	--	--	--	--	--	889	68
<b>All private</b>	202	34	865	66	1,067	74	--	--	--	--	--	--	1,067	74
<b>All owners</b>	218	36	1,101	75	1,318	82	115	26	362	43	477	48	1,796	95

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table A11: Area of forest land by Owner Group and Forest Land Status, 2009-2018: Central Valley

Owner class	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>													
<b>USDA Forest Service:</b>														
National Forest	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other federal government:</b>														
Bureau of Land Management	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	1	1	1	1	1	1
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	1	1	1	1	1	1
<b>State and local government:</b>														
Local	--	--	4	3	4	3	--	--	--	--	--	--	4	3
State	--	--	--	--	--	--	--	--	5	5	5	5	5	5
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	4	3	4	3	--	--	5	5	5	5	9	6
<b>Private:</b>														
Corporate	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Noncorporate private:</b>														
Total, noncorporate private	--	--	78	20	78	20	--	--	--	--	--	--	78	20
<b>All private</b>	--	--	78	20	78	20	--	--	--	--	--	--	78	20
<b>All owners</b>	--	--	83	20	83	20	--	--	6	5	6	5	89	21

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table A12: Area of forest land by Owner Group and Forest Land Status, 2009-2018: Eastside

Owner class	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>													
<b>USDA Forest Service:</b>														
National Forest	686	60	773	62	1,459	85	54	18	110	27	165	32	1,623	91
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>686</b>	<b>60</b>	<b>773</b>	<b>62</b>	<b>1,459</b>	<b>85</b>	<b>54</b>	<b>18</b>	<b>110</b>	<b>27</b>	<b>165</b>	<b>32</b>	<b>1,623</b>	<b>91</b>
<b>Other federal government:</b>														
Bureau of Land Management	25	12	447	50	473	51	--	--	53	18	53	18	525	54
Department of Defense and Energy	--	--	28	13	28	13	--	--	--	--	--	--	28	13
National Park Service	--	--	--	--	--	--	--	--	66	20	66	20	66	20
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>25</b>	<b>12</b>	<b>475</b>	<b>51</b>	<b>500</b>	<b>53</b>	<b>--</b>	<b>--</b>	<b>119</b>	<b>27</b>	<b>119</b>	<b>27</b>	<b>619</b>	<b>58</b>
<b>State and local government:</b>														
Local	--	--	6	6	6	6	--	--	--	--	--	--	6	6
State	--	--	--	--	--	--	6	6	9	8	15	10	15	10
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>9</b>	<b>8</b>	<b>15</b>	<b>10</b>	<b>21</b>	<b>12</b>
<b>Private:</b>														
Corporate	246	38	73	21	319	44	--	--	--	--	--	--	319	44
<b>Noncorporate private:</b>														
Total, noncorporate private	81	22	141	29	221	37	--	--	--	--	--	--	221	37
<b>All private</b>	<b>327</b>	<b>44</b>	<b>213</b>	<b>36</b>	<b>540</b>	<b>57</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>540</b>	<b>57</b>
<b>All owners</b>	<b>1,037</b>	<b>76</b>	<b>1,468</b>	<b>88</b>	<b>2,505</b>	<b>115</b>	<b>60</b>	<b>19</b>	<b>238</b>	<b>39</b>	<b>298</b>	<b>43</b>	<b>2,803</b>	<b>122</b>

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



Table A13: Area of forest land by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Owner class	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>													
<b>USDA Forest Service:</b>														
National Forest	2,548	105	397	47	2,945	112	1,350	74	263	39	1,614	81	4,559	133
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>2,548</b>	<b>105</b>	<b>397</b>	<b>47</b>	<b>2,945</b>	<b>112</b>	<b>1,350</b>	<b>74</b>	<b>263</b>	<b>39</b>	<b>1,614</b>	<b>81</b>	<b>4,559</b>	<b>133</b>
<b>Other federal government:</b>														
Bureau of Land Management	114	26	132	28	246	38	7	6	23	12	29	14	276	41
Department of Defense and Energy	--	--	--	--	--	--	--	--	6	6	6	6	6	6
National Park Service	--	--	--	--	--	--	61	19	40	15	101	25	101	25
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	3	4	7	5	10	7	--	--	1	1	1	1	11	7
<b>Total</b>	<b>117</b>	<b>27</b>	<b>140</b>	<b>28</b>	<b>257</b>	<b>39</b>	<b>68</b>	<b>20</b>	<b>70</b>	<b>20</b>	<b>137</b>	<b>29</b>	<b>394</b>	<b>47</b>
<b>State and local government:</b>														
Local	7	6	11	8	19	10	--	--	6	6	6	6	25	12
State	9	6	14	9	23	11	6	5	19	11	25	13	48	17
Other public	--	--	1	1	1	1	--	--	--	--	--	--	1	1
<b>Total</b>	<b>16</b>	<b>9</b>	<b>26</b>	<b>12</b>	<b>42</b>	<b>15</b>	<b>6</b>	<b>5</b>	<b>25</b>	<b>12</b>	<b>32</b>	<b>14</b>	<b>74</b>	<b>20</b>
<b>Private:</b>														
Corporate	941	72	272	39	1,213	82	--	--	--	--	--	--	1,213	82
<b>Noncorporate private:</b>														
Total, noncorporate private	750	66	965	71	1,715	96	--	--	--	--	--	--	1,715	96
<b>All private</b>	<b>1,691</b>	<b>94</b>	<b>1,237</b>	<b>80</b>	<b>2,929</b>	<b>121</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2,929</b>	<b>121</b>
<b>All owners</b>	<b>4,373</b>	<b>144</b>	<b>1,800</b>	<b>97</b>	<b>6,173</b>	<b>170</b>	<b>1,424</b>	<b>76</b>	<b>358</b>	<b>46</b>	<b>1,782</b>	<b>87</b>	<b>7,955</b>	<b>187</b>

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table A14: Area of forest land by Owner Group and Forest Land Status, 2009-2018: North Coast

Owner class	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>													
<b>USDA Forest Service:</b>														
National Forest	23	12	7	6	30	13	12	9	--	--	12	9	41	16
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>23</b>	<b>12</b>	<b>7</b>	<b>6</b>	<b>30</b>	<b>13</b>	<b>12</b>	<b>9</b>	<b>--</b>	<b>--</b>	<b>12</b>	<b>9</b>	<b>41</b>	<b>16</b>
<b>Other federal government:</b>														
Bureau of Land Management	31	14	--	--	31	14	61	20	--	--	61	20	92	24
Department of Defense and Energy	17	10			17	10	--	--	--	--	--	--	17	10
National Park Service	--	--	--	--	--	--	44	17	7	6	51	18	51	18
U.S. Fish and Wildlife Service	--	--	--	--	--	--	4	4	--	--	4	4	4	4
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>48</b>	<b>17</b>			<b>48</b>	<b>17</b>	<b>108</b>	<b>26</b>	<b>7</b>	<b>6</b>	<b>115</b>	<b>26</b>	<b>163</b>	<b>31</b>
<b>State and local government:</b>														
Local	20	10	7	5	27	12	--	--	38	15	38	15	65	19
State	53	17	2	2	55	18	153	27	9	8	162	28	217	29
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>73</b>	<b>20</b>	<b>8</b>	<b>5</b>	<b>81</b>	<b>21</b>	<b>153</b>	<b>27</b>	<b>48</b>	<b>17</b>	<b>200</b>	<b>32</b>	<b>282</b>	<b>34</b>
<b>Private:</b>														
Corporate	1,218	80	30	12	1,248	81	--	--	--	--	--	--	1,248	81
<b>Noncorporate private:</b>														
Total, noncorporate private	809	67	153	28	962	72	--	--	--	--	--	--	962	72
<b>All private</b>	<b>2,026</b>	<b>98</b>	<b>184</b>	<b>30</b>	<b>2,210</b>	<b>101</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2,210</b>	<b>101</b>
<b>All owners</b>	<b>2,170</b>	<b>101</b>	<b>199</b>	<b>31</b>	<b>2,369</b>	<b>105</b>	<b>273</b>	<b>39</b>	<b>54</b>	<b>18</b>	<b>327</b>	<b>42</b>	<b>2,696</b>	<b>111</b>

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table A15: Area of forest land by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades

Owner class	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>													
<b>USDA Forest Service:</b>														
National Forest	5,398	134	788	64	6,186	141	1,238	78	618	56	1,856	87	8,042	159
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>5,398</b>	<b>134</b>	<b>788</b>	<b>64</b>	<b>6,186</b>	<b>141</b>	<b>1,238</b>	<b>78</b>	<b>618</b>	<b>56</b>	<b>1,856</b>	<b>87</b>	<b>8,042</b>	<b>159</b>
<b>Other federal government:</b>														
Bureau of Land Management	81	22	244	37	324	43	8	7	93	24	101	25	425	49
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	879	59	260	39	1,138	68	1,138	68
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	19	10	19	10	--	--	2	2	2	2	20	10
<b>Total</b>	<b>81</b>	<b>22</b>	<b>262</b>	<b>39</b>	<b>343</b>	<b>44</b>	<b>887</b>	<b>59</b>	<b>354</b>	<b>45</b>	<b>1,241</b>	<b>71</b>	<b>1,584</b>	<b>79</b>
<b>State and local government:</b>														
Local	31	14	65	20	96	25	--	--	6	5	6	5	102	25
State	21	11	27	13	48	17	67	20	59	19	126	27	174	31
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>52</b>	<b>18</b>	<b>92</b>	<b>24</b>	<b>144</b>	<b>30</b>	<b>67</b>	<b>20</b>	<b>65</b>	<b>19</b>	<b>132</b>	<b>28</b>	<b>276</b>	<b>40</b>
<b>Private:</b>														
Corporate	2,087	102	324	43	2,411	109	--	--	--	--	--	--	2,411	109
<b>Noncorporate private:</b>														
Total, noncorporate private	851	68	1,907	96	2,758	116	--	--	--	--	--	--	2,758	116
<b>All private</b>	<b>2,938</b>	<b>114</b>	<b>2,232</b>	<b>102</b>	<b>5,169</b>	<b>146</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>5,169</b>	<b>146</b>
<b>All owners</b>	<b>8,468</b>	<b>176</b>	<b>3,373</b>	<b>128</b>	<b>11,842</b>	<b>206</b>	<b>2,192</b>	<b>100</b>	<b>1,037</b>	<b>75</b>	<b>3,229</b>	<b>116</b>	<b>15,071</b>	<b>225</b>

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table A16: Area of forest land by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

Owner class	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>													
<b>USDA Forest Service:</b>														
National Forest	130	28	339	42	469	50	110	27	151	30	268	40	737	64
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	130	28	339	42	469	50	110	27	151	30	268	40	737	64
<b>Other federal government:</b>														
Bureau of Land Management	--	--	25	11	25	11	--	--	23	11	23	11	48	16
Department of Defense and Energy	2	2	3	3	5	4	--	--	--	--	--	--	5	4
National Park Service	--	--	--	--	--	--	--	--	93	23	93	23	93	23
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	21	11	21	11	--	--	1	1	1	1	22	11
Total	2	2	49	16	51	16	--	--	117	26	117	26	168	31
<b>State and local government:</b>														
Local	--	--	19	10	19	10	--	--	3	3	3	3	22	10
State	--	--	--	--	--	--	10	8	45	16	55	18	55	18
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	19	10	19	10	10	8	48	17	58	18	77	21
<b>Private:</b>														
Corporate	5	5	52	18	57	19	--	--	--	--	--	--	57	19
<b>Noncorporate private:</b>														
Total, noncorporate private	15	9	207	33	222	34	--	--	--	--	--	--	222	34
<b>All private</b>	19	10	259	38	279	39	--	--	--	--	--	--	279	39
<b>All owners</b>	152	29	666	59	818	66	120	28	317	43	443	51	1,260	84

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table A17: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: All California

Forest type group	USDA Forest Service				Other federal				State and local government				Private corporate				Private non-corporate				All owner Total
	Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	
<i>thousand acres</i>																					
<b>Softwoods:</b>																					
California mixed conifer	4,111	120	1,056	70	52	17	396	45	30	13	49	17	1,761	92	--	--	442	50	3	3	7,899
Douglas-fir	173	31	161	31	19	11	50	18	29	13	29	14	331	43	--	--	334	43	--	--	1,126
Fir / spruce / mountain hemlock	1,117	76	429	49	--	--	200	34	11	8	11	8	192	33	--	--	61	20	--	--	2,020
Western Hemlock / Sitka spruce	--	--	--	--	--	--	1	1	1	1	1	1	22	12	--	--	3	2	--	--	28
Lodgepole pine	221	35	487	50	--	--	230	35	9	8	6	6	24	12	--	--	29	13	--	--	1,005
Pinyon / juniper	11	8	713	60	--	--	540	55	--	--	73	21	--	--	41	16	--	--	122	26	1,499
Ponderosa pine	1,257	76	219	35	29	13	46	16	4	4	18	10	535	54	4	3	253	37	2	2	2,367
Redwood	3	3	16	10	--	--	31	14	44	15	65	19	428	49	--	--	191	33	--	--	778
Western juniper	127	27	615	57	22	11	320	42	--	--	17	11	11	7	66	20	23	11	264	39	1,465
Western white pine	30	13	117	27	--	--	13	9	--	--	--	--	--	--	--	--	--	--	--	--	160
Other western softwoods	37	14	327	42	3	2	151	29	--	--	17	11	16	10	--	--	15	10	6	6	572
<b>Total</b>	<b>7,087</b>	<b>129</b>	<b>4,140</b>	<b>117</b>	<b>124</b>	<b>27</b>	<b>1,976</b>	<b>89</b>	<b>128</b>	<b>26</b>	<b>286</b>	<b>39</b>	<b>3,319</b>	<b>114</b>	<b>111</b>	<b>26</b>	<b>1,351</b>	<b>83</b>	<b>397</b>	<b>47</b>	<b>18,919</b>
<b>Hardwoods:</b>																					
Alder / maple	34	13	15	8	12	7	28	13	--	--	7	6	90	22	1	1	26	12	12	6	226
Aspen / birch	8	6	54	17	--	--	9	7	--	--	1	1	4	4	--	--	--	--	--	--	77
Elm / ash / cottonwood	--	--	5	5	--	--	1	1	--	--	8	6	--	--	3	2	--	--	17	8	34
Tanoak / laurel	185	32	230	37	13	7	57	19	10	8	150	30	510	54	24	11	546	56	90	22	1,816
Western oak	891	69	1,588	90	95	24	531	53	13	9	435	44	334	44	742	63	627	60	3,496	121	8,753
Woodland hardwoods	14	9	48	16	--	--	55	17	--	--	9	7	--	--	6	6	--	--	29	12	160
Exotic hardwoods	--	--	--	--	2	2	--	--	--	--	--	--	--	--	--	--	--	--	2	2	5
Other hardwoods	131	27	78	21	11	7	16	10	4	4	36	15	70	19	3	3	90	23	103	24	543
<b>Total</b>	<b>1,263</b>	<b>81</b>	<b>2,018</b>	<b>100</b>	<b>133</b>	<b>28</b>	<b>696</b>	<b>60</b>	<b>28</b>	<b>12</b>	<b>646</b>	<b>54</b>	<b>1,008</b>	<b>73</b>	<b>780</b>	<b>65</b>	<b>1,290</b>	<b>83</b>	<b>3,751</b>	<b>123</b>	<b>11,614</b>
<b>Nonstocked</b>	<b>437</b>	<b>48</b>	<b>293</b>	<b>41</b>	<b>15</b>	<b>9</b>	<b>112</b>	<b>26</b>	<b>--</b>	<b>--</b>	<b>15</b>	<b>9</b>	<b>207</b>	<b>32</b>			<b>28</b>	<b>12</b>	<b>29</b>	<b>12</b>	<b>1,138</b>
<b>All forest types</b>	<b>8,787</b>	<b>121</b>	<b>6,451</b>	<b>132</b>	<b>273</b>	<b>40</b>	<b>2,785</b>	<b>95</b>	<b>156</b>	<b>29</b>	<b>946</b>	<b>61</b>	<b>4,534</b>	<b>122</b>	<b>891</b>	<b>69</b>	<b>2,669</b>	<b>111</b>	<b>4,178</b>	<b>130</b>	<b>31,670</b>

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment and not in reserved status.

<sup>2</sup>Combination of productive reserved forest land (capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment) and low-productive forest land (not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment).

Table A18: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Forest type group	USDA Forest Service				Other federal				State and local government				Private corporate				Private non-corporate				All owner
	Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Total
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total
<i>thousand acres</i>																					
<b>Softwoods:</b>																					
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	1	1	--	--	15	10	--	--	--	16
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	39	15	--	--	40	15	--	--	1	1	--	--	8	7	--	--	22	11	110
Ponderosa pine	--	--	4	4	--	--	6	6	--	--	6	6	--	--	--	--	--	--	--	--	16
Redwood	--	--	16	10	--	--	--	--	7	6	27	13	7	6	--	--	86	22	--	--	144
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	7	6	--	--	11	8	--	--	17
<b>Total</b>	--	--	59	18	--	--	47	17	7	6	35	14	14	9	8	7	112	26	22	11	303
<b>Hardwoods:</b>																					
Alder / maple	--	--	--	--	--	--	--	--	--	--	5	5	--	--	--	--	--	--	5	4	10
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	1	--	--	--	3	2	--	--	1	1	4
Tanoak / laurel	2	1	16	9	--	--	1	2	5	6	56	18	17	10	14	7	12	8	35	14	159
Western oak	--	--	139	28	--	--	81	21	--	--	229	31	7	7	115	25	18	10	636	57	1,225
Woodland hardwoods	--	--	3	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	2	2
Other hardwoods	--	--	10	7	--	--	--	--	2	3	22	12	--	--	--	--	16	9	24	11	73
<b>Total</b>	2	1	168	31	--	--	83	21	7	6	312	37	24	12	131	26	47	16	703	60	1,477
<b>Nonstocked</b>	--	--	8	7	--	--	--	--	--	--	2	2	--	--	--	--	5	5	1	1	16
<b>All forest types</b>	2	1	235	36	--	--	129	27	15	9	349	39	39	15	139	27	163	31	726	61	1,796

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment and not in reserved status.

<sup>2</sup>Combination of productive reserved forest land (capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment) and low-productive forest land (not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment).

Table A19: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: Central Valley

Forest type group	USDA Forest Service				Other federal				State and local government				Private corporate				Private non-corporate				All owner
	Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Total
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total
<i>thousand acres</i>																					
<b>Softwoods:</b>																					
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Hardwoods:</b>																					
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	5	5	--	--	--	--	--	--	7	6	--	--	12
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	--	--	--	--	--	--	1	1	--	--	4	3	--	--	--	--	--	--	71	19	76
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	1	1	--	--	9	6	--	--	--	--	--	--	78	20	89
<b>Nonstocked</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types</b>	--	--	--	--	--	--	1	1	--	--	9	6	--	--	--	--	--	--	78	20	89

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment and not in reserved status.

<sup>2</sup>Combination of productive reserved forest land (capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment) and low-productive forest land (not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment).

Table A20: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: Eastside

Forest type group	USDA Forest Service				Other federal				State and local government				Private corporate				Private non-corporate				All owner Total
	Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	
<i>thousand acres</i>																					
<b>Softwoods:</b>																					
California mixed conifer	174	31	7	6			2	2	--	--	--	--	76	21	--	--	23	12	--	--	281
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	70	19	22	12	--	--	--	--	--	--	5	5	2	2	--	--	9	8	--	--	108
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	22	11	19	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	40
Pinyon / juniper	6	6	333	43	--	--	271	39	--	--	6	6	--	--	2	2	--	--	14	9	631
Ponderosa pine	245	36	25	12	3	3	--	--	--	--	--	--	98	24	4	3	23	11	--	--	398
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	72	20	390	45	22	11	269	39	--	--	9	8	2	2	66	20	7	5	118	27	956
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	4	4	71	21	--	--	2	2	--	--	--	--	--	--	--	--	--	--	--	--	77
<b>Total</b>	<b>592</b>	<b>56</b>	<b>866</b>	<b>67</b>	<b>25</b>	<b>12</b>	<b>544</b>	<b>54</b>	<b>--</b>	<b>--</b>	<b>20</b>	<b>11</b>	<b>178</b>	<b>32</b>	<b>72</b>	<b>21</b>	<b>62</b>	<b>19</b>	<b>132</b>	<b>28</b>	<b>2,491</b>
<b>Hardwoods:</b>																					
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	7	6	27	13	--	--	1	1	--	--	1	1	--	--	--	--	--	--	--	--	36
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	4	4	2	2	--	--	12	9	--	--	--	--	1	2	1	1	--	--	--	--	20
Woodland hardwoods	14	9	6	6	--	--	19	11	--	--	--	--	--	--	--	--	--	--	--	--	39
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	17	9	4	4	--	--	--	--	--	--	--	--	5	5	--	--	7	7	--	--	33
<b>Total</b>	<b>41</b>	<b>15</b>	<b>39</b>	<b>15</b>	<b>--</b>	<b>--</b>	<b>33</b>	<b>14</b>	<b>--</b>	<b>--</b>	<b>1</b>	<b>1</b>	<b>6</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>7</b>	<b>7</b>	<b>--</b>	<b>--</b>	<b>128</b>
<b>Nonstocked</b>	<b>52</b>	<b>17</b>	<b>32</b>	<b>13</b>	<b>--</b>	<b>--</b>	<b>18</b>	<b>11</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>62</b>	<b>19</b>	<b>--</b>	<b>--</b>	<b>12</b>	<b>8</b>	<b>9</b>	<b>7</b>	<b>185</b>
<b>All forest types</b>	<b>686</b>	<b>60</b>	<b>938</b>	<b>69</b>	<b>25</b>	<b>12</b>	<b>594</b>	<b>56</b>	<b>--</b>	<b>--</b>	<b>21</b>	<b>12</b>	<b>246</b>	<b>38</b>	<b>73</b>	<b>21</b>	<b>81</b>	<b>22</b>	<b>141</b>	<b>29</b>	<b>2,803</b>

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment and not in reserved status.

<sup>2</sup>Combination of productive reserved forest land (capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment) and low-productive forest land (not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment).



Table A21: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Forest type group	USDA Forest Service				Other federal				State and local government				Private corporate				Private non-corporate				All owner Total
	Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	
<i>thousand acres</i>																					
<b>Softwoods:</b>																					
California mixed conifer	1,386	81	583	53	35	15	4	4	10	7	5	5	479	52	--	--	164	31	--	--	2,667
Douglas-fir	160	30	149	30	4	5	7	7	2	2	--	--	60	18	--	--	129	27	--	--	511
Fir / spruce / mountain hemlock	98	24	165	31	--	--	--	--	--	--	--	--	31	14	--	--	--	--	--	--	294
Western Hemlock / Sitka spruce	--	--	--	--	--	--	1	1	--	--	1	1	--	--	--	--	--	--	--	--	2
Lodgepole pine	6	6	12	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18
Pinyon / juniper	--	--	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	2	2	3
Ponderosa pine	100	22	39	14	9	8	5	5	--	--	--	--	35	13	--	--	21	11	--	--	209
Redwood	--	--	--	--	--	--	19	11	--	--	--	--	3	3	--	--	6	6	--	--	28
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14	8	14
Western white pine	12	9	35	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	47
Other western softwoods	17	10	32	13	1	1	11	9	--	--	5	6	--	--	--	--	--	--	6	6	72
Total	1,779	90	1,014	66	49	17	47	17	12	7	12	8	607	58	--	--	320	43	22	11	3,864
<b>Hardwoods:</b>																					
Alder / maple	28	11	10	7	11	7	22	12	--	--	--	--	11	8	--	--	22	11	7	5	111
Aspen / birch	--	--	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
Elm / ash / cottonwood	--	--	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	5	3	5
Tanoak / laurel	173	32	203	35	3	3	6	6	--	--	3	5	70	21	4	4	162	31	16	9	640
Western oak	443	50	636	61	43	16	193	32	4	5	43	15	183	33	269	39	219	37	901	69	2,934
Woodland hardwoods	--	--	5	5	--	--	2	2	--	--	--	--	--	--	--	--	--	--	2	1	9
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	48	16	39	16	7	7	6	6	--	--	--	--	33	13	--	--	20	11	9	7	161
Total	693	61	897	71	63	19	229	35	4	5	46	16	297	42	272	39	423	50	940	70	3,865
<b>Nonstocked</b>	77	21	99	24	5	4	--	--	--	--	--	--	37	13	--	--	7	7	2	2	226
<b>All forest types</b>	2,548	105	2,010	93	117	27	277	39	16	9	57	18	941	72	272	39	750	66	965	71	7,955

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment and not in reserved status.

<sup>2</sup>Combination of productive reserved forest land (capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment) and low-productive forest land (not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment).

Table A22: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: North Coast

Forest type group	USDA Forest Service				Other federal				State and local government				Private corporate				Private non-corporate				All owner
	Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Total
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total
<i>thousand acres</i>																					
<b>Softwoods:</b>																					
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	12	8	12	9	14	9	43	17	28	13	29	14	270	39	--	--	190	33	--	--	599
Fir / spruce / mountain hemlock	5	4	--	--	--	--	--	--	--	--	--	--	5	5	--	--	--	--	--	--	10
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	1	1	--	--	22	12	--	--	3	2	--	--	26
Lodgepole pine	--	--	--	--	--	--	4	4	--	--	--	--	--	--	--	--	--	--	--	--	4
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	--	--	--	--	--	--	12	9	37	14	37	14	419	49	--	--	98	23	--	--	603
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	1	1	--	--	12	9	1	1	--	--	5	5	--	--	19
<b>Total</b>	<b>17</b>	<b>10</b>	<b>12</b>	<b>9</b>	<b>14</b>	<b>9</b>	<b>60</b>	<b>19</b>	<b>66</b>	<b>19</b>	<b>79</b>	<b>21</b>	<b>716</b>	<b>63</b>	<b>--</b>	<b>--</b>	<b>297</b>	<b>40</b>	<b>--</b>	<b>--</b>	<b>1,260</b>
<b>Hardwoods:</b>																					
Alder / maple	6	6	--	--	1	1	6	6	--	--	2	2	74	20	1	1	--	--	--	--	90
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	10	7	49	17	5	5	84	23	380	47	7	7	364	47	29	13	928
Western oak	--	--	7	6	17	10	--	--	2	1	29	12	16	10	22	10	112	26	123	25	328
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	1	1	--	--	--	--	--	--	--	--	1
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	--	--	--	--	--	--	1	1	13	9	23	11	--	--	36	15	2	2	75
<b>Total</b>	<b>6</b>	<b>6</b>	<b>7</b>	<b>6</b>	<b>28</b>	<b>13</b>	<b>55</b>	<b>18</b>	<b>8</b>	<b>5</b>	<b>130</b>	<b>27</b>	<b>494</b>	<b>52</b>	<b>30</b>	<b>12</b>	<b>512</b>	<b>55</b>	<b>153</b>	<b>28</b>	<b>1,422</b>
<b>Nonstocked</b>	--	--	--	--	6	6	--	--	--	--	--	--	8	5	--	--	--	--	--	--	13
<b>All forest types</b>	<b>23</b>	<b>12</b>	<b>18</b>	<b>11</b>	<b>48</b>	<b>17</b>	<b>115</b>	<b>26</b>	<b>73</b>	<b>20</b>	<b>209</b>	<b>32</b>	<b>1,218</b>	<b>80</b>	<b>30</b>	<b>12</b>	<b>809</b>	<b>67</b>	<b>153</b>	<b>28</b>	<b>2,696</b>

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment and not in reserved status.

<sup>2</sup>Combination of productive reserved forest land (capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment) and low-productive forest land (not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment).

Table A23: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: Sierra Cascades

Forest type group	USDA Forest Service				Other federal				State and local government				Private corporate				Private non-corporate				All owner Total
	Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	
<i>thousand acres</i>																					
<b>Softwoods:</b>																					
California mixed conifer	2,521	107	440	51	17	10	390	45	19	11	39	15	1,206	79	--	--	255	38	3	3	4,890
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	933	70	243	38	--	--	200	34	11	8	6	7	155	30	--	--	52	18	--	--	1,598
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	194	33	438	47	--	--	226	35	9	8	6	6	24	12	--	--	29	13	--	--	925
Pinyon / juniper	5	5	171	32	--	--	124	27	--	--	39	16	--	--	--	--	--	--	19	9	359
Ponderosa pine	906	67	117	26	17	10	35	14	4	4	11	8	398	47	--	--	209	33	2	2	1,699
Redwood	3	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3
Western juniper	44	15	220	36	--	--	50	18	--	--	8	7	8	6	--	--	16	10	132	28	479
Western white pine	18	10	81	23	--	--	13	9	--	--	--	--	--	--	--	--	--	--	--	--	112
Other western softwoods	16	9	217	34	2	2	134	28	--	--	--	--	8	7	--	--	--	--	--	--	377
<b>Total</b>	<b>4,640</b>	<b>130</b>	<b>1,927</b>	<b>91</b>	<b>35</b>	<b>14</b>	<b>1,172</b>	<b>72</b>	<b>43</b>	<b>16</b>	<b>109</b>	<b>26</b>	<b>1,799</b>	<b>95</b>	<b>--</b>	<b>--</b>	<b>560</b>	<b>56</b>	<b>156</b>	<b>29</b>	<b>10,442</b>
<b>Hardwoods:</b>																					
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	5	5	--	--	4	4	--	--	9
Aspen / birch	2	2	22	10	--	--	8	7	--	--	--	--	4	4	--	--	--	--	--	--	36
Elm / ash / cottonwood	--	--	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	4	10
Tanoak / laurel	10	7	12	8	--	--	--	--	--	--	--	--	43	16	--	--	7	7	11	8	83
Western oak	407	48	528	54	36	15	233	36	7	7	107	26	126	28	321	43	263	38	1,654	90	3,684
Woodland hardwoods	--	--	20	10	--	--	6	6	--	--	--	--	--	--	--	--	--	--	12	8	38
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	66	19	19	10	4	4	11	8	1	1	1	1	9	6	3	3	11	8	57	18	182
<b>Total</b>	<b>485</b>	<b>52</b>	<b>605</b>	<b>57</b>	<b>40</b>	<b>15</b>	<b>258</b>	<b>38</b>	<b>9</b>	<b>7</b>	<b>108</b>	<b>26</b>	<b>187</b>	<b>33</b>	<b>324</b>	<b>43</b>	<b>286</b>	<b>40</b>	<b>1,739</b>	<b>92</b>	<b>4,042</b>
<b>Nonstocked</b>	<b>273</b>	<b>39</b>	<b>111</b>	<b>26</b>	<b>5</b>	<b>6</b>	<b>72</b>	<b>21</b>	<b>--</b>	<b>--</b>	<b>8</b>	<b>7</b>	<b>101</b>	<b>22</b>	<b>--</b>	<b>--</b>	<b>4</b>	<b>3</b>	<b>12</b>	<b>8</b>	<b>588</b>
<b>All forest types</b>	<b>5,398</b>	<b>134</b>	<b>2,644</b>	<b>107</b>	<b>81</b>	<b>22</b>	<b>1,503</b>	<b>77</b>	<b>52</b>	<b>18</b>	<b>225</b>	<b>36</b>	<b>2,087</b>	<b>102</b>	<b>324</b>	<b>43</b>	<b>851</b>	<b>68</b>	<b>1,907</b>	<b>96</b>	<b>15,071</b>

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment and not in reserved status.

<sup>2</sup>Combination of productive reserved forest land (capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment) and low-productive forest land (not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment).

Table A24: Area of Forest Land by Forest Type, Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

Forest type group	USDA Forest Service				Other federal				State and local government				Private corporate				Private non-corporate				All owners	
	Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Timberland <sup>1</sup>		Other forest land <sup>2</sup>		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand acres</i>																					
<b>Softwoods:</b>																						
California mixed conifer	31	14	27	14	--	--	--	--	--	--	5	6	--	--	--	--	--	--	--	--	62	20
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	10	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	8
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	18	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18	11
Pinyon / juniper	--	--	170	32	--	--	104	25	--	--	27	13	--	--	31	14	--	--	65	19	397	49
Ponderosa pine	6	6	34	15	--	--	--	--	--	--	--	--	5	5	--	--	--	--	--	--	45	17
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	12	8	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17	10
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	7	7	--	--	2	3	--	--	--	--	--	--	--	--	--	--	--	--	10	7
<b>Total</b>	<b>59</b>	<b>19</b>	<b>261</b>	<b>40</b>	<b>--</b>	<b>--</b>	<b>106</b>	<b>25</b>	<b>--</b>	<b>--</b>	<b>32</b>	<b>14</b>	<b>5</b>	<b>5</b>	<b>31</b>	<b>14</b>	<b>--</b>	<b>--</b>	<b>65</b>	<b>19</b>	<b>559</b>	<b>58</b>
<b>Hardwoods:</b>																						
Alder / maple	--	--	5	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	4
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	3	4	--	--	--	--	--	--	--	--	3	4
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	7	7	--	--	--	--	--	--	--	--	7	7
Western oak	37	14	276	38	--	--	10	7	--	--	23	10	--	--	15	10	15	9	111	23	486	51
Woodland hardwoods	--	--	14	9	--	--	28	11	--	--	8	7	--	--	6	6	--	--	15	8	70	19
Exotic hardwoods	--	--	--	--	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	2
Other hardwoods	--	--	7	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	7	18	10
<b>Total</b>	<b>37</b>	<b>14</b>	<b>302</b>	<b>40</b>	<b>2</b>	<b>2</b>	<b>38</b>	<b>13</b>	<b>--</b>	<b>--</b>	<b>40</b>	<b>15</b>	<b>--</b>	<b>--</b>	<b>21</b>	<b>12</b>	<b>15</b>	<b>9</b>	<b>136</b>	<b>26</b>	<b>591</b>	<b>56</b>
<b>Nonstocked</b>	<b>35</b>	<b>14</b>	<b>43</b>	<b>15</b>	<b>--</b>	<b>--</b>	<b>22</b>	<b>12</b>	<b>--</b>	<b>--</b>	<b>4</b>	<b>5</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>6</b>	<b>4</b>	<b>110</b>	<b>25</b>
<b>All forest types</b>	<b>130</b>	<b>28</b>	<b>606</b>	<b>58</b>	<b>2</b>	<b>2</b>	<b>166</b>	<b>30</b>	<b>--</b>	<b>--</b>	<b>77</b>	<b>21</b>	<b>5</b>	<b>5</b>	<b>52</b>	<b>18</b>	<b>15</b>	<b>9</b>	<b>207</b>	<b>33</b>	<b>1,260</b>	<b>84</b>

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 500 acre were estimated.

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment and not in reserved status.

<sup>2</sup>Combination of productive reserved forest land (capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment) and low-productive forest land (not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment).

Table B1: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2009-2018: All California

	Public						Private				Total		Total	
	National forest		Other federal		State and local govt.		Corporate		Non Corporate					
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons CO2 equivalent per year</i>													
<b>Standing Live tree</b>														
Mortality	-27,538	1,256	-3,780	600	-1,388	262	-3,990	274	-4,675	325	-8,665	402	-41,371	1,465
Cut	-2,141	375	-33	22	-129	111	-10,163	1,034	-1,270	265	-11,433	1,056	-13,736	1,126
Gross Growth	30,746	521	4,030	294	3,239	324	18,926	701	13,014	597	31,939	713	69,954	924
Net	1,067	1,386	217	612	1,722	300	4,773	1,170	7,068	593	11,842	1,295	14,847	2,025
<b>Foliage</b>	141	70	19	28	85	16	280	60	321	28	601	66	846	102
<b>Roots</b>														
Live	418	276	83	109	339	67	1,064	242	1,354	123	2,418	268	3,258	408
Dead	988	190	-6	93	-9	31	-12	52	161	54	149	75	1,123	227
<b>Standing Dead</b>	6,046	910	305	506	-35	118	385	202	991	224	1,376	301	7,692	1,090
<b>Dead Woody Debris</b>	-186	590	373	284	108	153	-1,546	440	273	290	-1,273	527	-979	854
<b>Understory Vegetation</b>														
Above Ground	-44	48	6	23	-17	6	1	38	-59	18	-58	42	-112	68
Below Ground	-5	5	1	3	-2	1		4	-7	2	-6	5	-12	8
<b>Total (excluding soils)</b>	8,426	1,284	998	612	2,192	376	4,945	1,551	10,103	726	15,048	1,695	26,663	2,242
<b>Forest Floor</b>	-78	123	-66	57		14	-14	86	161	54	147	102	4	170
<b>Soils</b>	-619	220	-71	80	-44	47	175	228	90	102	265	249	-468	346
Total (including soils and forest floor)	7,729	1,371	861	653	2,149	380	5,106	1,612	10,354	750	15,460	1,758	26,199	2,352

Table B2: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2008 to 2011-2018: Central Coast and Interior Ranges

	Public						Private				Total		Total	
	National forest		Other federal		State and local govt.		Corporate		Non Corporate					
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons CO2 equivalent per year</i>													
<b>Standing Live tree</b>														
Mortality	-636	302	-43	43	-448	111	-76	29	-678	124	-754	127	-1,881	348
Cut	--	--	--	--	-3	3	--	--	-182	84	-182	84	-184	84
Gross Growth	182	56	46	17	892	197	325	96	1,536	258	1,861	274	2,981	344
Net	-454	274	3	32	441	176	249	88	677	196	926	214	916	392
<b>Foliage</b>	-15	10	1		22	8	6	4	24	9	31	9	38	15
<b>Roots</b>														
Live	-71	44	4	5	81	37	28	16	81	36	108	39	123	70
Dead	17	19	2	3	22	12	2	4	39	13	41	14	81	26
<b>Standing Dead</b>	92	87	7	8	53	27	13	20	215	61	228	64	381	112
<b>Dead Woody Debris</b>	14	65	32	25	153	63	-53	64	170	122	117	138	316	167
<b>Understory Vegetation</b>														
Above Ground		1			-4	3	-1	1	1	1		1	-4	3
Below Ground														
<b>Total (excluding soils)</b>	-417	267	48	18	767	230	245	111	1,207	296	1,452	316	1,849	474
<b>Forest Floor</b>	-5	6	2	1	-6	7	2	5	31	12	33	13	25	16
<b>Soils</b>	-34	30	1	1	-11	33	-11	8	34	28	23	30	-21	54
Total (including soils and forest floor)	-455	270	51	19	750	228	236	112	1,271	298	1,507	318	1,854	477

Table B3: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2008 to 2011-2018: Central Valley

	Public						Private							
	National forest		Other federal		State and local govt.		Corporate		Non Corporate		Total		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons CO2 equivalent per year</i>														
<b>Standing Live tree</b>														
Mortality					-11	11			-31	18	-31	18	-42	22
Cut					--	--			-4	4	-4	4	-4	4
Gross Growth					9	6			62	31	62	31	71	31
Net					-2	8			28	20	28	20	26	21
<b>Foliage</b>										1		1		1
<b>Roots</b>														
Live						1			5	4	5	4	5	4
Dead					2	2			3	2	3	2	5	3
<b>Standing Dead</b>					6	6			13	7	13	7	18	10
<b>Dead Woody Debris</b>					5	4			32	20	32	20	36	21
<b>Understory Vegetation</b>														
Above Ground														
Below Ground														
<b>Total (excluding soils)</b>					10	9			80	36	80	36	90	37
<b>Forest Floor</b>					1	1			1	1	1	1	2	1
<b>Soils</b>					--	--			--	--	--	--	--	--
Total (including soils and forest floor)					11	9			82	36	82	36	92	37

Table B4: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2008 to 2011-2018: Eastside

	Public						Private						Total	
	National forest		Other federal		State and local govt.		Corporate		Non Corporate		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons CO2 equivalent per year</i>													
<b>Standing Live tree</b>														
Mortality	-551	102	-28	12			-263	103	-15	9	-278	103	-857	146
Cut	-188	84	--	--	--	--	-292	94	-65	30	-358	99	-546	130
Gross Growth	1,239	130	123	20	16	16	424	94	106	35	530	100	1,909	168
Net	500	138	95	21	16	16	-132	124	26	20	-106	126	506	190
<b>Foliage</b>	31	8	6	1	1	1	-7	7	3	1	-3	7	34	11
<b>Roots</b>														
Live	101	30	18	4	2	3	-20	23	7	4	-13	24	108	39
Dead	-49	24	-5	2	-1	1	12	10	-5	3	7	10	-48	26
<b>Standing Dead</b>	-186	112	-19	9	-5	7	61	47	-20	15	41	50	-169	123
<b>Dead Woody Debris</b>	-124	97	44	49	-5	6	-18	56	-25	24	-43	61	-128	125
<b>Understory Vegetation</b>														
Above Ground	-44	24	12	21	-1	1	4	12	-23	12	-18	17	-51	36
Below Ground	-5	3	1	2				1	-3	1	-2	2	-6	4
<b>Total (excluding soils)</b>	224	206	154	61	7	5	-99	161	-39	39	-138	166	246	272
<b>Forest Floor</b>	26	25	-10	10	2	2	-25	17	-5	10	-30	20	-13	33
<b>Soils</b>	-76	46	-79	56	--	--	-27	19	-11	16	-38	25	-193	77
Total (including soils and forest floor)	174	233	64	82	8	7	-151	177	-55	50	-206	184	40	309



Table B5: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2008 to 2011-2018: Klamath Interior Coast Ranges

	Public						Private				Total		Total	
	National forest		Other federal		State and local govt.		Corporate		Non Corporate		Total	Total		
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons CO2 equivalent per year</i>													
<b>Standing Live tree</b>														
Mortality	-10,722	927	-425	132	-97	67	-1,053	161	-1,138	141	-2,191	212	-13,436	967
Cut	-198	83	-33	22	-1	1	-1,945	474	-137	50	-2,082	476	-2,313	484
Gross Growth	11,012	462	962	199	109	41	3,458	313	3,673	344	7,131	450	19,214	676
Net	92	915	504	144	11	69	460	529	2,398	292	2,858	603	3,465	1,128
<b>Foliage</b>	15	48	24	8	2	2	15	29	107	14	122	32	163	60
<b>Roots</b>														
Live	24	191	111	33	6	11	98	115	473	60	571	130	712	239
Dead	498	136	6	13	1	2	18	22	2	26	20	34	524	141
<b>Standing Dead</b>	2,773	625	57	41	22	17	168	95	65	104	233	140	3,085	642
<b>Dead Woody Debris</b>	-335	350	-56	134	8	22	-101	204	114	121	13	237	-369	443
<b>Understory Vegetation</b>														
Above Ground	-22	22	-9	4	-3	2	24	15	-30	8	-7	18	-40	28
Below Ground	-2	2	-1				3	2	-3	1	-1	2	-4	3
<b>Total (excluding soils)</b>	3,042	779	636	196	48	54	685	638	3,125	386	3,810	744	7,536	1,108
<b>Forest Floor</b>	63	57	30	21	6	4	16	46	98	31	113	55	212	83
<b>Soils</b>	-227	143	13	34	1	1	26	42	75	55	102	69	-111	162
Total (including soils and forest floor)	2,878	820	680	205	55	56	727	683	3,298	409	4,025	794	7,637	1,174

Table B6: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2008 to 2011-2018: North Coast

	Public						Private				Total		Total	
	National forest		Other federal		State and local govt.		Corporate		Non Corporate		Total	SE	Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons CO2 equivalent per year</i>													
<b>Standing Live tree</b>														
Mortality	-53	33	-192	97	-590	231	-1,045	127	-666	98	-1,711	158	-2,547	297
Cut	--	--			-123	111	-3,297	711	-414	216	-3,711	741	-3,834	749
Gross Growth	200	97	690	195	1,559	313	7,575	624	4,003	417	11,578	715	14,028	802
Net	147	75	498	183	846	247	3,233	801	2,923	405	6,156	888	7,647	940
<b>Foliage</b>	3	4	21	10	40	15	202	41	137	19	339	45	403	48
<b>Roots</b>														
Live	16	15	79	39	167	58	721	169	594	82	1,315	186	1,577	198
Dead	3	6	-51	28	-12	22	-38	39	-32	18	-71	43	-131	56
<b>Standing Dead</b>	25	17	-176	101	-67	96	82	137	-11	60	71	150	-147	205
<b>Dead Woody Debris</b>	4	40	174	131	-72	122	-761	327	-141	161	-902	364	-796	408
<b>Understory Vegetation</b>														
Above Ground		1		1	-4	2	-31	8	-7	2	-38	8	-42	8
Below Ground							-3	1	-1		-4	1	-5	1
<b>Total (excluding soils)</b>	196	109	546	261	898	304	3,405	1,138	3,462	472	6,867	1,224	8,507	1,289
<b>Forest Floor</b>	1	1	-2	3	-4	6	6	18	35	10	41	21	36	22
<b>Soils</b>					15	11	237	121	4	64	240	137	255	137
Total (including soils and forest floor)	197	109	545	261	909	307	3,647	1,150	3,500	474	7,148	1,234	8,798	1,300

Table B7: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2008 to 2011-2018: Sierra Cascades

	Public						Private				Total		Total	
	National forest		Other federal		State and local govt.		Corporate		Non Corporate					
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons CO2 equivalent per year</i>													
<b>Standing Live tree</b>														
Mortality	-14,558	908	-3,036	590	-203	50	-1,552	176	-2,008	255	-3,560	303	-21,357	1,120
Cut	-1,718	356	--	--	-2	3	-4,629	633	-451	117	-5,079	641	-6,800	733
Gross Growth	17,728	552	2,195	187	635	145	7,127	454	3,536	272	10,663	495	31,221	759
Net	1,452	980	-842	554	429	120	947	655	1,077	287	2,024	714	3,064	1,342
<b>Foliage</b>	139	49	-32	24	21	6	61	33	52	15	113	36	241	65
<b>Roots</b>														
Live	492	188	-122	94	85	24	232	128	214	63	445	143	901	256
Dead	505	128	42	87	-12	15	-4	23	152	42	148	48	683	163
<b>Standing Dead</b>	3,261	646	438	492	-15	41	61	102	696	178	758	204	4,441	838
<b>Dead Woody Debris</b>	113	454	150	202	-11	40	-620	193	86	162	-534	253	-281	559
<b>Understory Vegetation</b>														
Above Ground	6	35	2	8	-6	5	5	32		10	5	33	8	49
Below Ground	1	4		1	-1	1	1	4		1	1	4	1	5
<b>Total (excluding soils)</b>	5,969	965	-363	510	491	139	682	815	2,277	334	2,960	881	9,057	1,406
<b>Forest Floor</b>	-96	102	-84	51	2	9	-13	68	5	40	-8	79	-187	140
<b>Soils</b>	-214	153	-4	46	-49	31	-50	187	-13	48	-63	193	-329	253
Total (including soils and forest floor)	5,659	1,033	-451	551	444	146	620	873	2,269	356	2,889	942	8,541	1,507

Table B8: Annual Net Change in Carbon Stocks on Forest Land for All Pools by Owner Group, 2001-2008 to 2011-2018: South Coast Mountains and Deserts

	Public						Private						Total	
	National forest		Other federal		State and local govt.		Corporate		Non Corporate		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons CO2 equivalent per year</i>														
<b>Standing Live tree</b>														
Mortality	-1,017	224	-56	36	-39	23	--	--	-140	65	-140	65	-1,252	238
Cut	-37	29	--	--	--	--	--	--	-17	14	-17	14	-55	32
Gross Growth	384	61	14	7	19	13	16	12	97	27	113	29	530	69
Net	-670	202	-42	34	-20	21	16	12	-61	59	-44	60	-777	214
<b>Foliage</b>	-31	9	-1	1		1	1	1	-2	2	-1	2	-33	10
<b>Roots</b>														
Live	-143	42	-8	6	-3	5	5	4	-18	14	-13	15	-167	46
Dead	15	30		6	-8	10			2	5	2	5	9	32
<b>Standing Dead</b>	81	128	-1	24	-29	45	-1	1	33	27	32	27	83	140
<b>Dead Woody Debris</b>	142	77	28	26	30	41	6	5	37	40	44	40	244	100
<b>Understory Vegetation</b>														
Above Ground	15	6	1	1	1								17	6
Below Ground	2	1											2	1
<b>Total (excluding soils)</b>	-589	189	-23	33	-29	32	27	19	-9	74	18	76	-623	209
<b>Forest Floor</b>	-67	25	-2	2		5			-3	5	-3	5	-72	26
<b>Soils</b>	-69	36	-3	5	--	--	--	--	1	2	1	2	-70	36
Total (including soils and forest floor)	-724	216	-28	34	-29	32	28	19	-11	78	16	80	-765	235





Table B 9.3 Average annual carbon (CO2e) flux in live trees from growth, harvest, mortality, 2001-2008 to 2011-2018: NATIONAL FOREST

	Standing Live														All Pools			
	Gross Growth		Harvest		Fire killed		Cut and fire		Insects and disease		Natural/other		Total Mortality		Net Flux		Net Flux	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand Metric Tons CO2 equivalent per year</i>																	
<b>Region 5</b>																		
Angeles	89	27	--	--	-179	101	--	--	--	--	-40	22	-219	103	-131	90	-114	97
Cleveland	8	6	--	--	-6	6	--	--	--	--	--	--	-6	6	2	8	5	13
Eldorado	1,932	249	-331	213	-434	209	-108	100	-241	68	-469	101	-1,253	259	347	342	639	387
Inyo	439	80	-45	34	-2	2	--	--	-51	31	-160	45	-213	54	180	69	136	175
Klamath	2,818	253	-160	76	-2,656	670	-66	58	-314	102	-777	127	-3,814	689	-1,156	638	42	462
Lake Tahoe Basin	247	75	-32	29	--	--	-7	6	-84	44	-71	54	-161	70	54	65	5	103
Lassen	2,443	251	-315	121	-1,073	390	-36	22	-324	96	-689	140	-2,122	423	6	406	377	429
Los Padres	329	65	--	--	-917	329	--	--	-1	1	-143	42	-1,061	331	-732	297	-637	294
Mendocino	1,649	192	-13	8	-1,043	389	--	--	-126	52	-480	127	-1,649	411	-13	379	360	334
Modoc	1,196	138	-94	48	-23	13	-37	39	-182	52	-233	62	-475	90	627	111	434	165
Plumas	3,033	286	-378	193	-1,359	403	--	--	-296	85	-658	122	-2,313	427	341	479	786	551
San Bernardino	161	42	-37	29	-184	117	-14	15	-77	43	-126	52	-401	136	-278	130	-388	150
Sequoia	1,238	175	-9	5	-925	270	--	--	-272	163	-578	148	-1,774	347	-544	323	19	303
Shasta-Trinity	4,719	336	-213	79	-2,055	437	-1	2	-277	87	-1,442	193	-3,776	473	731	455	2,197	461
Sierra	2,198	240	-131	96	-625	259	-43	32	-800	276	-1,446	277	-2,914	469	-847	425	470	328
Six Rivers	3,300	322	-54	51	-969	254	-14	13	-125	63	-904	167	-2,012	308	1,234	338	1,335	440
Stanislaus	1,937	230	-77	46	-531	201	--	--	-671	209	-628	201	-1,829	350	30	287	496	266
Tahoe	2,373	259	-250	123	-102	81	--	--	-523	126	-532	110	-1,156	184	967	220	1,212	316
Toiyabe	320	56	--	--	-43	27	--	--	-128	58	-101	38	-271	74	49	67	51	106
<b>Total</b>	<b>30,427</b>	<b>517</b>	<b>-2,139</b>	<b>375</b>	<b>-13,124</b>	<b>1,184</b>	<b>-327</b>	<b>129</b>	<b>-4,492</b>	<b>453</b>	<b>-9,479</b>	<b>508</b>	<b>-27,422</b>	<b>1,255</b>	<b>866</b>	<b>1,384</b>	<b>7,424</b>	<b>1,367</b>
<b>Region 6</b>																		
Rogue River / Siskyou	319	72	-2	4	-15	26	--	--	-1	2	-101	43	-116	47	200	84	305	104
<b>Total</b>	<b>319</b>	<b>72</b>	<b>-2</b>	<b>4</b>	<b>-15</b>	<b>26</b>	<b>--</b>	<b>--</b>	<b>-1</b>	<b>2</b>	<b>-101</b>	<b>43</b>	<b>-116</b>	<b>47</b>	<b>200</b>	<b>84</b>	<b>305</b>	<b>104</b>
<b>All National Forests</b>	<b>30,746</b>	<b>521</b>	<b>-2,141</b>	<b>375</b>	<b>-13,139</b>	<b>1,185</b>	<b>-327</b>	<b>129</b>	<b>-4,493</b>	<b>453</b>	<b>-9,580</b>	<b>509</b>	<b>-27,538</b>	<b>1,256</b>	<b>1,067</b>	<b>1,386</b>	<b>7,729</b>	<b>1,371</b>

Table B9.4: Annual Net Change in Carbon Stocks for Aboveground Pools on Forest Land by Disturbance, Forest Land Status and Owner Group, 2001-2008 to 2011-2018: Coastal Forest Practice District

	USDA Forest Service						Other Public				Private				Total		Total				
	Timberland		Reserved		Low productive, unreserved		Total		Other federal		State and local govt.		Corporate						Non Corporate		
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE			
<i>thousand metric tons CO2 equivalent per year</i>																					
<b>Cut</b>																					
Mortality	--	--	--	--	--	--	--	--	--	--	--	-105	33	-111	42	-216	53	-216	53		
Cut	--	--	--	--	--	--	--	--	--	--	--	-3,048	715	-510	228	-3,558	747	-3,558	747		
Gross Growth	--	--	--	--	--	--	--	--	--	--	--	954	199	525	175	1,480	263	1,480	263		
Net Live	--	--	--	--	--	--	--	--	--	--	--	-2,199	610	-96	203	-2,295	642	-2,295	642		
Standing Dead Change	--	--	--	--	--	--	--	--	--	--	--	-5	56	30	30	25	64	25	64		
Dead Woody Debris Change	--	--	--	--	--	--	--	--	--	--	--	-370	242	-44	97	-414	261	-414	261		
Total Net <sup>1</sup>	--	--	--	--	--	--	--	--	--	--	--	-3,129	901	-131	255	-3,260	936	-3,260	936		
<b>Cut and Fire</b>																					
Mortality	--	--	--	--	--	--	--	--	--	-17	18	-3	2	--	--	-3	2	-20	18		
Cut	--	--	--	--	--	--	--	--	--	-105	109	-67	62	--	--	-67	62	-171	126		
Gross Growth	--	--	--	--	--	--	--	--	--	53	55	14	13	--	--	14	13	67	57		
Net Live	--	--	--	--	--	--	--	--	--	-69	72	-55	51	--	--	-55	51	-124	88		
Standing Dead Change	--	--	--	--	--	--	--	--	--	-1	1	1	1	--	--	1	1	1	1		
Dead Woody Debris Change	--	--	--	--	--	--	--	--	--	12	13	13	9	--	--	13	9	25	15		
Total Net <sup>1</sup>	--	--	--	--	--	--	--	--	--	-69	72	-53	58	--	--	-53	58	-122	92		
<b>Fire</b>																					
Mortality	-277	122	-259	134	--	--	-535	181	--	--	-73	77	-70	52	-46	33	-116	61	-725	206	
Cut	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1	1	-1	1	-1	1	
Gross Growth	114	46	121	54	--	--	235	71	--	--	26	27	66	41	67	38	133	56	393	95	
Net Live	-162	91	-138	91	--	--	-301	129	--	--	-48	50	-4	36	20	38	16	52	-332	148	
Standing Dead Change	52	43	15	46	--	--	67	63	--	--	9	10	25	25	14	8	39	27	115	69	
Dead Woody Debris Change	53	43	62	55	--	--	115	70	--	--	-24	25	-49	32	32	29	-17	43	74	86	
Total Net <sup>1</sup>	-112	57	-95	105	--	--	-207	119	--	--	-71	74	-21	46	76	44	55	64	-223	154	
<b>Insect and Disease</b>																					
Mortality	-22	21	-15	7	--	--	-37	22	-30	39	-119	73	-100	43	-187	75	-288	86	-474	121	
Cut	--	--	--	--	--	--	--	--	--	--	--	--	-14	13	-13	11	-26	17	-26	17	
Gross Growth	65	39	55	27	--	--	120	47	4	5	82	51	235	107	403	153	638	187	844	199	
Net Live	43	25	40	22	--	--	83	34	-26	34	-38	29	121	65	203	122	324	138	343	148	
Standing Dead Change	-1	2	-7	6	--	--	-8	6	5	6	-74	91	3	20	29	25	31	32	-45	97	
Dead Woody Debris Change	-9	6	-15	20	--	--	-24	21	15	19	60	72	1	9	19	34	20	36	71	84	
Total Net <sup>1</sup>	36	25	28	17	--	--	64	30	-8	10	-65	121	166	95	297	131	463	162	454	205	
<b>Other cut and weather</b>																					
Mortality	-67	40	-14	11	--	--	-81	42	--	--	--	--	-87	60	-46	28	-132	66	-213	78	
Cut	--	--	--	--	--	--	--	--	--	--	--	--	-125	74	-45	26	-170	78	-170	78	
Gross Growth	150	73	22	16	--	--	172	75	--	--	--	--	285	118	236	101	521	154	693	171	
Net Live	83	54	8	6	--	--	91	55	--	--	--	--	73	91	146	68	219	114	310	126	
Standing Dead Change	21	17	6	5	--	--	27	18	--	--	--	--	14	8	6	4	20	9	48	20	
Dead Woody Debris Change	16	16	3	3	--	--	18	16	--	--	--	--	-36	45	44	43	8	62	26	65	
Total Net <sup>1</sup>	145	74	18	14	--	--	163	75	--	--	--	--	76	130	234	107	310	168	473	184	
<b>Less than 25% disturbed</b>																					
Mortality	-433	113	-247	80	--	--	-681	138	-255	97	-550	222	-784	112	-847	117	-1,631	159	-3,117	320	
Cut	--	--	--	--	--	--	--	--	--	--	-3	3	-255	90	-63	40	-319	98	-321	98	
Gross Growth	1,222	209	870	182	--	--	2,092	275	923	220	1,874	323	5,991	568	4,596	451	10,587	689	15,476	833	
Net Live	789	175	622	154	--	--	1,411	232	667	166	1,321	230	4,952	500	3,687	393	8,638	607	12,038	705	
Standing Dead Change	8	63	37	38	--	--	45	74	-73	58	29	36	215	116	93	59	308	130	309	164	
Dead Woody Debris Change	-80	58	-71	59	--	--	-151	83	-77	136	-47	67	-472	241	-242	147	-714	282	-988	331	
Total Net <sup>1</sup>	908	206	708	191	--	--	1,616	279	633	228	1,612	283	6,004	665	4,399	487	10,403	793	14,263	912	
<b>Total</b>																					
Mortality	-800	171	-535	156	--	--	-1,335	230	-285	106	-760	241	-1,149	145	-1,237	150	-2,386	204	-4,765	403	
Cut	--	--	--	--	--	--	--	--	--	--	-107	110	-3,509	736	-631	232	-4,140	767	-4,248	775	
Gross Growth	1,552	227	1,067	192	--	--	2,619	294	926	220	2,034	321	7,545	610	5,828	508	13,372	742	18,952	881	
Net Live	752	207	532	182	--	--	1,285	274	641	168	1,167	262	2,887	806	3,959	463	6,847	920	9,940	1,007	
Standing Dead Change	80	78	51	61	--	--	132	99	-68	59	-36	99	254	133	171	71	425	150	452	214	
Dead Woody Debris Change	-21	75	-21	86	--	--	-42	114	-62	137	2	102	-913	344	-192	187	-1,105	392	-1,206	442	
Total Net <sup>1</sup>	976	227	660	219	--	--	1,636	314	625	228	1,407	348	3,043	1,137	4,874	573	7,917	1,268	11,585	1,368	

<sup>1</sup> Total Net value includes change from roots and understory vegetation which are not enumerated in this table. Excludes change from SOC and forest floor (litter).









Table B11: Annual Net Change in Carbon Stocks for Aboveground Pools on Timberland by Disturbance, and Owner Group, 2001-2008 to 2011-2018: All California

	USDA Forest Service		Other Public				Private				Total		Total	
			Other federal		State and local govt.		Corporate		Non Corporate					
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons CO2 equivalent per year</i>														
<b>Cut</b>														
Mortality	-207	72	--	--	--	--	-415	70	-209	67	-624	96	-831	120
Cut	-1,124	226	-5	5	--	--	-8,250	945	-786	247	-9,036	969	-10,164	996
Gross Growth	1,067	163	10	12	--	--	3,663	334	908	211	4,572	386	5,648	420
Net Live	-264	188	6	7	--	--	-5,002	817	-86	214	-5,088	844	-5,347	865
Standing Dead Change	-198	128	--	--	--	--	-99	72	56	56	-43	91	-241	157
Dead Woody Debris Change	-3	81	3	4	--	--	-564	273	94	139	-469	307	-469	317
Total Net <sup>1</sup>	-548	263	10	12	--	--	-6,821	1,142	61	286	-6,761	1,178	-7,298	1,207
<b>Cut and Fire</b>														
Mortality	-327	129	--	--	-17	18	-517	154	-30	30	-547	157	-891	204
Cut	-593	239	--	--	-105	109	-1,144	401	--	--	-1,144	401	-1,842	480
Gross Growth	261	77	--	--	53	55	223	61	5	5	228	61	541	113
Net Live	-660	247	--	--	-69	72	-1,439	448	-25	25	-1,464	449	-2,192	517
Standing Dead Change	35	60	--	--	-1	1	67	56	-7	7	60	57	94	83
Dead Woody Debris Change	-33	41	--	--	12	13	82	98	-7	7	75	99	55	107
Total Net <sup>1</sup>	-798	305	--	--	-69	72	-1,600	499	-44	44	-1,643	501	-2,510	591
<b>Fire</b>														
Mortality	-6,743	831	-39	21	--	--	-281	92	-309	141	-590	168	-7,372	848
Cut	-190	176	--	--	--	--	-13	11	-22	18	-35	21	-225	177
Gross Growth	2,016	210	37	23	--	--	189	60	188	71	377	93	2,430	231
Net Live	-4,917	768	-1	24	--	--	-105	78	-144	117	-249	141	-5,167	781
Standing Dead Change	2,850	547	4	3	--	--	15	60	125	70	140	92	2,994	555
Dead Woody Debris Change	-378	198	1	12	--	--	-117	47	52	44	-65	65	-442	209
Total Net <sup>1</sup>	-3,004	579	7	25	--	--	-220	129	38	76	-182	150	-3,179	599
<b>Insect and Disease</b>														
Mortality	-3,384	379	-14	12	-42	48	-334	79	-401	123	-735	145	-4,175	409
Cut	-64	30	--	--	--	--	-48	19	-30	19	-78	27	-143	41
Gross Growth	4,308	328	11	9	32	30	1,017	186	772	184	1,789	259	6,141	419
Net Live	860	330	-3	3	-10	24	635	137	341	153	976	204	1,823	389
Standing Dead Change	419	279	9	7	-40	56	-28	37	99	100	71	106	459	304
Dead Woody Debris Change	238	219	-11	9	54	70	-61	61	-8	47	-69	77	211	242
Total Net <sup>1</sup>	1,828	351	-4	4	3	21	693	161	522	168	1,216	232	3,043	421
<b>Other cut and weather</b>														
Mortality	-876	218	-7	5	--	--	-182	76	-107	44	-289	88	-1,172	236
Cut	-123	52	-15	15	--	--	-221	83	-143	59	-364	102	-502	115
Gross Growth	1,033	165	63	44	--	--	702	168	492	130	1,194	212	2,291	272
Net Live	34	184	41	43	--	--	299	129	243	97	541	161	616	248
Standing Dead Change	418	183	9	6	--	--	28	16	-11	11	17	20	444	184
Dead Woody Debris Change	-7	112	7	13	--	--	-251	127	115	92	-135	157	-136	193
Total Net <sup>1</sup>	520	157	69	54	--	--	151	173	405	155	556	233	1,145	286
<b>Less than 25% disturbed</b>														
Mortality	-5,502	392	-124	50	-76	28	-1,939	173	-1,571	168	-3,509	231	-9,212	458
Cut	-28	14	--	--	-3	3	-396	98	-105	45	-500	107	-531	108
Gross Growth	14,192	513	479	124	828	211	12,309	673	7,444	529	19,753	756	35,252	934
Net Live	8,661	495	355	105	749	193	9,975	606	5,769	462	15,744	691	25,509	869
Standing Dead Change	312	287	19	18	-23	14	313	161	162	97	474	187	782	344
Dead Woody Debris Change	-153	329	61	46	-59	33	-673	294	-178	189	-851	349	-1,001	483
Total Net <sup>1</sup>	10,948	634	516	143	833	219	12,151	798	7,159	592	19,310	910	31,607	1,130
<b>Total</b>														
Mortality	-17,039	941	-184	54	-135	58	-3,668	267	-2,626	263	-6,294	355	-23,652	1,010
Cut	-2,122	375	-20	16	-108	110	-10,072	1,033	-1,086	259	-11,158	1,055	-13,408	1,125
Gross Growth	22,876	505	601	134	913	217	18,104	697	9,809	590	27,913	727	52,303	898
Net Live	3,715	1,073	397	116	671	212	4,364	1,167	6,097	554	10,460	1,275	15,243	1,694
Standing Dead Change	3,836	709	40	20	-63	58	297	198	423	166	720	258	4,533	756
Dead Woody Debris Change	-337	466	61	51	7	78	-1,583	437	69	261	-1,514	510	-1,783	697
Total Net <sup>1</sup>	8,947	1,044	599	154	767	236	4,354	1,546	8,142	696	12,496	1,679	22,810	2,000

<sup>1</sup>Total Net value includes change from roots and understory vegetation which are not enumerated in this table.



**Table C1: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: All California**

\*information duplicated in Table C9.9

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	382,565	8,169	25,382	2,043	407,948	7,997	128,734	5,990	16,786	1,645	145,520	5,956	553,468	9,003
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	382,565	8,169	25,382	2,043	407,948	7,997	128,734	5,990	16,786	1,645	145,520	5,956	553,468	9,003
<b>Other federal government:</b>														
Bureau of Land Management	8,940	2,026	6,728	959	15,668	2,223	3,436	1,140	1,267	307	4,703	1,181	20,371	2,486
Department of Defense and Energy	274	201	877	291	1,152	353	--	--	148	153	148	153	1,299	385
National Park Service	--	--	--	--	--	--	58,370	5,742	6,838	1,223	65,208	5,810	65,208	5,810
U.S. Fish and Wildlife Service	--	--	--	--	--	--	28	28	13	14	41	31	41	31
Other federal	--	--	274	112	274	112	--	--	67	54	67	54	341	124
Total	9,215	2,035	7,880	1,004	17,094	2,245	61,834	5,801	8,332	1,259	70,166	5,861	87,260	5,944
<b>State and local government:</b>														
Local	3,480	1,339	1,807	446	5,286	1,411	3,852	1,521	3,419	765	7,270	1,665	12,556	2,173
State	7,805	2,032	730	404	8,535	2,043	29,612	6,570	4,450	1,143	34,062	6,639	42,597	6,287
Other public	--	--	--	--	--	--	326	363	38	42	365	365	365	365
Total	11,285	2,387	2,537	602	13,822	2,434	33,790	6,726	7,907	1,356	41,696	6,808	55,518	6,503
<b>Private:</b>														
Corporate	169,888	6,499	14,188	1,544	184,077	6,605	--	--	--	--	--	--	184,077	6,605
<b>Noncorporate private:</b>														
Total, noncorporate private	129,779	6,702	54,675	2,357	184,455	6,858	--	--	--	--	--	--	184,455	6,858
<b>All private</b>	299,668	7,598	68,864	2,722	368,531	7,510	--	--	--	--	--	--	368,531	7,510
<b>All owners</b>	702,733	11,353	104,662	3,586	807,395	11,167	224,357	10,702	33,025	2,472	257,383	10,763	1,064,778	13,954

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C2: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	6	5	681	343	686	343	2,922	1,839	1,604	601	4,526	1,961	5,212	1,991
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>6</b>	<b>5</b>	<b>681</b>	<b>343</b>	<b>686</b>	<b>343</b>	<b>2,922</b>	<b>1,839</b>	<b>1,604</b>	<b>601</b>	<b>4,526</b>	<b>1,961</b>	<b>5,212</b>	<b>1,991</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	140	56	140	56	--	--	13	9	13	9	153	57
Department of Defense and Energy	--	--	703	276	703	276	--	--	--	--	--	--	703	276
National Park Service	--	--	--	--	--	--	--	--	189	210	189	210	189	210
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	47	52	47	52	--	--	--	--	--	--	47	52
<b>Total</b>	<b>--</b>	<b>--</b>	<b>890</b>	<b>285</b>	<b>890</b>	<b>285</b>	<b>--</b>	<b>--</b>	<b>202</b>	<b>210</b>	<b>202</b>	<b>210</b>	<b>1,091</b>	<b>354</b>
<b>State and local government:</b>														
Local	--	--	622	298	622	298	3,852	1,521	2,224	592	6,076	1,593	6,697	1,618
State	1,425	942	94	57	1,520	958	5,203	2,364	1,948	517	7,152	2,420	8,672	2,577
Other public	--	--	--	--	--	--	326	363	38	42	365	365	365	365
<b>Total</b>	<b>1,425</b>	<b>942</b>	<b>716</b>	<b>303</b>	<b>2,141</b>	<b>1,004</b>	<b>9,381</b>	<b>2,819</b>	<b>4,211</b>	<b>765</b>	<b>13,592</b>	<b>2,885</b>	<b>15,734</b>	<b>3,000</b>
<b>Private:</b>														
Corporate	2,785	1,196	3,599	881	6,384	1,485	--	--	--	--	--	--	6,384	1,485
<b>Noncorporate private:</b>														
Total, noncorporate private	14,596	3,100	11,217	1,135	25,812	3,283	--	--	--	--	--	--	25,812	3,283
<b>All private</b>	<b>17,380</b>	<b>3,310</b>	<b>14,816</b>	<b>1,426</b>	<b>32,196</b>	<b>3,585</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>32,196</b>	<b>3,585</b>
<b>All owners</b>	<b>18,811</b>	<b>3,465</b>	<b>17,103</b>	<b>1,524</b>	<b>35,914</b>	<b>3,768</b>	<b>12,303</b>	<b>3,366</b>	<b>6,016</b>	<b>987</b>	<b>18,319</b>	<b>3,490</b>	<b>54,233</b>	<b>5,153</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C3: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: Central Valley**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other federal government:</b>														
Bureau of Land Management	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	13	14	13	14	13	14
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	13	14	13	14	13	14
<b>State and local government:</b>														
Local	--	--	81	72	81	72	--	--	--	--	--	--	81	72
State	--	--	--	--	--	--	--	--	145	148	145	148	145	148
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	81	72	81	72	--	--	145	148	145	148	226	165
<b>Private:</b>														
Corporate	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	--	--	1,017	375	1,017	375	--	--	--	--	--	--	1,017	375
<b>All private</b>	--	--	1,017	375	1,017	375	--	--	--	--	--	--	1,017	375
<b>All owners</b>	--	--	1,098	382	1,098	382	--	--	158	149	158	149	1,256	410

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C4: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: Eastside**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	13,082	1,506	4,484	575	17,566	1,610	1,901	901	1,338	440	3,239	1,000	20,805	1,894
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>13,082</b>	<b>1,506</b>	<b>4,484</b>	<b>575</b>	<b>17,566</b>	<b>1,610</b>	<b>1,901</b>	<b>901</b>	<b>1,338</b>	<b>440</b>	<b>3,239</b>	<b>1,000</b>	<b>20,805</b>	<b>1,894</b>
<b>Other federal government:</b>														
Bureau of Land Management	250	121	1,752	256	2,002	281	--	--	327	134	327	134	2,329	307
Department of Defense and Energy	--	--	109	64	109	64	--	--	--	--	--	--	109	64
National Park Service	--	--	--	--	--	--	--	--	360	136	360	136	360	136
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>250</b>	<b>121</b>	<b>1,860</b>	<b>262</b>	<b>2,110</b>	<b>287</b>	<b>--</b>	<b>--</b>	<b>687</b>	<b>190</b>	<b>687</b>	<b>190</b>	<b>2,797</b>	<b>335</b>
<b>State and local government:</b>														
Local	--	--	52	53	52	53	--	--	--	--	--	--	52	53
State	--	--	--	--	--	--	175	194	54	46	228	200	228	200
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>52</b>	<b>53</b>	<b>52</b>	<b>53</b>	<b>175</b>	<b>194</b>	<b>54</b>	<b>46</b>	<b>228</b>	<b>200</b>	<b>281</b>	<b>206</b>
<b>Private:</b>														
Corporate	2,983	630	294	103	3,277	639	--	--	--	--	--	--	3,277	639
<b>Noncorporate private:</b>														
Total, noncorporate private	1,220	394	572	158	1,792	426	--	--	--	--	--	--	1,792	426
<b>All private</b>	<b>4,203</b>	<b>740</b>	<b>866</b>	<b>189</b>	<b>5,069</b>	<b>765</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>5,069</b>	<b>765</b>
<b>All owners</b>	<b>17,535</b>	<b>1,699</b>	<b>7,263</b>	<b>662</b>	<b>24,798</b>	<b>1,822</b>	<b>2,075</b>	<b>922</b>	<b>2,079</b>	<b>481</b>	<b>4,154</b>	<b>1,038</b>	<b>28,952</b>	<b>2,094</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C5: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	135,617	6,956	8,438	1,436	144,055	7,030	64,870	4,386	4,304	908	69,175	4,442	213,229	8,096
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>135,617</b>	<b>6,956</b>	<b>8,438</b>	<b>1,436</b>	<b>144,055</b>	<b>7,030</b>	<b>64,870</b>	<b>4,386</b>	<b>4,304</b>	<b>908</b>	<b>69,175</b>	<b>4,442</b>	<b>213,229</b>	<b>8,096</b>
<b>Other federal government:</b>														
Bureau of Land Management	4,119	1,208	2,772	723	6,892	1,408	435	431	367	228	802	488	7,693	1,487
Department of Defense and Energy	--	--	--	--	--	--	--	--	148	153	148	153	148	153
National Park Service	--	--	--	--	--	--	8,847	3,932	748	383	9,595	3,952	9,595	3,952
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	30	19	30	19	--	--	16	17	16	17	46	26
<b>Total</b>	<b>4,119</b>	<b>1,208</b>	<b>2,803</b>	<b>723</b>	<b>6,922</b>	<b>1,408</b>	<b>9,282</b>	<b>3,949</b>	<b>1,278</b>	<b>470</b>	<b>10,560</b>	<b>3,978</b>	<b>17,482</b>	<b>4,185</b>
<b>State and local government:</b>														
Local	456	393	163	110	619	408	--	--	105	108	105	108	724	422
State	485	295	75	60	559	301	508	452	467	312	975	601	1,534	672
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>941</b>	<b>491</b>	<b>238</b>	<b>125</b>	<b>1,179</b>	<b>507</b>	<b>508</b>	<b>452</b>	<b>572</b>	<b>330</b>	<b>1,080</b>	<b>611</b>	<b>2,258</b>	<b>794</b>
<b>Private:</b>														
Corporate	30,001	2,824	4,043	710	34,045	2,920	--	--	--	--	--	--	34,045	2,920
<b>Noncorporate private:</b>														
Total, noncorporate private	35,801	3,752	14,777	1,324	50,578	3,961	--	--	--	--	--	--	50,578	3,961
<b>All private</b>	<b>65,802</b>	<b>4,559</b>	<b>18,821</b>	<b>1,490</b>	<b>84,623</b>	<b>4,769</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>84,623</b>	<b>4,769</b>
<b>All owners</b>	<b>206,479</b>	<b>8,436</b>	<b>30,299</b>	<b>2,202</b>	<b>236,778</b>	<b>8,641</b>	<b>74,660</b>	<b>5,914</b>	<b>6,155</b>	<b>1,074</b>	<b>80,815</b>	<b>5,990</b>	<b>317,593</b>	<b>10,307</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C6: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: North Coast**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	1,547	942	53	51	1,600	944	2,140	1,672	--	--	2,140	1,672	3,740	1,918
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1,547</b>	<b>942</b>	<b>53</b>	<b>51</b>	<b>1,600</b>	<b>944</b>	<b>2,140</b>	<b>1,672</b>	<b>--</b>	<b>--</b>	<b>2,140</b>	<b>1,672</b>	<b>3,740</b>	<b>1,918</b>
<b>Other federal government:</b>														
Bureau of Land Management	2,613	1,470	--	--	2,613	1,470	2,717	1,024	--	--	2,717	1,024	5,330	1,790
Department of Defense and Energy	271	201	--	--	271	201	--	--	--	--	--	--	271	201
National Park Service	--	--	--	--	--	--	5,830	2,712	136	105	5,966	2,712	5,966	2,712
U.S. Fish and Wildlife Service	--	--	--	--	--	--	28	28	--	--	28	28	28	28
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>2,884</b>	<b>1,483</b>	<b>--</b>	<b>--</b>	<b>2,884</b>	<b>1,483</b>	<b>8,574</b>	<b>2,883</b>	<b>136</b>	<b>105</b>	<b>8,710</b>	<b>2,881</b>	<b>11,595</b>	<b>3,223</b>
<b>State and local government:</b>														
Local	1,973	1,160	22	22	1,995	1,160	--	--	681	318	681	318	2,676	1,203
State	4,550	1,637	12	11	4,561	1,637	19,934	6,545	1,012	936	20,946	6,612	25,507	6,515
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>6,523</b>	<b>1,970</b>	<b>34</b>	<b>25</b>	<b>6,556</b>	<b>1,970</b>	<b>19,934</b>	<b>6,545</b>	<b>1,693</b>	<b>989</b>	<b>21,627</b>	<b>6,619</b>	<b>28,184</b>	<b>6,577</b>
<b>Private:</b>														
Corporate	71,394	5,608	918	378	72,312	5,620	--	--	--	--	--	--	72,312	5,620
<b>Noncorporate private:</b>														
Total, noncorporate private	49,943	4,631	4,300	944	54,243	4,711	--	--	--	--	--	--	54,243	4,711
<b>All private</b>	<b>121,337</b>	<b>6,879</b>	<b>5,218</b>	<b>1,014</b>	<b>126,556</b>	<b>6,927</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>126,556</b>	<b>6,927</b>
<b>All owners</b>	<b>132,291</b>	<b>7,332</b>	<b>5,305</b>	<b>1,015</b>	<b>137,596</b>	<b>7,376</b>	<b>30,649</b>	<b>7,344</b>	<b>1,829</b>	<b>994</b>	<b>32,478</b>	<b>7,410</b>	<b>170,074</b>	<b>10,198</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C7: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	229,699	7,833	9,273	1,283	238,972	7,807	54,832	4,666	8,099	1,151	62,931	4,702	301,903	8,843
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>229,699</b>	<b>7,833</b>	<b>9,273</b>	<b>1,283</b>	<b>238,972</b>	<b>7,807</b>	<b>54,832</b>	<b>4,666</b>	<b>8,099</b>	<b>1,151</b>	<b>62,931</b>	<b>4,702</b>	<b>301,903</b>	<b>8,843</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,958	752	2,026	591	3,984	960	285	256	526	159	810	301	4,794	998
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	43,693	3,925	5,245	1,131	48,938	4,024	48,938	4,024
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	174	96	174	96	--	--	49	51	49	51	223	109
<b>Total</b>	<b>1,958</b>	<b>752</b>	<b>2,200</b>	<b>598</b>	<b>4,158</b>	<b>963</b>	<b>43,978</b>	<b>3,931</b>	<b>5,820</b>	<b>1,141</b>	<b>49,798</b>	<b>4,028</b>	<b>53,955</b>	<b>4,064</b>
<b>State and local government:</b>														
Local	1,050	541	690	278	1,740	609	--	--	406	354	406	354	2,145	704
State	1,345	854	550	396	1,895	929	3,635	1,507	687	253	4,321	1,521	6,216	1,717
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>2,395</b>	<b>1,011</b>	<b>1,239</b>	<b>483</b>	<b>3,634</b>	<b>1,110</b>	<b>3,635</b>	<b>1,507</b>	<b>1,092</b>	<b>435</b>	<b>4,727</b>	<b>1,562</b>	<b>8,361</b>	<b>1,855</b>
<b>Private:</b>														
Corporate	62,588	3,959	5,209	987	67,797	4,048	--	--	--	--	--	--	67,797	4,048
<b>Noncorporate private:</b>														
Total, noncorporate private	27,958	2,622	20,307	1,384	48,266	2,906	--	--	--	--	--	--	48,266	2,906
<b>All private</b>	<b>90,546</b>	<b>4,499</b>	<b>25,516</b>	<b>1,663</b>	<b>116,063</b>	<b>4,638</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>116,063</b>	<b>4,638</b>
<b>All owners</b>	<b>324,599</b>	<b>9,048</b>	<b>38,228</b>	<b>2,229</b>	<b>362,827</b>	<b>9,103</b>	<b>102,444</b>	<b>6,284</b>	<b>15,011</b>	<b>1,678</b>	<b>117,455</b>	<b>6,381</b>	<b>480,282</b>	<b>10,629</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C8: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	2,615	782	2,453	465	5,069	915	2,069	701	1,441	457	3,510	835	8,579	1,237
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>2,615</b>	<b>782</b>	<b>2,453</b>	<b>465</b>	<b>5,069</b>	<b>915</b>	<b>2,069</b>	<b>701</b>	<b>1,441</b>	<b>457</b>	<b>3,510</b>	<b>835</b>	<b>8,579</b>	<b>1,237</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	38	26	38	26	--	--	34	23	34	23	72	35
Department of Defense and Energy	3	3	66	68	69	68	--	--	--	--	--	--	69	68
National Park Service	--	--	--	--	--	--	--	--	161	64	161	64	161	64
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	23	15	23	15	--	--	1	1	1	1	24	15
<b>Total</b>	<b>3</b>	<b>3</b>	<b>127</b>	<b>74</b>	<b>130</b>	<b>74</b>	<b>--</b>	<b>--</b>	<b>196</b>	<b>68</b>	<b>196</b>	<b>68</b>	<b>327</b>	<b>101</b>
<b>State and local government:</b>														
Local	--	--	177	113	177	113	--	--	3	3	3	3	180	113
State	--	--	--	--	--	--	157	210	137	74	294	222	294	222
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>177</b>	<b>113</b>	<b>177</b>	<b>113</b>	<b>157</b>	<b>210</b>	<b>140</b>	<b>75</b>	<b>297</b>	<b>222</b>	<b>474</b>	<b>249</b>
<b>Private:</b>														
Corporate	137	136	125	75	262	155	--	--	--	--	--	--	262	155
<b>Noncorporate private:</b>														
Total, noncorporate private	261	203	2,485	689	2,746	727	--	--	--	--	--	--	2,746	727
<b>All private</b>	<b>398</b>	<b>244</b>	<b>2,610</b>	<b>693</b>	<b>3,008</b>	<b>744</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>3,008</b>	<b>744</b>
<b>All owners</b>	<b>3,017</b>	<b>819</b>	<b>5,367</b>	<b>844</b>	<b>8,385</b>	<b>1,185</b>	<b>2,226</b>	<b>732</b>	<b>1,777</b>	<b>468</b>	<b>4,003</b>	<b>866</b>	<b>12,388</b>	<b>1,467</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C9.1: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2001 - 2010**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	373,849	8,877	29,602	2,074	403,450	8,840	121,333	6,844	17,210	1,732	138,542	6,990	541,993	8,812
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>373,849</b>	<b>8,877</b>	<b>29,602</b>	<b>2,074</b>	<b>403,450</b>	<b>8,840</b>	<b>121,333</b>	<b>6,844</b>	<b>17,210</b>	<b>1,732</b>	<b>138,542</b>	<b>6,990</b>	<b>541,993</b>	<b>8,812</b>
<b>Other federal government:</b>														
Bureau of Land Management	10,193	1,809	5,994	820	16,187	1,961	1,000	511	1,244	246	2,245	567	18,432	2,022
Department of Defense and Energy	137	150	753	260	889	300	--	--	--	--	--	--	889	300
National Park Service	--	--	--	--	--	--	56,194	6,096	6,207	1,056	62,402	6,034	62,402	6,034
U.S. Fish and Wildlife Service	--	--	--	--	--	--	58	71	2	2	60	71	60	71
Other federal	--	--	610	285	610	285	1,262	909	349	280	1,611	950	2,222	992
<b>Total</b>	<b>10,330</b>	<b>1,815</b>	<b>7,357</b>	<b>897</b>	<b>17,687</b>	<b>1,991</b>	<b>58,514</b>	<b>6,161</b>	<b>7,803</b>	<b>1,112</b>	<b>66,318</b>	<b>6,095</b>	<b>84,004</b>	<b>6,288</b>
<b>State and local government:</b>														
Local	1,710	911	1,988	567	3,699	1,082	2,576	1,180	3,866	850	6,442	1,449	10,141	1,805
State	6,348	1,898	572	292	6,920	1,919	31,706	7,542	5,079	1,232	36,785	7,633	43,705	7,684
Other public	--	--	22	20	22	20	447	400	40	38	487	402	508	403
<b>Total</b>	<b>8,058</b>	<b>2,101</b>	<b>2,583</b>	<b>638</b>	<b>10,641</b>	<b>2,199</b>	<b>34,729</b>	<b>7,640</b>	<b>8,985</b>	<b>1,489</b>	<b>43,714</b>	<b>7,769</b>	<b>54,355</b>	<b>7,882</b>
<b>Private:</b>														
Corporate	139,808	5,665	6,745	894	146,553	5,710	--	--	--	--	--	--	146,553	5,710
<b>Noncorporate private:</b>														
Total, noncorporate private	136,572	6,591	61,819	2,531	198,390	6,824	--	--	--	--	--	--	198,390	6,824
<b>All private</b>	<b>276,380</b>	<b>7,125</b>	<b>68,564</b>	<b>2,626</b>	<b>344,943</b>	<b>7,154</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>344,943</b>	<b>7,154</b>
<b>All owners</b>	<b>668,616</b>	<b>11,576</b>	<b>108,105</b>	<b>3,499</b>	<b>776,721</b>	<b>11,570</b>	<b>214,576</b>	<b>11,485</b>	<b>33,998</b>	<b>2,537</b>	<b>248,574</b>	<b>11,615</b>	<b>1,025,295</b>	<b>14,010</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C9.2: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2002 - 2011**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	380,191	9,035	29,240	2,099	409,431	9,002	123,054	6,951	17,513	1,770	140,567	7,099	549,998	8,999
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>380,191</b>	<b>9,035</b>	<b>29,240</b>	<b>2,099</b>	<b>409,431</b>	<b>9,002</b>	<b>123,054</b>	<b>6,951</b>	<b>17,513</b>	<b>1,770</b>	<b>140,567</b>	<b>7,099</b>	<b>549,998</b>	<b>8,999</b>
<b>Other federal government:</b>														
Bureau of Land Management	10,220	1,820	5,917	816	16,137	1,975	1,021	532	1,275	251	2,296	587	18,433	2,042
Department of Defense and Energy	150	156	780	259	930	303	--	--	--	--	--	--	930	303
National Park Service	--	--	--	--	--	--	57,347	6,161	6,331	1,068	63,678	6,096	63,678	6,096
U.S. Fish and Wildlife Service	--	--	--	--	--	--	58	71	2	2	60	71	60	71
Other federal	--	--	606	284	606	284	1,256	907	351	281	1,607	948	2,213	990
<b>Total</b>	<b>10,370</b>	<b>1,826</b>	<b>7,303</b>	<b>893</b>	<b>17,673</b>	<b>2,005</b>	<b>59,681</b>	<b>6,226</b>	<b>7,959</b>	<b>1,124</b>	<b>67,640</b>	<b>6,158</b>	<b>85,313</b>	<b>6,353</b>
<b>State and local government:</b>														
Local	1,616	926	2,020	573	3,636	1,097	2,640	1,217	3,919	863	6,558	1,486	10,194	1,844
State	6,332	1,891	669	382	7,001	1,928	32,172	7,571	5,340	1,264	37,512	7,667	44,512	7,724
Other public	--	--	23	20	23	20	460	406	32	37	493	408	515	409
<b>Total</b>	<b>7,948</b>	<b>2,102</b>	<b>2,711</b>	<b>689</b>	<b>10,659</b>	<b>2,214</b>	<b>35,272</b>	<b>7,674</b>	<b>9,291</b>	<b>1,522</b>	<b>44,562</b>	<b>7,809</b>	<b>55,221</b>	<b>7,931</b>
<b>Private:</b>														
Corporate	137,062	5,645	8,697	1,112	145,759	5,718	--	--	--	--	--	--	145,759	5,718
<b>Noncorporate private:</b>														
Total, noncorporate private	138,397	6,690	59,900	2,464	198,297	6,912	--	--	--	--	--	--	198,297	6,912
<b>All private</b>	<b>275,458</b>	<b>7,262</b>	<b>68,598</b>	<b>2,631</b>	<b>344,056</b>	<b>7,288</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>344,056</b>	<b>7,288</b>
<b>All owners</b>	<b>673,968</b>	<b>11,698</b>	<b>107,852</b>	<b>3,524</b>	<b>781,819</b>	<b>11,689</b>	<b>218,007</b>	<b>11,621</b>	<b>34,763</b>	<b>2,587</b>	<b>252,769</b>	<b>11,754</b>	<b>1,034,589</b>	<b>14,120</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C9.3: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2003 - 2012**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	377,970	7,980	26,957	2,018	404,927	7,803	126,839	6,058	18,631	1,821	145,470	6,031	550,397	8,811
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>377,970</b>	<b>7,980</b>	<b>26,957</b>	<b>2,018</b>	<b>404,927</b>	<b>7,803</b>	<b>126,839</b>	<b>6,058</b>	<b>18,631</b>	<b>1,821</b>	<b>145,470</b>	<b>6,031</b>	<b>550,397</b>	<b>8,811</b>
<b>Other federal government:</b>														
Bureau of Land Management	10,886	1,879	6,199	867	17,084	2,053	1,319	630	1,067	258	2,386	681	19,470	2,142
Department of Defense and Energy	257	200	710	248	966	319	--	--	142	147	142	147	1,109	351
National Park Service	--	--	--	--	--	--	57,324	5,580	6,549	1,169	63,872	5,627	63,872	5,627
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	651	286	651	286	540	571	368	291	909	640	1,559	698
<b>Total</b>	<b>11,142</b>	<b>1,884</b>	<b>7,559</b>	<b>941</b>	<b>18,701</b>	<b>2,084</b>	<b>59,183</b>	<b>5,580</b>	<b>8,126</b>	<b>1,221</b>	<b>67,309</b>	<b>5,623</b>	<b>86,010</b>	<b>5,698</b>
<b>State and local government:</b>														
Local	1,803	990	1,748	506	3,551	1,120	3,189	1,354	3,481	785	6,670	1,519	10,221	1,874
State	6,502	1,876	717	420	7,219	1,881	29,192	6,658	4,658	1,147	33,850	6,722	41,069	6,342
Other public	--	--	23	20	23	20	308	356	38	41	345	358	368	359
<b>Total</b>	<b>8,305</b>	<b>2,113</b>	<b>2,487</b>	<b>658</b>	<b>10,792</b>	<b>2,182</b>	<b>32,689</b>	<b>6,785</b>	<b>8,177</b>	<b>1,360</b>	<b>40,866</b>	<b>6,861</b>	<b>51,658</b>	<b>6,550</b>
<b>Private:</b>														
Corporate	138,858	5,529	8,913	1,134	147,771	5,608	--	--	--	--	--	--	147,771	5,608
<b>Noncorporate private:</b>														
Total, noncorporate private	141,064	6,814	58,289	2,420	199,353	6,973	--	--	--	--	--	--	199,353	6,973
<b>All private</b>	<b>279,922</b>	<b>7,111</b>	<b>67,202</b>	<b>2,609</b>	<b>347,124</b>	<b>7,062</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>347,124</b>	<b>7,062</b>
<b>All owners</b>	<b>677,339</b>	<b>10,791</b>	<b>104,206</b>	<b>3,480</b>	<b>781,545</b>	<b>10,623</b>	<b>218,711</b>	<b>10,661</b>	<b>34,934</b>	<b>2,576</b>	<b>253,645</b>	<b>10,710</b>	<b>1,035,190</b>	<b>13,525</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C9.4: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2004 - 2013**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	381,415	8,037	26,395	2,021	407,810	7,857	127,014	6,138	18,548	1,839	145,562	6,096	553,373	8,911
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>381,415</b>	<b>8,037</b>	<b>26,395</b>	<b>2,021</b>	<b>407,810</b>	<b>7,857</b>	<b>127,014</b>	<b>6,138</b>	<b>18,548</b>	<b>1,839</b>	<b>145,562</b>	<b>6,096</b>	<b>553,373</b>	<b>8,911</b>
<b>Other federal government:</b>														
Bureau of Land Management	10,901	1,906	6,227	871	17,128	2,078	1,707	714	1,174	267	2,881	762	20,009	2,190
Department of Defense and Energy	257	200	728	252	984	322	--	--	142	147	142	147	1,127	354
National Park Service	--	--	--	--	--	--	58,486	5,664	6,766	1,204	65,252	5,723	65,252	5,723
U.S. Fish and Wildlife Service	--	--	--	--	--	--	28	28	14	14	42	32	42	32
Other federal	--	--	483	157	483	157	--	--	79	54	79	54	562	166
<b>Total</b>	<b>11,158</b>	<b>1,910</b>	<b>7,437</b>	<b>916</b>	<b>18,595</b>	<b>2,098</b>	<b>60,220</b>	<b>5,673</b>	<b>8,176</b>	<b>1,227</b>	<b>68,396</b>	<b>5,724</b>	<b>86,991</b>	<b>5,795</b>
<b>State and local government:</b>														
Local	1,877	1,022	1,884	520	3,761	1,155	3,381	1,344	3,452	764	6,832	1,511	10,593	1,894
State	6,811	1,959	717	420	7,528	1,961	29,069	6,664	4,652	1,156	33,720	6,729	41,249	6,332
Other public	--	--	23	20	23	20	333	371	38	41	370	373	393	374
<b>Total</b>	<b>8,688</b>	<b>2,200</b>	<b>2,624</b>	<b>668</b>	<b>11,312</b>	<b>2,267</b>	<b>32,782</b>	<b>6,787</b>	<b>8,141</b>	<b>1,358</b>	<b>40,923</b>	<b>6,865</b>	<b>52,235</b>	<b>6,544</b>
<b>Private:</b>														
Corporate	142,964	5,664	9,804	1,223	152,769	5,751	--	--	--	--	--	--	152,769	5,751
<b>Noncorporate private:</b>														
Total, noncorporate private	142,251	6,926	57,721	2,372	199,973	7,066	--	--	--	--	--	--	199,973	7,066
<b>All private</b>	<b>285,216</b>	<b>7,243</b>	<b>67,525</b>	<b>2,602</b>	<b>352,741</b>	<b>7,173</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>352,741</b>	<b>7,173</b>
<b>All owners</b>	<b>686,477</b>	<b>10,943</b>	<b>103,981</b>	<b>3,472</b>	<b>790,458</b>	<b>10,761</b>	<b>220,017</b>	<b>10,757</b>	<b>34,865</b>	<b>2,590</b>	<b>254,882</b>	<b>10,803</b>	<b>1,045,340</b>	<b>13,672</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C9.5: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2005 - 2014**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	383,675	8,009	26,274	2,040	409,949	7,818	129,836	6,208	18,523	1,843	148,358	6,143	558,307	8,940
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>383,675</b>	<b>8,009</b>	<b>26,274</b>	<b>2,040</b>	<b>409,949</b>	<b>7,818</b>	<b>129,836</b>	<b>6,208</b>	<b>18,523</b>	<b>1,843</b>	<b>148,358</b>	<b>6,143</b>	<b>558,307</b>	<b>8,940</b>
<b>Other federal government:</b>														
Bureau of Land Management	11,531	2,231	6,334	885	17,865	2,381	2,207	812	1,159	267	3,365	855	21,230	2,497
Department of Defense and Energy	257	200	762	279	1,019	343	--	--	142	147	142	147	1,161	373
National Park Service	--	--	--	--	--	--	59,328	5,722	6,776	1,218	66,103	5,782	66,103	5,782
U.S. Fish and Wildlife Service	--	--	--	--	--	--	28	28	14	14	41	31	41	31
Other federal	--	--	482	157	482	157	--	--	79	54	79	54	561	166
<b>Total</b>	<b>11,787</b>	<b>2,237</b>	<b>7,578</b>	<b>936</b>	<b>19,365</b>	<b>2,404</b>	<b>61,562</b>	<b>5,737</b>	<b>8,169</b>	<b>1,241</b>	<b>69,731</b>	<b>5,787</b>	<b>89,096</b>	<b>5,905</b>
<b>State and local government:</b>														
Local	2,649	1,138	2,037	531	4,687	1,263	3,384	1,344	3,441	754	6,825	1,498	11,512	1,953
State	7,233	1,982	770	422	8,002	1,991	28,984	6,468	4,672	1,153	33,655	6,534	41,658	6,134
Other public	--	--	22	20	22	20	333	371	38	41	370	373	393	373
<b>Total</b>	<b>9,882</b>	<b>2,276</b>	<b>2,830</b>	<b>678</b>	<b>12,712</b>	<b>2,349</b>	<b>32,700</b>	<b>6,593</b>	<b>8,151</b>	<b>1,353</b>	<b>40,851</b>	<b>6,670</b>	<b>53,562</b>	<b>6,368</b>
<b>Private:</b>														
Corporate	144,722	5,665	10,804	1,278	155,526	5,762	--	--	--	--	--	--	155,526	5,762
<b>Noncorporate private:</b>														
Total, noncorporate private	139,978	6,842	58,362	2,398	198,340	6,992	--	--	--	--	--	--	198,340	6,992
<b>All private</b>	<b>284,700</b>	<b>7,145</b>	<b>69,166</b>	<b>2,635</b>	<b>353,866</b>	<b>7,076</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>353,866</b>	<b>7,076</b>
<b>All owners</b>	<b>690,044</b>	<b>10,941</b>	<b>105,847</b>	<b>3,514</b>	<b>795,891</b>	<b>10,753</b>	<b>224,098</b>	<b>10,710</b>	<b>34,843</b>	<b>2,597</b>	<b>258,941</b>	<b>10,742</b>	<b>1,054,832</b>	<b>13,632</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C9.6: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2006 - 2015**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	385,079	8,046	25,740	2,028	410,819	7,858	130,176	6,189	17,456	1,709	147,632	6,136	558,451	8,969
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>385,079</b>	<b>8,046</b>	<b>25,740</b>	<b>2,028</b>	<b>410,819</b>	<b>7,858</b>	<b>130,176</b>	<b>6,189</b>	<b>17,456</b>	<b>1,709</b>	<b>147,632</b>	<b>6,136</b>	<b>558,451</b>	<b>8,969</b>
<b>Other federal government:</b>														
Bureau of Land Management	11,455	2,183	6,142	871	17,597	2,329	2,852	1,055	1,299	314	4,151	1,100	21,748	2,548
Department of Defense and Energy	257	200	791	281	1,047	345	--	--	145	150	145	150	1,192	376
National Park Service	--	--	--	--	--	--	59,901	5,744	6,716	1,214	66,617	5,807	66,617	5,807
U.S. Fish and Wildlife Service	--	--	--	--	--	--	28	28	14	14	41	31	41	31
Other federal	--	--	498	158	498	158	--	--	80	55	80	55	578	167
<b>Total</b>	<b>11,712</b>	<b>2,188</b>	<b>7,431</b>	<b>924</b>	<b>19,142</b>	<b>2,352</b>	<b>62,781</b>	<b>5,790</b>	<b>8,254</b>	<b>1,249</b>	<b>71,035</b>	<b>5,845</b>	<b>90,177</b>	<b>5,937</b>
<b>State and local government:</b>														
Local	2,590	1,123	2,089	537	4,679	1,253	3,524	1,409	3,371	750	6,895	1,554	11,573	1,990
State	7,823	2,071	607	398	8,431	2,076	29,409	6,499	4,666	1,162	34,076	6,566	42,506	6,177
Other public	--	--	22	20	22	20	326	363	38	41	364	366	386	366
<b>Total</b>	<b>10,413</b>	<b>2,345</b>	<b>2,719</b>	<b>669</b>	<b>13,132</b>	<b>2,414</b>	<b>33,259</b>	<b>6,637</b>	<b>8,075</b>	<b>1,359</b>	<b>41,334</b>	<b>6,714</b>	<b>54,466</b>	<b>6,413</b>
<b>Private:</b>														
Corporate	152,156	5,956	12,276	1,375	164,432	6,067	--	--	--	--	--	--	164,432	6,067
<b>Noncorporate private:</b>														
Total, noncorporate private	136,913	6,780	56,579	2,373	193,492	6,928	--	--	--	--	--	--	193,492	6,928
<b>All private</b>	<b>289,069</b>	<b>7,284</b>	<b>68,855</b>	<b>2,651</b>	<b>357,924</b>	<b>7,209</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>357,924</b>	<b>7,209</b>
<b>All owners</b>	<b>696,272</b>	<b>11,050</b>	<b>104,745</b>	<b>3,513</b>	<b>801,017</b>	<b>10,857</b>	<b>226,216</b>	<b>10,754</b>	<b>33,785</b>	<b>2,512</b>	<b>260,001</b>	<b>10,796</b>	<b>1,061,018</b>	<b>13,733</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C9.7: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2007 - 2016**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	385,136	8,094	24,929	2,003	410,065	7,907	130,657	6,171	17,172	1,678	147,828	6,125	557,893	9,046
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>385,136</b>	<b>8,094</b>	<b>24,929</b>	<b>2,003</b>	<b>410,065</b>	<b>7,907</b>	<b>130,657</b>	<b>6,171</b>	<b>17,172</b>	<b>1,678</b>	<b>147,828</b>	<b>6,125</b>	<b>557,893</b>	<b>9,046</b>
<b>Other federal government:</b>														
Bureau of Land Management	10,611	2,143	6,157	874	16,769	2,296	3,498	1,148	1,291	311	4,789	1,189	21,558	2,556
Department of Defense and Energy	297	210	807	281	1,104	351	--	--	156	156	156	156	1,260	384
National Park Service	--	--	--	--	--	--	60,639	5,796	6,782	1,219	67,422	5,858	67,422	5,858
U.S. Fish and Wildlife Service	--	--	--	--	--	--	28	28	14	14	41	31	41	31
Other federal	--	--	440	153	440	153	--	--	84	56	84	56	524	163
<b>Total</b>	<b>10,908</b>	<b>2,150</b>	<b>7,404</b>	<b>926</b>	<b>18,313</b>	<b>2,320</b>	<b>64,165</b>	<b>5,853</b>	<b>8,328</b>	<b>1,254</b>	<b>72,492</b>	<b>5,905</b>	<b>90,805</b>	<b>6,005</b>
<b>State and local government:</b>														
Local	3,424	1,318	2,132	537	5,556	1,427	3,586	1,443	3,368	751	6,954	1,586	12,511	2,127
State	7,392	1,968	710	407	8,102	1,977	29,845	6,583	4,670	1,154	34,515	6,647	42,617	6,240
Other public	--	--	22	20	22	20	326	363	37	40	363	366	386	366
<b>Total</b>	<b>10,816</b>	<b>2,358</b>	<b>2,864</b>	<b>674</b>	<b>13,680</b>	<b>2,427</b>	<b>33,758</b>	<b>6,724</b>	<b>8,075</b>	<b>1,353</b>	<b>41,832</b>	<b>6,798</b>	<b>55,513</b>	<b>6,514</b>
<b>Private:</b>														
Corporate	158,252	6,120	12,810	1,391	171,062	6,225	--	--	--	--	--	--	171,062	6,225
<b>Noncorporate private:</b>														
Total, noncorporate private	133,508	6,804	56,084	2,396	189,592	6,966	--	--	--	--	--	--	189,592	6,966
<b>All private</b>	<b>291,760</b>	<b>7,408</b>	<b>68,894</b>	<b>2,677</b>	<b>360,654</b>	<b>7,337</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>360,654</b>	<b>7,337</b>
<b>All owners</b>	<b>698,620</b>	<b>11,170</b>	<b>104,092</b>	<b>3,519</b>	<b>802,712</b>	<b>10,979</b>	<b>228,579</b>	<b>10,830</b>	<b>33,575</b>	<b>2,490</b>	<b>262,153</b>	<b>10,874</b>	<b>1,064,865</b>	<b>13,892</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C9.8: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2008 - 2017**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	383,952	8,128	25,373	2,053	409,325	7,939	129,909	6,141	16,859	1,656	146,768	6,103	556,093	9,074
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>383,952</b>	<b>8,128</b>	<b>25,373</b>	<b>2,053</b>	<b>409,325</b>	<b>7,939</b>	<b>129,909</b>	<b>6,141</b>	<b>16,859</b>	<b>1,656</b>	<b>146,768</b>	<b>6,103</b>	<b>556,093</b>	<b>9,074</b>
<b>Other federal government:</b>														
Bureau of Land Management	10,554	2,143	6,078	863	16,632	2,296	3,474	1,145	1,293	310	4,766	1,186	21,398	2,556
Department of Defense and Energy	297	210	801	280	1,097	350	--	--	145	150	145	150	1,242	380
National Park Service	--	--	--	--	--	--	59,078	5,739	6,901	1,243	65,978	5,805	65,978	5,805
U.S. Fish and Wildlife Service	--	--	--	--	--	--	28	28	14	14	41	31	41	31
Other federal	--	--	369	148	369	148	--	--	66	53	66	53	434	157
<b>Total</b>	<b>10,850</b>	<b>2,149</b>	<b>7,247</b>	<b>915</b>	<b>18,097</b>	<b>2,320</b>	<b>62,579</b>	<b>5,798</b>	<b>8,417</b>	<b>1,277</b>	<b>70,996</b>	<b>5,854</b>	<b>89,094</b>	<b>5,965</b>
<b>State and local government:</b>														
Local	3,481	1,327	2,099	534	5,581	1,433	3,745	1,510	3,222	750	6,967	1,648	12,548	2,178
State	7,381	1,966	715	408	8,097	1,975	30,027	6,586	4,464	1,143	34,491	6,653	42,587	6,243
Other public	--	--	22	20	22	20	326	363	38	42	365	365	387	366
<b>Total</b>	<b>10,863</b>	<b>2,361</b>	<b>2,837</b>	<b>672</b>	<b>13,700</b>	<b>2,429</b>	<b>34,098</b>	<b>6,739</b>	<b>7,724</b>	<b>1,347</b>	<b>41,822</b>	<b>6,818</b>	<b>55,522</b>	<b>6,533</b>
<b>Private:</b>														
Corporate	162,641	6,188	13,546	1,443	176,188	6,296	--	--	--	--	--	--	176,188	6,296
<b>Noncorporate private:</b>														
Total, noncorporate private	131,759	6,827	55,193	2,375	186,952	6,989	--	--	--	--	--	--	186,952	6,989
<b>All private</b>	<b>294,400</b>	<b>7,471</b>	<b>68,740</b>	<b>2,684</b>	<b>363,140</b>	<b>7,404</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>363,140</b>	<b>7,404</b>
<b>All owners</b>	<b>700,065</b>	<b>11,235</b>	<b>104,196</b>	<b>3,550</b>	<b>804,262</b>	<b>11,046</b>	<b>226,586</b>	<b>10,793</b>	<b>33,001</b>	<b>2,484</b>	<b>259,587</b>	<b>10,848</b>	<b>1,063,849</b>	<b>13,954</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C9.9: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2009-2018**

*\*information duplicated in Table C1*

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	382,565	8,169	25,382	2,043	407,948	7,997	128,734	5,990	16,786	1,645	145,520	5,956	553,468	9,003
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>382,565</b>	<b>8,169</b>	<b>25,382</b>	<b>2,043</b>	<b>407,948</b>	<b>7,997</b>	<b>128,734</b>	<b>5,990</b>	<b>16,786</b>	<b>1,645</b>	<b>145,520</b>	<b>5,956</b>	<b>553,468</b>	<b>9,003</b>
<b>Other federal government:</b>														
Bureau of Land Management	8,940	2,026	6,728	959	15,668	2,223	3,436	1,140	1,267	307	4,703	1,181	20,371	2,486
Department of Defense and Energy	274	201	877	291	1,152	353	--	--	148	153	148	153	1,299	385
National Park Service	--	--	--	--	--	--	58,370	5,742	6,838	1,223	65,208	5,810	65,208	5,810
U.S. Fish and Wildlife Service	--	--	--	--	--	--	28	28	13	14	41	31	41	31
Other federal	--	--	274	112	274	112	--	--	67	54	67	54	341	124
<b>Total</b>	<b>9,215</b>	<b>2,035</b>	<b>7,880</b>	<b>1,004</b>	<b>17,094</b>	<b>2,245</b>	<b>61,834</b>	<b>5,801</b>	<b>8,332</b>	<b>1,259</b>	<b>70,166</b>	<b>5,861</b>	<b>87,260</b>	<b>5,944</b>
<b>State and local government:</b>														
Local	3,480	1,339	1,807	446	5,286	1,411	3,852	1,521	3,419	765	7,270	1,665	12,556	2,173
State	7,805	2,032	730	404	8,535	2,043	29,612	6,570	4,450	1,143	34,062	6,639	42,597	6,287
Other public	--	--	--	--	--	--	326	363	38	42	365	365	365	365
<b>Total</b>	<b>11,285</b>	<b>2,387</b>	<b>2,537</b>	<b>602</b>	<b>13,822</b>	<b>2,434</b>	<b>33,790</b>	<b>6,726</b>	<b>7,907</b>	<b>1,356</b>	<b>41,696</b>	<b>6,808</b>	<b>55,518</b>	<b>6,503</b>
<b>Private:</b>														
Corporate	169,888	6,499	14,188	1,544	184,077	6,605	--	--	--	--	--	--	184,077	6,605
<b>Noncorporate private:</b>														
Total, noncorporate private	129,779	6,702	54,675	2,357	184,455	6,858	--	--	--	--	--	--	184,455	6,858
<b>All private</b>	<b>299,668</b>	<b>7,598</b>	<b>68,864</b>	<b>2,722</b>	<b>368,531</b>	<b>7,510</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>368,531</b>	<b>7,510</b>
<b>All owners</b>	<b>702,733</b>	<b>11,353</b>	<b>104,662</b>	<b>3,586</b>	<b>807,395</b>	<b>11,167</b>	<b>224,357</b>	<b>10,702</b>	<b>33,025</b>	<b>2,472</b>	<b>257,383</b>	<b>10,763</b>	<b>1,064,778</b>	<b>13,954</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C10: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: All California**

\*information duplicated in Table C18.9

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	42,652	1,965	2,777	403	45,430	1,983	19,455	1,412	2,342	337	21,797	1,424	67,227	2,392
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>42,652</b>	<b>1,965</b>	<b>2,777</b>	<b>403</b>	<b>45,430</b>	<b>1,983</b>	<b>19,455</b>	<b>1,412</b>	<b>2,342</b>	<b>337</b>	<b>21,797</b>	<b>1,424</b>	<b>67,227</b>	<b>2,392</b>
<b>Other federal government:</b>														
Bureau of Land Management	319	97	292	60	611	112	337	167	93	29	430	169	1,042	201
Department of Defense and Energy	--	--	18	9	18	9	--	--	--	--	--	--	18	9
National Park Service	--	--	--	--	--	--	9,046	1,250	569	137	9,616	1,256	9,616	1,256
U.S. Fish and Wildlife Service	--	--	--	--	--	--	8	8	--	--	8	8	8	8
Other federal	8	10	60	44	68	45	--	--	1	1	1	1	69	45
<b>Total</b>	<b>327</b>	<b>97</b>	<b>370</b>	<b>75</b>	<b>697</b>	<b>121</b>	<b>9,391</b>	<b>1,256</b>	<b>663</b>	<b>139</b>	<b>10,055</b>	<b>1,262</b>	<b>10,752</b>	<b>1,257</b>
<b>State and local government:</b>														
Local	188	85	67	24	255	89	144	76	125	50	269	91	524	127
State	295	157	28	17	323	158	1,010	218	213	76	1,223	228	1,546	255
Other public	--	--	--	--	--	--	2	2	--	--	2	2	2	2
<b>Total</b>	<b>483</b>	<b>174</b>	<b>95</b>	<b>30</b>	<b>578</b>	<b>177</b>	<b>1,155</b>	<b>229</b>	<b>339</b>	<b>91</b>	<b>1,494</b>	<b>244</b>	<b>2,072</b>	<b>275</b>
<b>Private:</b>														
Corporate	8,773	696	535	87	9,308	700	--	--	--	--	--	--	9,308	700
<b>Noncorporate private:</b>														
Total, noncorporate private	5,066	481	2,666	304	7,732	562	--	--	--	--	--	--	7,732	562
<b>All private</b>	<b>13,839</b>	<b>809</b>	<b>3,201</b>	<b>315</b>	<b>17,040</b>	<b>856</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>17,040</b>	<b>856</b>
<b>All owners</b>	<b>57,302</b>	<b>2,131</b>	<b>6,443</b>	<b>517</b>	<b>63,745</b>	<b>2,166</b>	<b>30,002</b>	<b>1,903</b>	<b>3,344</b>	<b>376</b>	<b>33,346</b>	<b>1,918</b>	<b>97,091</b>	<b>2,828</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C11: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	6	5	77	37	82	37	19	14	440	244	459	245	541	247
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>6</b>	<b>5</b>	<b>77</b>	<b>37</b>	<b>82</b>	<b>37</b>	<b>19</b>	<b>14</b>	<b>440</b>	<b>244</b>	<b>459</b>	<b>245</b>	<b>541</b>	<b>247</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	4	3	4	3	--	--	--	--	--	--	4	3
Department of Defense and Energy	--	--	10	7	10	7	--	--	--	--	--	--	10	7
National Park Service	--	--	--	--	--	--	--	--	23	25	23	25	23	25
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>14</b>	<b>8</b>	<b>14</b>	<b>8</b>	<b>--</b>	<b>--</b>	<b>23</b>	<b>25</b>	<b>23</b>	<b>25</b>	<b>37</b>	<b>26</b>
<b>State and local government:</b>														
Local	--	--	32	20	32	20	144	76	78	45	222	88	254	90
State	14	12	1	1	15	12	61	30	60	37	121	47	136	49
Other public	--	--	--	--	--	--	2	2	--	--	2	2	2	2
<b>Total</b>	<b>14</b>	<b>12</b>	<b>33</b>	<b>20</b>	<b>46</b>	<b>24</b>	<b>207</b>	<b>81</b>	<b>138</b>	<b>58</b>	<b>345</b>	<b>100</b>	<b>391</b>	<b>102</b>
<b>Private:</b>														
Corporate	47	23	96	40	143	47	--	--	--	--	--	--	143	47
<b>Noncorporate private:</b>														
Total, noncorporate private	545	149	517	112	1,062	185	--	--	--	--	--	--	1,062	185
<b>All private</b>	<b>592</b>	<b>150</b>	<b>613</b>	<b>119</b>	<b>1,205</b>	<b>191</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1,205</b>	<b>191</b>
<b>All owners</b>	<b>612</b>	<b>151</b>	<b>736</b>	<b>127</b>	<b>1,348</b>	<b>196</b>	<b>226</b>	<b>82</b>	<b>601</b>	<b>252</b>	<b>827</b>	<b>265</b>	<b>2,175</b>	<b>330</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C12: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: Central Valley**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other federal government:</b>														
Bureau of Land Management	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>State and local government:</b>														
Local	--	--	8	9	8	9	--	--	--	--	--	--	8	9
State	--	--	--	--	--	--	--	--	11	12	11	12	11	12
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	8	9	8	9	--	--	11	12	11	12	20	14
<b>Private:</b>														
Corporate	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	--	--	33	19	33	19	--	--	--	--	--	--	33	19
<b>All private</b>	--	--	33	19	33	19	--	--	--	--	--	--	33	19
<b>All owners</b>	--	--	41	21	41	21	--	--	11	12	11	12	53	24

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C13: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: Eastside**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	984	193	331	127	1,316	231	125	55	113	43	239	69	1,554	241
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>984</b>	<b>193</b>	<b>331</b>	<b>127</b>	<b>1,316</b>	<b>231</b>	<b>125</b>	<b>55</b>	<b>113</b>	<b>43</b>	<b>239</b>	<b>69</b>	<b>1,554</b>	<b>241</b>
<b>Other federal government:</b>														
Bureau of Land Management	5	4	74	26	79	26	--	--	15	9	15	9	95	28
Department of Defense and Energy	--	--	8	5	8	5	--	--	--	--	--	--	8	5
National Park Service	--	--	--	--	--	--	--	--	6	3	6	3	6	3
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>5</b>	<b>4</b>	<b>82</b>	<b>27</b>	<b>87</b>	<b>27</b>	<b>--</b>	<b>--</b>	<b>21</b>	<b>9</b>	<b>21</b>	<b>9</b>	<b>109</b>	<b>28</b>
<b>State and local government:</b>														
Local	--	--	--	--	--	--	--	--	--	--	--	--	--	--
State	--	--	--	--	--	--	39	44	--	--	39	44	39	44
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>39</b>	<b>44</b>	<b>--</b>	<b>--</b>	<b>39</b>	<b>44</b>	<b>39</b>	<b>44</b>
<b>Private:</b>														
Corporate	229	99	1	1	230	99	--	--	--	--	--	--	230	99
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	<b>41</b>	<b>17</b>	<b>11</b>	<b>9</b>	<b>52</b>	<b>19</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>52</b>	<b>19</b>
<b>All private</b>	<b>270</b>	<b>101</b>	<b>12</b>	<b>9</b>	<b>283</b>	<b>101</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>283</b>	<b>101</b>
<b>All owners</b>	<b>1,260</b>	<b>218</b>	<b>425</b>	<b>130</b>	<b>1,685</b>	<b>254</b>	<b>165</b>	<b>70</b>	<b>135</b>	<b>44</b>	<b>299</b>	<b>82</b>	<b>1,985</b>	<b>267</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C14: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	15,043	1,396	698	208	15,740	1,407	11,244	1,209	444	122	11,687	1,212	27,428	1,849
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>15,043</b>	<b>1,396</b>	<b>698</b>	<b>208</b>	<b>15,740</b>	<b>1,407</b>	<b>11,244</b>	<b>1,209</b>	<b>444</b>	<b>122</b>	<b>11,687</b>	<b>1,212</b>	<b>27,428</b>	<b>1,849</b>
<b>Other federal government:</b>														
Bureau of Land Management	243	91	89	38	332	98	6	6	--	--	6	6	337	98
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	302	122	14	11	317	123	317	123
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	8	10	--	--	8	10	--	--	1	1	1	1	9	10
<b>Total</b>	<b>251</b>	<b>92</b>	<b>89</b>	<b>38</b>	<b>340</b>	<b>98</b>	<b>308</b>	<b>122</b>	<b>15</b>	<b>11</b>	<b>324</b>	<b>123</b>	<b>663</b>	<b>156</b>
<b>State and local government:</b>														
Local	2	2	--	--	2	2	--	--	13	14	13	14	15	15
State	26	29	6	5	32	30	4	4	52	42	56	42	88	52
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>29</b>	<b>29</b>	<b>6</b>	<b>5</b>	<b>34</b>	<b>30</b>	<b>4</b>	<b>4</b>	<b>65</b>	<b>44</b>	<b>70</b>	<b>45</b>	<b>104</b>	<b>54</b>
<b>Private:</b>														
Corporate	1,855	388	141	47	1,996	391	--	--	--	--	--	--	1,996	391
<b>Noncorporate private:</b>														
Total, noncorporate private	1,284	217	431	69	1,715	230	--	--	--	--	--	--	1,715	230
<b>All private</b>	<b>3,139</b>	<b>442</b>	<b>572</b>	<b>83</b>	<b>3,711</b>	<b>450</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>3,711</b>	<b>450</b>
<b>All owners</b>	<b>18,461</b>	<b>1,468</b>	<b>1,364</b>	<b>228</b>	<b>19,825</b>	<b>1,482</b>	<b>11,556</b>	<b>1,215</b>	<b>524</b>	<b>130</b>	<b>12,081</b>	<b>1,219</b>	<b>31,906</b>	<b>1,911</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C15: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: North Coast**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	130	77	9	9	139	78	90	75	--	--	90	75	229	108
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>130</b>	<b>77</b>	<b>9</b>	<b>9</b>	<b>139</b>	<b>78</b>	<b>90</b>	<b>75</b>	<b>--</b>	<b>--</b>	<b>90</b>	<b>75</b>	<b>229</b>	<b>108</b>
<b>Other federal government:</b>														
Bureau of Land Management	25	21	--	--	25	21	308	165	--	--	308	165	333	166
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	446	259	--	--	446	259	446	259
U.S. Fish and Wildlife Service	--	--	--	--	--	--	8	8	--	--	8	8	8	8
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>25</b>	<b>21</b>	<b>--</b>	<b>--</b>	<b>25</b>	<b>21</b>	<b>761</b>	<b>306</b>	<b>--</b>	<b>--</b>	<b>761</b>	<b>306</b>	<b>786</b>	<b>306</b>
<b>State and local government:</b>														
Local	122	78	4	4	126	78	--	--	11	6	11	6	136	79
State	93	42	--	--	93	42	700	211	11	10	711	212	804	208
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>215</b>	<b>86</b>	<b>4</b>	<b>4</b>	<b>219</b>	<b>87</b>	<b>700</b>	<b>211</b>	<b>21</b>	<b>12</b>	<b>721</b>	<b>212</b>	<b>940</b>	<b>217</b>
<b>Private:</b>														
Corporate	3,745	509	41	20	3,786	510	--	--	--	--	--	--	3,786	510
<b>Noncorporate private:</b>														
Total, noncorporate private	1,499	234	72	29	1,571	235	--	--	--	--	--	--	1,571	235
<b>All private</b>	<b>5,244</b>	<b>552</b>	<b>112</b>	<b>36</b>	<b>5,357</b>	<b>553</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>5,357</b>	<b>553</b>
<b>All owners</b>	<b>5,615</b>	<b>564</b>	<b>125</b>	<b>37</b>	<b>5,740</b>	<b>565</b>	<b>1,551</b>	<b>379</b>	<b>21</b>	<b>12</b>	<b>1,572</b>	<b>379</b>	<b>7,312</b>	<b>676</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C16: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	25,914	1,561	1,325	311	27,238	1,582	7,452	877	1,099	188	8,551	890	35,789	1,788
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>25,914</b>	<b>1,561</b>	<b>1,325</b>	<b>311</b>	<b>27,238</b>	<b>1,582</b>	<b>7,452</b>	<b>877</b>	<b>1,099</b>	<b>188</b>	<b>8,551</b>	<b>890</b>	<b>35,789</b>	<b>1,788</b>
<b>Other federal government:</b>														
Bureau of Land Management	46	26	120	39	165	47	24	24	70	28	94	37	259	60
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	8,298	1,237	495	134	8,793	1,243	8,793	1,243
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	12	8	12	8	--	--	--	--	--	--	12	8
<b>Total</b>	<b>46</b>	<b>26</b>	<b>132</b>	<b>39</b>	<b>177</b>	<b>48</b>	<b>8,322</b>	<b>1,238</b>	<b>565</b>	<b>136</b>	<b>8,887</b>	<b>1,243</b>	<b>9,064</b>	<b>1,242</b>
<b>State and local government:</b>														
Local	63	34	16	7	80	34	--	--	9	9	9	9	89	36
State	162	151	21	16	183	152	177	74	31	18	209	76	392	166
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>225</b>	<b>155</b>	<b>38</b>	<b>18</b>	<b>263</b>	<b>156</b>	<b>177</b>	<b>74</b>	<b>40</b>	<b>20</b>	<b>218</b>	<b>76</b>	<b>481</b>	<b>170</b>
<b>Private:</b>														
Corporate	2,897	319	229	54	3,127	323	--	--	--	--	--	--	3,127	323
<b>Noncorporate private:</b>														
Total, noncorporate private	1,619	340	1,410	267	3,029	430	--	--	--	--	--	--	3,029	430
<b>All private</b>	<b>4,517</b>	<b>459</b>	<b>1,639</b>	<b>272</b>	<b>6,156</b>	<b>528</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>6,156</b>	<b>528</b>
<b>All owners</b>	<b>30,701</b>	<b>1,634</b>	<b>3,133</b>	<b>415</b>	<b>33,834</b>	<b>1,674</b>	<b>15,951</b>	<b>1,519</b>	<b>1,705</b>	<b>233</b>	<b>17,656</b>	<b>1,531</b>	<b>51,490</b>	<b>2,232</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C17: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	576	228	338	85	914	243	525	206	247	88	771	224	1,686	330
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>576</b>	<b>228</b>	<b>338</b>	<b>85</b>	<b>914</b>	<b>243</b>	<b>525</b>	<b>206</b>	<b>247</b>	<b>88</b>	<b>771</b>	<b>224</b>	<b>1,686</b>	<b>330</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	6	3	6	3	--	--	7	5	7	5	13	6
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	--	--	31	12	31	12	31	12
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	48	43	48	43	--	--	--	--	--	--	48	43
<b>Total</b>	<b>--</b>	<b>--</b>	<b>54</b>	<b>43</b>	<b>54</b>	<b>43</b>	<b>--</b>	<b>--</b>	<b>39</b>	<b>13</b>	<b>39</b>	<b>13</b>	<b>92</b>	<b>45</b>
<b>State and local government:</b>														
Local	--	--	7	6	7	6	--	--	14	14	14	14	21	15
State	--	--	--	--	--	--	27	26	48	46	75	52	75	52
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>7</b>	<b>6</b>	<b>7</b>	<b>6</b>	<b>27</b>	<b>26</b>	<b>62</b>	<b>48</b>	<b>90</b>	<b>53</b>	<b>96</b>	<b>54</b>
<b>Private:</b>														
Corporate	--	--	26	23	26	23	--	--	--	--	--	--	26	23
<b>Noncorporate private:</b>														
Total, noncorporate private	77	47	192	66	269	81	--	--	--	--	--	--	269	81
<b>All private</b>	<b>77</b>	<b>47</b>	<b>218</b>	<b>69</b>	<b>295</b>	<b>85</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>295</b>	<b>85</b>
<b>All owners</b>	<b>653</b>	<b>232</b>	<b>618</b>	<b>118</b>	<b>1,270</b>	<b>261</b>	<b>552</b>	<b>207</b>	<b>347</b>	<b>101</b>	<b>899</b>	<b>230</b>	<b>2,170</b>	<b>349</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C18.1: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2001 - 2010**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	33,913	1,661	2,473	298	36,386	1,678	14,503	1,171	1,871	285	16,374	1,199	52,760	1,927
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>33,913</b>	<b>1,661</b>	<b>2,473</b>	<b>298</b>	<b>36,386</b>	<b>1,678</b>	<b>14,503</b>	<b>1,171</b>	<b>1,871</b>	<b>285</b>	<b>16,374</b>	<b>1,199</b>	<b>52,760</b>	<b>1,927</b>
<b>Other federal government:</b>														
Bureau of Land Management	561	207	407	73	968	219	127	117	198	80	325	142	1,294	260
Department of Defense and Energy	--	--	13	9	13	9	--	--	--	--	--	--	13	9
National Park Service	--	--	--	--	--	--	7,513	953	661	156	8,174	946	8,174	946
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	7	5	7	5	130	124	9	8	140	124	147	125
<b>Total</b>	<b>561</b>	<b>207</b>	<b>427</b>	<b>73</b>	<b>988</b>	<b>219</b>	<b>7,771</b>	<b>963</b>	<b>868</b>	<b>174</b>	<b>8,639</b>	<b>957</b>	<b>9,627</b>	<b>977</b>
<b>State and local government:</b>														
Local	183	129	36	17	219	130	110	67	71	35	181	76	401	150
State	289	157	23	12	312	158	1,464	346	215	78	1,679	353	1,991	383
Other public	--	--	--	--	--	--	3	2	1	1	3	3	3	3
<b>Total</b>	<b>472</b>	<b>203</b>	<b>60</b>	<b>21</b>	<b>531</b>	<b>204</b>	<b>1,577</b>	<b>352</b>	<b>287</b>	<b>85</b>	<b>1,864</b>	<b>360</b>	<b>2,395</b>	<b>410</b>
<b>Private:</b>														
Corporate	7,254	675	158	37	7,411	676	--	--	--	--	--	--	7,411	676
<b>Noncorporate private:</b>														
Total, noncorporate private	5,281	540	1,871	239	7,152	588	--	--	--	--	--	--	7,152	588
<b>All private</b>	<b>12,535</b>	<b>837</b>	<b>2,029</b>	<b>242</b>	<b>14,563</b>	<b>866</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>14,563</b>	<b>866</b>
<b>All owners</b>	<b>47,481</b>	<b>1,882</b>	<b>4,988</b>	<b>391</b>	<b>52,469</b>	<b>1,910</b>	<b>23,850</b>	<b>1,548</b>	<b>3,026</b>	<b>345</b>	<b>26,877</b>	<b>1,567</b>	<b>79,345</b>	<b>2,346</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C18.2: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2002 - 2011**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	35,706	1,715	2,476	304	38,182	1,731	14,780	1,186	1,976	313	16,756	1,220	54,938	1,976
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>35,706</b>	<b>1,715</b>	<b>2,476</b>	<b>304</b>	<b>38,182</b>	<b>1,731</b>	<b>14,780</b>	<b>1,186</b>	<b>1,976</b>	<b>313</b>	<b>16,756</b>	<b>1,220</b>	<b>54,938</b>	<b>1,976</b>
<b>Other federal government:</b>														
Bureau of Land Management	562	207	376	65	939	216	128	116	163	66	291	134	1,230	253
Department of Defense and Energy	--	--	19	10	19	10	--	--	--	--	--	--	19	10
National Park Service	--	--	--	--	--	--	7,541	954	669	156	8,210	947	8,210	947
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	7	5	7	5	131	125	9	8	141	125	148	125
<b>Total</b>	<b>562</b>	<b>207</b>	<b>402</b>	<b>66</b>	<b>964</b>	<b>216</b>	<b>7,801</b>	<b>965</b>	<b>841</b>	<b>169</b>	<b>8,642</b>	<b>958</b>	<b>9,606</b>	<b>979</b>
<b>State and local government:</b>														
Local	67	36	38	17	105	40	115	68	74	35	189	77	295	86
State	286	157	23	12	309	157	1,530	349	266	95	1,796	360	2,105	389
Other public	--	--	--	--	--	--	3	2	1	1	4	3	4	3
<b>Total</b>	<b>354</b>	<b>161</b>	<b>61</b>	<b>21</b>	<b>414</b>	<b>162</b>	<b>1,648</b>	<b>355</b>	<b>341</b>	<b>101</b>	<b>1,989</b>	<b>368</b>	<b>2,404</b>	<b>397</b>
<b>Private:</b>														
Corporate	7,408	679	236	54	7,644	680	--	--	--	--	--	--	7,644	680
<b>Noncorporate private:</b>														
Total, noncorporate private	5,412	550	1,689	182	7,100	576	--	--	--	--	--	--	7,100	576
<b>All private</b>	<b>12,820</b>	<b>846</b>	<b>1,925</b>	<b>189</b>	<b>14,745</b>	<b>861</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>14,745</b>	<b>861</b>
<b>All owners</b>	<b>49,442</b>	<b>1,927</b>	<b>4,863</b>	<b>364</b>	<b>54,305</b>	<b>1,949</b>	<b>24,229</b>	<b>1,560</b>	<b>3,158</b>	<b>370</b>	<b>27,387</b>	<b>1,585</b>	<b>81,692</b>	<b>2,379</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C18.3: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2003 - 2012**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	36,306	1,709	2,334	279	38,640	1,719	15,615	1,122	2,094	325	17,709	1,143	56,349	2,026
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>36,306</b>	<b>1,709</b>	<b>2,334</b>	<b>279</b>	<b>38,640</b>	<b>1,719</b>	<b>15,615</b>	<b>1,122</b>	<b>2,094</b>	<b>325</b>	<b>17,709</b>	<b>1,143</b>	<b>56,349</b>	<b>2,026</b>
<b>Other federal government:</b>														
Bureau of Land Management	686	261	408	71	1,093	268	157	127	134	58	291	139	1,385	302
Department of Defense and Energy	--	--	17	10	17	10	--	--	--	--	--	--	17	10
National Park Service	--	--	--	--	--	--	7,626	949	677	164	8,303	959	8,303	959
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	51	42	51	42	114	121	10	9	124	121	175	128
<b>Total</b>	<b>686</b>	<b>261</b>	<b>476</b>	<b>83</b>	<b>1,162</b>	<b>272</b>	<b>7,898</b>	<b>959</b>	<b>821</b>	<b>173</b>	<b>8,719</b>	<b>971</b>	<b>9,880</b>	<b>987</b>
<b>State and local government:</b>														
Local	72	37	38	18	110	41	138	76	65	32	203	82	313	92
State	323	172	19	11	342	172	1,378	322	229	89	1,607	332	1,949	349
Other public	--	--	--	--	--	--	2	2	1	1	3	2	3	2
<b>Total</b>	<b>395</b>	<b>176</b>	<b>57</b>	<b>21</b>	<b>452</b>	<b>177</b>	<b>1,518</b>	<b>330</b>	<b>295</b>	<b>94</b>	<b>1,813</b>	<b>341</b>	<b>2,265</b>	<b>359</b>
<b>Private:</b>														
Corporate	7,498	652	204	48	7,702	653	--	--	--	--	--	--	7,702	653
<b>Noncorporate private:</b>														
Total, noncorporate private	5,370	541	1,644	176	7,014	566	--	--	--	--	--	--	7,014	566
<b>All private</b>	<b>12,868</b>	<b>819</b>	<b>1,848</b>	<b>182</b>	<b>14,715</b>	<b>835</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>14,715</b>	<b>835</b>
<b>All owners</b>	<b>50,254</b>	<b>1,915</b>	<b>4,714</b>	<b>344</b>	<b>54,969</b>	<b>1,931</b>	<b>25,032</b>	<b>1,512</b>	<b>3,209</b>	<b>379</b>	<b>28,241</b>	<b>1,536</b>	<b>83,209</b>	<b>2,409</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C18.4: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2004 - 2013**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	36,365	1,716	2,283	274	38,648	1,725	16,201	1,184	2,217	334	18,418	1,204	57,066	2,065
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>36,365</b>	<b>1,716</b>	<b>2,283</b>	<b>274</b>	<b>38,648</b>	<b>1,725</b>	<b>16,201</b>	<b>1,184</b>	<b>2,217</b>	<b>334</b>	<b>18,418</b>	<b>1,204</b>	<b>57,066</b>	<b>2,065</b>
<b>Other federal government:</b>														
Bureau of Land Management	687	262	375	68	1,061	268	163	128	140	58	304	141	1,365	302
Department of Defense and Energy	--	--	17	9	17	9	--	--	--	--	--	--	17	9
National Park Service	--	--	--	--	--	--	7,966	976	687	164	8,653	986	8,653	986
U.S. Fish and Wildlife Service	--	--	--	--	--	--	8	8	--	--	8	8	8	8
Other federal	--	--	51	42	51	42	--	--	1	1	1	1	52	42
<b>Total</b>	<b>687</b>	<b>262</b>	<b>442</b>	<b>80</b>	<b>1,129</b>	<b>271</b>	<b>8,137</b>	<b>982</b>	<b>828</b>	<b>174</b>	<b>8,965</b>	<b>993</b>	<b>10,094</b>	<b>1,008</b>
<b>State and local government:</b>														
Local	72	37	38	18	110	41	138	76	72	35	210	83	320	93
State	287	157	19	11	306	157	1,249	306	216	89	1,465	317	1,771	331
Other public	--	--	--	--	--	--	2	2	1	1	3	2	3	2
<b>Total</b>	<b>360</b>	<b>161</b>	<b>57</b>	<b>21</b>	<b>416</b>	<b>162</b>	<b>1,389</b>	<b>314</b>	<b>289</b>	<b>95</b>	<b>1,678</b>	<b>326</b>	<b>2,094</b>	<b>342</b>
<b>Private:</b>														
Corporate	7,587	655	236	52	7,823	657	--	--	--	--	--	--	7,823	657
<b>Noncorporate private:</b>														
Total, noncorporate private	4,736	424	1,722	177	6,458	456	--	--	--	--	--	--	6,458	456
<b>All private</b>	<b>12,322</b>	<b>751</b>	<b>1,958</b>	<b>184</b>	<b>14,281</b>	<b>768</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>14,281</b>	<b>768</b>
<b>All owners</b>	<b>49,734</b>	<b>1,893</b>	<b>4,740</b>	<b>340</b>	<b>54,474</b>	<b>1,908</b>	<b>25,727</b>	<b>1,570</b>	<b>3,334</b>	<b>388</b>	<b>29,061</b>	<b>1,593</b>	<b>83,535</b>	<b>2,427</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C18.5: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2005 - 2014**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	36,903	1,763	2,058	237	38,961	1,766	16,592	1,188	2,118	324	18,709	1,202	57,670	2,104
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>36,903</b>	<b>1,763</b>	<b>2,058</b>	<b>237</b>	<b>38,961</b>	<b>1,766</b>	<b>16,592</b>	<b>1,188</b>	<b>2,118</b>	<b>324</b>	<b>18,709</b>	<b>1,202</b>	<b>57,670</b>	<b>2,104</b>
<b>Other federal government:</b>														
Bureau of Land Management	683	262	351	65	1,034	267	169	128	85	28	254	131	1,288	297
Department of Defense and Energy	--	--	17	9	17	9	--	--	--	--	--	--	17	9
National Park Service	--	--	--	--	--	--	8,081	974	642	157	8,723	983	8,723	983
U.S. Fish and Wildlife Service	--	--	--	--	--	--	8	8	--	--	8	8	8	8
Other federal	--	--	51	43	51	43	--	--	1	1	1	1	52	43
<b>Total</b>	<b>683</b>	<b>262</b>	<b>418</b>	<b>78</b>	<b>1,102</b>	<b>270</b>	<b>8,258</b>	<b>980</b>	<b>727</b>	<b>159</b>	<b>8,985</b>	<b>989</b>	<b>10,087</b>	<b>1,003</b>
<b>State and local government:</b>														
Local	101	44	47	20	148	48	138	76	69	35	207	83	355	96
State	296	158	19	11	314	159	1,283	308	232	90	1,515	319	1,829	333
Other public	--	--	--	--	--	--	2	2	1	1	3	2	3	2
<b>Total</b>	<b>397</b>	<b>164</b>	<b>65</b>	<b>23</b>	<b>462</b>	<b>166</b>	<b>1,423</b>	<b>317</b>	<b>302</b>	<b>96</b>	<b>1,725</b>	<b>328</b>	<b>2,187</b>	<b>345</b>
<b>Private:</b>														
Corporate	7,891	674	218	50	8,108	675	--	--	--	--	--	--	8,108	675
<b>Noncorporate private:</b>														
Total, noncorporate private	4,646	416	1,731	178	6,377	449	--	--	--	--	--	--	6,377	449
<b>All private</b>	<b>12,537</b>	<b>763</b>	<b>1,949</b>	<b>184</b>	<b>14,486</b>	<b>780</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>14,486</b>	<b>780</b>
<b>All owners</b>	<b>50,520</b>	<b>1,939</b>	<b>4,490</b>	<b>310</b>	<b>55,010</b>	<b>1,950</b>	<b>26,273</b>	<b>1,572</b>	<b>3,147</b>	<b>373</b>	<b>29,420</b>	<b>1,590</b>	<b>84,430</b>	<b>2,462</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C18.6: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2006 - 2015**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	37,244	1,760	2,194	272	39,438	1,767	17,590	1,241	2,125	326	19,715	1,252	59,153	2,132
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>37,244</b>	<b>1,760</b>	<b>2,194</b>	<b>272</b>	<b>39,438</b>	<b>1,767</b>	<b>17,590</b>	<b>1,241</b>	<b>2,125</b>	<b>326</b>	<b>19,715</b>	<b>1,252</b>	<b>59,153</b>	<b>2,132</b>
<b>Other federal government:</b>														
Bureau of Land Management	682	263	323	63	1,005	267	187	130	88	30	275	133	1,280	298
Department of Defense and Energy	--	--	17	9	17	9	--	--	--	--	--	--	17	9
National Park Service	--	--	--	--	--	--	8,175	986	658	159	8,833	996	8,833	996
U.S. Fish and Wildlife Service	--	--	--	--	--	--	8	8	--	--	8	8	8	8
Other federal	--	--	51	43	51	43	--	--	1	1	1	1	52	43
<b>Total</b>	<b>682</b>	<b>263</b>	<b>391</b>	<b>76</b>	<b>1,073</b>	<b>271</b>	<b>8,370</b>	<b>992</b>	<b>747</b>	<b>161</b>	<b>9,117</b>	<b>1,002</b>	<b>10,190</b>	<b>1,015</b>
<b>State and local government:</b>														
Local	101	44	51	20	152	49	139	76	79	35	218	84	370	96
State	301	158	20	11	321	158	1,291	308	258	97	1,550	320	1,870	333
Other public	--	--	--	--	--	--	2	2	1	1	3	2	3	2
<b>Total</b>	<b>402</b>	<b>164</b>	<b>71</b>	<b>23</b>	<b>473</b>	<b>165</b>	<b>1,432</b>	<b>316</b>	<b>339</b>	<b>103</b>	<b>1,770</b>	<b>330</b>	<b>2,243</b>	<b>345</b>
<b>Private:</b>														
Corporate	8,118	654	320	63	8,438	656	--	--	--	--	--	--	8,438	656
<b>Noncorporate private:</b>														
Total, noncorporate private	4,716	424	1,828	186	6,544	459	--	--	--	--	--	--	6,544	459
<b>All private</b>	<b>12,834</b>	<b>749</b>	<b>2,148</b>	<b>195</b>	<b>14,981</b>	<b>769</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>14,981</b>	<b>769</b>
<b>All owners</b>	<b>51,162</b>	<b>1,930</b>	<b>4,803</b>	<b>343</b>	<b>55,965</b>	<b>1,944</b>	<b>27,392</b>	<b>1,620</b>	<b>3,210</b>	<b>378</b>	<b>30,603</b>	<b>1,636</b>	<b>86,567</b>	<b>2,486</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C18.7: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2007 - 2016**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	38,627	1,821	2,205	287	40,832	1,829	18,502	1,359	2,375	341	20,877	1,370	61,708	2,251
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>38,627</b>	<b>1,821</b>	<b>2,205</b>	<b>287</b>	<b>40,832</b>	<b>1,829</b>	<b>18,502</b>	<b>1,359</b>	<b>2,375</b>	<b>341</b>	<b>20,877</b>	<b>1,370</b>	<b>61,708</b>	<b>2,251</b>
<b>Other federal government:</b>														
Bureau of Land Management	362	101	303	61	665	117	339	167	89	30	428	170	1,093	204
Department of Defense and Energy	--	--	18	9	18	9	--	--	--	--	--	--	18	9
National Park Service	--	--	--	--	--	--	8,172	897	628	142	8,800	905	8,800	905
U.S. Fish and Wildlife Service	--	--	--	--	--	--	8	8	--	--	8	8	8	8
Other federal	--	--	60	44	60	44	--	--	1	1	1	1	61	44
<b>Total</b>	<b>362</b>	<b>101</b>	<b>381</b>	<b>76</b>	<b>743</b>	<b>125</b>	<b>8,519</b>	<b>905</b>	<b>718</b>	<b>145</b>	<b>9,237</b>	<b>912</b>	<b>9,980</b>	<b>908</b>
<b>State and local government:</b>														
Local	151	65	52	20	203	68	143	78	116	50	259	93	462	115
State	298	158	34	19	332	159	1,152	274	267	98	1,419	288	1,751	304
Other public	--	--	--	--	--	--	2	2	1	1	3	2	3	2
<b>Total</b>	<b>449</b>	<b>171</b>	<b>85</b>	<b>28</b>	<b>535</b>	<b>173</b>	<b>1,298</b>	<b>283</b>	<b>383</b>	<b>110</b>	<b>1,681</b>	<b>301</b>	<b>2,215</b>	<b>323</b>
<b>Private:</b>														
Corporate	8,303	685	397	73	8,701	687	--	--	--	--	--	--	8,701	687
<b>Noncorporate private:</b>														
Total, noncorporate private	4,548	406	1,937	172	6,485	437	--	--	--	--	--	--	6,485	437
<b>All private</b>	<b>12,851</b>	<b>767</b>	<b>2,335</b>	<b>186</b>	<b>15,186</b>	<b>783</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>15,186</b>	<b>783</b>
<b>All owners</b>	<b>52,290</b>	<b>1,979</b>	<b>5,006</b>	<b>351</b>	<b>57,295</b>	<b>1,993</b>	<b>28,319</b>	<b>1,657</b>	<b>3,475</b>	<b>386</b>	<b>31,794</b>	<b>1,672</b>	<b>89,090</b>	<b>2,550</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C18.8: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2008 - 2017**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	40,534	1,915	2,281	299	42,815	1,922	19,329	1,419	2,415	343	21,745	1,432	64,560	2,354
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>40,534</b>	<b>1,915</b>	<b>2,281</b>	<b>299</b>	<b>42,815</b>	<b>1,922</b>	<b>19,329</b>	<b>1,419</b>	<b>2,415</b>	<b>343</b>	<b>21,745</b>	<b>1,432</b>	<b>64,560</b>	<b>2,354</b>
<b>Other federal government:</b>														
Bureau of Land Management	373	101	290	60	663	117	337	167	86	27	423	169	1,086	204
Department of Defense and Energy	--	--	18	9	18	9	--	--	--	--	--	--	18	9
National Park Service	--	--	--	--	--	--	9,354	1,286	581	138	9,935	1,291	9,935	1,291
U.S. Fish and Wildlife Service	--	--	--	--	--	--	8	8	--	--	8	8	8	8
Other federal	--	--	60	44	60	44	--	--	1	1	1	1	61	44
<b>Total</b>	<b>373</b>	<b>101</b>	<b>368</b>	<b>75</b>	<b>741</b>	<b>125</b>	<b>9,699</b>	<b>1,291</b>	<b>667</b>	<b>140</b>	<b>10,367</b>	<b>1,297</b>	<b>11,108</b>	<b>1,292</b>
<b>State and local government:</b>														
Local	147	63	50	20	197	66	140	76	115	49	255	90	453	112
State	298	158	33	19	330	159	1,030	220	218	77	1,248	231	1,578	257
Other public	--	--	--	--	--	--	2	2	--	--	2	2	2	2
<b>Total</b>	<b>445</b>	<b>170</b>	<b>83</b>	<b>27</b>	<b>528</b>	<b>172</b>	<b>1,172</b>	<b>231</b>	<b>334</b>	<b>91</b>	<b>1,505</b>	<b>246</b>	<b>2,033</b>	<b>278</b>
<b>Private:</b>														
Corporate	8,685	704	453	78	9,138	707	--	--	--	--	--	--	9,138	707
<b>Noncorporate private:</b>														
Total, noncorporate private	4,870	443	2,425	290	7,295	524	--	--	--	--	--	--	7,295	524
<b>All private</b>	<b>13,555</b>	<b>799</b>	<b>2,878</b>	<b>299</b>	<b>16,433</b>	<b>842</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>16,433</b>	<b>842</b>
<b>All owners</b>	<b>54,907</b>	<b>2,078</b>	<b>5,610</b>	<b>430</b>	<b>60,517</b>	<b>2,101</b>	<b>30,200</b>	<b>1,933</b>	<b>3,416</b>	<b>382</b>	<b>33,617</b>	<b>1,947</b>	<b>94,134</b>	<b>2,807</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C18.9: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10-year averages): 2009-2018**

*\*information duplicated in Table C10*

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	42,652	1,965	2,777	403	45,430	1,983	19,455	1,412	2,342	337	21,797	1,424	67,227	2,392
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>42,652</b>	<b>1,965</b>	<b>2,777</b>	<b>403</b>	<b>45,430</b>	<b>1,983</b>	<b>19,455</b>	<b>1,412</b>	<b>2,342</b>	<b>337</b>	<b>21,797</b>	<b>1,424</b>	<b>67,227</b>	<b>2,392</b>
<b>Other federal government:</b>														
Bureau of Land Management	319	97	292	60	611	112	337	167	93	29	430	169	1,042	201
Department of Defense and Energy	--	--	18	9	18	9	--	--	--	--	--	--	18	9
National Park Service	--	--	--	--	--	--	9,046	1,250	569	137	9,616	1,256	9,616	1,256
U.S. Fish and Wildlife Service	--	--	--	--	--	--	8	8	--	--	8	8	8	8
Other federal	8	10	60	44	68	45	--	--	1	1	1	1	69	45
<b>Total</b>	<b>327</b>	<b>97</b>	<b>370</b>	<b>75</b>	<b>697</b>	<b>121</b>	<b>9,391</b>	<b>1,256</b>	<b>663</b>	<b>139</b>	<b>10,055</b>	<b>1,262</b>	<b>10,752</b>	<b>1,257</b>
<b>State and local government:</b>														
Local	188	85	67	24	255	89	144	76	125	50	269	91	524	127
State	295	157	28	17	323	158	1,010	218	213	76	1,223	228	1,546	255
Other public	--	--	--	--	--	--	2	2	--	--	2	2	2	2
<b>Total</b>	<b>483</b>	<b>174</b>	<b>95</b>	<b>30</b>	<b>578</b>	<b>177</b>	<b>1,155</b>	<b>229</b>	<b>339</b>	<b>91</b>	<b>1,494</b>	<b>244</b>	<b>2,072</b>	<b>275</b>
<b>Private:</b>														
Corporate	8,773	696	535	87	9,308	700	--	--	--	--	--	--	9,308	700
<b>Noncorporate private:</b>														
Total, noncorporate private	5,066	481	2,666	304	7,732	562	--	--	--	--	--	--	7,732	562
<b>All private</b>	<b>13,839</b>	<b>809</b>	<b>3,201</b>	<b>315</b>	<b>17,040</b>	<b>856</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>17,040</b>	<b>856</b>
<b>All owners</b>	<b>57,302</b>	<b>2,131</b>	<b>6,443</b>	<b>517</b>	<b>63,745</b>	<b>2,166</b>	<b>30,002</b>	<b>1,903</b>	<b>3,344</b>	<b>376</b>	<b>33,346</b>	<b>1,918</b>	<b>97,091</b>	<b>2,828</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C19: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: All California**

*\*information combined with information from Table C28 in Table C27.9*

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	7,698.79	158.10	4,160.93	190.14	11,859.72	213.92	2,384.34	103.48	1,734.26	118.38	4,128.75	138.39	15,988.46	236.14
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>7,698.79</b>	<b>158.10</b>	<b>4,160.93</b>	<b>190.14</b>	<b>11,859.72</b>	<b>213.92</b>	<b>2,384.34</b>	<b>103.48</b>	<b>1,734.26</b>	<b>118.38</b>	<b>4,128.75</b>	<b>138.39</b>	<b>15,988.46</b>	<b>236.14</b>
<b>Other federal government:</b>														
Bureau of Land Management	309.67	51.66	1,746.90	146.24	2,056.57	153.60	89.21	26.78	320.02	55.21	409.22	61.35	2,465.79	160.68
Department of Defense and Energy	29.46	16.34	124.30	32.79	153.76	36.64	--	--	8.24	8.52	8.24	8.52	162.00	37.62
National Park Service	--	--	--	--	--	--	747.41	56.62	632.88	75.48	1,380.29	91.36	1,380.29	91.36
U.S. Fish and Wildlife Service	--	--	--	--	--	--	4.51	4.61	0.79	0.82	5.30	4.68	5.30	4.68
Other federal	4.81	5.98	91.93	28.64	96.74	29.26	--	--	6.97	4.12	6.97	4.12	103.71	29.55
<b>Total</b>	<b>343.94</b>	<b>54.25</b>	<b>1,963.13</b>	<b>150.81</b>	<b>2,307.07</b>	<b>158.40</b>	<b>841.13</b>	<b>60.61</b>	<b>968.90</b>	<b>91.37</b>	<b>1,810.02</b>	<b>105.13</b>	<b>4,117.09</b>	<b>172.20</b>
<b>State and local government:</b>														
Local	50.57	17.42	219.33	42.86	269.90	46.76	55.17	20.31	233.25	44.26	288.42	47.03	558.32	65.90
State	89.53	21.85	90.40	30.94	179.93	37.68	310.06	41.49	408.51	57.19	718.57	68.52	898.51	72.23
Other public	--	--	1.33	1.21	1.33	1.21	6.98	7.76	8.95	9.68	15.92	12.41	17.26	12.47
<b>Total</b>	<b>140.10</b>	<b>27.59</b>	<b>311.07</b>	<b>52.80</b>	<b>451.17</b>	<b>59.78</b>	<b>372.20</b>	<b>46.10</b>	<b>650.71</b>	<b>69.69</b>	<b>1,022.92</b>	<b>79.67</b>	<b>1,474.09</b>	<b>92.76</b>
<b>Private:</b>														
Corporate	4,869.95	167.93	1,401.85	110.88	6,271.81	196.26	--	--	--	--	--	--	6,271.81	196.26
<b>Noncorporate private:</b>														
Total, noncorporate private	2,997.08	135.50	6,625.12	213.68	9,622.20	239.31	--	--	--	--	--	--	9,622.20	239.31
<b>All private</b>	<b>7,867.04</b>	<b>178.12</b>	<b>8,026.97</b>	<b>228.05</b>	<b>15,894.01</b>	<b>256.67</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>15,894.01</b>	<b>256.67</b>
<b>All owners</b>	<b>16,049.86</b>	<b>240.56</b>	<b>14,462.10</b>	<b>333.38</b>	<b>30,511.96</b>	<b>363.95</b>	<b>3,597.67</b>	<b>128.31</b>	<b>3,353.87</b>	<b>164.73</b>	<b>6,961.69</b>	<b>190.51</b>	<b>37,473.65</b>	<b>380.46</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C20: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	2.45	2.25	130.15	33.23	132.60	33.29	31.91	15.84	191.89	42.31	223.80	44.74	356.40	55.77
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>2.45</b>	<b>2.25</b>	<b>130.15</b>	<b>33.23</b>	<b>132.60</b>	<b>33.29</b>	<b>31.91</b>	<b>15.84</b>	<b>191.89</b>	<b>42.31</b>	<b>223.80</b>	<b>44.74</b>	<b>356.40</b>	<b>55.77</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	88.07	30.18	88.07	30.18	--	--	17.12	12.50	17.12	12.50	105.19	32.67
Department of Defense and Energy	--	--	74.69	24.27	74.69	24.27	--	--	--	--	--	--	74.69	24.27
National Park Service	--	--	--	--	--	--	--	--	8.49	9.45	8.49	9.45	8.49	9.45
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	17.51	13.48	17.51	13.48	--	--	0.29	0.32	0.29	0.32	17.79	13.49
<b>Total</b>	<b>--</b>	<b>--</b>	<b>180.27</b>	<b>40.78</b>	<b>180.27</b>	<b>40.78</b>	<b>--</b>	<b>--</b>	<b>25.90</b>	<b>15.68</b>	<b>25.90</b>	<b>15.68</b>	<b>206.17</b>	<b>43.68</b>
<b>State and local government:</b>														
Local	--	--	44.89	17.65	44.89	17.65	55.17	20.31	144.47	32.98	199.65	36.61	244.54	40.24
State	16.47	10.25	20.21	14.86	36.68	18.39	44.24	18.83	179.63	37.69	223.87	41.91	260.55	45.68
Other public	--	--	--	--	--	--	6.98	7.76	8.95	9.68	15.92	12.41	15.92	12.41
<b>Total</b>	<b>16.47</b>	<b>10.25</b>	<b>65.10</b>	<b>23.08</b>	<b>81.57</b>	<b>25.49</b>	<b>106.38</b>	<b>28.64</b>	<b>333.05</b>	<b>48.33</b>	<b>439.44</b>	<b>53.50</b>	<b>521.01</b>	<b>57.98</b>
<b>Private:</b>														
Corporate	52.53	21.23	206.62	39.78	259.15	45.03	--	--	--	--	--	--	259.15	45.03
<b>Noncorporate private:</b>														
Total, noncorporate private	167.35	33.27	1,107.46	92.56	1,274.81	97.90	--	--	--	--	--	--	1,274.81	97.90
<b>All private</b>	<b>219.88</b>	<b>39.33</b>	<b>1,314.07</b>	<b>99.79</b>	<b>1,533.96</b>	<b>106.81</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1,533.96</b>	<b>106.81</b>
<b>All owners</b>	<b>238.80</b>	<b>40.76</b>	<b>1,689.61</b>	<b>115.17</b>	<b>1,928.41</b>	<b>121.76</b>	<b>138.29</b>	<b>32.73</b>	<b>550.84</b>	<b>65.84</b>	<b>689.13</b>	<b>71.14</b>	<b>2,617.54</b>	<b>139.77</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C21: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: Central Valley**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other federal government:</b>														
Bureau of Land Management	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	0.79	0.82	0.79	0.82	0.79	0.82
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	0.79	0.82	0.79	0.82	0.79	0.82
<b>State and local government:</b>														
Local	--	--	6.61	4.59	6.61	4.59	--	--	--	--	--	--	6.61	4.59
State	--	--	--	--	--	--	--	--	7.58	6.87	7.58	6.87	7.58	6.87
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	6.61	4.59	6.61	4.59	--	--	7.58	6.87	7.58	6.87	14.19	8.27
<b>Private:</b>														
Corporate	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Noncorporate private:</b>														
Total, noncorporate private	--	--	119.99	30.77	119.99	30.77	--	--	--	--	--	--	119.99	30.77
<b>All private</b>	--	--	119.99	30.77	119.99	30.77	--	--	--	--	--	--	119.99	30.77
<b>All owners</b>	--	--	126.60	31.10	126.60	31.10	--	--	8.37	6.92	8.37	6.92	134.97	31.86

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C22: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: Eastside**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	711.66	71.92	1,539.63	137.06	2,251.30	152.71	46.50	18.10	137.60	41.15	184.11	44.78	2,435.41	158.96
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>711.66</b>	<b>71.92</b>	<b>1,539.63</b>	<b>137.06</b>	<b>2,251.30</b>	<b>152.71</b>	<b>46.50</b>	<b>18.10</b>	<b>137.60</b>	<b>41.15</b>	<b>184.11</b>	<b>44.78</b>	<b>2,435.41</b>	<b>158.96</b>
<b>Other federal government:</b>														
Bureau of Land Management	42.69	24.16	1,022.67	127.25	1,065.36	129.38	--	--	83.81	29.00	83.81	29.00	1,149.17	131.53
Department of Defense and Energy	--	--	44.95	21.66	44.95	21.66	--	--	--	--	--	--	44.95	21.66
National Park Service	--	--	--	--	--	--	--	--	106.56	32.43	106.56	32.43	106.56	32.43
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>42.69</b>	<b>24.16</b>	<b>1,067.63</b>	<b>128.62</b>	<b>1,110.32</b>	<b>130.73</b>	<b>--</b>	<b>--</b>	<b>190.37</b>	<b>43.33</b>	<b>190.37</b>	<b>43.33</b>	<b>1,300.68</b>	<b>135.59</b>
<b>State and local government:</b>														
Local	--	--	9.78	9.86	9.78	9.86	--	--	--	--	--	--	9.78	9.86
State	--	--	--	--	--	--	4.96	5.52	16.24	13.93	21.20	14.98	21.20	14.98
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>9.78</b>	<b>9.86</b>	<b>9.78</b>	<b>9.86</b>	<b>4.96</b>	<b>5.52</b>	<b>16.24</b>	<b>13.93</b>	<b>21.20</b>	<b>14.98</b>	<b>30.97</b>	<b>17.93</b>
<b>Private:</b>														
Corporate	335.91	62.59	157.63	46.50	493.54	78.36	--	--	--	--	--	--	493.54	78.36
<b>Noncorporate private:</b>														
Total, noncorporate private	85.39	23.83	316.95	71.99	402.34	76.05	--	--	--	--	--	--	402.34	76.05
<b>All private</b>	<b>421.30</b>	<b>66.59</b>	<b>474.58</b>	<b>85.35</b>	<b>895.88</b>	<b>108.60</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>895.88</b>	<b>108.60</b>
<b>All owners</b>	<b>1,175.66</b>	<b>101.47</b>	<b>3,091.62</b>	<b>206.89</b>	<b>4,267.27</b>	<b>229.02</b>	<b>51.46</b>	<b>18.92</b>	<b>344.21</b>	<b>61.36</b>	<b>395.67</b>	<b>64.09</b>	<b>4,662.95</b>	<b>236.39</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C23: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	2,301.13	111.30	593.38	71.15	2,894.51	128.90	1,271.37	86.52	389.19	58.39	1,660.56	101.46	4,555.08	158.89
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>2,301.13</b>	<b>111.30</b>	<b>593.38</b>	<b>71.15</b>	<b>2,894.51</b>	<b>128.90</b>	<b>1,271.37</b>	<b>86.52</b>	<b>389.19</b>	<b>58.39</b>	<b>1,660.56</b>	<b>101.46</b>	<b>4,555.08</b>	<b>158.89</b>
<b>Other federal government:</b>														
Bureau of Land Management	129.57	31.93	201.70	42.04	331.27	52.94	5.43	5.38	33.78	17.50	39.22	18.31	370.48	55.94
Department of Defense and Energy	--	--	--	--	--	--	--	--	8.24	8.52	8.24	8.52	8.24	8.52
National Park Service	--	--	--	--	--	--	74.87	24.10	60.87	22.74	135.74	33.64	135.74	33.64
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	4.81	5.98	11.57	8.61	16.38	10.48	--	--	1.74	1.92	1.74	1.92	18.11	10.66
<b>Total</b>	<b>134.38</b>	<b>32.48</b>	<b>213.27</b>	<b>42.91</b>	<b>347.64</b>	<b>53.96</b>	<b>80.30</b>	<b>24.61</b>	<b>104.62</b>	<b>29.90</b>	<b>184.93</b>	<b>39.16</b>	<b>532.57</b>	<b>64.96</b>
<b>State and local government:</b>														
Local	2.71	2.33	16.60	11.50	19.31	11.74	--	--	9.25	8.89	9.25	8.89	28.56	14.72
State	9.05	7.12	26.19	17.84	35.24	19.21	3.48	2.64	28.27	15.98	31.74	16.58	66.98	25.37
Other public	--	--	1.33	1.21	1.33	1.21	--	--	--	--	--	--	1.33	1.21
<b>Total</b>	<b>11.76</b>	<b>7.49</b>	<b>44.12</b>	<b>21.26</b>	<b>55.88</b>	<b>22.54</b>	<b>3.48</b>	<b>2.64</b>	<b>37.52</b>	<b>18.29</b>	<b>40.99</b>	<b>18.81</b>	<b>96.87</b>	<b>29.22</b>
<b>Private:</b>														
Corporate	1,028.42	90.23	413.70	58.94	1,442.13	107.23	--	--	--	--	--	--	1,442.13	107.23
<b>Noncorporate private:</b>														
Total, noncorporate private	881.18	81.95	1,476.26	108.52	2,357.44	134.49	--	--	--	--	--	--	2,357.44	134.49
<b>All private</b>	<b>1,909.60</b>	<b>118.12</b>	<b>1,889.96</b>	<b>121.81</b>	<b>3,799.57</b>	<b>166.74</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>3,799.57</b>	<b>166.74</b>
<b>All owners</b>	<b>4,356.86</b>	<b>165.77</b>	<b>2,740.73</b>	<b>149.02</b>	<b>7,097.60</b>	<b>218.46</b>	<b>1,355.15</b>	<b>90.02</b>	<b>531.33</b>	<b>68.10</b>	<b>1,886.49</b>	<b>110.40</b>	<b>8,984.08</b>	<b>240.45</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C24: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: North Coast**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	23.56	12.55	9.97	9.57	33.54	15.78	12.28	9.36	--	--	12.28	9.36	45.82	18.34
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>23.56</b>	<b>12.55</b>	<b>9.97</b>	<b>9.57</b>	<b>33.54</b>	<b>15.78</b>	<b>12.28</b>	<b>9.36</b>	<b>--</b>	<b>--</b>	<b>12.28</b>	<b>9.36</b>	<b>45.82</b>	<b>18.34</b>
<b>Other federal government:</b>														
Bureau of Land Management	39.51	17.32	--	--	39.51	17.32	79.95	26.03	--	--	79.95	26.03	119.47	31.57
Department of Defense and Energy	25.76	15.90	0.15	0.16	25.91	15.90	--	--	--	--	--	--	25.91	15.90
National Park Service	--	--	--	--	--	--	48.87	19.13	10.05	9.72	58.92	21.05	58.92	21.05
U.S. Fish and Wildlife Service	--	--	--	--	--	--	4.51	4.61	--	--	4.51	4.61	4.51	4.61
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>65.28</b>	<b>23.51</b>	<b>0.15</b>	<b>0.16</b>	<b>65.43</b>	<b>23.51</b>	<b>133.33</b>	<b>32.18</b>	<b>10.05</b>	<b>9.72</b>	<b>143.38</b>	<b>32.89</b>	<b>208.81</b>	<b>40.33</b>
<b>State and local government:</b>														
Local	18.19	8.96	10.71	7.71	28.90	13.77	--	--	66.08	27.21	66.08	27.21	94.98	30.49
State	52.21	17.41	2.73	2.48	54.94	17.58	199.26	38.22	13.26	10.66	212.52	39.69	267.46	39.48
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>70.40</b>	<b>19.34</b>	<b>13.44</b>	<b>8.09</b>	<b>83.84</b>	<b>22.13</b>	<b>199.26</b>	<b>38.22</b>	<b>79.34</b>	<b>29.22</b>	<b>278.60</b>	<b>48.11</b>	<b>362.44</b>	<b>49.44</b>
<b>Private:</b>														
Corporate	1,444.75	97.28	44.52	18.23	1,489.27	98.85	--	--	--	--	--	--	1,489.27	98.85
<b>Noncorporate private:</b>														
Total, noncorporate private	1,030.01	87.81	227.58	41.02	1,257.59	96.35	--	--	--	--	--	--	1,257.59	96.35
<b>All private</b>	<b>2,474.77</b>	<b>123.35</b>	<b>272.09</b>	<b>44.81</b>	<b>2,746.86</b>	<b>129.97</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2,746.86</b>	<b>129.97</b>
<b>All owners</b>	<b>2,634.01</b>	<b>126.98</b>	<b>295.66</b>	<b>46.52</b>	<b>2,929.66</b>	<b>134.16</b>	<b>344.87</b>	<b>50.81</b>	<b>89.39</b>	<b>30.79</b>	<b>434.26</b>	<b>59.00</b>	<b>3,363.93</b>	<b>144.28</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C25: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>	4,506.70	144.78	1,351.28	121.80	5,857.97	179.64	901.44	68.20	798.52	85.24	1,699.96	103.39	7,557.94	203.54
National Forest														
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>4,506.70</b>	<b>144.78</b>	<b>1,351.28</b>	<b>121.80</b>	<b>5,857.97</b>	<b>179.64</b>	<b>901.44</b>	<b>68.20</b>	<b>798.52</b>	<b>85.24</b>	<b>1,699.96</b>	<b>103.39</b>	<b>7,557.94</b>	<b>203.54</b>
<b>Other federal government:</b>														
Bureau of Land Management	97.90	28.32	393.10	61.63	491.00	67.35	3.82	3.28	148.60	38.50	152.42	38.64	643.42	76.26
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	623.67	51.01	296.64	52.84	920.32	71.49	920.32	71.49
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	28.79	15.30	28.79	15.30	--	--	2.81	2.90	2.81	2.90	31.60	15.57
<b>Total</b>	<b>97.90</b>	<b>28.32</b>	<b>421.90</b>	<b>63.34</b>	<b>519.79</b>	<b>68.91</b>	<b>627.49</b>	<b>51.09</b>	<b>448.05</b>	<b>64.39</b>	<b>1,075.54</b>	<b>79.62</b>	<b>1,595.34</b>	<b>99.60</b>
<b>State and local government:</b>														
Local	29.67	14.76	101.88	31.72	131.54	34.95	--	--	8.85	7.44	8.85	7.44	140.40	35.73
State	11.81	6.07	41.27	20.53	53.08	21.33	47.74	15.68	90.59	28.71	138.33	32.59	191.41	38.36
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>41.47</b>	<b>15.96</b>	<b>143.15</b>	<b>37.73</b>	<b>184.62</b>	<b>40.85</b>	<b>47.74</b>	<b>15.68</b>	<b>99.44</b>	<b>29.66</b>	<b>147.18</b>	<b>33.43</b>	<b>331.80</b>	<b>52.31</b>
<b>Private:</b>														
Corporate	2,006.02	125.99	494.26	65.27	2,500.28	140.82	--	--	--	--	--	--	2,500.28	140.82
<b>Noncorporate private:</b>														
Total, noncorporate private	810.45	72.95	3,053.51	159.28	3,863.96	172.78	--	--	--	--	--	--	3,863.96	172.78
<b>All private</b>	<b>2,816.46</b>	<b>139.92</b>	<b>3,547.77</b>	<b>167.63</b>	<b>6,364.24</b>	<b>210.44</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>6,364.24</b>	<b>210.44</b>
<b>All owners</b>	<b>7,462.53</b>	<b>202.64</b>	<b>5,464.10</b>	<b>218.99</b>	<b>12,926.63</b>	<b>285.24</b>	<b>1,576.68</b>	<b>86.48</b>	<b>1,346.01</b>	<b>110.77</b>	<b>2,922.69</b>	<b>134.27</b>	<b>15,849.32</b>	<b>308.54</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C26: Aboveground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	153.29	34.68	536.50	67.03	689.79	75.60	120.83	31.64	217.05	45.42	348.03	55.34	1,037.82	93.21
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>153.29</b>	<b>34.68</b>	<b>536.50</b>	<b>67.03</b>	<b>689.79</b>	<b>75.60</b>	<b>120.83</b>	<b>31.64</b>	<b>217.05</b>	<b>45.42</b>	<b>348.03</b>	<b>55.34</b>	<b>1,037.82</b>	<b>93.21</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	41.35	18.45	41.35	18.45	--	--	36.71	18.53	36.71	18.53	78.06	26.10
Department of Defense and Energy	3.70	3.78	4.51	4.61	8.21	5.96	--	--	--	--	--	--	8.21	5.96
National Park Service	--	--	--	--	--	--	--	--	150.26	37.63	150.26	37.63	150.26	37.63
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	34.06	18.20	34.06	18.20	--	--	2.14	2.19	2.14	2.19	36.20	18.33
<b>Total</b>	<b>3.70</b>	<b>3.78</b>	<b>79.92</b>	<b>26.32</b>	<b>83.62</b>	<b>26.58</b>	<b>--</b>	<b>--</b>	<b>189.11</b>	<b>41.80</b>	<b>189.11</b>	<b>41.80</b>	<b>272.72</b>	<b>49.45</b>
<b>State and local government:</b>														
Local	--	--	28.87	14.67	28.87	14.67	--	--	4.60	4.46	4.60	4.46	33.47	15.24
State	--	--	--	--	--	--	10.39	8.61	72.95	26.54	83.34	27.82	83.34	27.82
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>28.87</b>	<b>14.67</b>	<b>28.87</b>	<b>14.67</b>	<b>10.39</b>	<b>8.61</b>	<b>77.55</b>	<b>26.91</b>	<b>87.94</b>	<b>28.18</b>	<b>116.80</b>	<b>31.69</b>
<b>Private:</b>														
Corporate	2.31	2.29	85.13	29.76	87.45	29.85	--	--	--	--	--	--	87.45	29.85
<b>Noncorporate private:</b>														
Total, noncorporate private	22.70	13.90	323.37	51.42	346.07	53.71	--	--	--	--	--	--	346.07	53.71
<b>All private</b>	<b>25.01</b>	<b>14.09</b>	<b>408.50</b>	<b>59.37</b>	<b>433.51</b>	<b>61.41</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>433.51</b>	<b>61.41</b>
<b>All owners</b>	<b>182.00</b>	<b>37.62</b>	<b>1,053.78</b>	<b>94.14</b>	<b>1,235.79</b>	<b>101.68</b>	<b>131.22</b>	<b>32.79</b>	<b>483.71</b>	<b>67.34</b>	<b>625.07</b>	<b>74.86</b>	<b>1,860.86</b>	<b>125.78</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C27.1: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, All California (10 year averages): 2001 - 2010**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	8,768.23	195.43	5,850.31	243.56	14,618.54	274.97	2,449.18	123.75	1,899.31	130.25	4,348.49	172.12	18,967.03	260.35
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>8,768.23</b>	<b>195.43</b>	<b>5,850.31</b>	<b>243.56</b>	<b>14,618.54</b>	<b>274.97</b>	<b>2,449.18</b>	<b>123.75</b>	<b>1,899.31</b>	<b>130.25</b>	<b>4,348.49</b>	<b>172.12</b>	<b>18,967.03</b>	<b>260.35</b>
<b>Other federal government:</b>														
Bureau of Land Management	395.48	59.65	2,206.59	161.30	2,602.07	166.88	26.54	13.18	490.88	64.16	517.42	65.46	3,119.49	174.95
Department of Defense and Energy	9.73	10.69	119.69	33.47	129.42	35.14	--	--	--	--	--	--	129.42	35.14
National Park Service	--	--	--	--	--	--	765.61	59.97	762.16	84.29	1,527.77	96.39	1,527.77	96.39
U.S. Fish and Wildlife Service	--	--	--	--	--	--	6.01	7.39	6.10	6.20	12.11	9.65	12.11	9.65
Other federal	--	--	178.65	45.48	178.65	45.48	10.08	7.36	28.11	14.86	38.19	16.57	216.84	48.39
<b>Total</b>	<b>405.21</b>	<b>60.60</b>	<b>2,504.93</b>	<b>169.49</b>	<b>2,910.14</b>	<b>174.73</b>	<b>808.25</b>	<b>61.77</b>	<b>1,287.25</b>	<b>104.28</b>	<b>2,095.50</b>	<b>114.05</b>	<b>5,005.63</b>	<b>197.73</b>
<b>State and local government:</b>														
Local	47.68	19.80	185.54	40.73	233.23	45.56	38.64	17.55	325.08	55.90	363.73	58.30	596.95	73.63
State	105.77	28.80	80.75	29.07	186.52	40.78	395.47	57.98	492.71	69.08	888.18	88.69	1,074.71	95.30
Other public	--	--	14.45	12.54	14.45	12.54	10.62	9.52	21.44	15.78	32.06	18.43	46.51	22.29
<b>Total</b>	<b>153.46</b>	<b>34.92</b>	<b>280.74</b>	<b>51.55</b>	<b>434.20</b>	<b>62.31</b>	<b>444.74</b>	<b>61.27</b>	<b>839.23</b>	<b>89.06</b>	<b>1,283.97</b>	<b>106.14</b>	<b>1,718.16</b>	<b>120.41</b>
<b>Private:</b>														
Corporate	5,017.88	182.73	844.11	91.52	5,861.98	201.05	--	--	--	--	--	--	5,861.98	201.05
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	<b>4,110.40</b>	<b>163.75</b>	<b>8,889.44</b>	<b>258.37</b>	<b>12,999.84</b>	<b>287.46</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>12,999.84</b>	<b>287.46</b>
<b>All private</b>	<b>9,128.28</b>	<b>197.91</b>	<b>9,733.54</b>	<b>264.07</b>	<b>18,861.82</b>	<b>290.26</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>18,861.82</b>	<b>290.26</b>
<b>All owners</b>	<b>18,455.17</b>	<b>282.49</b>	<b>18,369.52</b>	<b>395.73</b>	<b>36,824.69</b>	<b>429.03</b>	<b>3,702.17</b>	<b>149.75</b>	<b>4,025.79</b>	<b>187.08</b>	<b>7,727.96</b>	<b>228.78</b>	<b>44,552.65</b>	<b>426.38</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C27.2: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, All California (10 year averages): 2002 - 2011**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	8,780.29	197.53	5,655.69	243.96	14,435.98	278.48	2,462.18	124.66	1,879.78	129.65	4,341.96	172.31	18,777.94	265.42
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>8,780.29</b>	<b>197.53</b>	<b>5,655.69</b>	<b>243.96</b>	<b>14,435.98</b>	<b>278.48</b>	<b>2,462.18</b>	<b>124.66</b>	<b>1,879.78</b>	<b>129.65</b>	<b>4,341.96</b>	<b>172.31</b>	<b>18,777.94</b>	<b>265.42</b>
<b>Other federal government:</b>														
Bureau of Land Management	393.59	59.58	2,164.17	159.39	2,557.76	165.18	26.39	13.16	482.93	63.72	509.33	65.03	3,067.08	173.30
Department of Defense and Energy	14.19	11.81	142.71	36.79	156.90	38.62	--	--	--	--	--	--	156.90	38.62
National Park Service	--	--	--	--	--	--	770.94	60.06	757.96	83.30	1,528.91	95.42	1,528.91	95.42
U.S. Fish and Wildlife Service	--	--	--	--	--	--	6.01	7.39	6.04	6.17	12.05	9.63	12.05	9.63
Other federal	--	--	178.32	45.50	178.32	45.50	10.02	7.33	27.86	14.79	37.89	16.50	216.21	48.38
<b>Total</b>	<b>407.78</b>	<b>60.74</b>	<b>2,485.21</b>	<b>168.34</b>	<b>2,892.98</b>	<b>173.82</b>	<b>813.37</b>	<b>61.86</b>	<b>1,274.80</b>	<b>103.72</b>	<b>2,088.17</b>	<b>113.45</b>	<b>4,981.15</b>	<b>196.64</b>
<b>State and local government:</b>														
Local	34.10	14.91	186.90	40.76	221.00	43.65	37.81	17.34	319.44	55.19	357.25	57.56	578.25	71.90
State	107.24	28.77	80.08	28.93	187.32	40.66	403.37	58.36	519.71	70.83	923.09	90.42	1,110.41	96.88
Other public	--	--	14.73	12.78	14.73	12.78	10.94	9.66	8.60	9.84	19.54	13.79	34.27	18.80
<b>Total</b>	<b>141.35</b>	<b>32.37</b>	<b>281.70</b>	<b>51.57</b>	<b>423.05</b>	<b>60.94</b>	<b>452.13</b>	<b>61.60</b>	<b>847.75</b>	<b>89.31</b>	<b>1,299.87</b>	<b>106.59</b>	<b>1,722.93</b>	<b>120.26</b>
<b>Private:</b>														
Corporate	4,961.94	185.25	1,000.81	99.25	5,962.75	206.46	--	--	--	--	--	--	5,962.75	206.46
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	<b>4,036.63</b>	<b>162.19</b>	<b>8,620.22</b>	<b>255.49</b>	<b>12,656.86</b>	<b>285.20</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>12,656.86</b>	<b>285.20</b>
<b>All private</b>	<b>8,998.57</b>	<b>201.92</b>	<b>9,621.04</b>	<b>262.63</b>	<b>18,619.61</b>	<b>292.79</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>18,619.61</b>	<b>292.79</b>
<b>All owners</b>	<b>18,327.98</b>	<b>284.23</b>	<b>18,043.64</b>	<b>393.86</b>	<b>36,371.62</b>	<b>429.58</b>	<b>3,727.68</b>	<b>150.66</b>	<b>4,002.33</b>	<b>186.49</b>	<b>7,730.01</b>	<b>228.78</b>	<b>44,101.63</b>	<b>426.44</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C27.3: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, All California (10 year averages): 2003 - 2012**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	8,825.40	186.94	5,264.09	232.75	14,089.49	260.10	2,564.74	115.79	1,948.38	124.83	4,513.12	147.29	18,602.61	277.47
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>8,825.40</b>	<b>186.94</b>	<b>5,264.09</b>	<b>232.75</b>	<b>14,089.49</b>	<b>260.10</b>	<b>2,564.74</b>	<b>115.79</b>	<b>1,948.38</b>	<b>124.83</b>	<b>4,513.12</b>	<b>147.29</b>	<b>18,602.61</b>	<b>277.47</b>
<b>Other federal government:</b>														
Bureau of Land Management	427.22	62.77	2,142.02	173.41	2,569.24	182.73	35.74	17.04	403.22	65.41	438.96	67.58	3,008.20	189.54
Department of Defense and Energy	22.20	14.91	126.72	35.33	148.92	38.34	--	--	8.75	9.06	8.75	9.06	157.67	39.40
National Park Service	--	--	--	--	--	--	787.80	60.78	719.44	85.32	1,507.24	101.50	1,507.24	101.50
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	205.89	48.89	205.89	48.89	3.88	4.10	32.69	17.16	36.58	17.64	242.47	51.96
<b>Total</b>	<b>449.42</b>	<b>63.84</b>	<b>2,474.63</b>	<b>181.35</b>	<b>2,924.05</b>	<b>190.36</b>	<b>827.43</b>	<b>62.10</b>	<b>1,164.10</b>	<b>105.75</b>	<b>1,991.53</b>	<b>117.88</b>	<b>4,915.58</b>	<b>204.07</b>
<b>State and local government:</b>														
Local	44.54	19.07	177.21	40.45	221.75	44.98	44.94	19.67	308.61	54.48	353.55	56.82	575.30	71.86
State	96.98	26.98	89.41	32.07	186.40	41.50	365.36	49.04	480.22	65.10	845.57	78.74	1,031.97	82.32
Other public	--	--	14.92	12.77	14.92	12.77	7.31	8.46	10.09	10.93	17.40	13.82	32.32	18.82
<b>Total</b>	<b>141.52</b>	<b>32.88</b>	<b>281.54</b>	<b>53.16</b>	<b>423.06</b>	<b>62.42</b>	<b>417.61</b>	<b>52.57</b>	<b>798.91</b>	<b>81.39</b>	<b>1,216.52</b>	<b>92.84</b>	<b>1,639.59</b>	<b>104.26</b>
<b>Private:</b>														
Corporate	5,079.77	187.27	1,022.21	100.72	6,101.98	208.76	--	--	--	--	--	--	6,101.98	208.76
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	<b>4,014.93</b>	<b>162.48</b>	<b>8,465.24</b>	<b>258.08</b>	<b>12,480.17</b>	<b>286.70</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>12,480.17</b>	<b>286.70</b>
<b>All private</b>	<b>9,094.70</b>	<b>201.90</b>	<b>9,487.45</b>	<b>267.32</b>	<b>18,582.14</b>	<b>297.97</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>18,582.14</b>	<b>297.97</b>
<b>All owners</b>	<b>18,511.04</b>	<b>277.83</b>	<b>17,507.71</b>	<b>396.98</b>	<b>36,018.74</b>	<b>430.99</b>	<b>3,809.78</b>	<b>141.35</b>	<b>3,911.39</b>	<b>182.15</b>	<b>7,721.17</b>	<b>209.03</b>	<b>43,739.91</b>	<b>444.79</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C27.4: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, All California (10 year averages): 2004 - 2013**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	8,687.24	181.84	5,111.75	227.50	13,798.99	252.47	2,543.69	114.01	1,911.01	125.02	4,454.70	146.63	18,253.69	270.90
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>8,687.24</b>	<b>181.84</b>	<b>5,111.75</b>	<b>227.50</b>	<b>13,798.99</b>	<b>252.47</b>	<b>2,543.69</b>	<b>114.01</b>	<b>1,911.01</b>	<b>125.02</b>	<b>4,454.70</b>	<b>146.63</b>	<b>18,253.69</b>	<b>270.90</b>
<b>Other federal government:</b>														
Bureau of Land Management	421.54	62.53	2,062.31	168.60	2,483.86	178.11	46.15	19.31	424.92	66.93	471.07	69.64	2,954.93	185.67
Department of Defense and Energy	22.20	14.91	127.97	35.58	150.17	38.57	--	--	8.75	9.06	8.75	9.06	158.92	39.62
National Park Service	--	--	--	--	--	--	793.88	61.32	695.80	84.02	1,489.68	100.68	1,489.68	100.68
U.S. Fish and Wildlife Service	--	--	--	--	--	--	5.01	5.13	0.93	0.94	5.94	5.21	5.94	5.21
Other federal	--	--	198.79	47.94	198.79	47.94	--	--	24.61	15.19	24.61	15.19	223.40	50.28
<b>Total</b>	<b>443.74</b>	<b>63.61</b>	<b>2,389.08</b>	<b>176.54</b>	<b>2,832.82</b>	<b>185.75</b>	<b>845.04</b>	<b>63.40</b>	<b>1,155.00</b>	<b>105.41</b>	<b>2,000.05</b>	<b>118.26</b>	<b>4,832.87</b>	<b>199.86</b>
<b>State and local government:</b>														
Local	45.24	19.20	184.02	40.68	229.26	45.25	56.18	22.06	307.05	53.82	363.23	56.38	592.49	71.70
State	96.93	26.96	89.37	32.06	186.30	41.47	355.22	47.92	477.33	65.79	832.54	78.62	1,018.84	82.20
Other public	--	--	16.45	12.84	16.45	12.84	7.91	8.81	10.09	10.93	18.00	14.04	34.44	19.02
<b>Total</b>	<b>142.17</b>	<b>32.93</b>	<b>289.84</b>	<b>53.34</b>	<b>432.01</b>	<b>62.60</b>	<b>419.30</b>	<b>52.68</b>	<b>794.46</b>	<b>81.60</b>	<b>1,213.76</b>	<b>92.56</b>	<b>1,645.77</b>	<b>104.08</b>
<b>Private:</b>														
Corporate	5,097.17	187.54	1,101.76	106.74	6,198.93	211.91	--	--	--	--	--	--	6,198.93	211.91
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	<b>3,885.20</b>	<b>159.98</b>	<b>8,185.54</b>	<b>252.06</b>	<b>12,070.74</b>	<b>280.87</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>12,070.74</b>	<b>280.87</b>
<b>All private</b>	<b>8,982.38</b>	<b>201.18</b>	<b>9,287.30</b>	<b>263.24</b>	<b>18,269.68</b>	<b>294.73</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>18,269.68</b>	<b>294.73</b>
<b>All owners</b>	<b>18,255.54</b>	<b>274.35</b>	<b>17,077.96</b>	<b>389.23</b>	<b>35,333.50</b>	<b>422.93</b>	<b>3,808.04</b>	<b>140.55</b>	<b>3,860.47</b>	<b>182.31</b>	<b>7,668.51</b>	<b>208.93</b>	<b>43,002.01</b>	<b>437.33</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C27.5: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, All California (10 year averages): 2005 - 2014**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	8,690.17	179.54	4,990.09	224.83	13,680.26	248.69	2,594.41	115.67	1,858.55	124.88	4,452.97	147.29	18,133.23	269.15
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>8,690.17</b>	<b>179.54</b>	<b>4,990.09</b>	<b>224.83</b>	<b>13,680.26</b>	<b>248.69</b>	<b>2,594.41</b>	<b>115.67</b>	<b>1,858.55</b>	<b>124.88</b>	<b>4,452.97</b>	<b>147.29</b>	<b>18,133.23</b>	<b>269.15</b>
<b>Other federal government:</b>														
Bureau of Land Management	403.96	61.17	1,986.92	161.73	2,390.88	171.23	59.44	21.87	385.23	64.08	444.67	67.69	2,835.54	178.57
Department of Defense and Energy	22.21	14.90	123.89	35.16	146.10	38.19	--	--	8.75	9.05	8.75	9.05	154.85	39.25
National Park Service	--	--	--	--	--	--	797.05	60.97	685.25	83.05	1,482.30	99.76	1,482.30	99.76
U.S. Fish and Wildlife Service	--	--	--	--	--	--	5.01	5.13	0.93	0.93	5.94	5.21	5.94	5.21
Other federal	--	--	198.22	47.84	198.22	47.84	--	--	24.61	15.18	24.61	15.18	222.84	50.19
<b>Total</b>	<b>426.17</b>	<b>62.48</b>	<b>2,309.03</b>	<b>169.94</b>	<b>2,735.20</b>	<b>179.20</b>	<b>861.50</b>	<b>63.79</b>	<b>1,104.77</b>	<b>103.29</b>	<b>1,966.27</b>	<b>116.43</b>	<b>4,701.47</b>	<b>193.57</b>
<b>State and local government:</b>														
Local	53.91	20.12	193.64	41.45	247.56	46.34	56.23	22.07	297.04	53.06	353.27	55.68	600.83	71.88
State	99.31	26.66	91.23	32.07	190.54	41.46	353.83	47.53	472.08	65.16	825.91	77.89	1,016.44	81.64
Other public	--	--	15.55	12.77	15.55	12.77	7.91	8.81	10.09	10.92	18.00	14.03	33.55	18.97
<b>Total</b>	<b>153.22</b>	<b>33.23</b>	<b>300.42</b>	<b>53.92</b>	<b>453.64</b>	<b>63.36</b>	<b>417.97</b>	<b>52.33</b>	<b>779.20</b>	<b>80.81</b>	<b>1,197.17</b>	<b>91.71</b>	<b>1,650.82</b>	<b>103.96</b>
<b>Private:</b>														
Corporate	5,108.90	187.23	1,203.78	110.66	6,312.68	213.54	--	--	--	--	--	--	6,312.68	213.54
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	<b>3,796.86</b>	<b>158.19</b>	<b>8,017.13</b>	<b>249.97</b>	<b>11,813.99</b>	<b>278.80</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>11,813.99</b>	<b>278.80</b>
<b>All private</b>	<b>8,905.76</b>	<b>200.24</b>	<b>9,220.91</b>	<b>261.71</b>	<b>18,126.67</b>	<b>292.90</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>18,126.67</b>	<b>292.90</b>
<b>All owners</b>	<b>18,175.32</b>	<b>272.14</b>	<b>16,820.45</b>	<b>383.98</b>	<b>34,995.77</b>	<b>416.78</b>	<b>3,873.89</b>	<b>141.95</b>	<b>3,742.52</b>	<b>180.66</b>	<b>7,616.41</b>	<b>208.03</b>	<b>42,612.18</b>	<b>432.54</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C27.6: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, All California (10 year averages): 2006 - 2015**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	8,685.70	179.91	4,803.88	221.31	13,489.57	246.09	2,642.32	116.20	1,889.11	127.66	4,531.43	150.01	18,021.00	269.25
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>8,685.70</b>	<b>179.91</b>	<b>4,803.88</b>	<b>221.31</b>	<b>13,489.57</b>	<b>246.09</b>	<b>2,642.32</b>	<b>116.20</b>	<b>1,889.11</b>	<b>127.66</b>	<b>4,531.43</b>	<b>150.01</b>	<b>18,021.00</b>	<b>269.25</b>
<b>Other federal government:</b>														
Bureau of Land Management	386.94	58.50	1,986.13	165.05	2,373.07	173.69	68.73	23.71	374.61	63.09	443.34	67.38	2,816.41	180.87
Department of Defense and Energy	22.21	14.90	123.56	34.99	145.77	38.03	--	--	8.91	9.22	8.91	9.22	154.68	39.13
National Park Service	--	--	--	--	--	--	788.79	59.51	691.32	83.40	1,480.11	99.39	1,480.11	99.39
U.S. Fish and Wildlife Service	--	--	--	--	--	--	5.01	5.13	0.93	0.93	5.94	5.21	5.94	5.21
Other federal	--	--	201.76	48.01	201.76	48.01	--	--	24.67	15.19	24.67	15.19	226.43	50.35
<b>Total</b>	<b>409.16</b>	<b>59.86</b>	<b>2,311.45</b>	<b>173.21</b>	<b>2,720.61</b>	<b>181.65</b>	<b>862.52</b>	<b>62.88</b>	<b>1,100.44</b>	<b>102.89</b>	<b>1,962.97</b>	<b>115.58</b>	<b>4,683.57</b>	<b>195.48</b>
<b>State and local government:</b>														
Local	52.47	20.07	209.32	43.66	261.79	48.26	51.76	20.40	287.17	52.35	338.93	54.36	600.72	72.12
State	95.82	23.62	87.10	31.65	182.92	39.23	353.98	47.56	462.87	64.44	816.85	77.34	999.77	80.04
Other public	--	--	15.50	12.76	15.50	12.76	7.75	8.63	10.09	10.92	17.84	13.92	33.34	18.88
<b>Total</b>	<b>148.29</b>	<b>30.79</b>	<b>311.91</b>	<b>55.39</b>	<b>460.21</b>	<b>63.36</b>	<b>413.49</b>	<b>51.66</b>	<b>760.13</b>	<b>79.77</b>	<b>1,173.62</b>	<b>90.46</b>	<b>1,633.82</b>	<b>102.93</b>
<b>Private:</b>														
Corporate	5,198.93	186.55	1,368.07	117.95	6,567.00	216.31	--	--	--	--	--	--	6,567.00	216.31
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	<b>3,684.97</b>	<b>156.92</b>	<b>7,718.54</b>	<b>245.89</b>	<b>11,403.50</b>	<b>275.38</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>11,403.50</b>	<b>275.38</b>
<b>All private</b>	<b>8,883.90</b>	<b>199.99</b>	<b>9,086.60</b>	<b>259.37</b>	<b>17,970.50</b>	<b>290.99</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>17,970.50</b>	<b>290.99</b>
<b>All owners</b>	<b>18,127.05</b>	<b>271.21</b>	<b>16,513.84</b>	<b>382.34</b>	<b>34,640.89</b>	<b>415.05</b>	<b>3,918.33</b>	<b>141.71</b>	<b>3,749.68</b>	<b>182.06</b>	<b>7,668.01</b>	<b>209.12</b>	<b>42,308.90</b>	<b>432.45</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C27.7: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, All California (10 year averages): 2007 - 2016**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	8,656.09	178.64	4,657.28	215.51	13,313.37	242.28	2,659.13	115.71	1,928.99	129.67	4,588.12	151.53	17,901.49	266.74
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>8,656.09</b>	<b>178.64</b>	<b>4,657.28</b>	<b>215.51</b>	<b>13,313.37</b>	<b>242.28</b>	<b>2,659.13</b>	<b>115.71</b>	<b>1,928.99</b>	<b>129.67</b>	<b>4,588.12</b>	<b>151.53</b>	<b>17,901.49</b>	<b>266.74</b>
<b>Other federal government:</b>														
Bureau of Land Management	366.72	57.15	1,988.59	167.05	2,355.31	175.06	100.53	29.94	379.36	63.62	479.90	70.30	2,835.21	183.02
Department of Defense and Energy	34.50	18.73	133.25	36.17	167.75	40.73	--	--	9.63	9.60	9.63	9.60	177.38	41.85
National Park Service	--	--	--	--	--	--	793.99	59.54	703.97	84.11	1,497.96	99.91	1,497.96	99.91
U.S. Fish and Wildlife Service	--	--	--	--	--	--	5.01	5.13	0.93	0.93	5.94	5.21	5.94	5.21
Other federal	--	--	170.73	41.77	170.73	41.77	--	--	24.91	15.22	24.91	15.22	195.64	44.45
<b>Total</b>	<b>401.22</b>	<b>59.53</b>	<b>2,292.57</b>	<b>173.86</b>	<b>2,693.79</b>	<b>182.08</b>	<b>899.53</b>	<b>64.34</b>	<b>1,118.80</b>	<b>103.97</b>	<b>2,018.34</b>	<b>117.17</b>	<b>4,712.13</b>	<b>196.82</b>
<b>State and local government:</b>														
Local	61.24	21.04	236.93	46.49	298.17	51.81	51.84	20.41	285.21	52.24	337.05	54.25	635.22	74.46
State	92.40	23.03	93.32	32.39	185.72	39.48	348.31	46.15	467.11	64.68	815.42	76.85	1,001.14	79.66
Other public	--	--	15.48	12.76	15.48	12.76	7.75	8.63	9.93	10.75	17.68	13.79	33.16	18.79
<b>Total</b>	<b>153.64</b>	<b>31.00</b>	<b>345.73</b>	<b>58.00</b>	<b>499.37</b>	<b>66.19</b>	<b>407.91</b>	<b>50.38</b>	<b>762.25</b>	<b>79.92</b>	<b>1,170.15</b>	<b>90.02</b>	<b>1,669.52</b>	<b>104.27</b>
<b>Private:</b>														
Corporate	5,306.18	188.43	1,437.98	120.23	6,744.15	218.50	--	--	--	--	--	--	6,744.15	218.50
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	<b>3,484.82</b>	<b>151.98</b>	<b>7,579.44</b>	<b>242.81</b>	<b>11,064.26</b>	<b>270.99</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>11,064.26</b>	<b>270.99</b>
<b>All private</b>	<b>8,791.00</b>	<b>199.36</b>	<b>9,017.42</b>	<b>257.34</b>	<b>17,808.42</b>	<b>289.15</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>17,808.42</b>	<b>289.15</b>
<b>All owners</b>	<b>18,001.95</b>	<b>270.00</b>	<b>16,313.00</b>	<b>377.92</b>	<b>34,314.95</b>	<b>411.76</b>	<b>3,966.57</b>	<b>141.46</b>	<b>3,810.04</b>	<b>184.15</b>	<b>7,776.61</b>	<b>210.90</b>	<b>42,091.56</b>	<b>430.01</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C27.8: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation by Owner Group and Forest Land Status, All California (10 year averages): 2008 - 2017**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	8,613.08	177.29	4,678.70	215.61	13,291.78	241.39	2,657.61	114.39	1,925.81	129.49	4,583.42	150.68	17,875.20	265.25
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>8,613.08</b>	<b>177.29</b>	<b>4,678.70</b>	<b>215.61</b>	<b>13,291.78</b>	<b>241.39</b>	<b>2,657.61</b>	<b>114.39</b>	<b>1,925.81</b>	<b>129.49</b>	<b>4,583.42</b>	<b>150.68</b>	<b>17,875.20</b>	<b>265.25</b>
<b>Other federal government:</b>														
Bureau of Land Management	376.73	58.11	1,970.70	165.68	2,347.43	173.97	100.16	29.90	372.12	63.06	472.28	69.78	2,819.72	182.12
Department of Defense and Energy	34.37	18.68	133.25	36.13	167.61	40.68	--	--	8.91	9.22	8.91	9.22	176.52	41.71
National Park Service	--	--	--	--	--	--	818.99	61.79	712.54	84.18	1,531.53	101.07	1,531.53	101.07
U.S. Fish and Wildlife Service	--	--	--	--	--	--	5.01	5.12	0.90	0.92	5.91	5.21	5.91	5.21
Other federal	--	--	105.73	32.04	105.73	32.04	--	--	7.66	4.52	7.66	4.52	113.39	32.36
<b>Total</b>	<b>411.10</b>	<b>60.44</b>	<b>2,209.68</b>	<b>170.58</b>	<b>2,620.78</b>	<b>179.17</b>	<b>924.16</b>	<b>66.40</b>	<b>1,102.13</b>	<b>102.73</b>	<b>2,026.29</b>	<b>117.20</b>	<b>4,647.07</b>	<b>194.34</b>
<b>State and local government:</b>														
Local	59.91	20.31	236.17	46.24	296.09	51.30	52.57	20.71	271.17	50.35	323.75	52.65	619.84	73.01
State	92.18	22.97	92.87	32.29	185.05	39.37	350.62	46.06	454.13	63.45	804.75	75.99	989.81	78.74
Other public	--	--	15.46	12.76	15.46	12.76	7.75	8.63	9.94	10.76	17.69	13.79	33.15	18.79
<b>Total</b>	<b>152.09</b>	<b>30.47</b>	<b>344.50</b>	<b>57.75</b>	<b>496.60</b>	<b>65.72</b>	<b>410.94</b>	<b>50.39</b>	<b>735.25</b>	<b>78.08</b>	<b>1,146.20</b>	<b>88.60</b>	<b>1,642.79</b>	<b>102.87</b>
<b>Private:</b>														
Corporate	5,362.64	188.06	1,506.31	122.40	6,868.95	219.08	--	--	--	--	--	--	6,868.95	219.08
<b>Noncorporate private:</b>														
Total, noncorporate private	3,385.84	150.89	7,481.11	239.16	10,866.96	267.44	--	--	--	--	--	--	10,866.96	267.44
<b>All private</b>	<b>8,748.48</b>	<b>198.95</b>	<b>8,987.43</b>	<b>254.67</b>	<b>17,735.91</b>	<b>286.71</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>17,735.91</b>	<b>286.71</b>
<b>All owners</b>	<b>17,924.76</b>	<b>268.88</b>	<b>16,220.31</b>	<b>374.71</b>	<b>34,145.07</b>	<b>408.34</b>	<b>3,992.72</b>	<b>141.34</b>	<b>3,763.19</b>	<b>182.53</b>	<b>7,755.91</b>	<b>209.70</b>	<b>41,900.98</b>	<b>426.29</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C27.9: Aboveground and Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, All California (10 year averages): 2009-2018**

*\*information combined from Table C19 and Table C28*

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	8,554.21	175.67	4,623.25	211.27	13,177.47	237.69	2,649.27	114.98	1,926.96	131.53	4,587.50	153.77	17,764.96	262.38
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>8,554.21</b>	<b>175.67</b>	<b>4,623.25</b>	<b>211.27</b>	<b>13,177.47</b>	<b>237.69</b>	<b>2,649.27</b>	<b>114.98</b>	<b>1,926.96</b>	<b>131.53</b>	<b>4,587.50</b>	<b>153.77</b>	<b>17,764.96</b>	<b>262.38</b>
<b>Other federal government:</b>														
Bureau of Land Management	344.08	57.40	1,941.00	162.49	2,285.08	170.67	99.12	29.76	355.58	61.34	454.69	68.17	2,739.77	178.53
Department of Defense and Energy	32.73	18.16	138.11	36.43	170.84	40.71	--	--	9.16	9.47	9.16	9.47	180.00	41.80
National Park Service	--	--	--	--	--	--	830.46	62.91	703.20	83.87	1,533.66	101.51	1,533.66	101.51
U.S. Fish and Wildlife Service	--	--	--	--	--	--	5.01	5.12	0.88	0.91	5.89	5.20	5.89	5.20
Other federal	--	--	102.14	31.82	107.49	32.51	--	--	7.74	4.58	7.74	4.58	115.23	32.83
<b>Total</b>	<b>382.16</b>	<b>60.28</b>	<b>2,181.26</b>	<b>167.57</b>	<b>2,563.41</b>	<b>176.00</b>	<b>934.59</b>	<b>67.34</b>	<b>1,076.55</b>	<b>101.52</b>	<b>2,011.13</b>	<b>116.81</b>	<b>4,574.54</b>	<b>191.33</b>
<b>State and local government:</b>														
Local	56.19	19.36	243.70	47.62	299.89	51.96	61.30	22.57	259.17	49.18	320.47	52.26	620.36	73.22
State	99.48	24.28	100.44	34.38	199.92	41.87	344.51	46.10	453.90	63.54	798.41	76.13	998.34	80.26
Other public	--	--	1.48	1.34	1.48	1.34	7.76	8.62	9.94	10.76	17.69	13.79	19.18	13.86
<b>Total</b>	<b>155.67</b>	<b>30.66</b>	<b>345.63</b>	<b>58.67</b>	<b>501.30</b>	<b>66.42</b>	<b>413.56</b>	<b>51.22</b>	<b>723.01</b>	<b>77.43</b>	<b>1,136.58</b>	<b>88.52</b>	<b>1,637.88</b>	<b>103.07</b>
<b>Private:</b>														
Corporate	5,411.06	186.59	1,557.61	123.20	6,968.68	218.07	--	--	--	--	--	--	6,968.68	218.07
<b>Noncorporate private:</b>														
Total, noncorporate private	3,330.09	150.56	7,361.24	237.42	10,691.33	265.90	--	--	--	--	--	--	10,691.33	265.90
<b>All private</b>	<b>8,741.16</b>	<b>197.91</b>	<b>8,918.86</b>	<b>253.39</b>	<b>17,660.01</b>	<b>285.19</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>17,660.01</b>	<b>285.19</b>
<b>All owners</b>	<b>17,833.18</b>	<b>267.29</b>	<b>16,069.00</b>	<b>370.42</b>	<b>33,902.18</b>	<b>404.39</b>	<b>3,997.41</b>	<b>142.57</b>	<b>3,726.52</b>	<b>183.03</b>	<b>7,735.21</b>	<b>211.68</b>	<b>41,637.39</b>	<b>422.73</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C28: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: All California**

\*information combined with information from Table C19 in Table C27.9

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>1</sup>		Total		Productive <sup>1</sup>		Other forest <sup>1</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>	855.42	17.57	462.32	21.13	1,317.75	23.77	264.93	11.50	192.70	13.15	458.75	15.38	1,776.50	26.24
National Forest														
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>855.42</b>	<b>17.57</b>	<b>462.32</b>	<b>21.13</b>	<b>1,317.75</b>	<b>23.77</b>	<b>264.93</b>	<b>11.50</b>	<b>192.70</b>	<b>13.15</b>	<b>458.75</b>	<b>15.38</b>	<b>1,776.50</b>	<b>26.24</b>
<b>Other federal government:</b>														
Bureau of Land Management	34.41	5.74	194.10	16.25	228.51	17.07	9.91	2.98	35.56	6.13	45.47	6.82	273.98	17.85
Department of Defense and Energy	3.27	1.82	13.81	3.64	17.08	4.07	--	--	0.92	0.95	0.92	0.95	18.00	4.18
National Park Service	--	--	--	--	--	--	83.05	6.29	70.32	8.39	153.37	10.15	153.37	10.15
U.S. Fish and Wildlife Service	--	--	--	--	--	--	0.50	0.51	0.09	0.09	0.59	0.52	0.59	0.52
Other federal	0.53	0.66	10.21	3.18	10.75	3.25	--	--	0.77	0.46	0.77	0.46	11.52	3.28
<b>Total</b>	<b>38.22</b>	<b>6.03</b>	<b>218.13</b>	<b>16.76</b>	<b>256.34</b>	<b>17.60</b>	<b>93.46</b>	<b>6.73</b>	<b>107.65</b>	<b>10.15</b>	<b>201.11</b>	<b>11.68</b>	<b>457.45</b>	<b>19.13</b>
<b>State and local government:</b>														
Local	5.62	1.94	24.37	4.76	29.99	5.20	6.13	2.26	25.92	4.92	32.05	5.23	62.04	7.32
State	9.95	2.43	10.04	3.44	19.99	4.19	34.45	4.61	45.39	6.35	79.84	7.61	99.83	8.03
Other public	--	--	0.15	0.13	0.15	0.13	0.78	0.86	0.99	1.08	1.77	1.38	1.92	1.39
<b>Total</b>	<b>15.57</b>	<b>3.07</b>	<b>34.56</b>	<b>5.87</b>	<b>50.13</b>	<b>6.64</b>	<b>41.36</b>	<b>5.12</b>	<b>72.30</b>	<b>7.74</b>	<b>113.66</b>	<b>8.85</b>	<b>163.79</b>	<b>10.31</b>
<b>Private:</b>														
Corporate	541.11	18.66	155.76	12.32	696.87	21.81	--	--	--	--	--	--	696.87	21.81
<b>Noncorporate private:</b>														
Total, noncorporate private	333.01	15.06	736.12	23.74	1,069.13	26.59	--	--	--	--	--	--	1,069.13	26.59
<b>All private</b>	<b>874.12</b>	<b>19.79</b>	<b>891.89</b>	<b>25.34</b>	<b>1,766.00</b>	<b>28.52</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1,766.00</b>	<b>28.52</b>
<b>All owners</b>	<b>1,783.32</b>	<b>26.73</b>	<b>1,606.90</b>	<b>37.04</b>	<b>3,390.22</b>	<b>40.44</b>	<b>399.74</b>	<b>14.26</b>	<b>372.65</b>	<b>18.30</b>	<b>773.52</b>	<b>21.17</b>	<b>4,163.74</b>	<b>42.27</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C29: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>1</sup>		Total		Productive <sup>1</sup>		Other forest <sup>1</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	0.27	0.25	14.46	3.69	14.73	3.70	3.55	1.76	21.32	4.70	24.87	4.97	39.60	6.20
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	0.27	0.25	14.46	3.69	14.73	3.70	3.55	1.76	21.32	4.70	24.87	4.97	39.60	6.20
<b>Other federal government:</b>														
Bureau of Land Management	--	--	9.79	3.35	9.79	3.35	--	--	1.90	1.39	1.90	1.39	11.69	3.63
Department of Defense and Energy	--	--	8.30	2.70	8.30	2.70	--	--	--	--	--	--	8.30	2.70
National Park Service	--	--	--	--	--	--	--	--	0.94	1.05	0.94	1.05	0.94	1.05
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	1.95	1.50	1.95	1.50	--	--	0.03	0.04	0.03	0.04	1.98	1.50
Total	--	--	20.03	4.53	20.03	4.53	--	--	2.88	1.74	2.88	1.74	22.91	4.85
<b>State and local government:</b>														
Local	--	--	4.99	1.96	4.99	1.96	6.13	2.26	16.05	3.66	22.18	4.07	27.17	4.47
State	1.83	1.14	2.25	1.65	4.08	2.04	4.92	2.09	19.96	4.19	24.87	4.66	28.95	5.08
Other public	--	--	--	--	--	--	0.78	0.86	0.99	1.08	1.77	1.38	1.77	1.38
Total	1.83	1.14	7.23	2.56	9.06	2.83	11.82	3.18	37.01	5.37	48.83	5.94	57.89	6.44
<b>Private:</b>														
Corporate	5.84	2.36	22.96	4.42	28.79	5.00	--	--	--	--	--	--	28.79	5.00
<b>Noncorporate private:</b>														
Total, noncorporate private	18.59	3.70	123.05	10.28	141.65	10.88	--	--	--	--	--	--	141.65	10.88
<b>All private</b>	24.43	4.37	146.01	11.09	170.44	11.87	--	--	--	--	--	--	170.44	11.87
<b>All owners</b>	26.53	4.53	187.73	12.80	214.27	13.53	15.37	3.64	61.20	7.32	76.57	7.90	290.84	15.53

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C30: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: Central Valley**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>1</sup>		Total		Productive <sup>1</sup>		Other forest <sup>1</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other federal government:</b>														
Bureau of Land Management	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	0.09	0.09	0.09	0.09	0.09	0.09
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	0.09	0.09	0.09	0.09	0.09	0.09
<b>State and local government:</b>														
Local	--	--	0.73	0.51	0.73	0.51	--	--	--	--	--	--	0.73	0.51
State	--	--	--	--	--	--	--	--	0.84	0.76	0.84	0.76	0.84	0.76
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	0.73	0.51	0.73	0.51	--	--	0.84	0.76	0.84	0.76	1.58	0.92
<b>Private:</b>														
Corporate	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Noncorporate private:</b>														
Total, noncorporate private	--	--	13.33	3.42	13.33	3.42	--	--	--	--	--	--	13.33	3.42
<b>All private</b>	--	--	13.33	3.42	13.33	3.42	--	--	--	--	--	--	13.33	3.42
<b>All owners</b>	--	--	14.07	3.46	14.07	3.46	--	--	0.93	0.77	0.93	0.77	15.00	3.54

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C31: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: Eastside**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>1</sup>		Total		Productive <sup>1</sup>		Other forest <sup>1</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	79.07	7.99	171.07	15.23	250.14	16.97	5.17	2.01	15.29	4.57	20.46	4.98	270.60	17.66
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>79.07</b>	<b>7.99</b>	<b>171.07</b>	<b>15.23</b>	<b>250.14</b>	<b>16.97</b>	<b>5.17</b>	<b>2.01</b>	<b>15.29</b>	<b>4.57</b>	<b>20.46</b>	<b>4.98</b>	<b>270.60</b>	<b>17.66</b>
<b>Other federal government:</b>														
Bureau of Land Management	4.74	2.68	113.63	14.14	118.37	14.38	--	--	9.31	3.22	9.31	3.22	127.69	14.61
Department of Defense and Energy	--	--	4.99	2.41	4.99	2.41	--	--	--	--	--	--	4.99	2.41
National Park Service	--	--	--	--	--	--	--	--	11.84	3.60	11.84	3.60	11.84	3.60
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>4.74</b>	<b>2.68</b>	<b>118.63</b>	<b>14.29</b>	<b>123.37</b>	<b>14.53</b>	<b>--</b>	<b>--</b>	<b>21.15</b>	<b>4.81</b>	<b>21.15</b>	<b>4.81</b>	<b>144.52</b>	<b>15.07</b>
<b>State and local government:</b>														
Local	--	--	1.09	1.10	1.09	1.10	--	--	--	--	--	--	1.09	1.10
State	--	--	--	--	--	--	0.55	0.61	1.80	1.55	2.36	1.66	2.36	1.66
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>1.09</b>	<b>1.10</b>	<b>1.09</b>	<b>1.10</b>	<b>0.55</b>	<b>0.61</b>	<b>1.80</b>	<b>1.55</b>	<b>2.36</b>	<b>1.66</b>	<b>3.44</b>	<b>1.99</b>
<b>Private:</b>														
Corporate	37.32	6.95	17.51	5.17	54.84	8.71	--	--	--	--	--	--	54.84	8.71
<b>Noncorporate private:</b>														
Total, noncorporate private	9.49	2.65	35.22	8.00	44.70	8.45	--	--	--	--	--	--	44.70	8.45
<b>All private</b>	<b>46.81</b>	<b>7.40</b>	<b>52.73</b>	<b>9.48</b>	<b>99.54</b>	<b>12.07</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>99.54</b>	<b>12.07</b>
<b>All owners</b>	<b>130.63</b>	<b>11.27</b>	<b>343.51</b>	<b>22.99</b>	<b>474.14</b>	<b>25.45</b>	<b>5.72</b>	<b>2.10</b>	<b>38.25</b>	<b>6.82</b>	<b>43.96</b>	<b>7.12</b>	<b>518.10</b>	<b>26.27</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C32: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>1</sup>		Total		Productive <sup>1</sup>		Other forest <sup>1</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	255.68	12.37	65.93	7.91	321.61	14.32	141.26	9.61	43.24	6.49	184.51	11.27	506.12	17.65
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	255.68	12.37	65.93	7.91	321.61	14.32	141.26	9.61	43.24	6.49	184.51	11.27	506.12	17.65
<b>Other federal government:</b>														
Bureau of Land Management	14.40	3.55	22.41	4.67	36.81	5.88	0.60	0.60	3.75	1.94	4.36	2.03	41.16	6.22
Department of Defense and Energy	--	--	--	--	--	--	--	--	0.92	0.95	0.92	0.95	0.92	0.95
National Park Service	--	--	--	--	--	--	8.32	2.68	6.76	2.53	15.08	3.74	15.08	3.74
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	0.53	0.66	1.29	0.96	1.82	1.16	--	--	0.19	0.21	0.19	0.21	2.01	1.18
Total	14.93	3.61	23.70	4.77	38.63	6.00	8.92	2.73	11.62	3.32	20.55	4.35	59.17	7.22
<b>State and local government:</b>														
Local	0.30	0.26	1.84	1.28	2.15	1.30	--	--	1.03	0.99	1.03	0.99	3.17	1.64
State	1.01	0.79	2.91	1.98	3.92	2.13	0.39	0.29	3.14	1.78	3.53	1.84	7.44	2.82
Other public	--	--	0.15	0.13	0.15	0.13	--	--	--	--	--	--	0.15	0.13
Total	1.31	0.83	4.90	2.36	6.21	2.50	0.39	0.29	4.17	2.03	4.55	2.09	10.76	3.25
<b>Private:</b>														
Corporate	114.27	10.03	45.97	6.55	160.24	11.91	--	--	--	--	--	--	160.24	11.91
<b>Noncorporate private:</b>														
Total, noncorporate private	97.91	9.11	164.03	12.06	261.94	14.94	--	--	--	--	--	--	261.94	14.94
<b>All private</b>	212.18	13.12	210.00	13.53	422.17	18.53	--	--	--	--	--	--	422.17	18.53
<b>All owners</b>	484.10	18.42	304.53	16.56	788.62	24.27	150.57	10.00	59.04	7.57	209.61	12.27	998.23	26.72

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C33: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: North Coast**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>1</sup>		Total		Productive <sup>1</sup>		Other forest <sup>1</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	2.62	1.39	1.11	1.06	3.73	1.75	1.36	1.04	--	--	1.36	1.04	5.09	2.04
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	2.62	1.39	1.11	1.06	3.73	1.75	1.36	1.04	--	--	1.36	1.04	5.09	2.04
<b>Other federal government:</b>														
Bureau of Land Management	4.39	1.92	--	--	4.39	1.92	8.88	2.89	--	--	8.88	2.89	13.27	3.51
Department of Defense and Energy	2.86	1.77	0.02	0.02	2.88	1.77	--	--	--	--	--	--	2.88	1.77
National Park Service	--	--	--	--	--	--	5.43	2.13	1.12	1.08	6.55	2.34	6.55	2.34
U.S. Fish and Wildlife Service	--	--	--	--	--	--	0.50	0.51	--	--	0.50	0.51	0.50	0.51
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	7.25	2.61	0.02	0.02	7.27	2.61	14.81	3.58	1.12	1.08	15.93	3.65	23.20	4.48
<b>State and local government:</b>														
Local	2.02	1.00	1.19	0.86	3.21	1.53	--	--	7.34	3.02	7.34	3.02	10.55	3.39
State	5.80	1.93	0.30	0.28	6.10	1.95	22.14	4.25	1.47	1.18	23.61	4.41	29.72	4.39
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	7.82	2.15	1.49	0.90	9.32	2.46	22.14	4.25	8.82	3.25	30.96	5.35	40.27	5.49
<b>Private:</b>														
Corporate	160.53	10.81	4.95	2.03	165.47	10.98	--	--	--	--	--	--	165.47	10.98
<b>Noncorporate private:</b>														
Total, noncorporate private	114.45	9.76	25.29	4.56	139.73	10.71	--	--	--	--	--	--	139.73	10.71
<b>All private</b>	274.97	13.71	30.23	4.98	305.21	14.44	--	--	--	--	--	--	305.21	14.44
<b>All owners</b>	292.67	14.11	32.85	5.17	325.52	14.91	38.32	5.65	9.93	3.42	48.25	6.56	373.77	16.03

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C34: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>1</sup>		Total		Productive <sup>1</sup>		Other forest <sup>1</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	500.74	16.09	150.14	13.53	650.89	19.96	100.16	7.58	88.72	9.47	188.88	11.49	839.77	22.62
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>500.74</b>	<b>16.09</b>	<b>150.14</b>	<b>13.53</b>	<b>650.89</b>	<b>19.96</b>	<b>100.16</b>	<b>7.58</b>	<b>88.72</b>	<b>9.47</b>	<b>188.88</b>	<b>11.49</b>	<b>839.77</b>	<b>22.62</b>
<b>Other federal government:</b>														
Bureau of Land Management	10.88	3.15	43.68	6.85	54.56	7.48	0.42	0.36	16.51	4.28	16.94	4.29	71.49	8.47
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	69.30	5.67	32.96	5.87	102.26	7.94	102.26	7.94
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	3.20	1.70	3.20	1.70	--	--	0.31	0.32	0.31	0.32	3.51	1.73
<b>Total</b>	<b>10.88</b>	<b>3.15</b>	<b>46.88</b>	<b>7.04</b>	<b>57.75</b>	<b>7.66</b>	<b>69.72</b>	<b>5.68</b>	<b>49.78</b>	<b>7.15</b>	<b>119.50</b>	<b>8.85</b>	<b>177.26</b>	<b>11.07</b>
<b>State and local government:</b>														
Local	3.30	1.64	11.32	3.52	14.62	3.88	--	--	0.98	0.83	0.98	0.83	15.60	3.97
State	1.31	0.67	4.59	2.28	5.90	2.37	5.30	1.74	10.07	3.19	15.37	3.62	21.27	4.26
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>4.61</b>	<b>1.77</b>	<b>15.91</b>	<b>4.19</b>	<b>20.51</b>	<b>4.54</b>	<b>5.30</b>	<b>1.74</b>	<b>11.05</b>	<b>3.30</b>	<b>16.35</b>	<b>3.71</b>	<b>36.87</b>	<b>5.81</b>
<b>Private:</b>														
Corporate	222.89	14.00	54.92	7.25	277.81	15.65	--	--	--	--	--	--	277.81	15.65
<b>Noncorporate private:</b>														
Total, noncorporate private	90.05	8.11	339.28	17.70	429.33	19.20	--	--	--	--	--	--	429.33	19.20
<b>All private</b>	<b>312.94</b>	<b>15.55</b>	<b>394.20</b>	<b>18.63</b>	<b>707.14</b>	<b>23.38</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>707.14</b>	<b>23.38</b>
<b>All owners</b>	<b>829.17</b>	<b>22.52</b>	<b>607.12</b>	<b>24.33</b>	<b>1,436.29</b>	<b>31.69</b>	<b>175.19</b>	<b>9.61</b>	<b>149.56</b>	<b>12.31</b>	<b>324.74</b>	<b>14.92</b>	<b>1,761.03</b>	<b>34.28</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C35: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>1</sup>		Total		Productive <sup>1</sup>		Other forest <sup>1</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	17.03	3.85	59.61	7.45	76.64	8.40	13.43	3.52	24.12	5.05	38.67	6.15	115.31	10.36
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	17.03	3.85	59.61	7.45	76.64	8.40	13.43	3.52	24.12	5.05	38.67	6.15	115.31	10.36
<b>Other federal government:</b>														
Bureau of Land Management	--	--	4.59	2.05	4.59	2.05	--	--	4.08	2.06	4.08	2.06	8.67	2.90
Department of Defense and Energy	0.41	0.42	0.50	0.51	0.91	0.66	--	--	--	--	--	--	0.91	0.66
National Park Service	--	--	--	--	--	--	--	--	16.70	4.18	16.70	4.18	16.70	4.18
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	3.78	2.02	3.78	2.02	--	--	0.24	0.24	0.24	0.24	4.02	2.04
Total	0.41	0.42	8.88	2.92	9.29	2.95	--	--	21.01	4.64	21.01	4.64	30.30	5.49
<b>State and local government:</b>														
Local	--	--	3.21	1.63	3.21	1.63	--	--	0.51	0.50	0.51	0.50	3.72	1.69
State	--	--	--	--	--	--	1.15	0.96	8.11	2.95	9.26	3.09	9.26	3.09
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	3.21	1.63	3.21	1.63	1.15	0.96	8.62	2.99	9.77	3.13	12.98	3.52
<b>Private:</b>														
Corporate	0.26	0.25	9.46	3.31	9.72	3.32	--	--	--	--	--	--	9.72	3.32
<b>Noncorporate private:</b>														
Total, noncorporate private	2.52	1.54	35.93	5.71	38.45	5.97	--	--	--	--	--	--	38.45	5.97
<b>All private</b>	2.78	1.57	45.39	6.60	48.17	6.82	--	--	--	--	--	--	48.17	6.82
<b>All owners</b>	20.22	4.18	117.09	10.46	137.31	11.30	14.58	3.64	53.74	7.48	69.45	8.32	206.76	13.98

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C36: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: All California**

*\*information combined with information from Table C45 in Table C44.9*

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	72,716	1,573	5,023	411	77,739	1,543	24,157	1,115	3,373	332	27,530	1,112	105,268	1,718
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>72,716</b>	<b>1,573</b>	<b>5,023</b>	<b>411</b>	<b>77,739</b>	<b>1,543</b>	<b>24,157</b>	<b>1,115</b>	<b>3,373</b>	<b>332</b>	<b>27,530</b>	<b>1,112</b>	<b>105,268</b>	<b>1,718</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,851	426	1,340	195	3,191	465	683	227	268	66	951	236	4,142	515
Department of Defense and Energy	52	38	179	59	231	70	--	--	24	25	24	25	255	74
National Park Service	--	--	--	--	--	--	10,621	1,006	1,361	242	11,982	1,023	11,982	1,023
U.S. Fish and Wildlife Service	--	--	--	--	--	--	5	5	2	3	8	6	8	6
Other federal	--	--	54	22	54	22	--	--	13	10	13	10	67	25
<b>Total</b>	<b>1,903</b>	<b>427</b>	<b>1,573</b>	<b>204</b>	<b>3,476</b>	<b>469</b>	<b>11,310</b>	<b>1,020</b>	<b>1,668</b>	<b>249</b>	<b>12,978</b>	<b>1,035</b>	<b>16,453</b>	<b>1,067</b>
<b>State and local government:</b>														
Local	621	226	361	90	982	243	739	292	618	140	1,357	316	2,338	397
State	1,525	397	148	84	1,672	399	5,584	1,198	854	224	6,438	1,213	8,110	1,145
Other public	--	--	--	--	--	--	69	77	8	9	77	77	77	77
<b>Total</b>	<b>2,146</b>	<b>448</b>	<b>508</b>	<b>123</b>	<b>2,654</b>	<b>458</b>	<b>6,391</b>	<b>1,230</b>	<b>1,480</b>	<b>261</b>	<b>7,871</b>	<b>1,247</b>	<b>10,525</b>	<b>1,183</b>
<b>Private:</b>														
Corporate	32,630	1,248	2,694	293	35,324	1,267	--	--	--	--	--	--	35,324	1,267
<b>Noncorporate private:</b>														
Total, noncorporate private	25,554	1,310	10,568	457	36,122	1,338	--	--	--	--	--	--	36,122	1,338
<b>All private</b>	<b>58,184</b>	<b>1,470</b>	<b>13,262</b>	<b>525</b>	<b>71,446</b>	<b>1,450</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>71,446</b>	<b>1,450</b>
<b>All owners</b>	<b>134,949</b>	<b>2,194</b>	<b>20,365</b>	<b>706</b>	<b>155,314</b>	<b>2,159</b>	<b>41,858</b>	<b>1,946</b>	<b>6,521</b>	<b>490</b>	<b>48,379</b>	<b>1,962</b>	<b>203,693</b>	<b>2,618</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C37: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	1	1	126	62	127	62	490	308	292	106	783	331	910	337
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1</b>	<b>1</b>	<b>126</b>	<b>62</b>	<b>127</b>	<b>62</b>	<b>490</b>	<b>308</b>	<b>292</b>	<b>106</b>	<b>783</b>	<b>331</b>	<b>910</b>	<b>337</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	30	12	30	12	--	--	3	2	3	2	32	12
Department of Defense and Energy	--	--	144	56	144	56	--	--	--	--	--	--	144	56
National Park Service	--	--	--	--	--	--	--	--	37	41	37	41	37	41
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	8	9	8	9	--	--	--	--	--	--	8	9
<b>Total</b>	<b>--</b>	<b>--</b>	<b>181</b>	<b>58</b>	<b>181</b>	<b>58</b>	<b>--</b>	<b>--</b>	<b>40</b>	<b>41</b>	<b>40</b>	<b>41</b>	<b>221</b>	<b>71</b>
<b>State and local government:</b>														
Local	--	--	127	61	127	61	739	292	391	103	1,130	302	1,257	307
State	278	184	18	11	297	187	983	441	359	93	1,342	451	1,639	483
Other public	--	--	--	--	--	--	69	77	8	9	77	77	77	77
<b>Total</b>	<b>278</b>	<b>184</b>	<b>146</b>	<b>62</b>	<b>424</b>	<b>197</b>	<b>1,790</b>	<b>531</b>	<b>759</b>	<b>136</b>	<b>2,549</b>	<b>541</b>	<b>2,973</b>	<b>565</b>
<b>Private:</b>														
Corporate	518	223	618	150	1,137	268	--	--	--	--	--	--	1,137	268
<b>Noncorporate private:</b>														
Total, noncorporate private	2,726	570	2,061	208	4,787	604	--	--	--	--	--	--	4,787	604
<b>All private</b>	<b>3,244</b>	<b>610</b>	<b>2,679</b>	<b>254</b>	<b>5,923</b>	<b>657</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>5,923</b>	<b>657</b>
<b>All owners</b>	<b>3,524</b>	<b>641</b>	<b>3,132</b>	<b>275</b>	<b>6,656</b>	<b>694</b>	<b>2,281</b>	<b>614</b>	<b>1,091</b>	<b>176</b>	<b>3,371</b>	<b>635</b>	<b>10,027</b>	<b>943</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C38: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: Central Valley**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other federal government:</b>														
Bureau of Land Management	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	2	3	2	3	2	3
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	2	3	2	3	2	3
<b>State and local government:</b>														
Local	--	--	16	14	16	14	--	--	--	--	--	--	16	14
State	--	--	--	--	--	--	--	--	27	27	27	27	27	27
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	16	14	16	14	--	--	27	27	27	27	42	31
<b>Private:</b>														
Corporate	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	--	--	197	71	197	71	--	--	--	--	--	--	197	71
<b>All private</b>	--	--	197	71	197	71	--	--	--	--	--	--	197	71
<b>All owners</b>	--	--	213	72	213	72	--	--	29	27	29	27	242	77

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C39: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: Eastside**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	2,498	277	844	114	3,342	299	327	148	300	101	627	178	3,969	348
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>2,498</b>	<b>277</b>	<b>844</b>	<b>114</b>	<b>3,342</b>	<b>299</b>	<b>327</b>	<b>148</b>	<b>300</b>	<b>101</b>	<b>627</b>	<b>178</b>	<b>3,969</b>	<b>348</b>
<b>Other federal government:</b>														
Bureau of Land Management	50	24	324	49	374	55	--	--	68	28	68	28	442	60
Department of Defense and Energy	--	--	23	13	23	13	--	--	--	--	--	--	23	13
National Park Service	--	--	--	--	--	--	--	--	75	28	75	28	75	28
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>50</b>	<b>24</b>	<b>347</b>	<b>51</b>	<b>397</b>	<b>56</b>	<b>--</b>	<b>--</b>	<b>144</b>	<b>39</b>	<b>144</b>	<b>39</b>	<b>541</b>	<b>66</b>
<b>State and local government:</b>														
Local	--	--	12	12	12	12	--	--	--	--	--	--	12	12
State	--	--	--	--	--	--	28	31	8	7	37	32	37	32
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>28</b>	<b>31</b>	<b>8</b>	<b>7</b>	<b>37</b>	<b>32</b>	<b>49</b>	<b>34</b>
<b>Private:</b>														
Corporate	578	121	48	18	626	122	--	--	--	--	--	--	626	122
<b>Noncorporate private:</b>														
Total, noncorporate private	238	79	99	28	337	84	--	--	--	--	--	--	337	84
<b>All private</b>	<b>816</b>	<b>144</b>	<b>148</b>	<b>33</b>	<b>963</b>	<b>148</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>963</b>	<b>148</b>
<b>All owners</b>	<b>3,363</b>	<b>316</b>	<b>1,351</b>	<b>130</b>	<b>4,714</b>	<b>341</b>	<b>355</b>	<b>151</b>	<b>452</b>	<b>108</b>	<b>807</b>	<b>185</b>	<b>5,521</b>	<b>388</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C40: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	27,195	1,410	1,729	293	28,923	1,425	12,506	852	857	185	13,362	865	42,286	1,623
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>27,195</b>	<b>1,410</b>	<b>1,729</b>	<b>293</b>	<b>28,923</b>	<b>1,425</b>	<b>12,506</b>	<b>852</b>	<b>857</b>	<b>185</b>	<b>13,362</b>	<b>865</b>	<b>42,286</b>	<b>1,623</b>
<b>Other federal government:</b>														
Bureau of Land Management	850	250	570	149	1,420	291	97	96	77	48	173	107	1,593	309
Department of Defense and Energy	--	--	--	--	--	--	--	--	24	25	24	25	24	25
National Park Service	--	--	--	--	--	--	1,614	696	140	69	1,754	700	1,754	700
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	7	4	7	4	--	--	3	3	3	3	9	5
<b>Total</b>	<b>850</b>	<b>250</b>	<b>576</b>	<b>149</b>	<b>1,426</b>	<b>291</b>	<b>1,710</b>	<b>701</b>	<b>243</b>	<b>88</b>	<b>1,954</b>	<b>707</b>	<b>3,380</b>	<b>757</b>
<b>State and local government:</b>														
Local	94	81	28	19	122	83	--	--	21	21	21	21	143	86
State	103	62	16	12	119	64	111	100	88	57	199	127	318	142
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>197</b>	<b>102</b>	<b>44</b>	<b>23</b>	<b>241</b>	<b>105</b>	<b>111</b>	<b>100</b>	<b>109</b>	<b>61</b>	<b>220</b>	<b>128</b>	<b>461</b>	<b>166</b>
<b>Private:</b>														
Corporate	5,977	566	823	145	6,799	587	--	--	--	--	--	--	6,799	587
<b>Noncorporate private:</b>														
Total, noncorporate private	7,271	770	2,937	264	10,208	810	--	--	--	--	--	--	10,208	810
<b>All private</b>	<b>13,247</b>	<b>928</b>	<b>3,760</b>	<b>299</b>	<b>17,007</b>	<b>970</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>17,007</b>	<b>970</b>
<b>All owners</b>	<b>41,489</b>	<b>1,713</b>	<b>6,109</b>	<b>446</b>	<b>47,598</b>	<b>1,755</b>	<b>14,327</b>	<b>1,107</b>	<b>1,209</b>	<b>214</b>	<b>15,536</b>	<b>1,123</b>	<b>63,134</b>	<b>2,043</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C41: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: North Coast**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	300	197	9	8	309	197	455	353	--	--	455	353	764	403
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>300</b>	<b>197</b>	<b>9</b>	<b>8</b>	<b>309</b>	<b>197</b>	<b>455</b>	<b>353</b>	<b>--</b>	<b>--</b>	<b>455</b>	<b>353</b>	<b>764</b>	<b>403</b>
<b>Other federal government:</b>														
Bureau of Land Management	540	312	--	--	540	312	525	198	--	--	525	198	1,066	370
Department of Defense and Energy	51	38	--	--	51	38	--	--	--	--	--	--	51	38
National Park Service	--	--	--	--	--	--	1,098	482	25	19	1,123	482	1,123	482
U.S. Fish and Wildlife Service	--	--	--	--	--	--	5	5	--	--	5	5	5	5
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>592</b>	<b>314</b>	<b>--</b>	<b>--</b>	<b>592</b>	<b>314</b>	<b>1,629</b>	<b>517</b>	<b>25</b>	<b>19</b>	<b>1,654</b>	<b>517</b>	<b>2,246</b>	<b>601</b>
<b>State and local government:</b>														
Local	330	187	4	4	334	187	--	--	127	61	127	61	461	197
State	910	327	1	1	911	327	3,760	1,195	203	189	3,963	1,209	4,874	1,192
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1,240</b>	<b>369</b>	<b>5</b>	<b>4</b>	<b>1,245</b>	<b>369</b>	<b>3,760</b>	<b>1,195</b>	<b>330</b>	<b>198</b>	<b>4,090</b>	<b>1,211</b>	<b>5,335</b>	<b>1,199</b>
<b>Private:</b>														
Corporate	13,842	1,079	161	67	14,003	1,081	--	--	--	--	--	--	14,003	1,081
<b>Noncorporate private:</b>														
Total, noncorporate private	9,749	898	831	182	10,580	913	--	--	--	--	--	--	10,580	913
<b>All private</b>	<b>23,591</b>	<b>1,327</b>	<b>992</b>	<b>194</b>	<b>24,583</b>	<b>1,336</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>24,583</b>	<b>1,336</b>
<b>All owners</b>	<b>25,723</b>	<b>1,419</b>	<b>1,006</b>	<b>194</b>	<b>26,729</b>	<b>1,427</b>	<b>5,843</b>	<b>1,349</b>	<b>355</b>	<b>199</b>	<b>6,198</b>	<b>1,363</b>	<b>32,927</b>	<b>1,923</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C42: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	42,252	1,441	1,849	257	44,101	1,438	10,026	829	1,626	233	11,652	839	55,753	1,616
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>42,252</b>	<b>1,441</b>	<b>1,849</b>	<b>257</b>	<b>44,101</b>	<b>1,438</b>	<b>10,026</b>	<b>829</b>	<b>1,626</b>	<b>233</b>	<b>11,652</b>	<b>839</b>	<b>55,753</b>	<b>1,616</b>
<b>Other federal government:</b>														
Bureau of Land Management	411	158	409	119	820	198	61	55	113	35	175	65	994	207
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	7,909	681	1,053	226	8,963	706	8,963	706
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	35	20	35	20	--	--	9	10	9	10	45	22
<b>Total</b>	<b>411</b>	<b>158</b>	<b>444</b>	<b>121</b>	<b>855</b>	<b>199</b>	<b>7,970</b>	<b>683</b>	<b>1,176</b>	<b>228</b>	<b>9,147</b>	<b>707</b>	<b>10,002</b>	<b>719</b>
<b>State and local government:</b>														
Local	197	98	145	59	342	114	--	--	79	70	79	70	420	134
State	233	147	112	82	346	166	679	285	141	52	819	289	1,165	320
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>430</b>	<b>176</b>	<b>257</b>	<b>101</b>	<b>687</b>	<b>201</b>	<b>679</b>	<b>285</b>	<b>219</b>	<b>87</b>	<b>898</b>	<b>297</b>	<b>1,585</b>	<b>347</b>
<b>Private:</b>														
Corporate	11,684	740	1,018	195	12,702	759	--	--	--	--	--	--	12,702	759
<b>Noncorporate private:</b>														
Total, noncorporate private	5,521	515	4,013	275	9,534	572	--	--	--	--	--	--	9,534	572
<b>All private</b>	<b>17,205</b>	<b>853</b>	<b>5,031</b>	<b>331</b>	<b>22,236</b>	<b>883</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>22,236</b>	<b>883</b>
<b>All owners</b>	<b>60,298</b>	<b>1,677</b>	<b>7,581</b>	<b>446</b>	<b>67,879</b>	<b>1,691</b>	<b>18,675</b>	<b>1,112</b>	<b>3,022</b>	<b>338</b>	<b>21,697</b>	<b>1,136</b>	<b>89,576</b>	<b>1,948</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C43: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	471	137	465	89	936	164	354	112	297	92	651	145	1,587	219
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>471</b>	<b>137</b>	<b>465</b>	<b>89</b>	<b>936</b>	<b>164</b>	<b>354</b>	<b>112</b>	<b>297</b>	<b>92</b>	<b>651</b>	<b>145</b>	<b>1,587</b>	<b>219</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	7	5	7	5	--	--	7	4	7	4	14	7
Department of Defense and Energy		1	12	12	12	12	--	--	--	--	--	--	12	12
National Park Service	--	--	--	--	--	--	--	--	30	12	30	12	30	12
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	4	3	4	3	--	--	--	--	--	--	5	3
<b>Total</b>		<b>1</b>	<b>24</b>	<b>14</b>	<b>24</b>	<b>14</b>	<b>--</b>	<b>--</b>	<b>38</b>	<b>13</b>	<b>38</b>	<b>13</b>	<b>62</b>	<b>18</b>
<b>State and local government:</b>														
Local	--	--	29	18	29	18	--	--	1	1	1	1	30	18
State	--	--	--	--	--	--	23	30	28	15	51	33	51	33
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>29</b>	<b>18</b>	<b>29</b>	<b>18</b>	<b>23</b>	<b>30</b>	<b>28</b>	<b>15</b>	<b>51</b>	<b>33</b>	<b>80</b>	<b>38</b>
<b>Private:</b>														
Corporate	32	32	26	14	58	35	--	--	--	--	--	--	58	35
<b>Noncorporate private:</b>														
Total, noncorporate private	49	38	430	125	479	132	--	--	--	--	--	--	479	132
<b>All private</b>	<b>81</b>	<b>50</b>	<b>456</b>	<b>126</b>	<b>537</b>	<b>137</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>537</b>	<b>137</b>
<b>All owners</b>	<b>552</b>	<b>146</b>	<b>974</b>	<b>155</b>	<b>1,526</b>	<b>215</b>	<b>377</b>	<b>116</b>	<b>363</b>	<b>94</b>	<b>740</b>	<b>149</b>	<b>2,266</b>	<b>261</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C44.1: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) and Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2001 - 2010**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	79,305	1,859	6,619	459	85,924	1,851	26,253	1,437	3,861	364	30,114	1,465	116,038	1,805
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>79,305</b>	<b>1,859</b>	<b>6,619</b>	<b>459</b>	<b>85,924</b>	<b>1,851</b>	<b>26,253</b>	<b>1,437</b>	<b>3,861</b>	<b>364</b>	<b>30,114</b>	<b>1,465</b>	<b>116,038</b>	<b>1,805</b>
<b>Other federal government:</b>														
Bureau of Land Management	2,199	386	1,309	177	3,508	420	244	123	315	58	559	136	4,067	436
Department of Defense and Energy	26	28	158	53	184	60	--	--	--	--	--	--	184	60
National Park Service	--	--	--	--	--	--	11,895	1,186	1,423	237	13,318	1,170	13,318	1,170
U.S. Fish and Wildlife Service	--	--	--	--	--	--	13	16	--	--	13	16	13	16
Other federal	--	--	118	57	118	57	274	197	76	62	350	206	469	214
<b>Total</b>	<b>2,225</b>	<b>387</b>	<b>1,585</b>	<b>192</b>	<b>3,810</b>	<b>425</b>	<b>12,426</b>	<b>1,203</b>	<b>1,814</b>	<b>249</b>	<b>14,240</b>	<b>1,185</b>	<b>18,050</b>	<b>1,231</b>
<b>State and local government:</b>														
Local	329	158	410	119	739	199	539	249	741	162	1,280	296	2,019	356
State	1,334	399	118	60	1,453	403	6,315	1,415	1,078	255	7,393	1,436	8,846	1,450
Other public	--	--	5	4	5	4	95	85	9	9	104	86	109	86
<b>Total</b>	<b>1,663</b>	<b>428</b>	<b>533</b>	<b>133</b>	<b>2,196</b>	<b>449</b>	<b>6,950</b>	<b>1,438</b>	<b>1,828</b>	<b>300</b>	<b>8,778</b>	<b>1,466</b>	<b>10,974</b>	<b>1,491</b>
<b>Private:</b>														
Corporate	28,810	1,174	1,381	183	30,191	1,183	--	--	--	--	--	--	30,191	1,183
<b>Noncorporate private:</b>														
Total, noncorporate private	28,341	1,358	12,639	512	40,981	1,402	--	--	--	--	--	--	40,981	1,402
<b>All private</b>	<b>57,151</b>	<b>1,472</b>	<b>14,020</b>	<b>532</b>	<b>71,172</b>	<b>1,474</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>71,172</b>	<b>1,474</b>
<b>All owners</b>	<b>140,344</b>	<b>2,409</b>	<b>22,758</b>	<b>735</b>	<b>163,102</b>	<b>2,405</b>	<b>45,628</b>	<b>2,267</b>	<b>7,503</b>	<b>533</b>	<b>53,132</b>	<b>2,291</b>	<b>216,234</b>	<b>2,775</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C44.2: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) and Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2002 - 2011**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	80,880	1,892	6,536	463	87,417	1,885	26,669	1,461	3,964	374	30,633	1,490	118,049	1,842
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>80,880</b>	<b>1,892</b>	<b>6,536</b>	<b>463</b>	<b>87,417</b>	<b>1,885</b>	<b>26,669</b>	<b>1,461</b>	<b>3,964</b>	<b>374</b>	<b>30,633</b>	<b>1,490</b>	<b>118,049</b>	<b>1,842</b>
<b>Other federal government:</b>														
Bureau of Land Management	2,203	388	1,279	175	3,482	422	252	130	312	57	564	142	4,046	441
Department of Defense and Energy	28	30	166	53	194	61	--	--	--	--	--	--	194	61
National Park Service	--	--	--	--	--	--	12,119	1,199	1,442	239	13,561	1,182	13,561	1,182
U.S. Fish and Wildlife Service	--	--	--	--	--	--	13	16	--	--	13	16	13	16
Other federal	--	--	117	57	117	57	273	197	76	63	349	206	467	214
<b>Total</b>	<b>2,231</b>	<b>389</b>	<b>1,563</b>	<b>190</b>	<b>3,794</b>	<b>428</b>	<b>12,657</b>	<b>1,216</b>	<b>1,831</b>	<b>251</b>	<b>14,488</b>	<b>1,198</b>	<b>18,282</b>	<b>1,244</b>
<b>State and local government:</b>														
Local	300	152	419	121	719	196	549	254	750	164	1,298	302	2,017	359
State	1,332	397	139	79	1,470	405	6,416	1,421	1,130	260	7,545	1,442	9,016	1,457
Other public	--	--	5	4	5	4	98	87	7	8	106	87	110	87
<b>Total</b>	<b>1,632</b>	<b>425</b>	<b>562</b>	<b>144</b>	<b>2,194</b>	<b>449</b>	<b>7,063</b>	<b>1,445</b>	<b>1,887</b>	<b>306</b>	<b>8,949</b>	<b>1,473</b>	<b>11,143</b>	<b>1,499</b>
<b>Private:</b>														
Corporate	28,371	1,177	1,737	219	30,108	1,190	--	--	--	--	--	--	30,108	1,190
<b>Noncorporate private:</b>														
Total, noncorporate private	28,668	1,378	12,207	498	40,875	1,420	--	--	--	--	--	--	40,875	1,420
<b>All private</b>	<b>57,039</b>	<b>1,505</b>	<b>13,944</b>	<b>530</b>	<b>70,983</b>	<b>1,505</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>70,983</b>	<b>1,505</b>
<b>All owners</b>	<b>141,782</b>	<b>2,437</b>	<b>22,606</b>	<b>738</b>	<b>164,387</b>	<b>2,432</b>	<b>46,389</b>	<b>2,296</b>	<b>7,682</b>	<b>544</b>	<b>54,070</b>	<b>2,321</b>	<b>218,458</b>	<b>2,798</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C44.3: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) and Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2003 - 2012**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	80,445	1,679	6,000	437	86,445	1,640	27,445	1,231	4,236	387	31,681	1,218	118,125	1,814
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>80,445</b>	<b>1,679</b>	<b>6,000</b>	<b>437</b>	<b>86,445</b>	<b>1,640</b>	<b>27,445</b>	<b>1,231</b>	<b>4,236</b>	<b>387</b>	<b>31,681</b>	<b>1,218</b>	<b>118,125</b>	<b>1,814</b>
<b>Other federal government:</b>														
Bureau of Land Management	2,378	404	1,346	188	3,725	442	311	147	260	60	571	159	4,295	465
Department of Defense and Energy	48	38	150	51	198	63	--	--	23	24	23	24	221	68
National Park Service	--	--	--	--	--	--	12,095	1,096	1,472	259	13,567	1,110	13,567	1,110
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	136	58	136	58	122	128	80	65	202	144	338	154
<b>Total</b>	<b>2,427</b>	<b>404</b>	<b>1,632</b>	<b>203</b>	<b>4,059</b>	<b>448</b>	<b>12,527</b>	<b>1,097</b>	<b>1,835</b>	<b>270</b>	<b>14,363</b>	<b>1,111</b>	<b>18,421</b>	<b>1,127</b>
<b>State and local government:</b>														
Local	342	164	364	108	706	198	657	280	669	150	1,326	309	2,031	364
State	1,368	392	148	87	1,516	393	5,837	1,233	971	235	6,808	1,248	8,324	1,163
Other public	--	--	5	4	5	4	66	76	9	9	74	76	79	77
<b>Total</b>	<b>1,710</b>	<b>424</b>	<b>516</b>	<b>138</b>	<b>2,226</b>	<b>439</b>	<b>6,560</b>	<b>1,263</b>	<b>1,649</b>	<b>273</b>	<b>8,209</b>	<b>1,279</b>	<b>10,434</b>	<b>1,206</b>
<b>Private:</b>														
Corporate	28,711	1,150	1,773	221	30,484	1,163	--	--	--	--	--	--	30,484	1,163
<b>Noncorporate private:</b>														
Total, noncorporate private	29,105	1,397	11,849	488	40,954	1,427	--	--	--	--	--	--	40,954	1,427
<b>All private</b>	<b>57,816</b>	<b>1,469</b>	<b>13,622</b>	<b>524</b>	<b>71,438</b>	<b>1,456</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>71,438</b>	<b>1,456</b>
<b>All owners</b>	<b>142,397</b>	<b>2,250</b>	<b>21,771</b>	<b>723</b>	<b>164,167</b>	<b>2,211</b>	<b>46,532</b>	<b>2,074</b>	<b>7,720</b>	<b>544</b>	<b>54,252</b>	<b>2,082</b>	<b>218,419</b>	<b>2,695</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C44.4: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) and Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2004 - 2013**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	81,090	1,690	5,870	437	86,960	1,650	27,624	1,243	4,258	393	31,881	1,226	118,841	1,831
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>81,090</b>	<b>1,690</b>	<b>5,870</b>	<b>437</b>	<b>86,960</b>	<b>1,650</b>	<b>27,624</b>	<b>1,243</b>	<b>4,258</b>	<b>393</b>	<b>31,881</b>	<b>1,226</b>	<b>118,841</b>	<b>1,831</b>
<b>Other federal government:</b>														
Bureau of Land Management	2,383	410	1,347	189	3,729	447	386	161	282	61	668	172	4,397	474
Department of Defense and Energy	48	38	153	52	202	64	--	--	23	24	23	24	225	68
National Park Service	--	--	--	--	--	--	12,376	1,115	1,524	267	13,901	1,131	13,901	1,131
U.S. Fish and Wildlife Service	--	--	--	--	--	--	7	8	3	3	10	8	10	8
Other federal	--	--	102	31	102	31	--	--	15	10	15	10	118	33
<b>Total</b>	<b>2,431</b>	<b>410</b>	<b>1,602</b>	<b>198</b>	<b>4,033</b>	<b>451</b>	<b>12,770</b>	<b>1,117</b>	<b>1,848</b>	<b>272</b>	<b>14,617</b>	<b>1,132</b>	<b>18,651</b>	<b>1,147</b>
<b>State and local government:</b>														
Local	353	168	392	110	745	203	692	278	663	147	1,355	307	2,101	366
State	1,394	400	148	87	1,542	400	5,773	1,232	959	235	6,732	1,246	8,274	1,161
Other public	--	--	5	4	5	4	71	79	9	9	80	80	84	80
<b>Total</b>	<b>1,748</b>	<b>432</b>	<b>544</b>	<b>140</b>	<b>2,292</b>	<b>447</b>	<b>6,537</b>	<b>1,261</b>	<b>1,631</b>	<b>272</b>	<b>8,167</b>	<b>1,277</b>	<b>10,459</b>	<b>1,204</b>
<b>Private:</b>														
Corporate	29,541	1,178	1,959	239	31,500	1,193	--	--	--	--	--	--	31,500	1,193
<b>Noncorporate private:</b>														
Total, noncorporate private	29,157	1,411	11,737	480	40,894	1,437	--	--	--	--	--	--	40,894	1,437
<b>All private</b>	<b>58,697</b>	<b>1,488</b>	<b>13,696</b>	<b>523</b>	<b>72,394</b>	<b>1,471</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>72,394</b>	<b>1,471</b>
<b>All owners</b>	<b>143,966</b>	<b>2,274</b>	<b>21,712</b>	<b>721</b>	<b>165,679</b>	<b>2,232</b>	<b>46,930</b>	<b>2,091</b>	<b>7,736</b>	<b>549</b>	<b>54,666</b>	<b>2,098</b>	<b>220,345</b>	<b>2,720</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C44.5: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) and Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2005 - 2014**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	81,745	1,689	5,768	436	87,513	1,646	28,293	1,258	4,214	392	32,507	1,236	120,020	1,841
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>81,745</b>	<b>1,689</b>	<b>5,768</b>	<b>436</b>	<b>87,513</b>	<b>1,646</b>	<b>28,293</b>	<b>1,258</b>	<b>4,214</b>	<b>392</b>	<b>32,507</b>	<b>1,236</b>	<b>120,020</b>	<b>1,841</b>
<b>Other federal government:</b>														
Bureau of Land Management	2,531	485	1,351	190	3,882	517	496	182	264	60	760	192	4,642	544
Department of Defense and Energy	48	38	162	58	210	69	--	--	23	24	23	24	234	73
National Park Service	--	--	--	--	--	--	12,522	1,113	1,509	267	14,031	1,130	14,031	1,130
U.S. Fish and Wildlife Service	--	--	--	--	--	--	7	8	3	3	10	8	10	8
Other federal	--	--	102	31	102	31	--	--	15	10	15	10	117	32
<b>Total</b>	<b>2,579</b>	<b>486</b>	<b>1,615</b>	<b>200</b>	<b>4,194</b>	<b>521</b>	<b>13,026</b>	<b>1,117</b>	<b>1,814</b>	<b>272</b>	<b>14,840</b>	<b>1,132</b>	<b>19,034</b>	<b>1,161</b>
<b>State and local government:</b>														
Local	498	192	420	112	918	224	693	278	659	144	1,352	304	2,271	376
State	1,476	405	158	87	1,634	406	5,797	1,223	964	234	6,761	1,237	8,395	1,151
Other public	--	--	5	4	5	4	71	79	9	9	80	80	84	80
<b>Total</b>	<b>1,974</b>	<b>446</b>	<b>583</b>	<b>142</b>	<b>2,557</b>	<b>462</b>	<b>6,561</b>	<b>1,251</b>	<b>1,632</b>	<b>270</b>	<b>8,193</b>	<b>1,267</b>	<b>10,750</b>	<b>1,197</b>
<b>Private:</b>														
Corporate	29,947	1,176	2,127	248	32,073	1,193	--	--	--	--	--	--	32,073	1,193
<b>Noncorporate private:</b>														
Total, noncorporate private	28,676	1,391	11,817	483	40,493	1,419	--	--	--	--	--	--	40,493	1,419
<b>All private</b>	<b>58,623</b>	<b>1,464</b>	<b>13,943</b>	<b>528</b>	<b>72,566</b>	<b>1,446</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>72,566</b>	<b>1,446</b>
<b>All owners</b>	<b>144,922</b>	<b>2,276</b>	<b>21,908</b>	<b>725</b>	<b>166,830</b>	<b>2,232</b>	<b>47,879</b>	<b>2,094</b>	<b>7,661</b>	<b>548</b>	<b>55,540</b>	<b>2,097</b>	<b>222,370</b>	<b>2,723</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C44.6: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) and Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2006 - 2015**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	82,029	1,690	5,675	434	87,704	1,647	28,520	1,251	4,027	374	32,547	1,233	120,251	1,840
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>82,029</b>	<b>1,690</b>	<b>5,675</b>	<b>434</b>	<b>87,704</b>	<b>1,647</b>	<b>28,520</b>	<b>1,251</b>	<b>4,027</b>	<b>374</b>	<b>32,547</b>	<b>1,233</b>	<b>120,251</b>	<b>1,840</b>
<b>Other federal government:</b>														
Bureau of Land Management	2,516	475	1,311	187	3,827	506	629	229	294	69	923	239	4,751	553
Department of Defense and Energy	48	38	168	58	216	70	--	--	24	25	24	25	240	74
National Park Service	--	--	--	--	--	--	12,645	1,117	1,503	268	14,148	1,135	14,148	1,135
U.S. Fish and Wildlife Service	--	--	--	--	--	--	7	8	3	3	10	8	10	8
Other federal	--	--	105	31	105	31	--	--	16	10	16	10	121	33
<b>Total</b>	<b>2,564</b>	<b>475</b>	<b>1,584</b>	<b>198</b>	<b>4,149</b>	<b>510</b>	<b>13,281</b>	<b>1,128</b>	<b>1,839</b>	<b>275</b>	<b>15,121</b>	<b>1,144</b>	<b>19,269</b>	<b>1,167</b>
<b>State and local government:</b>														
Local	486	190	432	114	919	223	730	295	637	142	1,366	319	2,285	388
State	1,589	420	130	83	1,719	421	5,892	1,230	966	236	6,858	1,244	8,577	1,161
Other public	--	--	5	4	5	4	70	77	9	9	78	78	83	78
<b>Total</b>	<b>2,076</b>	<b>459</b>	<b>566</b>	<b>141</b>	<b>2,642</b>	<b>474</b>	<b>6,692</b>	<b>1,262</b>	<b>1,611</b>	<b>271</b>	<b>8,303</b>	<b>1,278</b>	<b>10,945</b>	<b>1,209</b>
<b>Private:</b>														
Corporate	31,460	1,233	2,404	265	33,865	1,252	--	--	--	--	--	--	33,865	1,252
<b>Noncorporate private:</b>														
Total, noncorporate private	28,120	1,381	11,456	478	39,576	1,409	--	--	--	--	--	--	39,576	1,409
<b>All private</b>	<b>59,581</b>	<b>1,493</b>	<b>13,860</b>	<b>529</b>	<b>73,441</b>	<b>1,474</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>73,441</b>	<b>1,474</b>
<b>All owners</b>	<b>146,250</b>	<b>2,292</b>	<b>21,686</b>	<b>723</b>	<b>167,935</b>	<b>2,247</b>	<b>48,493</b>	<b>2,102</b>	<b>7,478</b>	<b>537</b>	<b>55,970</b>	<b>2,108</b>	<b>223,906</b>	<b>2,739</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C44.7: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) and Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2007 - 2016**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	82,171	1,697	5,487	431	87,658	1,653	28,783	1,245	4,024	371	32,807	1,228	120,465	1,850
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>82,171</b>	<b>1,697</b>	<b>5,487</b>	<b>431</b>	<b>87,658</b>	<b>1,653</b>	<b>28,783</b>	<b>1,245</b>	<b>4,024</b>	<b>371</b>	<b>32,807</b>	<b>1,228</b>	<b>120,465</b>	<b>1,850</b>
<b>Other federal government:</b>														
Bureau of Land Management	2,281	462	1,307	188	3,588	496	792	249	293	69	1,085	259	4,673	552
Department of Defense and Energy	56	40	171	58	228	71	--	--	26	26	26	26	253	75
National Park Service	--	--	--	--	--	--	12,761	1,123	1,509	266	14,270	1,140	14,270	1,140
U.S. Fish and Wildlife Service	--	--	--	--	--	--	7	8	3	3	10	8	10	8
Other federal	--	--	97	30	97	30	--	--	16	11	16	11	113	32
<b>Total</b>	<b>2,337</b>	<b>463</b>	<b>1,575</b>	<b>198</b>	<b>3,912</b>	<b>500</b>	<b>13,560</b>	<b>1,135</b>	<b>1,847</b>	<b>273</b>	<b>15,407</b>	<b>1,150</b>	<b>19,319</b>	<b>1,175</b>
<b>State and local government:</b>														
Local	649	233	442	114	1,091	260	742	302	643	144	1,385	326	2,477	416
State	1,520	404	152	85	1,672	405	5,911	1,241	968	235	6,879	1,255	8,551	1,168
Other public	--	--	5	4	5	4	70	77	9	9	78	78	83	78
<b>Total</b>	<b>2,169</b>	<b>464</b>	<b>599</b>	<b>142</b>	<b>2,768</b>	<b>479</b>	<b>6,722</b>	<b>1,274</b>	<b>1,620</b>	<b>271</b>	<b>8,342</b>	<b>1,289</b>	<b>11,110</b>	<b>1,224</b>
<b>Private:</b>														
Corporate	32,635	1,263	2,516	270	35,151	1,281	--	--	--	--	--	--	35,151	1,281
<b>Noncorporate private:</b>														
Total, noncorporate private	27,384	1,381	11,347	481	38,730	1,411	--	--	--	--	--	--	38,730	1,411
<b>All private</b>	<b>60,019</b>	<b>1,513</b>	<b>13,863</b>	<b>534</b>	<b>73,882</b>	<b>1,494</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>73,882</b>	<b>1,494</b>
<b>All owners</b>	<b>146,696</b>	<b>2,311</b>	<b>21,523</b>	<b>725</b>	<b>168,219</b>	<b>2,265</b>	<b>49,066</b>	<b>2,110</b>	<b>7,491</b>	<b>533</b>	<b>56,556</b>	<b>2,116</b>	<b>224,775</b>	<b>2,761</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C44.8: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) and Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2008 - 2017**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	82,332	1,700	5,582	442	87,915	1,655	28,794	1,242	3,971	367	32,765	1,228	120,679	1,849
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>82,332</b>	<b>1,700</b>	<b>5,582</b>	<b>442</b>	<b>87,915</b>	<b>1,655</b>	<b>28,794</b>	<b>1,242</b>	<b>3,971</b>	<b>367</b>	<b>32,765</b>	<b>1,228</b>	<b>120,679</b>	<b>1,849</b>
<b>Other federal government:</b>														
Bureau of Land Management	2,273	463	1,289	185	3,561	496	786	249	293	69	1,079	258	4,640	552
Department of Defense and Energy	56	40	170	58	226	70	--	--	24	25	24	25	250	75
National Park Service	--	--	--	--	--	--	12,722	1,122	1,516	269	14,238	1,139	14,238	1,139
U.S. Fish and Wildlife Service	--	--	--	--	--	--	7	8	3	3	10	8	10	8
Other federal	--	--	84	29	84	29	--	--	13	10	13	10	97	31
<b>Total</b>	<b>2,329</b>	<b>464</b>	<b>1,543</b>	<b>196</b>	<b>3,872</b>	<b>501</b>	<b>13,516</b>	<b>1,134</b>	<b>1,847</b>	<b>275</b>	<b>15,363</b>	<b>1,149</b>	<b>19,235</b>	<b>1,175</b>
<b>State and local government:</b>														
Local	657	234	435	113	1,092	261	765	311	614	143	1,379	335	2,471	423
State	1,518	403	153	85	1,671	405	5,923	1,242	910	230	6,833	1,257	8,504	1,170
Other public	--	--	5	4	5	4	70	77	8	9	78	78	82	78
<b>Total</b>	<b>2,175</b>	<b>464</b>	<b>593</b>	<b>142</b>	<b>2,768</b>	<b>479</b>	<b>6,757</b>	<b>1,277</b>	<b>1,533</b>	<b>267</b>	<b>8,290</b>	<b>1,293</b>	<b>11,057</b>	<b>1,229</b>
<b>Private:</b>														
Corporate	33,525	1,274	2,670	281	36,195	1,293	--	--	--	--	--	--	36,195	1,293
<b>Noncorporate private:</b>														
Total, noncorporate private	27,098	1,386	11,312	482	38,410	1,418	--	--	--	--	--	--	38,410	1,418
<b>All private</b>	<b>60,623</b>	<b>1,523</b>	<b>13,983</b>	<b>540</b>	<b>74,606</b>	<b>1,504</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>74,606</b>	<b>1,504</b>
<b>All owners</b>	<b>147,459</b>	<b>2,319</b>	<b>21,701</b>	<b>735</b>	<b>169,160</b>	<b>2,272</b>	<b>49,067</b>	<b>2,109</b>	<b>7,351</b>	<b>530</b>	<b>56,418</b>	<b>2,117</b>	<b>225,577</b>	<b>2,768</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C44.9: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) and Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, All California (10 year averages): 2009 - 2018**

*\*information combined from Table C36 and Table C45*

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	82,502	2,012	5,704	507	88,205	1,986	28,571	1,425	3,931	408	32,501	1,425	120,705	2,249
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>82,502</b>	<b>2,012</b>	<b>5,704</b>	<b>507</b>	<b>88,205</b>	<b>1,986</b>	<b>28,571</b>	<b>1,425</b>	<b>3,931</b>	<b>408</b>	<b>32,501</b>	<b>1,425</b>	<b>120,705</b>	<b>2,249</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,937	452	1,418	212	3,355	496	778	271	289	73	1,067	281	4,422	569
Department of Defense and Energy	--	--	184	62	236	73	--	--	--	--	--	--	260	77
National Park Service	--	--	--	--	--	--	12,522	1,240	1,506	277	14,028	1,259	14,028	1,259
U.S. Fish and Wildlife Service	--	--	--	--	--	--	7	7	--	--	10	8	10	8
Other federal	--	--	69	33	71	33	--	--	13	10	13	10	84	36
<b>Total</b>	<b>1,991</b>	<b>453</b>	<b>1,671</b>	<b>225</b>	<b>3,662</b>	<b>502</b>	<b>13,308</b>	<b>1,256</b>	<b>1,834</b>	<b>285</b>	<b>15,143</b>	<b>1,273</b>	<b>18,804</b>	<b>1,304</b>
<b>State and local government:</b>														
Local	666	247	380	98	1,046	265	787	317	652	156	1,439	345	2,485	434
State	1,602	428	155	88	1,756	430	5,862	1,255	905	242	6,767	1,272	8,523	1,205
Other public	--	--	--	--	--	--	70	78	--	--	78	78	78	78
<b>Total</b>	<b>2,269</b>	<b>484</b>	<b>534</b>	<b>132</b>	<b>2,802</b>	<b>495</b>	<b>6,718</b>	<b>1,292</b>	<b>1,565</b>	<b>285</b>	<b>8,283</b>	<b>1,313</b>	<b>11,086</b>	<b>1,250</b>
<b>Private:</b>														
Corporate	34,909	1,430	2,823	314	37,732	1,450	--	--	--	--	--	--	37,732	1,450
<b>Noncorporate private:</b>														
Total, noncorporate private	26,802	1,423	11,216	528	38,018	1,470	--	--	--	--	--	--	38,018	1,470
<b>All private</b>	<b>61,711</b>	<b>1,675</b>	<b>14,038</b>	<b>599</b>	<b>75,749</b>	<b>1,665</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>75,749</b>	<b>1,665</b>
<b>All owners</b>	<b>148,472</b>	<b>2,679</b>	<b>21,946</b>	<b>829</b>	<b>170,418</b>	<b>2,653</b>	<b>48,597</b>	<b>2,341</b>	<b>7,330</b>	<b>577</b>	<b>55,927</b>	<b>2,361</b>	<b>226,345</b>	<b>3,237</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C45: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: All California**

*\*information combined with information from Table C36 in Table C44.9*

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	9,786	439	681	96	10,466	443	4,414	310	558	76	4,971	313	15,437	531
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	9,786	439	681	96	10,466	443	4,414	310	558	76	4,971	313	15,437	531
<b>Other federal government:</b>														
Bureau of Land Management	86	26	78	17	164	31	95	44	21	7	116	45	280	54
Department of Defense and Energy	--	--	5	3	5	3	--	--	--	--	--	--	5	3
National Park Service	--	--	--	--	--	--	1,901	234	145	35	2,046	236	2,046	236
U.S. Fish and Wildlife Service	--	--	--	--	--	--	2	2	--	--	2	2	2	2
Other federal	2	3	15	11	17	11	--	--	--	--	--	--	17	11
Total	88	26	98	21	186	33	1,998	236	166	36	2,165	238	2,351	237
<b>State and local government:</b>														
Local	45	21	19	8	64	22	48	25	34	16	82	29	147	37
State	77	31	7	4	84	31	278	57	51	18	329	59	413	60
Other public	--	--	--	--	--	--	1	1	--	--	1	1	1	1
Total	123	36	26	9	148	37	327	62	85	24	412	66	561	67
<b>Private:</b>														
Corporate	2,279	182	129	21	2,408	183	--	--	--	--	--	--	2,408	183
<b>Noncorporate private:</b>														
Total, noncorporate private	1,248	113	648	71	1,896	132	--	--	--	--	--	--	1,896	132
<b>All private</b>	3,527	205	776	74	4,303	215	--	--	--	--	--	--	4,303	215
<b>All owners</b>	13,523	485	1,581	123	15,104	494	6,739	395	809	87	7,548	399	22,652	619

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C46: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

\*information combined with information from Table C36 in Table C44.9

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	1	1	17	8	19	8	4	3	91	50	95	50	114	51
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1</b>	<b>1</b>	<b>17</b>	<b>8</b>	<b>19</b>	<b>8</b>	<b>4</b>	<b>3</b>	<b>91</b>	<b>50</b>	<b>95</b>	<b>50</b>	<b>114</b>	<b>51</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	1	1	1	1	--	--	--	--	--	--	1	1
Department of Defense and Energy	--	--	4	3	4	3	--	--	--	--	--	--	4	3
National Park Service	--	--	--	--	--	--	--	--	7	8	7	8	7	8
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>5</b>	<b>3</b>	<b>5</b>	<b>3</b>	<b>--</b>	<b>--</b>	<b>7</b>	<b>8</b>	<b>7</b>	<b>8</b>	<b>12</b>	<b>9</b>
<b>State and local government:</b>														
Local	--	--	11	7	11	7	48	25	23	15	71	29	82	30
State	3	2			3	2	26	16	16	10	42	19	45	19
Other public	--	--	--	--	--	--	1	1	--	--	1	1	1	1
<b>Total</b>	<b>3</b>	<b>2</b>	<b>11</b>	<b>7</b>	<b>14</b>	<b>8</b>	<b>75</b>	<b>29</b>	<b>39</b>	<b>18</b>	<b>114</b>	<b>34</b>	<b>128</b>	<b>35</b>
<b>Private:</b>														
Corporate	10	5	22	9	31	10	--	--	--	--	--	--	31	10
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	<b>131</b>	<b>33</b>	<b>128</b>	<b>27</b>	<b>259</b>	<b>43</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>259</b>	<b>43</b>
<b>All private</b>	<b>141</b>	<b>34</b>	<b>150</b>	<b>28</b>	<b>291</b>	<b>44</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>291</b>	<b>44</b>
<b>All owners</b>	<b>145</b>	<b>34</b>	<b>183</b>	<b>31</b>	<b>328</b>	<b>45</b>	<b>79</b>	<b>29</b>	<b>138</b>	<b>54</b>	<b>217</b>	<b>61</b>	<b>545</b>	<b>76</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C47: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: Central Valley**

\*information combined with information from Table C36 in Table C44.9

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other federal government:</b>														
Bureau of Land Management	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>State and local government:</b>														
Local	--	--	2	2	2	2	--	--	--	--	--	--	2	2
State	--	--	--	--	--	--	--	--	3	3	3	3	3	3
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	2	2	2	2	--	--	3	3	3	3	5	4
<b>Private:</b>														
Corporate	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	--	--	9	5	9	5	--	--	--	--	--	--	9	5
<b>All private</b>	--	--	9	5	9	5	--	--	--	--	--	--	9	5
<b>All owners</b>	--	--	11	6	11	6	--	--	3	3	3	3	14	6

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C48: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: Eastside**

\*information combined with information from Table C36 in Table C44.9

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	209	40	79	31	288	50	26	11	28	11	54	16	342	53
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>209</b>	<b>40</b>	<b>79</b>	<b>31</b>	<b>288</b>	<b>50</b>	<b>26</b>	<b>11</b>	<b>28</b>	<b>11</b>	<b>54</b>	<b>16</b>	<b>342</b>	<b>53</b>
<b>Other federal government:</b>														
Bureau of Land Management	1	1	17	6	18	6	--	--	3	2	3	2	21	6
Department of Defense and Energy	--	--	2	1	2	1	--	--	--	--	--	--	2	1
National Park Service	--	--	--	--	--	--	--	--	1	1	1	1	1	1
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1</b>	<b>1</b>	<b>19</b>	<b>6</b>	<b>20</b>	<b>6</b>	<b>--</b>	<b>--</b>	<b>5</b>	<b>2</b>	<b>5</b>	<b>2</b>	<b>24</b>	<b>6</b>
<b>State and local government:</b>														
Local	--	--	--	--	--	--	--	--	--	--	--	--	--	--
State	--	--	--	--	--	--	8	9	--	--	8	9	8	9
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>8</b>	<b>9</b>	<b>--</b>	<b>--</b>	<b>8</b>	<b>9</b>	<b>8</b>	<b>9</b>
<b>Private:</b>														
Corporate	50	21			50	21	--	--	--	--	--	--	50	21
<b>Noncorporate private:</b>														
Total, noncorporate private	9	4	3	2	12	4	--	--	--	--	--	--	12	4
<b>All private</b>	<b>59</b>	<b>21</b>	<b>3</b>	<b>2</b>	<b>62</b>	<b>21</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>62</b>	<b>21</b>
<b>All owners</b>	<b>269</b>	<b>45</b>	<b>100</b>	<b>31</b>	<b>369</b>	<b>55</b>	<b>35</b>	<b>15</b>	<b>32</b>	<b>11</b>	<b>67</b>	<b>18</b>	<b>437</b>	<b>58</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C49: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges**

\*information combined with information from Table C36 in Table C44.9

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	3,730	338	178	53	3,908	341	2,620	274	106	28	2,727	274	6,635	435
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>3,730</b>	<b>338</b>	<b>178</b>	<b>53</b>	<b>3,908</b>	<b>341</b>	<b>2,620</b>	<b>274</b>	<b>106</b>	<b>28</b>	<b>2,727</b>	<b>274</b>	<b>6,635</b>	<b>435</b>
<b>Other federal government:</b>														
Bureau of Land Management	65	25	29	14	94	28	4	4	--	--	4	4	99	28
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	72	28	4	3	76	28	76	28
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	2	3	--	--	2	3	--	--	--	--	--	--	2	3
<b>Total</b>	<b>67</b>	<b>25</b>	<b>29</b>	<b>14</b>	<b>97</b>	<b>28</b>	<b>76</b>	<b>28</b>	<b>4</b>	<b>3</b>	<b>81</b>	<b>28</b>	<b>177</b>	<b>40</b>
<b>State and local government:</b>														
Local	1	1	--	--	1	1	--	--	4	4	4	4	5	4
State	6	7	2	2	8	7	1	1	6	5	7	5	15	8
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>7</b>	<b>7</b>	<b>2</b>	<b>2</b>	<b>8</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>9</b>	<b>6</b>	<b>11</b>	<b>6</b>	<b>19</b>	<b>9</b>
<b>Private:</b>														
Corporate	450	86	38	12	488	87	--	--	--	--	--	--	488	87
<b>Noncorporate private:</b>														
Total, noncorporate private	338	57	110	17	449	60	--	--	--	--	--	--	449	60
<b>All private</b>	<b>789</b>	<b>103</b>	<b>148</b>	<b>21</b>	<b>936</b>	<b>105</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>936</b>	<b>105</b>
<b>All owners</b>	<b>4,593</b>	<b>355</b>	<b>357</b>	<b>59</b>	<b>4,950</b>	<b>359</b>	<b>2,698</b>	<b>275</b>	<b>120</b>	<b>29</b>	<b>2,818</b>	<b>276</b>	<b>7,768</b>	<b>450</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C50: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: North Coast**

\*information combined with information from Table C36 in Table C44.9

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	28	18	2	2	30	18	24	21	--	--	24	21	54	28
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>28</b>	<b>18</b>	<b>2</b>	<b>2</b>	<b>30</b>	<b>18</b>	<b>24</b>	<b>21</b>	<b>--</b>	<b>--</b>	<b>24</b>	<b>21</b>	<b>54</b>	<b>28</b>
<b>Other federal government:</b>														
Bureau of Land Management	7	6	--	--	7	6	85	44	--	--	85	44	92	44
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	128	74	--	--	128	74	128	74
U.S. Fish and Wildlife Service	--	--	--	--	--	--	2	2	--	--	2	2	2	2
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>7</b>	<b>6</b>	<b>--</b>	<b>--</b>	<b>7</b>	<b>6</b>	<b>215</b>	<b>85</b>	<b>--</b>	<b>--</b>	<b>215</b>	<b>85</b>	<b>222</b>	<b>86</b>
<b>State and local government:</b>														
Local	30	20	1	1	31	20	--	--	3	1	3	1	33	20
State	45	23	--	--	45	23	195	56	3	3	199	56	244	57
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>75</b>	<b>29</b>	<b>1</b>	<b>1</b>	<b>76</b>	<b>29</b>	<b>195</b>	<b>56</b>	<b>6</b>	<b>4</b>	<b>201</b>	<b>56</b>	<b>277</b>	<b>58</b>
<b>Private:</b>														
Corporate	1,103	150	11	5	1,113	150	--	--	--	--	--	--	1,113	150
<b>Noncorporate private:</b>														
Total, noncorporate private	381	57	16	6	398	58	--	--	--	--	--	--	398	58
<b>All private</b>	<b>1,484</b>	<b>158</b>	<b>27</b>	<b>8</b>	<b>1,511</b>	<b>159</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1,511</b>	<b>159</b>
<b>All owners</b>	<b>1,594</b>	<b>162</b>	<b>30</b>	<b>9</b>	<b>1,624</b>	<b>162</b>	<b>434</b>	<b>104</b>	<b>6</b>	<b>4</b>	<b>440</b>	<b>104</b>	<b>2,064</b>	<b>191</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C51: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades**

\*information combined with information from Table C36 in Table C44.9

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	5,685	327	324	72	6,009	332	1,618	181	265	45	1,883	185	7,892	374
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>5,685</b>	<b>327</b>	<b>324</b>	<b>72</b>	<b>6,009</b>	<b>332</b>	<b>1,618</b>	<b>181</b>	<b>265</b>	<b>45</b>	<b>1,883</b>	<b>185</b>	<b>7,892</b>	<b>374</b>
<b>Other federal government:</b>														
Bureau of Land Management	13	7	29	9	42	11	6	6	16	6	22	9	63	14
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	1,701	226	125	34	1,826	229	1,826	229
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	3	2	3	2	--	--	--	--	--	--	3	2
<b>Total</b>	<b>13</b>	<b>7</b>	<b>33</b>	<b>9</b>	<b>45</b>	<b>12</b>	<b>1,707</b>	<b>227</b>	<b>141</b>	<b>34</b>	<b>1,848</b>	<b>229</b>	<b>1,893</b>	<b>228</b>
<b>State and local government:</b>														
Local	15	8	4	2	19	8	--	--	2	2	2	2	21	8
State	24	21	5	4	28	22	41	17	9	6	50	18	79	27
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>38</b>	<b>23</b>	<b>9</b>	<b>4</b>	<b>48</b>	<b>23</b>	<b>41</b>	<b>17</b>	<b>11</b>	<b>6</b>	<b>52</b>	<b>18</b>	<b>100</b>	<b>29</b>
<b>Private:</b>														
Corporate	667	73	53	12	720	73	--	--	--	--	--	--	720	73
<b>Noncorporate private:</b>														
Total, noncorporate private	371	76	341	62	712	98	--	--	--	--	--	--	712	98
<b>All private</b>	<b>1,038</b>	<b>103</b>	<b>394</b>	<b>63</b>	<b>1,432</b>	<b>120</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1,432</b>	<b>120</b>
<b>All owners</b>	<b>6,773</b>	<b>343</b>	<b>760</b>	<b>96</b>	<b>7,533</b>	<b>353</b>	<b>3,367</b>	<b>291</b>	<b>416</b>	<b>57</b>	<b>3,783</b>	<b>295</b>	<b>11,316</b>	<b>452</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C52: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts**

\*information combined with information from Table C36 in Table C44.9

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	132	52	80	19	212	56	120	47	68	24	188	53	400	77
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>132</b>	<b>52</b>	<b>80</b>	<b>19</b>	<b>212</b>	<b>56</b>	<b>120</b>	<b>47</b>	<b>68</b>	<b>24</b>	<b>188</b>	<b>53</b>	<b>400</b>	<b>77</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	1	1	1	1	--	--	2	1	2	1	3	1
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	--	--	8	3	8	3	8	3
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	12	11	12	11	--	--	--	--	--	--	12	11
<b>Total</b>	<b>--</b>	<b>--</b>	<b>13</b>	<b>11</b>	<b>13</b>	<b>11</b>	<b>--</b>	<b>--</b>	<b>9</b>	<b>3</b>	<b>9</b>	<b>3</b>	<b>22</b>	<b>11</b>
<b>State and local government:</b>														
Local	--	--	1	1	1	1	--	--	3	3	3	3	4	3
State	--	--	--	--	--	--	6	5	14	12	20	13	20	13
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>6</b>	<b>5</b>	<b>17</b>	<b>13</b>	<b>22</b>	<b>14</b>	<b>24</b>	<b>14</b>
<b>Private:</b>														
Corporate	--	--	5	5	5	5	--	--	--	--	--	--	5	5
<b>Noncorporate private:</b>														
Total, noncorporate private	17	10	40	14	57	17	--	--	--	--	--	--	57	17
<b>All private</b>	<b>17</b>	<b>10</b>	<b>46</b>	<b>14</b>	<b>62</b>	<b>18</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>62</b>	<b>18</b>
<b>All owners</b>	<b>149</b>	<b>53</b>	<b>140</b>	<b>26</b>	<b>289</b>	<b>59</b>	<b>126</b>	<b>47</b>	<b>94</b>	<b>27</b>	<b>220</b>	<b>55</b>	<b>509</b>	<b>81</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C53: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: All California**

*\*information duplicated in Table C61.9*

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	413,405.31	5,864.30	98,297.53	4,180.05	511,702.84	5,734.71	134,103.84	4,388.48	55,434.71	3,416.65	189,812.31	4,561.12	701,515.15	5,858.26
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>413,405.31</b>	<b>5,864.30</b>	<b>98,297.53</b>	<b>4,180.05</b>	<b>511,702.84</b>	<b>5,734.71</b>	<b>134,103.84</b>	<b>4,388.48</b>	<b>55,434.71</b>	<b>3,416.65</b>	<b>189,812.31</b>	<b>4,561.12</b>	<b>701,515.15</b>	<b>5,858.26</b>
<b>Other federal government:</b>														
Bureau of Land Management	10,707.47	1,658.17	37,181.32	2,866.42	47,888.79	3,255.43	3,504.77	1,046.46	7,030.58	1,233.96	10,535.35	1,617.65	58,424.14	3,516.14
Department of Defense and Energy	675.05	378.11	2,977.42	785.09	3,652.47	871.39	--	--	219.17	226.64	219.17	226.64	3,871.64	900.38
National Park Service	--	--	--	--	--	--	45,465.62	2,804.85	18,799.66	2,104.71	64,265.28	3,340.63	64,265.28	3,340.63
U.S. Fish and Wildlife Service	--	--	--	--	--	--	156.16	159.68	16.29	16.80	172.44	160.56	172.44	160.56
Other federal	128.20	159.50	1,943.58	612.32	2,071.77	632.76	--	--	157.93	96.62	157.93	96.62	2,229.71	640.09
<b>Total</b>	<b>11,510.72</b>	<b>1,702.51</b>	<b>42,102.32</b>	<b>2,989.22</b>	<b>53,613.03</b>	<b>3,371.94</b>	<b>49,126.54</b>	<b>2,887.91</b>	<b>26,223.64</b>	<b>2,383.55</b>	<b>75,350.18</b>	<b>3,510.23</b>	<b>128,963.21</b>	<b>4,156.68</b>
<b>State and local government:</b>														
Local	2,764.99	880.06	5,444.78	1,079.65	8,209.77	1,407.07	2,062.58	728.48	6,328.02	1,172.18	8,390.60	1,315.16	16,600.37	1,915.17
State	4,480.90	1,037.92	2,093.64	696.57	6,574.54	1,235.05	12,282.88	1,464.75	9,746.43	1,373.16	22,029.30	1,923.97	28,603.84	1,928.42
Other public	--	--	41.78	37.90	41.78	37.90	237.56	264.40	232.28	251.23	469.84	364.73	511.62	366.69
<b>Total</b>	<b>7,245.89</b>	<b>1,339.74</b>	<b>7,580.20</b>	<b>1,283.95</b>	<b>14,826.09</b>	<b>1,853.44</b>	<b>14,583.02</b>	<b>1,618.67</b>	<b>16,306.72</b>	<b>1,736.98</b>	<b>30,889.74</b>	<b>2,216.74</b>	<b>45,715.83</b>	<b>2,532.07</b>
<b>Private:</b>														
Corporate	203,405.75	5,577.12	36,473.16	2,868.68	239,878.91	6,096.26	--	--	--	--	--	--	239,878.91	6,096.26
<b>Noncorporate private:</b>														
Total, noncorporate private	117,505.53	4,944.13	166,371.39	5,241.01	283,876.93	6,733.21	--	--	--	--	--	--	283,876.93	6,733.21
<b>All private</b>	<b>320,911.28</b>	<b>5,438.53</b>	<b>202,844.55</b>	<b>5,653.53</b>	<b>523,755.84</b>	<b>6,542.56</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>523,755.84</b>	<b>6,542.56</b>
<b>All owners</b>	<b>753,073.20</b>	<b>7,940.23</b>	<b>350,824.60</b>	<b>7,653.88</b>	<b>1,103,897.80</b>	<b>8,954.73</b>	<b>197,813.40</b>	<b>5,483.49</b>	<b>97,965.06</b>	<b>4,506.98</b>	<b>296,052.22</b>	<b>6,130.71</b>	<b>1,399,950.03</b>	<b>8,855.48</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C54: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	71.43	65.43	2,894.82	758.47	2,966.25	761.01	1,193.27	556.05	5,340.55	1,164.45	6,533.83	1,285.05	9,500.07	1,493.49
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>71.43</b>	<b>65.43</b>	<b>2,894.82</b>	<b>758.47</b>	<b>2,966.25</b>	<b>761.01</b>	<b>1,193.27</b>	<b>556.05</b>	<b>5,340.55</b>	<b>1,164.45</b>	<b>6,533.83</b>	<b>1,285.05</b>	<b>9,500.07</b>	<b>1,493.49</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	1,877.81	648.04	1,877.81	648.04	--	--	396.60	290.25	396.60	290.25	2,274.41	709.98
Department of Defense and Energy	--	--	1,938.39	634.49	1,938.39	634.49	--	--	--	--	--	--	1,938.39	634.49
National Park Service	--	--	--	--	--	--	--	--	244.56	272.19	244.56	272.19	244.56	272.19
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	380.90	296.43	380.90	296.43	--	--	6.52	7.22	6.52	7.22	387.42	296.52
<b>Total</b>	<b>--</b>	<b>--</b>	<b>4,197.09</b>	<b>948.09</b>	<b>4,197.09</b>	<b>948.09</b>	<b>--</b>	<b>--</b>	<b>647.68</b>	<b>397.98</b>	<b>647.68</b>	<b>397.98</b>	<b>4,844.77</b>	<b>1,028.13</b>
<b>State and local government:</b>														
Local	--	--	1,123.91	453.48	1,123.91	453.48	2,062.58	728.48	3,999.50	913.10	6,062.08	1,090.63	7,185.99	1,173.70
State	673.52	401.81	443.19	294.50	1,116.71	517.77	1,871.39	775.26	4,206.62	881.20	6,078.01	1,165.23	7,194.72	1,270.22
Other public	--	--	--	--	--	--	237.56	264.40	232.28	251.23	469.84	364.73	469.84	364.73
<b>Total</b>	<b>673.52</b>	<b>401.81</b>	<b>1,567.10</b>	<b>540.70</b>	<b>2,240.62</b>	<b>688.26</b>	<b>4,171.53</b>	<b>1,091.81</b>	<b>8,438.40</b>	<b>1,224.70</b>	<b>12,609.93</b>	<b>1,542.12</b>	<b>14,850.55</b>	<b>1,656.93</b>
<b>Private:</b>														
Corporate	1,785.84	696.78	5,739.24	1,114.53	7,525.08	1,312.78	--	--	--	--	--	--	7,525.08	1,312.78
<b>Noncorporate private:</b>														
Total, noncorporate private	7,505.53	1,433.12	29,184.77	2,458.77	36,690.30	2,821.76	--	--	--	--	--	--	36,690.30	2,821.76
<b>All private</b>	<b>9,291.37</b>	<b>1,587.09</b>	<b>34,924.00</b>	<b>2,672.91</b>	<b>44,215.38</b>	<b>3,086.78</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>44,215.38</b>	<b>3,086.78</b>
<b>All owners</b>	<b>10,036.32</b>	<b>1,639.84</b>	<b>43,583.01</b>	<b>2,986.04</b>	<b>53,619.33</b>	<b>3,387.38</b>	<b>5,364.80</b>	<b>1,225.25</b>	<b>14,426.63</b>	<b>1,728.82</b>	<b>19,791.44</b>	<b>2,037.27</b>	<b>73,410.77</b>	<b>3,916.87</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C55: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: Central Valley**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other federal government:</b>														
Bureau of Land Management	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	16.29	16.80	16.29	16.80	16.29	16.80
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	16.29	16.80	16.29	16.80	16.29	16.80
<b>State and local government:</b>														
Local	--	--	137.33	95.01	137.33	95.01	--	--	--	--	--	--	137.33	95.01
State	--	--	--	--	--	--	--	--	235.31	223.82	235.31	223.82	235.31	223.82
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	137.33	95.01	137.33	95.01	--	--	235.31	223.82	235.31	223.82	372.64	243.15
<b>Private:</b>														
Corporate	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	--	--	2,717.29	711.88	2,717.29	711.88	--	--	--	--	--	--	2,717.29	711.88
<b>All private</b>	--	--	2,717.29	711.88	2,717.29	711.88	--	--	--	--	--	--	2,717.29	711.88
<b>All owners</b>	--	--	2,854.62	718.03	2,854.62	718.03	--	--	251.59	224.45	251.59	224.45	3,106.22	752.30

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C56: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: Eastside**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	29,530.45	2,619.78	30,992.50	2,499.56	60,522.95	3,568.79	2,613.32	896.75	4,362.66	1,058.55	6,975.98	1,374.38	67,498.93	3,817.42
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>29,530.45</b>	<b>2,619.78</b>	<b>30,992.50</b>	<b>2,499.56</b>	<b>60,522.95</b>	<b>3,568.79</b>	<b>2,613.32</b>	<b>896.75</b>	<b>4,362.66</b>	<b>1,058.55</b>	<b>6,975.98</b>	<b>1,374.38</b>	<b>67,498.93</b>	<b>3,817.42</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,121.01	538.73	18,961.01	2,141.40	20,082.03	2,201.76	--	--	1,791.94	623.44	1,791.94	623.44	21,873.97	2,260.32
Department of Defense and Energy	--	--	936.06	453.56	936.06	453.56	--	--	--	--	--	--	936.06	453.56
National Park Service	--	--	--	--	--	--	--	--	2,072.87	632.47	2,072.87	632.47	2,072.87	632.47
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1,121.01</b>	<b>538.73</b>	<b>19,897.07</b>	<b>2,178.39</b>	<b>21,018.08</b>	<b>2,237.74</b>	<b>--</b>	<b>--</b>	<b>3,864.82</b>	<b>884.49</b>	<b>3,864.82</b>	<b>884.49</b>	<b>24,882.90</b>	<b>2,354.72</b>
<b>State and local government:</b>														
Local	--	--	203.28	204.99	203.28	204.99	--	--	--	--	--	--	203.28	204.99
State	--	--	--	--	--	--	300.12	334.03	349.81	299.99	649.93	448.97	649.93	448.97
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>203.28</b>	<b>204.99</b>	<b>203.28</b>	<b>204.99</b>	<b>300.12</b>	<b>334.03</b>	<b>349.81</b>	<b>299.99</b>	<b>649.93</b>	<b>448.97</b>	<b>853.21</b>	<b>493.55</b>
<b>Private:</b>														
Corporate	10,408.22	1,628.81	3,240.97	924.32	13,649.19	1,885.02	--	--	--	--	--	--	13,649.19	1,885.02
<b>Noncorporate private:</b>														
Total, noncorporate private	3,323.05	887.12	6,020.08	1,263.54	9,343.13	1,558.33	--	--	--	--	--	--	9,343.13	1,558.33
<b>All private</b>	<b>13,731.27</b>	<b>1,837.76</b>	<b>9,261.05</b>	<b>1,557.12</b>	<b>22,992.32</b>	<b>2,425.54</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>22,992.32</b>	<b>2,425.54</b>
<b>All owners</b>	<b>44,382.74</b>	<b>3,263.02</b>	<b>60,353.90</b>	<b>3,673.72</b>	<b>104,736.64</b>	<b>4,878.38</b>	<b>2,913.44</b>	<b>956.94</b>	<b>8,577.28</b>	<b>1,411.68</b>	<b>11,490.72</b>	<b>1,694.94</b>	<b>116,227.36</b>	<b>5,134.12</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C57: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	127,660.98	5,319.83	18,222.54	2,181.33	145,883.52	5,620.52	69,541.59	3,805.28	13,236.09	1,983.12	82,777.68	4,171.93	228,661.20	6,733.48
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>127,660.98</b>	<b>5,319.83</b>	<b>18,222.54</b>	<b>2,181.33</b>	<b>145,883.52</b>	<b>5,620.52</b>	<b>69,541.59</b>	<b>3,805.28</b>	<b>13,236.09</b>	<b>1,983.12</b>	<b>82,777.68</b>	<b>4,171.93</b>	<b>228,661.20</b>	<b>6,733.48</b>
<b>Other federal government:</b>														
Bureau of Land Management	4,918.10	1,162.39	5,986.08	1,274.18	10,904.18	1,722.67	254.90	252.50	997.56	527.81	1,252.46	585.10	12,156.64	1,816.66
Department of Defense and Energy	--	--	--	--	--	--	--	--	219.17	226.64	219.17	226.64	219.17	226.64
National Park Service	--	--	--	--	--	--	2,745.44	864.89	1,862.20	703.18	4,607.64	1,131.68	4,607.64	1,131.68
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	128.20	159.50	232.36	173.49	360.56	235.66	--	--	40.35	44.66	40.35	44.66	400.91	239.86
<b>Total</b>	<b>5,046.29</b>	<b>1,173.28</b>	<b>6,218.45</b>	<b>1,285.91</b>	<b>11,264.74</b>	<b>1,738.58</b>	<b>3,000.34</b>	<b>896.50</b>	<b>3,119.28</b>	<b>905.73</b>	<b>6,119.62</b>	<b>1,289.28</b>	<b>17,384.36</b>	<b>2,109.24</b>
<b>State and local government:</b>														
Local	344.14	296.03	510.43	373.20	854.57	476.36	--	--	238.07	224.05	238.07	224.05	1,092.65	526.37
State	441.60	290.07	569.29	374.65	1,010.89	473.82	267.01	219.59	781.44	450.73	1,048.46	529.69	2,059.34	710.69
Other public	--	--	41.78	37.90	41.78	37.90	--	--	--	--	--	--	41.78	37.90
<b>Total</b>	<b>785.74</b>	<b>414.46</b>	<b>1,121.50</b>	<b>529.93</b>	<b>1,907.24</b>	<b>672.76</b>	<b>267.01</b>	<b>219.59</b>	<b>1,019.52</b>	<b>503.35</b>	<b>1,286.53</b>	<b>575.13</b>	<b>3,193.77</b>	<b>883.11</b>
<b>Private:</b>														
Corporate	44,668.91	3,474.87	11,541.50	1,662.13	56,210.41	3,840.38	--	--	--	--	--	--	56,210.41	3,840.38
<b>Noncorporate private:</b>														
Total, noncorporate private	35,257.88	3,125.43	39,715.85	2,940.63	74,973.72	4,251.57	--	--	--	--	--	--	74,973.72	4,251.57
<b>All private</b>	<b>79,926.79</b>	<b>4,493.84</b>	<b>51,257.35</b>	<b>3,334.93</b>	<b>131,184.14</b>	<b>5,513.19</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>131,184.14</b>	<b>5,513.19</b>
<b>All owners</b>	<b>213,419.80</b>	<b>7,078.50</b>	<b>76,819.84</b>	<b>4,226.54</b>	<b>290,239.64</b>	<b>8,084.47</b>	<b>72,808.94</b>	<b>3,915.72</b>	<b>17,374.89</b>	<b>2,237.38</b>	<b>90,183.83</b>	<b>4,404.35</b>	<b>380,423.47</b>	<b>8,976.27</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C58: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: North Coast**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	1,136.89	587.83	338.42	324.78	1,475.31	671.58	561.65	421.93	--	--	561.65	421.93	2,036.96	792.68
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1,136.89</b>	<b>587.83</b>	<b>338.42</b>	<b>324.78</b>	<b>1,475.31</b>	<b>671.58</b>	<b>561.65</b>	<b>421.93</b>	<b>--</b>	<b>--</b>	<b>561.65</b>	<b>421.93</b>	<b>2,036.96</b>	<b>792.68</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,285.90	573.95	--	--	1,285.90	573.95	2,913.97	972.15	--	--	2,913.97	972.15	4,199.88	1,133.14
Department of Defense and Energy	600.76	370.42	3.39	3.70	604.15	370.44	--	--	--	--	--	--	604.15	370.44
National Park Service	--	--	--	--	--	--	2,001.12	761.26	310.08	298.26	2,311.20	808.41	2,311.20	808.41
	--	--	--	--	--	--	156.16	159.68	--	--	156.16	159.68	156.16	159.68
U.S. Fish and Wildlife Service														
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1,886.66</b>	<b>683.10</b>	<b>3.39</b>	<b>3.70</b>	<b>1,890.05</b>	<b>683.11</b>	<b>5,071.25</b>	<b>1,232.54</b>	<b>310.08</b>	<b>298.26</b>	<b>5,381.33</b>	<b>1,247.77</b>	<b>7,271.38</b>	<b>1,411.29</b>
<b>State and local government:</b>														
Local	950.75	479.13	298.16	212.71	1,248.91	564.03	--	--	1,702.15	662.06	1,702.15	662.06	2,951.06	869.74
State	2,440.18	811.59	80.31	72.86	2,520.50	814.85	6,464.08	1,157.49	342.13	275.76	6,806.21	1,192.12	9,326.71	1,255.40
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>3,390.94</b>	<b>926.08</b>	<b>378.47</b>	<b>224.84</b>	<b>3,769.41</b>	<b>975.45</b>	<b>6,464.08</b>	<b>1,157.49</b>	<b>2,044.28</b>	<b>717.19</b>	<b>8,508.36</b>	<b>1,363.37</b>	<b>12,277.76</b>	<b>1,498.41</b>
<b>Private:</b>														
Corporate	53,002.97	3,520.84	1,231.62	508.98	54,234.59	3,555.90	--	--	--	--	--	--	54,234.59	3,555.90
<b>Noncorporate private:</b>														
Total, noncorporate private	34,300.20	2,858.52	6,515.76	1,173.19	40,815.96	3,073.11	--	--	--	--	--	--	40,815.96	3,073.11
<b>All private</b>	<b>87,303.17</b>	<b>4,260.93</b>	<b>7,747.38</b>	<b>1,276.56</b>	<b>95,050.55</b>	<b>4,413.36</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>95,050.55</b>	<b>4,413.36</b>
<b>All owners</b>	<b>93,717.65</b>	<b>4,427.68</b>	<b>8,467.67</b>	<b>1,335.95</b>	<b>102,185.32</b>	<b>4,595.30</b>	<b>12,096.98</b>	<b>1,742.12</b>	<b>2,354.36</b>	<b>776.74</b>	<b>14,451.34</b>	<b>1,895.07</b>	<b>116,636.66</b>	<b>4,878.68</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C59: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	249,465.65	6,343.52	33,259.23	2,730.76	282,724.88	6,552.45	55,458.05	3,518.13	26,493.50	2,426.48	81,951.55	3,919.87	364,676.42	7,355.33
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>249,465.65</b>	<b>6,343.52</b>	<b>33,259.23</b>	<b>2,730.76</b>	<b>282,724.88</b>	<b>6,552.45</b>	<b>55,458.05</b>	<b>3,518.13</b>	<b>26,493.50</b>	<b>2,426.48</b>	<b>81,951.55</b>	<b>3,919.87</b>	<b>364,676.42</b>	<b>7,355.33</b>
<b>Other federal government:</b>														
Bureau of Land Management	3,382.45	920.21	9,543.64	1,480.99	12,926.09	1,733.73	335.89	293.65	2,988.70	782.70	3,324.59	835.97	16,250.68	1,893.66
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	40,719.07	2,730.09	11,315.40	1,728.59	52,034.47	3,118.67	52,034.47	3,118.67
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	697.17	376.99	697.17	376.99	--	--	74.24	76.77	74.24	76.77	771.41	384.73
<b>Total</b>	<b>3,382.45</b>	<b>920.21</b>	<b>10,240.81</b>	<b>1,524.00</b>	<b>13,623.26</b>	<b>1,770.04</b>	<b>41,054.95</b>	<b>2,741.06</b>	<b>14,378.34</b>	<b>1,872.01</b>	<b>55,433.30</b>	<b>3,184.30</b>	<b>69,056.56</b>	<b>3,440.14</b>
<b>State and local government:</b>														
Local	1,470.10	676.24	2,562.77	798.66	4,032.87	1,045.19	--	--	274.65	233.48	274.65	233.48	4,307.51	1,070.91
State	925.60	497.45	1,000.84	506.59	1,926.44	702.15	2,990.56	891.99	2,324.09	738.75	5,314.65	1,150.88	7,241.09	1,317.26
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>2,395.69</b>	<b>839.50</b>	<b>3,563.62</b>	<b>944.74</b>	<b>5,959.31</b>	<b>1,256.96</b>	<b>2,990.56</b>	<b>891.99</b>	<b>2,598.74</b>	<b>774.77</b>	<b>5,589.29</b>	<b>1,174.33</b>	<b>11,548.60</b>	<b>1,695.15</b>
<b>Private:</b>														
Corporate	93,393.23	4,591.49	12,822.78	1,707.16	106,216.00	4,858.39	--	--	--	--	--	--	106,216.00	4,858.39
<b>Noncorporate private:</b>														
Total, noncorporate private	36,549.58	2,946.88	74,372.64	3,796.37	110,922.22	4,711.48	--	--	--	--	--	--	110,922.22	4,711.48
<b>All private</b>	<b>129,942.80</b>	<b>5,099.34</b>	<b>87,195.42</b>	<b>4,047.89</b>	<b>217,138.22</b>	<b>6,193.55</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>217,138.22</b>	<b>6,193.55</b>
<b>All owners</b>	<b>385,186.60</b>	<b>8,140.17</b>	<b>134,259.07</b>	<b>5,173.39</b>	<b>519,445.67</b>	<b>9,120.28</b>	<b>99,503.56</b>	<b>4,540.45</b>	<b>43,470.57</b>	<b>3,158.26</b>	<b>142,974.14</b>	<b>5,162.52</b>	<b>662,419.81</b>	<b>9,963.37</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C60: Soil Organic Carbon by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	5,539.91	1,193.08	12,590.03	1,586.22	18,129.94	1,984.99	4,735.95	1,151.71	6,001.91	1,226.19	11,011.62	1,680.06	29,141.56	2,587.34
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>5,539.91</b>	<b>1,193.08</b>	<b>12,590.03</b>	<b>1,586.22</b>	<b>18,129.94</b>	<b>1,984.99</b>	<b>4,735.95</b>	<b>1,151.71</b>	<b>6,001.91</b>	<b>1,226.19</b>	<b>11,011.62</b>	<b>1,680.06</b>	<b>29,141.56</b>	<b>2,587.34</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	812.78	373.51	812.78	373.51	--	--	855.78	443.92	855.78	443.92	1,668.56	579.01
Department of Defense and Energy	74.30	75.91	99.58	101.83	173.87	127.01	--	--	--	--	--	--	173.87	127.01
National Park Service	--	--	--	--	--	--	--	--	2,994.54	755.21	2,994.54	755.21	2,994.54	755.21
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	633.15	339.24	633.15	339.24	--	--	36.83	37.63	36.83	37.63	669.97	341.32
<b>Total</b>	<b>74.30</b>	<b>75.91</b>	<b>1,545.51</b>	<b>514.68</b>	<b>1,619.80</b>	<b>520.23</b>	<b>--</b>	<b>--</b>	<b>3,887.15</b>	<b>873.35</b>	<b>3,887.15</b>	<b>873.35</b>	<b>5,506.95</b>	<b>1,014.52</b>
<b>State and local government:</b>														
Local	--	--	608.90	302.80	608.90	302.80	--	--	113.65	110.13	113.65	110.13	722.55	320.14
State	--	--	--	--	--	--	389.72	304.74	1,507.02	554.13	1,896.74	627.73	1,896.74	627.73
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>608.90</b>	<b>302.80</b>	<b>608.90</b>	<b>302.80</b>	<b>389.72</b>	<b>304.74</b>	<b>1,620.67</b>	<b>564.96</b>	<b>2,010.39</b>	<b>637.32</b>	<b>2,619.29</b>	<b>703.81</b>
<b>Private:</b>														
Corporate	146.57	144.77	1,897.05	674.35	2,043.62	689.72	--	--	--	--	--	--	2,043.62	689.72
<b>Noncorporate private:</b>														
Total, noncorporate private	569.30	342.70	7,845.01	1,263.01	8,414.31	1,324.35	--	--	--	--	--	--	8,414.31	1,324.35
<b>All private</b>	<b>715.88</b>	<b>372.02</b>	<b>9,742.06</b>	<b>1,430.81</b>	<b>10,457.94</b>	<b>1,492.27</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>10,457.94</b>	<b>1,492.27</b>
<b>All owners</b>	<b>6,330.08</b>	<b>1,252.04</b>	<b>24,486.50</b>	<b>2,210.33</b>	<b>30,816.58</b>	<b>2,547.96</b>	<b>5,125.68</b>	<b>1,191.35</b>	<b>11,509.72</b>	<b>1,607.92</b>	<b>16,909.16</b>	<b>1,997.86</b>	<b>47,725.75</b>	<b>3,225.16</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C61.1: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10 year averages): 2001 - 2010

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	465,218.34	7,227.47	138,491.38	5,226.96	603,709.72	7,512.16	138,859.43	5,919.40	60,737.42	3,959.75	199,596.85	6,805.96	803,306.57	5,476.23
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>465,218.34</b>	<b>7,227.47</b>	<b>138,491.38</b>	<b>5,226.96</b>	<b>603,709.72</b>	<b>7,512.16</b>	<b>138,859.43</b>	<b>5,919.40</b>	<b>60,737.42</b>	<b>3,959.75</b>	<b>199,596.85</b>	<b>6,805.96</b>	<b>803,306.57</b>	<b>5,476.23</b>
<b>Other federal government:</b>														
Bureau of Land Management	14,720.59	2,079.36	49,000.48	3,370.46	63,721.08	3,810.47	1,244.16	592.33	10,936.81	1,456.42	12,180.96	1,570.25	75,902.04	4,015.84
Department of Defense and Energy	234.71	257.80	3,167.75	882.00	3,402.46	918.90	--	--	--	--	--	--	3,402.46	918.90
National Park Service	--	--	--	--	--	--	47,767.55	3,042.15	22,783.24	2,341.29	70,550.79	3,266.55	70,550.79	3,266.55
U.S. Fish and Wildlife Service	--	--	--	--	--	--	210.90	259.36	145.68	148.15	356.58	298.69	356.58	298.69
Other federal	--	--	3,820.89	953.17	3,820.89	953.17	688.50	494.36	754.89	419.32	1,443.39	646.97	5,264.28	1,151.51
<b>Total</b>	<b>14,955.30</b>	<b>2,095.28</b>	<b>55,989.13</b>	<b>3,568.66</b>	<b>70,944.43</b>	<b>3,976.31</b>	<b>49,911.10</b>	<b>3,109.81</b>	<b>34,620.62</b>	<b>2,730.97</b>	<b>84,531.72</b>	<b>3,547.80</b>	<b>155,476.15</b>	<b>4,939.15</b>
<b>State and local government:</b>														
Local	1,805.31	683.64	4,646.75	1,036.22	6,452.06	1,248.80	1,793.01	787.97	9,058.03	1,541.51	10,851.04	1,721.50	17,303.10	2,114.95
State	4,673.17	1,195.70	1,870.47	689.17	6,543.64	1,375.78	14,882.39	1,995.55	12,359.68	1,733.57	27,242.07	2,591.05	33,785.71	2,831.87
Other public	--	--	359.93	316.48	359.93	316.48	358.33	320.99	461.06	341.89	819.39	468.96	1,179.31	565.76
<b>Total</b>	<b>6,478.47</b>	<b>1,371.71</b>	<b>6,877.15</b>	<b>1,282.94</b>	<b>13,355.63</b>	<b>1,878.16</b>	<b>17,033.73</b>	<b>2,165.83</b>	<b>21,878.77</b>	<b>2,316.28</b>	<b>38,912.49</b>	<b>3,104.83</b>	<b>52,268.12</b>	<b>3,521.46</b>
<b>Private:</b>														
Corporate	209,528.33	6,280.51	22,239.00	2,390.05	231,767.33	6,604.92	--	--	--	--	--	--	231,767.33	6,604.92
<b>Noncorporate private:</b>														
Total, noncorporate private	162,890.64	6,016.26	217,851.15	6,181.15	380,741.79	7,997.93	--	--	--	--	--	--	380,741.79	7,997.93
<b>All private</b>	<b>372,418.97</b>	<b>6,286.28</b>	<b>240,090.15</b>	<b>6,358.63</b>	<b>612,509.12</b>	<b>7,461.53</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>612,509.12</b>	<b>7,461.53</b>
<b>All owners</b>	<b>859,071.09</b>	<b>9,691.36</b>	<b>441,447.81</b>	<b>8,938.42</b>	<b>1,300,518.90</b>	<b>11,006.49</b>	<b>205,804.26</b>	<b>6,967.75</b>	<b>117,236.81</b>	<b>5,299.76</b>	<b>323,041.07</b>	<b>8,174.62</b>	<b>1,623,559.96</b>	<b>9,865.35</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C61.2: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10 year averages): 2002 - 2011

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	468,684.38	7,418.28	133,214.32	5,187.24	601,898.71	7,729.48	139,598.77	5,966.06	60,756.52	3,971.27	200,355.29	6,846.56	802,254.00	5,842.70
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>468,684.38</b>	<b>7,418.28</b>	<b>133,214.32</b>	<b>5,187.24</b>	<b>601,898.71</b>	<b>7,729.48</b>	<b>139,598.77</b>	<b>5,966.06</b>	<b>60,756.52</b>	<b>3,971.27</b>	<b>200,355.29</b>	<b>6,846.56</b>	<b>802,254.00</b>	<b>5,842.70</b>
<b>Other federal government:</b>														
Bureau of Land Management	14,621.67	2,075.03	48,182.16	3,336.40	62,803.83	3,787.46	1,232.68	589.62	10,878.43	1,467.02	12,111.11	1,579.11	74,914.94	4,000.74
Department of Defense and Energy	329.72	280.55	3,663.85	942.01	3,993.57	982.38	--	--	--	--	--	--	3,993.57	982.38
National Park Service	--	--	--	--	--	--	48,288.30	3,065.75	22,755.29	2,325.36	71,043.59	3,261.04	71,043.59	3,261.04
U.S. Fish and Wildlife Service	--	--	--	--	--	--	210.90	259.36	144.32	147.45	355.22	298.35	355.22	298.35
Other federal	--	--	3,809.41	952.04	3,809.41	952.04	686.37	493.83	751.10	419.14	1,437.48	646.43	5,246.88	1,150.28
<b>Total</b>	<b>14,951.39</b>	<b>2,093.91</b>	<b>55,655.42</b>	<b>3,551.50</b>	<b>70,606.80</b>	<b>3,969.67</b>	<b>50,418.25</b>	<b>3,132.22</b>	<b>34,529.14</b>	<b>2,731.25</b>	<b>84,947.39</b>	<b>3,552.34</b>	<b>155,554.19</b>	<b>4,943.85</b>
<b>State and local government:</b>														
Local	1,528.65	618.48	4,679.13	1,037.96	6,207.78	1,214.93	1,766.52	783.38	8,910.33	1,523.86	10,676.84	1,703.97	16,884.62	2,081.31
State	4,700.05	1,193.02	1,855.92	686.41	6,555.97	1,371.97	15,049.04	1,999.46	12,948.61	1,768.33	27,997.65	2,620.35	34,553.62	2,859.41
Other public	--	--	368.63	322.42	368.63	322.42	369.14	325.80	217.98	249.40	587.11	410.30	955.75	521.83
<b>Total</b>	<b>6,228.69</b>	<b>1,338.04</b>	<b>6,903.69</b>	<b>1,284.78</b>	<b>13,132.38</b>	<b>1,855.32</b>	<b>17,184.70</b>	<b>2,168.55</b>	<b>22,076.91</b>	<b>2,320.15</b>	<b>39,261.60</b>	<b>3,110.33</b>	<b>52,393.98</b>	<b>3,519.47</b>
<b>Private:</b>														
Corporate	205,863.30	6,289.77	26,359.68	2,596.25	232,222.98	6,676.80	--	--	--	--	--	--	232,222.98	6,676.80
<b>Noncorporate private:</b>														
Total, noncorporate private	160,614.18	5,999.66	211,544.12	6,117.23	372,158.30	7,974.81	--	--	--	--	--	--	372,158.30	7,974.81
<b>All private</b>	<b>366,477.47</b>	<b>6,446.89</b>	<b>237,903.80</b>	<b>6,338.98</b>	<b>604,381.27</b>	<b>7,611.49</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>604,381.27</b>	<b>7,611.49</b>
<b>All owners</b>	<b>856,341.94</b>	<b>9,752.24</b>	<b>433,677.23</b>	<b>8,877.24</b>	<b>1,290,019.16</b>	<b>11,041.10</b>	<b>207,201.71</b>	<b>7,018.83</b>	<b>117,362.57</b>	<b>5,310.36</b>	<b>324,564.29</b>	<b>8,211.68</b>	<b>1,614,583.45</b>	<b>9,874.65</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C61.3: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10 year averages): 2003 - 2012**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	472,160.29	6,641.32	124,869.63	4,952.33	597,029.92	6,508.19	145,059.19	4,891.45	63,673.82	3,800.87	208,733.01	5,018.09	805,762.93	6,434.54
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>472,160.29</b>	<b>6,641.32</b>	<b>124,869.63</b>	<b>4,952.33</b>	<b>597,029.92</b>	<b>6,508.19</b>	<b>145,059.19</b>	<b>4,891.45</b>	<b>63,673.82</b>	<b>3,800.87</b>	<b>208,733.01</b>	<b>5,018.09</b>	<b>805,762.93</b>	<b>6,434.54</b>
<b>Other federal government:</b>														
Bureau of Land Management	15,886.75	2,192.56	46,635.58	3,472.43	62,522.33	4,044.74	1,476.17	665.03	9,165.42	1,514.34	10,641.59	1,653.58	73,163.92	4,238.27
Department of Defense and Energy	521.64	355.73	3,280.76	907.44	3,802.40	974.66	--	--	233.58	241.86	233.58	241.86	4,035.98	1,004.22
National Park Service	--	--	--	--	--	--	50,335.15	3,174.08	22,028.90	2,440.53	72,364.04	3,804.10	72,364.04	3,804.10
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	4,450.96	1,040.23	4,450.96	1,040.23	332.87	351.47	859.74	462.05	1,192.60	580.54	5,643.56	1,189.83
<b>Total</b>	<b>16,408.39</b>	<b>2,203.87</b>	<b>54,367.30</b>	<b>3,672.66</b>	<b>70,775.69</b>	<b>4,212.99</b>	<b>52,144.18</b>	<b>3,196.49</b>	<b>32,287.63</b>	<b>2,808.14</b>	<b>84,431.82</b>	<b>3,978.89</b>	<b>155,207.51</b>	<b>4,978.16</b>
<b>State and local government:</b>														
Local	1,795.53	698.61	4,347.82	1,005.70	6,143.35	1,231.95	1,910.11	807.78	8,455.71	1,460.92	10,365.81	1,621.45	16,509.16	2,016.56
State	4,467.51	1,138.42	2,021.72	738.06	6,489.23	1,329.06	13,878.34	1,627.27	11,889.17	1,612.37	25,767.51	2,179.19	32,256.74	2,154.32
Other public	--	--	372.44	322.26	372.44	322.26	246.65	285.26	255.71	276.94	502.36	397.58	874.80	511.78
<b>Total</b>	<b>6,263.03</b>	<b>1,329.02</b>	<b>6,741.99</b>	<b>1,287.94</b>	<b>13,005.02</b>	<b>1,835.10</b>	<b>16,035.10</b>	<b>1,775.98</b>	<b>20,600.59</b>	<b>2,074.09</b>	<b>36,635.69</b>	<b>2,552.85</b>	<b>49,640.71</b>	<b>2,748.64</b>
<b>Private:</b>														
Corporate	209,644.04	6,331.48	26,523.71	2,593.53	236,167.75	6,713.34	--	--	--	--	--	--	236,167.75	6,713.34
<b>Noncorporate private:</b>														
Total, noncorporate private	161,449.39	5,986.09	206,717.77	6,074.63	368,167.16	7,899.65	--	--	--	--	--	--	368,167.16	7,899.65
<b>All private</b>	<b>371,093.43</b>	<b>6,219.51</b>	<b>233,241.48</b>	<b>6,355.38</b>	<b>604,334.91</b>	<b>7,436.67</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>604,334.91</b>	<b>7,436.67</b>
<b>All owners</b>	<b>865,925.14</b>	<b>9,034.69</b>	<b>419,220.41</b>	<b>8,830.54</b>	<b>1,285,145.55</b>	<b>10,255.17</b>	<b>213,238.46</b>	<b>6,095.80</b>	<b>116,562.05</b>	<b>5,147.82</b>	<b>329,800.51</b>	<b>6,846.88</b>	<b>1,614,946.06</b>	<b>10,002.28</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C61.4: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10 year averages): 2004 - 2013

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	470,336.57	6,616.84	122,024.13	4,919.17	592,360.70	6,481.95	144,704.57	4,853.78	63,206.91	3,859.41	207,911.47	4,998.97	800,272.18	6,467.28
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>470,336.57</b>	<b>6,616.84</b>	<b>122,024.13</b>	<b>4,919.17</b>	<b>592,360.70</b>	<b>6,481.95</b>	<b>144,704.57</b>	<b>4,853.78</b>	<b>63,206.91</b>	<b>3,859.41</b>	<b>207,911.47</b>	<b>4,998.97</b>	<b>800,272.18</b>	<b>6,467.28</b>
<b>Other federal government:</b>														
Bureau of Land Management	15,723.34	2,192.86	45,382.33	3,415.37	61,105.67	3,996.25	1,750.91	708.07	9,657.38	1,548.04	11,408.30	1,701.94	72,513.96	4,204.67
Department of Defense and Energy	521.64	355.73	3,319.70	915.83	3,841.33	982.47	--	--	233.58	241.86	233.58	241.86	4,074.92	1,011.80
National Park Service	--	--	--	--	--	--	50,353.88	3,171.30	21,697.76	2,438.05	72,051.63	3,803.79	72,051.63	3,803.79
U.S. Fish and Wildlife Service	--	--	--	--	--	--	167.44	171.38	19.98	20.13	187.42	172.56	187.42	172.56
Other federal	--	--	4,261.17	1,007.87	4,261.17	1,007.87	--	--	517.74	315.34	517.74	315.34	4,778.91	1,056.05
<b>Total</b>	<b>16,244.97</b>	<b>2,204.18</b>	<b>52,963.20</b>	<b>3,610.95</b>	<b>69,208.18</b>	<b>4,161.37</b>	<b>52,272.23</b>	<b>3,198.54</b>	<b>32,126.44</b>	<b>2,808.51</b>	<b>84,398.67</b>	<b>3,986.49</b>	<b>153,606.85</b>	<b>4,928.95</b>
<b>State and local government:</b>														
Local	1,839.06	708.86	4,542.21	1,015.27	6,381.27	1,245.58	2,008.87	757.90	8,459.83	1,459.14	10,468.70	1,573.82	16,849.97	1,991.82
State	4,484.14	1,141.11	2,020.65	737.86	6,504.79	1,331.28	13,826.81	1,625.78	11,796.49	1,623.64	25,623.30	2,178.59	32,128.09	2,150.54
Other public	--	--	415.85	324.39	415.85	324.39	266.78	297.32	255.71	276.94	522.50	406.32	938.35	519.93
<b>Total</b>	<b>6,323.20</b>	<b>1,335.93</b>	<b>6,978.71</b>	<b>1,295.81</b>	<b>13,301.92</b>	<b>1,845.64</b>	<b>16,102.47</b>	<b>1,777.53</b>	<b>20,512.03</b>	<b>2,084.65</b>	<b>36,614.49</b>	<b>2,544.69</b>	<b>49,916.41</b>	<b>2,745.84</b>
<b>Private:</b>														
Corporate	211,001.96	6,335.10	27,943.19	2,665.12	238,945.14	6,739.80	--	--	--	--	--	--	238,945.14	6,739.80
<b>Noncorporate private:</b>														
Total, noncorporate private	157,324.93	5,924.48	201,624.50	6,020.35	358,949.43	7,837.04	--	--	--	--	--	--	358,949.43	7,837.04
<b>All private</b>	<b>368,326.88</b>	<b>6,197.98</b>	<b>229,567.69</b>	<b>6,323.57</b>	<b>597,894.57</b>	<b>7,410.64</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>597,894.57</b>	<b>7,410.64</b>
<b>All owners</b>	<b>861,231.64</b>	<b>9,013.33</b>	<b>411,533.73</b>	<b>8,768.35</b>	<b>1,272,765.37</b>	<b>10,217.74</b>	<b>213,079.26</b>	<b>6,068.40</b>	<b>115,845.38</b>	<b>5,197.85</b>	<b>328,924.64</b>	<b>6,839.95</b>	<b>1,601,690.01</b>	<b>9,994.37</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C61.5: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10 year averages): 2005 - 2014

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	471,419.62	6,602.68	119,095.47	4,867.57	590,515.09	6,444.38	147,102.56	4,871.64	61,775.37	3,845.27	208,877.93	4,957.58	799,393.02	6,505.48
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>471,419.62</b>	<b>6,602.68</b>	<b>119,095.47</b>	<b>4,867.57</b>	<b>590,515.09</b>	<b>6,444.38</b>	<b>147,102.56</b>	<b>4,871.64</b>	<b>61,775.37</b>	<b>3,845.27</b>	<b>208,877.93</b>	<b>4,957.58</b>	<b>799,393.02</b>	<b>6,505.48</b>
<b>Other federal government:</b>														
Bureau of Land Management	15,249.45	2,160.70	44,566.86	3,359.92	59,816.31	3,933.87	2,486.48	908.47	8,750.20	1,477.34	11,236.67	1,733.97	71,052.99	4,156.37
Department of Defense and Energy	521.91	355.54	3,197.14	901.38	3,719.05	968.95	--	--	233.58	241.71	233.58	241.71	3,952.63	998.64
National Park Service	--	--	--	--	--	--	50,946.24	3,171.47	21,414.18	2,414.70	72,360.42	3,790.79	72,360.42	3,790.79
U.S. Fish and Wildlife Service	--	--	--	--	--	--	167.38	171.24	19.98	20.11	187.36	172.42	187.36	172.42
Other federal	--	--	4,249.69	1,006.05	4,249.69	1,006.05	--	--	517.88	315.15	517.88	315.15	4,767.57	1,054.26
<b>Total</b>	<b>15,771.36</b>	<b>2,179.59</b>	<b>52,013.69</b>	<b>3,556.69</b>	<b>67,785.05</b>	<b>4,104.57</b>	<b>53,600.09</b>	<b>3,237.47</b>	<b>30,935.82</b>	<b>2,758.51</b>	<b>84,535.91</b>	<b>3,969.89</b>	<b>152,320.97</b>	<b>4,871.65</b>
<b>State and local government:</b>														
Local	2,646.20	890.65	4,769.84	1,031.89	7,416.04	1,369.77	2,010.71	758.24	8,214.89	1,438.98	10,225.60	1,555.39	17,641.63	2,058.77
State	4,679.41	1,153.28	2,084.19	739.93	6,763.60	1,351.67	13,810.57	1,622.82	11,737.46	1,615.16	25,548.03	2,171.27	32,311.62	2,157.67
Other public	--	--	397.47	322.88	397.47	322.88	266.78	297.13	255.71	276.77	522.50	406.06	919.96	518.79
<b>Total</b>	<b>7,325.60</b>	<b>1,450.49</b>	<b>7,251.50</b>	<b>1,309.59</b>	<b>14,577.10</b>	<b>1,945.54</b>	<b>16,088.06</b>	<b>1,774.81</b>	<b>20,208.06</b>	<b>2,069.55</b>	<b>36,296.12</b>	<b>2,531.76</b>	<b>50,873.22</b>	<b>2,804.35</b>
<b>Private:</b>														
Corporate	212,457.02	6,340.92	30,713.17	2,780.93	243,170.19	6,787.26	--	--	--	--	--	--	243,170.19	6,787.26
<b>Noncorporate private:</b>														
Total, noncorporate private	152,064.14	5,810.08	197,757.99	5,985.63	349,822.13	7,758.04	--	--	--	--	--	--	349,822.13	7,758.04
<b>All private</b>	<b>364,521.16</b>	<b>6,164.63</b>	<b>228,471.16</b>	<b>6,304.77</b>	<b>592,992.32</b>	<b>7,371.79</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>592,992.32</b>	<b>7,371.79</b>
<b>All owners</b>	<b>859,037.74</b>	<b>8,999.48</b>	<b>406,831.82</b>	<b>8,712.89</b>	<b>1,265,869.56</b>	<b>10,163.19</b>	<b>216,790.71</b>	<b>6,102.48</b>	<b>112,919.25</b>	<b>5,154.67</b>	<b>329,709.96</b>	<b>6,795.95</b>	<b>1,595,579.52</b>	<b>9,997.05</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C61.6: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10 year averages): 2006 - 2015

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	471,721.67	6,606.80	114,185.21	4,773.29	585,906.88	6,408.17	148,340.17	4,852.38	61,846.67	3,821.97	210,186.84	4,956.06	796,093.72	6,520.03
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>471,721.67</b>	<b>6,606.80</b>	<b>114,185.21</b>	<b>4,773.29</b>	<b>585,906.88</b>	<b>6,408.17</b>	<b>148,340.17</b>	<b>4,852.38</b>	<b>61,846.67</b>	<b>3,821.97</b>	<b>210,186.84</b>	<b>4,956.06</b>	<b>796,093.72</b>	<b>6,520.03</b>
<b>Other federal government:</b>														
Bureau of Land Management	14,982.02	2,116.48	43,239.91	3,290.52	58,221.93	3,853.30	2,856.65	979.82	8,628.61	1,477.20	11,485.25	1,772.26	69,707.18	4,101.54
Department of Defense and Energy	521.91	355.56	3,207.57	902.93	3,729.48	970.40	--	--	237.93	246.23	237.93	246.23	3,967.41	1,001.15
National Park Service	--	--	--	--	--	--	50,883.34	3,158.35	21,619.07	2,434.65	72,502.41	3,804.00	72,502.41	3,804.00
U.S. Fish and Wildlife Service	--	--	--	--	--	--	167.38	171.25	19.98	20.12	187.36	172.43	187.36	172.43
Other federal	--	--	4,328.82	1,010.60	4,328.82	1,010.60	--	--	519.28	315.54	519.28	315.54	4,848.10	1,058.72
<b>Total</b>	<b>15,503.93</b>	<b>2,135.75</b>	<b>50,776.30</b>	<b>3,496.53</b>	<b>66,280.23</b>	<b>4,032.08</b>	<b>53,907.36</b>	<b>3,241.20</b>	<b>31,024.87</b>	<b>2,773.63</b>	<b>84,932.23</b>	<b>3,988.41</b>	<b>151,212.46</b>	<b>4,837.19</b>
<b>State and local government:</b>														
Local	2,517.26	880.36	5,165.34	1,088.20	7,682.59	1,405.05	1,997.12	752.05	7,960.11	1,421.22	9,957.22	1,535.95	17,639.82	2,067.50
State	4,927.02	1,176.96	1,993.94	734.89	6,920.96	1,369.02	13,790.08	1,619.57	11,508.68	1,596.90	25,298.76	2,156.77	32,219.72	2,142.73
Other public	--	--	396.17	322.63	396.17	322.63	261.45	291.21	255.71	276.79	517.16	401.77	913.33	515.27
<b>Total</b>	<b>7,444.28</b>	<b>1,461.69</b>	<b>7,555.44</b>	<b>1,351.50</b>	<b>14,999.72</b>	<b>1,981.33</b>	<b>16,048.64</b>	<b>1,769.05</b>	<b>19,724.50</b>	<b>2,043.87</b>	<b>35,773.14</b>	<b>2,508.33</b>	<b>50,772.86</b>	<b>2,798.96</b>
<b>Private:</b>														
Corporate	216,782.29	6,300.00	35,202.95	2,989.26	251,985.24	6,820.17	--	--	--	--	--	--	251,985.24	6,820.17
<b>Noncorporate private:</b>														
Total, noncorporate private	147,141.73	5,756.33	190,458.58	5,887.41	337,600.31	7,676.33	--	--	--	--	--	--	337,600.31	7,676.33
<b>All private</b>	<b>363,924.01</b>	<b>6,156.72</b>	<b>225,661.54</b>	<b>6,264.66</b>	<b>589,585.55</b>	<b>7,347.64</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>589,585.55</b>	<b>7,347.64</b>
<b>All owners</b>	<b>858,593.89</b>	<b>8,962.78</b>	<b>398,178.49</b>	<b>8,619.36</b>	<b>1,256,772.38</b>	<b>10,075.25</b>	<b>218,296.18</b>	<b>6,083.93</b>	<b>112,596.05</b>	<b>5,138.20</b>	<b>330,892.22</b>	<b>6,798.40</b>	<b>1,587,664.60</b>	<b>9,950.63</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C61.7: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10 year averages): 2007 - 2016

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	470,656.86	6,609.83	111,072.97	4,715.97	581,729.83	6,423.93	149,469.09	4,841.45	62,743.87	3,842.81	212,212.95	4,971.64	793,942.79	6,564.05
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>470,656.86</b>	<b>6,609.83</b>	<b>111,072.97</b>	<b>4,715.97</b>	<b>581,729.83</b>	<b>6,423.93</b>	<b>149,469.09</b>	<b>4,841.45</b>	<b>62,743.87</b>	<b>3,842.81</b>	<b>212,212.95</b>	<b>4,971.64</b>	<b>793,942.79</b>	<b>6,564.05</b>
<b>Other federal government:</b>														
Bureau of Land Management	13,943.67	2,036.20	42,706.04	3,271.34	56,649.71	3,797.50	3,946.81	1,171.50	8,724.92	1,486.14	12,671.73	1,892.04	69,321.44	4,096.33
Department of Defense and Energy	813.79	446.38	3,493.23	943.08	4,307.02	1,043.37	--	--	257.07	256.40	257.07	256.40	4,564.09	1,074.42
National Park Service	--	--	--	--	--	--	51,300.24	3,164.14	21,909.00	2,447.69	73,209.24	3,809.64	73,209.24	3,809.64
U.S. Fish and Wildlife Service	--	--	--	--	--	--	167.33	171.26	19.98	20.12	187.31	172.44	187.31	172.44
Other federal	--	--	3,627.39	887.34	3,627.39	887.34	--	--	525.46	316.44	525.46	316.44	4,152.85	942.08
<b>Total</b>	<b>14,757.46</b>	<b>2,071.67</b>	<b>49,826.67</b>	<b>3,459.61</b>	<b>64,584.13</b>	<b>3,970.55</b>	<b>55,414.38</b>	<b>3,252.33</b>	<b>31,436.43</b>	<b>2,792.36</b>	<b>86,850.80</b>	<b>3,998.25</b>	<b>151,434.93</b>	<b>4,835.41</b>
<b>State and local government:</b>														
Local	3,004.65	956.21	5,811.31	1,150.52	8,815.96	1,512.77	2,002.46	753.42	7,912.73	1,418.76	9,915.19	1,534.29	18,731.14	2,140.73
State	4,764.39	1,127.82	2,174.03	762.28	6,938.41	1,342.58	13,739.57	1,617.91	11,615.46	1,602.42	25,355.04	2,161.65	32,293.45	2,128.00
Other public	--	--	395.74	322.60	395.74	322.60	261.45	291.27	251.72	272.52	513.16	398.88	908.90	513.00
<b>Total</b>	<b>7,769.04</b>	<b>1,470.88</b>	<b>8,381.07</b>	<b>1,415.46</b>	<b>16,150.11</b>	<b>2,040.27</b>	<b>16,003.48</b>	<b>1,768.09</b>	<b>19,779.90</b>	<b>2,047.15</b>	<b>35,783.39</b>	<b>2,512.52</b>	<b>51,933.49</b>	<b>2,842.31</b>
<b>Private:</b>														
Corporate	221,690.24	6,333.78	36,950.22	3,046.67	258,640.47	6,856.55	--	--	--	--	--	--	258,640.47	6,856.55
<b>Noncorporate private:</b>														
Total, noncorporate private	139,816.70	5,623.52	187,521.36	5,838.24	327,338.07	7,572.48	--	--	--	--	--	--	327,338.07	7,572.48
<b>All private</b>	<b>361,506.95</b>	<b>6,140.34</b>	<b>224,471.59</b>	<b>6,241.00</b>	<b>585,978.54</b>	<b>7,322.59</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>585,978.54</b>	<b>7,322.59</b>
<b>All owners</b>	<b>854,690.30</b>	<b>8,943.39</b>	<b>393,752.30</b>	<b>8,556.92</b>	<b>1,248,442.60</b>	<b>10,040.58</b>	<b>220,886.95</b>	<b>6,078.43</b>	<b>113,960.20</b>	<b>5,165.11</b>	<b>334,847.14</b>	<b>6,815.36</b>	<b>1,583,289.75</b>	<b>9,934.45</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



Table C61.8: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10 year averages): 2008 - 2017

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	468,814.77	6,602.69	111,521.22	4,721.87	580,335.99	6,416.94	149,669.10	4,837.32	62,387.36	3,817.62	212,056.47	4,983.09	792,392.46	6,542.17
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	468,814.77	6,602.69	111,521.22	4,721.87	580,335.99	6,416.94	149,669.10	4,837.32	62,387.36	3,817.62	212,056.47	4,983.09	792,392.46	6,542.17
<b>Other federal government:</b>														
Bureau of Land Management	14,120.88	2,050.82	42,496.56	3,264.16	56,617.44	3,798.72	3,916.58	1,167.41	8,585.64	1,478.56	12,502.23	1,883.57	69,119.67	4,100.10
Department of Defense and Energy	810.67	445.19	3,491.97	941.86	4,302.65	1,041.76	--	--	237.93	246.15	237.93	246.15	4,540.58	1,070.44
National Park Service	--	--	--	--	--	--	51,631.00	3,181.14	21,986.32	2,430.78	73,617.31	3,804.58	73,617.31	3,804.58
U.S. Fish and Wildlife Service	--	--	--	--	--	--	167.33	171.18	19.48	19.85	186.80	172.32	186.80	172.32
Other federal	--	--	2,285.67	696.52	2,285.67	696.52	--	--	169.51	103.17	169.51	103.17	2,455.19	704.12
Total	14,931.55	2,085.80	48,274.21	3,411.66	63,205.76	3,936.01	55,714.91	3,268.93	30,998.88	2,766.54	86,713.79	3,995.14	149,919.55	4,807.58
<b>State and local government:</b>														
Local	3,038.45	962.88	5,784.10	1,144.20	8,822.56	1,511.96	2,034.12	763.61	7,525.22	1,370.78	9,559.34	1,498.77	18,381.89	2,116.36
State	4,757.39	1,126.24	2,164.65	760.31	6,922.03	1,340.15	13,872.57	1,616.40	11,144.25	1,551.99	25,016.82	2,144.56	31,938.85	2,109.51
Other public	--	--	395.16	322.48	395.16	322.48	261.45	291.11	252.25	272.96	513.70	399.06	908.86	513.08
Total	7,795.84	1,474.02	8,343.91	1,409.28	16,139.75	2,038.11	16,168.14	1,768.15	18,921.72	1,986.66	35,089.85	2,482.68	51,229.60	2,818.12
<b>Private:</b>														
Corporate	226,147.25	6,325.40	38,817.38	3,120.10	264,964.62	6,868.21	--	--	--	--	--	--	264,964.62	6,868.21
<b>Noncorporate private:</b>														
Total, noncorporate private	134,333.85	5,546.42	185,789.01	5,810.79	320,122.87	7,510.76	--	--	--	--	--	--	320,122.87	7,510.76
<b>All private</b>	360,481.10	6,134.46	224,606.39	6,242.65	585,087.49	7,322.44	--	--	--	--	--	--	585,087.49	7,322.44
<b>All owners</b>	852,023.26	8,935.50	392,745.73	8,542.72	1,244,768.99	10,023.97	221,552.15	6,084.04	112,307.96	5,108.75	333,860.11	6,811.11	1,578,629.09	9,908.18

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C61.9: Soil Organic Carbon by Owner Group and Forest Land Status, All California (10 year averages): 2009 - 2018**

\*information duplicated in Table C53

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	413,405.31	5,864.30	98,297.53	4,180.05	511,702.84	5,734.71	134,103.84	4,388.48	55,434.71	3,416.65	189,812.31	4,561.12	701,515.15	5,858.26
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>413,405.31</b>	<b>5,864.30</b>	<b>98,297.53</b>	<b>4,180.05</b>	<b>511,702.84</b>	<b>5,734.71</b>	<b>134,103.84</b>	<b>4,388.48</b>	<b>55,434.71</b>	<b>3,416.65</b>	<b>189,812.31</b>	<b>4,561.12</b>	<b>701,515.15</b>	<b>5,858.26</b>
<b>Other federal government:</b>														
Bureau of Land Management	10,707.47	1,658.17	37,181.32	2,866.42	47,888.79	3,255.43	3,504.77	1,046.46	7,030.58	1,233.96	10,535.35	1,617.65	58,424.14	3,516.14
Department of Defense and Energy	675.05	378.11	2,977.42	785.09	3,652.47	871.39	--	--	219.17	226.64	219.17	226.64	3,871.64	900.38
National Park Service	--	--	--	--	--	--	45,465.62	2,804.85	18,799.66	2,104.71	64,265.28	3,340.63	64,265.28	3,340.63
U.S. Fish and Wildlife Service	--	--	--	--	--	--	156.16	159.68	16.29	16.80	172.44	160.56	172.44	160.56
Other federal	128.20	159.50	1,943.58	612.32	2,071.77	632.76	--	--	157.93	96.62	157.93	96.62	2,229.71	640.09
<b>Total</b>	<b>11,510.72</b>	<b>1,702.51</b>	<b>42,102.32</b>	<b>2,989.22</b>	<b>53,613.03</b>	<b>3,371.94</b>	<b>49,126.54</b>	<b>2,887.91</b>	<b>26,223.64</b>	<b>2,383.55</b>	<b>75,350.18</b>	<b>3,510.23</b>	<b>128,963.21</b>	<b>4,156.68</b>
<b>State and local government:</b>														
Local	2,764.99	880.06	5,444.78	1,079.65	8,209.77	1,407.07	2,062.58	728.48	6,328.02	1,172.18	8,390.60	1,315.16	16,600.37	1,915.17
State	4,480.90	1,037.92	2,093.64	696.57	6,574.54	1,235.05	12,282.88	1,464.75	9,746.43	1,373.16	22,029.30	1,923.97	28,603.84	1,928.42
Other public	--	--	41.78	37.90	41.78	37.90	237.56	264.40	232.28	251.23	469.84	364.73	511.62	366.69
<b>Total</b>	<b>7,245.89</b>	<b>1,339.74</b>	<b>7,580.20</b>	<b>1,283.95</b>	<b>14,826.09</b>	<b>1,853.44</b>	<b>14,583.02</b>	<b>1,618.67</b>	<b>16,306.72</b>	<b>1,736.98</b>	<b>30,889.74</b>	<b>2,216.74</b>	<b>45,715.83</b>	<b>2,532.07</b>
<b>Private:</b>														
Corporate	203,405.75	5,577.12	36,473.16	2,868.68	239,878.91	6,096.26	--	--	--	--	--	--	239,878.91	6,096.26
<b>Noncorporate private:</b>														
Total, noncorporate private	117,505.53	4,944.13	166,371.39	5,241.01	283,876.93	6,733.21	--	--	--	--	--	--	283,876.93	6,733.21
<b>All private</b>	<b>320,911.28</b>	<b>5,438.53</b>	<b>202,844.55</b>	<b>5,653.53</b>	<b>523,755.84</b>	<b>6,542.56</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>523,755.84</b>	<b>6,542.56</b>
<b>All owners</b>	<b>753,073.20</b>	<b>7,940.23</b>	<b>350,824.60</b>	<b>7,653.88</b>	<b>1,103,897.80</b>	<b>8,954.73</b>	<b>197,813.40</b>	<b>5,483.49</b>	<b>97,965.06</b>	<b>4,506.98</b>	<b>296,052.22</b>	<b>6,130.71</b>	<b>1,399,950.03</b>	<b>8,855.48</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C62: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2009-2018: All California**

*\*information duplicated in Table C70.9*

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	39,443.96	1,176.49	3,917.45	342.35	43,361.42	1,190.06	13,181.24	885.04	2,914.04	320.65	16,119.04	910.85	59,480.45	1,456.11
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>39,443.96</b>	<b>1,176.49</b>	<b>3,917.45</b>	<b>342.35</b>	<b>43,361.42</b>	<b>1,190.06</b>	<b>13,181.24</b>	<b>885.04</b>	<b>2,914.04</b>	<b>320.65</b>	<b>16,119.04</b>	<b>910.85</b>	<b>59,480.45</b>	<b>1,456.11</b>
<b>Other federal government:</b>														
Bureau of Land Management	668.09	140.90	1,064.88	148.33	1,732.97	202.91	270.71	106.43	424.26	140.65	694.97	176.38	2,427.94	264.97
Department of Defense and Energy	25.40	16.06	75.54	39.25	100.94	42.41	--	--	4.10	4.24	4.10	4.24	105.04	42.62
National Park Service	--	--	--	--	--	--	6,849.64	750.30	1,289.41	291.05	8,139.04	795.37	8,139.04	795.37
U.S. Fish and Wildlife Service	--	--	--	--	--	--	1.57	1.60	--	--	1.57	1.60	1.57	1.60
Other federal	0.80	1.00	35.85	18.67	36.65	18.70	--	--	1.39	1.05	1.39	1.05	38.03	18.73
<b>Total</b>	<b>694.29</b>	<b>141.66</b>	<b>1,176.26</b>	<b>153.97</b>	<b>1,870.56</b>	<b>206.56</b>	<b>7,121.92</b>	<b>752.12</b>	<b>1,719.15</b>	<b>321.01</b>	<b>8,841.07</b>	<b>807.24</b>	<b>10,711.62</b>	<b>809.06</b>
<b>State and local government:</b>														
Local	351.28	224.08	263.07	96.36	614.35	243.92	119.97	46.87	276.09	117.59	396.06	126.14	1,010.41	274.31
State	449.82	135.82	37.65	18.89	487.47	135.81	2,018.01	344.52	545.55	137.47	2,563.56	365.63	3,051.03	346.33
Other public	--	--	--	--	--	--	16.64	18.52	2.19	2.37	18.84	18.67	18.84	18.67
<b>Total</b>	<b>801.10</b>	<b>258.66</b>	<b>300.73</b>	<b>98.19</b>	<b>1,101.83</b>	<b>275.90</b>	<b>2,154.62</b>	<b>346.05</b>	<b>823.83</b>	<b>180.45</b>	<b>2,978.45</b>	<b>384.57</b>	<b>4,080.28</b>	<b>425.03</b>
<b>Private:</b>														
Corporate	24,097.77	1,124.91	1,204.58	159.45	25,302.35	1,131.29	--	--	--	--	--	--	25,302.35	1,131.29
<b>Noncorporate private:</b>														
Total, noncorporate private	11,220.64	789.94	5,140.63	342.56	16,361.27	854.10	--	--	--	--	--	--	16,361.27	854.10
<b>All private</b>	<b>35,318.41</b>	<b>1,235.36</b>	<b>6,345.21</b>	<b>372.69</b>	<b>41,663.62</b>	<b>1,263.20</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>41,663.62</b>	<b>1,263.20</b>
<b>All owners</b>	<b>76,257.77</b>	<b>1,717.93</b>	<b>11,739.65</b>	<b>535.74</b>	<b>87,997.42</b>	<b>1,751.91</b>	<b>22,457.78</b>	<b>1,210.95</b>	<b>5,457.02</b>	<b>487.61</b>	<b>27,938.55</b>	<b>1,273.96</b>	<b>115,935.97</b>	<b>2,087.57</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C63: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	0.01	0.01	71.50	32.88	71.50	32.88	356.69	244.95	223.49	91.98	580.18	275.89	651.68	277.85
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>0.01</b>	<b>0.01</b>	<b>71.50</b>	<b>32.88</b>	<b>71.50</b>	<b>32.88</b>	<b>356.69</b>	<b>244.95</b>	<b>223.49</b>	<b>91.98</b>	<b>580.18</b>	<b>275.89</b>	<b>651.68</b>	<b>277.85</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	38.03	22.55	38.03	22.55	--	--	0.33	0.33	0.33	0.33	38.36	22.56
Department of Defense and Energy	--	--	56.97	37.92	56.97	37.92	--	--	--	--	--	--	56.97	37.92
National Park Service	--	--	--	--	--	--	--	--	105.10	116.98	105.10	116.98	105.10	116.98
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	12.04	11.93	12.04	11.93	--	--	--	--	--	--	12.04	11.93
<b>Total</b>	<b>--</b>	<b>--</b>	<b>107.04</b>	<b>45.68</b>	<b>107.04</b>	<b>45.68</b>	<b>--</b>	<b>--</b>	<b>105.43</b>	<b>116.98</b>	<b>105.43</b>	<b>116.98</b>	<b>212.47</b>	<b>125.58</b>
<b>State and local government:</b>														
Local	--	--	132.51	86.35	132.51	86.35	119.97	46.87	219.26	116.08	339.23	124.74	471.74	151.64
State	47.84	50.08	3.84	3.34	51.68	50.20	299.64	148.37	221.63	92.72	521.27	174.82	572.95	181.72
Other public	--	--	--	--	--	--	16.64	18.52	2.19	2.37	18.84	18.67	18.84	18.67
<b>Total</b>	<b>47.84</b>	<b>50.08</b>	<b>136.34</b>	<b>86.41</b>	<b>184.19</b>	<b>99.88</b>	<b>436.25</b>	<b>156.60</b>	<b>443.08</b>	<b>148.45</b>	<b>879.33</b>	<b>214.90</b>	<b>1,063.52</b>	<b>235.61</b>
<b>Private:</b>														
Corporate	305.98	169.97	237.37	68.52	543.35	183.25	--	--	--	--	--	--	543.35	183.25
<b>Noncorporate private:</b>														
Total, noncorporate private	927.97	253.82	1,100.34	165.84	2,028.31	302.02	--	--	--	--	--	--	2,028.31	302.02
<b>All private</b>	<b>1,233.95</b>	<b>304.39</b>	<b>1,337.71</b>	<b>178.50</b>	<b>2,571.66</b>	<b>351.96</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2,571.66</b>	<b>351.96</b>
<b>All owners</b>	<b>1,281.80</b>	<b>308.40</b>	<b>1,652.60</b>	<b>206.08</b>	<b>2,934.40</b>	<b>370.03</b>	<b>792.94</b>	<b>290.73</b>	<b>772.00</b>	<b>209.07</b>	<b>1,564.95</b>	<b>367.63</b>	<b>4,499.34</b>	<b>520.29</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C64: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2009-2018: Central Valley**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other federal government:</b>														
Bureau of Land Management	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>State and local government:</b>														
Local	--	--	6.75	6.91	6.75	6.91	--	--	--	--	--	--	6.75	6.91
State	--	--	--	--	--	--	--	--	10.47	10.67	10.47	10.67	10.47	10.67
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	6.75	6.91	6.75	6.91	--	--	10.47	10.67	10.47	10.67	17.21	12.71
<b>Private:</b>														
Corporate	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Noncorporate private:</b>														
Total, noncorporate private	--	--	117.21	53.06	117.21	53.06	--	--	--	--	--	--	117.21	53.06
<b>All private</b>	--	--	117.21	53.06	117.21	53.06	--	--	--	--	--	--	117.21	53.06
<b>All owners</b>	--	--	123.96	53.51	123.96	53.51	--	--	10.47	10.67	10.47	10.67	134.42	54.56

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C65: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2009-2018: Eastside**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	1,815.93	240.36	983.78	148.83	2,799.71	281.27	256.20	115.70	229.64	74.59	485.85	137.06	3,285.56	312.52
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1,815.93</b>	<b>240.36</b>	<b>983.78</b>	<b>148.83</b>	<b>2,799.71</b>	<b>281.27</b>	<b>256.20</b>	<b>115.70</b>	<b>229.64</b>	<b>74.59</b>	<b>485.85</b>	<b>137.06</b>	<b>3,285.56</b>	<b>312.52</b>
<b>Other federal government:</b>														
Bureau of Land Management	86.83	83.44	363.84	71.80	450.67	109.74	--	--	48.13	24.41	48.13	24.41	498.80	111.82
Department of Defense and Energy	--	--	16.53	9.94	16.53	9.94	--	--	--	--	--	--	16.53	9.94
National Park Service	--	--	--	--	--	--	--	--	71.49	38.82	71.49	38.82	71.49	38.82
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>86.83</b>	<b>83.44</b>	<b>380.37</b>	<b>72.29</b>	<b>467.20</b>	<b>110.07</b>	<b>--</b>	<b>--</b>	<b>119.62</b>	<b>45.78</b>	<b>119.62</b>	<b>45.78</b>	<b>586.82</b>	<b>118.18</b>
<b>State and local government:</b>														
Local	--	--	12.30	12.40	12.30	12.40	--	--	--	--	--	--	12.30	12.40
State	--	--	--	--	--	--	19.72	21.95	0.39	0.34	20.12	21.95	20.12	21.95
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>12.30</b>	<b>12.40</b>	<b>12.30</b>	<b>12.40</b>	<b>19.72</b>	<b>21.95</b>	<b>0.39</b>	<b>0.34</b>	<b>20.12</b>	<b>21.95</b>	<b>32.42</b>	<b>25.21</b>
<b>Private:</b>														
Corporate	718.68	145.35	58.06	28.79	776.74	148.18	--	--	--	--	--	--	776.74	148.18
<b>Noncorporate private:</b>														
Total, noncorporate private	223.50	84.35	32.44	10.85	255.94	85.12	--	--	--	--	--	--	255.94	85.12
<b>All private</b>	<b>942.18</b>	<b>167.04</b>	<b>90.50</b>	<b>30.53</b>	<b>1,032.68</b>	<b>169.84</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1,032.68</b>	<b>169.84</b>
<b>All owners</b>	<b>2,844.94</b>	<b>305.64</b>	<b>1,466.95</b>	<b>168.71</b>	<b>4,311.90</b>	<b>347.79</b>	<b>275.93</b>	<b>117.76</b>	<b>349.66</b>	<b>87.52</b>	<b>625.58</b>	<b>146.16</b>	<b>4,937.48</b>	<b>376.61</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C66: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	12,655.23	774.83	1,055.84	237.19	13,711.07	803.20	6,500.98	557.53	638.05	173.72	7,139.03	579.20	20,850.10	978.71
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>12,655.23</b>	<b>774.83</b>	<b>1,055.84</b>	<b>237.19</b>	<b>13,711.07</b>	<b>803.20</b>	<b>6,500.98</b>	<b>557.53</b>	<b>638.05</b>	<b>173.72</b>	<b>7,139.03</b>	<b>579.20</b>	<b>20,850.10</b>	<b>978.71</b>
<b>Other federal government:</b>														
Bureau of Land Management	360.66	97.77	253.59	86.40	614.25	130.80	16.06	15.91	33.80	22.72	49.86	27.74	664.11	133.65
Department of Defense and Energy	--	--	--	--	--	--	--	--	4.10	4.24	4.10	4.24	4.10	4.24
National Park Service	--	--	--	--	--	--	728.31	320.69	172.77	84.58	901.08	331.89	901.08	331.89
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	0.80	1.00	0.03	0.02	0.83	1.00	--	--	0.68	0.75	0.68	0.75	1.51	1.25
<b>Total</b>	<b>361.46</b>	<b>97.78</b>	<b>253.62</b>	<b>86.40</b>	<b>615.08</b>	<b>130.80</b>	<b>744.38</b>	<b>320.93</b>	<b>211.34</b>	<b>87.66</b>	<b>955.72</b>	<b>332.92</b>	<b>1,570.80</b>	<b>355.28</b>
<b>State and local government:</b>														
Local	0.88	0.75	3.33	2.27	4.21	2.39	--	--	6.33	7.01	6.33	7.01	10.54	7.40
State	24.13	18.01	11.72	8.86	35.85	20.07	29.54	28.99	71.59	52.34	101.13	59.95	136.98	63.22
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>25.01</b>	<b>18.03</b>	<b>15.05</b>	<b>9.14</b>	<b>40.06</b>	<b>20.21</b>	<b>29.54</b>	<b>28.99</b>	<b>77.92</b>	<b>52.81</b>	<b>107.46</b>	<b>60.35</b>	<b>147.52</b>	<b>63.62</b>
<b>Private:</b>														
Corporate	5,069.10	577.21	305.95	86.25	5,375.05	583.11	--	--	--	--	--	--	5,375.05	583.11
<b>Noncorporate private:</b>														
Total, noncorporate private	3,041.71	432.06	1,374.59	203.18	4,416.30	475.86	--	--	--	--	--	--	4,416.30	475.86
<b>All private</b>	<b>8,110.81</b>	<b>707.93</b>	<b>1,680.54</b>	<b>220.09</b>	<b>9,791.35</b>	<b>738.89</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>9,791.35</b>	<b>738.89</b>
<b>All owners</b>	<b>21,152.52</b>	<b>1,052.77</b>	<b>3,005.05</b>	<b>334.75</b>	<b>24,157.57</b>	<b>1,097.41</b>	<b>7,274.90</b>	<b>643.55</b>	<b>927.31</b>	<b>201.62</b>	<b>8,202.21</b>	<b>670.39</b>	<b>32,359.78</b>	<b>1,275.22</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C67: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2009-2018: North Coast**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	63.12	36.00	1.83	1.76	64.95	36.04	80.88	72.75	--	--	80.88	72.75	145.83	81.08
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>63.12</b>	<b>36.00</b>	<b>1.83</b>	<b>1.76</b>	<b>64.95</b>	<b>36.04</b>	<b>80.88</b>	<b>72.75</b>	<b>--</b>	<b>--</b>	<b>80.88</b>	<b>72.75</b>	<b>145.83</b>	<b>81.08</b>
<b>Other federal government:</b>														
Bureau of Land Management	83.05	42.08	--	--	83.05	42.08	248.54	105.13	--	--	248.54	105.13	331.59	113.25
Department of Defense and Energy	19.07	14.70	--	--	19.07	14.70	--	--	--	--	--	--	19.07	14.70
National Park Service	--	--	--	--	--	--	673.88	385.36	3.50	3.00	677.38	385.36	677.38	385.36
U.S. Fish and Wildlife Service	--	--	--	--	--	--	1.57	1.60	--	--	1.57	1.60	1.57	1.60
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>102.13</b>	<b>44.58</b>	<b>--</b>	<b>--</b>	<b>102.13</b>	<b>44.58</b>	<b>923.99</b>	<b>399.22</b>	<b>3.50</b>	<b>3.00</b>	<b>927.49</b>	<b>399.16</b>	<b>1,029.62</b>	<b>401.05</b>
<b>State and local government:</b>														
Local	285.82	221.69	2.66	2.03	288.48	221.70	--	--	41.53	15.92	41.53	15.92	330.01	222.27
State	296.27	118.21	--	--	296.27	118.21	1,257.42	319.45	37.65	35.60	1,295.07	321.43	1,591.34	322.02
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>582.09</b>	<b>249.61</b>	<b>2.66</b>	<b>2.03</b>	<b>584.75</b>	<b>249.62</b>	<b>1,257.42</b>	<b>319.45</b>	<b>79.17</b>	<b>39.00</b>	<b>1,336.59</b>	<b>321.82</b>	<b>1,921.35</b>	<b>387.19</b>
<b>Private:</b>														
Corporate	9,487.02	921.64	47.01	22.18	9,534.03	921.78	--	--	--	--	--	--	9,534.03	921.78
<b>Noncorporate private:</b>														
Total, noncorporate private	3,885.78	513.18	228.40	58.13	4,114.18	516.08	--	--	--	--	--	--	4,114.18	516.08
<b>All private</b>	<b>13,372.80</b>	<b>1,025.68</b>	<b>275.40</b>	<b>62.15</b>	<b>13,648.21</b>	<b>1,026.53</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>13,648.21</b>	<b>1,026.53</b>
<b>All owners</b>	<b>14,120.15</b>	<b>1,055.62</b>	<b>279.89</b>	<b>62.20</b>	<b>14,400.04</b>	<b>1,056.44</b>	<b>2,262.29</b>	<b>516.44</b>	<b>82.68</b>	<b>39.12</b>	<b>2,344.97</b>	<b>517.87</b>	<b>16,745.01</b>	<b>1,167.27</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C68: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	24,446.61	1,069.78	1,266.83	186.91	25,713.43	1,077.67	5,682.44	722.78	1,387.02	223.23	7,069.46	747.58	32,782.90	1,299.71
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>24,446.61</b>	<b>1,069.78</b>	<b>1,266.83</b>	<b>186.91</b>	<b>25,713.43</b>	<b>1,077.67</b>	<b>5,682.44</b>	<b>722.78</b>	<b>1,387.02</b>	<b>223.23</b>	<b>7,069.46</b>	<b>747.58</b>	<b>32,782.90</b>	<b>1,299.71</b>
<b>Other federal government:</b>														
Bureau of Land Management	137.54	42.64	376.90	94.26	514.45	102.59	6.11	4.67	290.01	127.12	296.12	127.20	810.56	162.81
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	5,447.44	605.19	864.03	247.49	6,311.47	645.71	6,311.47	645.71
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	9.85	8.68	9.85	8.68	--	--	0.71	0.73	0.71	0.73	10.56	8.71
<b>Total</b>	<b>137.54</b>	<b>42.64</b>	<b>386.76</b>	<b>94.47</b>	<b>524.30</b>	<b>102.73</b>	<b>5,453.55</b>	<b>605.17</b>	<b>1,154.74</b>	<b>276.68</b>	<b>6,608.29</b>	<b>657.09</b>	<b>7,132.59</b>	<b>657.54</b>
<b>State and local government:</b>														
Local	64.58	32.68	83.34	37.10	147.92	49.42	--	--	7.51	7.52	7.51	7.52	155.43	49.99
State	81.58	53.07	22.10	16.36	103.67	54.91	310.97	124.16	143.85	73.27	454.82	142.90	558.49	149.73
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>146.16</b>	<b>62.32</b>	<b>105.44</b>	<b>40.54</b>	<b>251.59</b>	<b>73.87</b>	<b>310.97</b>	<b>124.16</b>	<b>151.36</b>	<b>73.65</b>	<b>462.34</b>	<b>143.10</b>	<b>713.93</b>	<b>157.82</b>
<b>Private:</b>														
Corporate	8,507.61	567.00	517.22	108.98	9,024.83	575.38	--	--	--	--	--	--	9,024.83	575.38
<b>Noncorporate private:</b>														
Total, noncorporate private	2,999.25	388.86	1,908.87	195.68	4,908.12	432.72	--	--	--	--	--	--	4,908.12	432.72
<b>All private</b>	<b>11,506.86</b>	<b>662.47</b>	<b>2,426.09</b>	<b>221.18</b>	<b>13,932.95</b>	<b>688.26</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>13,932.95</b>	<b>688.26</b>
<b>All owners</b>	<b>36,237.17</b>	<b>1,257.16</b>	<b>4,185.10</b>	<b>306.53</b>	<b>40,422.27</b>	<b>1,279.59</b>	<b>11,446.97</b>	<b>950.54</b>	<b>2,693.12</b>	<b>362.82</b>	<b>14,140.09</b>	<b>1,004.92</b>	<b>54,562.36</b>	<b>1,599.62</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C69: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	463.07	138.32	537.68	99.76	1,000.75	170.29	304.04	102.93	435.84	128.73	763.63	165.23	1,764.38	236.48
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>463.07</b>	<b>138.32</b>	<b>537.68</b>	<b>99.76</b>	<b>1,000.75</b>	<b>170.29</b>	<b>304.04</b>	<b>102.93</b>	<b>435.84</b>	<b>128.73</b>	<b>763.63</b>	<b>165.23</b>	<b>1,764.38</b>	<b>236.48</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	32.52	22.47	32.52	22.47	--	--	52.00	50.58	52.00	50.58	84.51	55.35
Department of Defense and Energy	6.33	6.47	2.03	2.08	8.36	6.79	--	--	--	--	--	--	8.36	6.79
National Park Service	--	--	--	--	--	--	--	--	72.52	41.34	72.52	41.34	72.52	41.34
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	13.93	11.44	13.93	11.44	--	--	0.00	0.00	0.00	0.00	13.93	11.44
<b>Total</b>	<b>6.33</b>	<b>6.47</b>	<b>48.47</b>	<b>25.30</b>	<b>54.80</b>	<b>26.11</b>	<b>--</b>	<b>--</b>	<b>124.52</b>	<b>63.83</b>	<b>124.52</b>	<b>63.83</b>	<b>179.32</b>	<b>68.95</b>
<b>State and local government:</b>														
Local	--	--	22.19	16.51	22.19	16.51	--	--	1.46	1.42	1.46	1.42	23.65	16.53
State	--	--	--	--	--	--	100.71	88.46	59.97	34.08	160.68	94.67	160.68	94.67
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>22.19</b>	<b>16.51</b>	<b>22.19</b>	<b>16.51</b>	<b>100.71</b>	<b>88.46</b>	<b>61.43</b>	<b>34.11</b>	<b>162.14</b>	<b>94.68</b>	<b>184.33</b>	<b>96.10</b>
<b>Private:</b>														
Corporate	9.38	9.26	38.98	19.50	48.35	21.59	--	--	--	--	--	--	48.35	21.59
<b>Noncorporate private:</b>														
Total, noncorporate private	142.42	90.37	378.78	103.83	521.20	174.90	--	--	--	--	--	--	521.20	174.90
<b>All private</b>	<b>151.80</b>	<b>90.84</b>	<b>417.75</b>	<b>105.64</b>	<b>569.55</b>	<b>176.23</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>569.55</b>	<b>176.23</b>
<b>All owners</b>	<b>621.19</b>	<b>165.61</b>	<b>1,026.10</b>	<b>148.20</b>	<b>1,647.29</b>	<b>246.84</b>	<b>404.75</b>	<b>135.72</b>	<b>621.78</b>	<b>147.68</b>	<b>1,050.29</b>	<b>200.85</b>	<b>2,697.58</b>	<b>317.64</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C70.1: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10 year averages): 2001 - 2010

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	40,004.09	1,147.85	4,943.43	371.42	44,947.52	1,170.85	11,508.35	746.01	2,561.38	258.37	14,069.73	784.83	59,017.25	1,224.01
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	40,004.09	1,147.85	4,943.43	371.42	44,947.52	1,170.85	11,508.35	746.01	2,561.38	258.37	14,069.73	784.83	59,017.25	1,224.01
<b>Other federal government:</b>														
Bureau of Land Management	729.78	124.86	997.50	121.77	1,727.29	172.36	50.02	24.16	378.44	95.79	428.46	98.69	2,155.75	195.57
Department of Defense and Energy	10.05	11.04	49.20	21.12	59.25	23.83	--	--	--	--	--	--	59.25	23.83
National Park Service	--	--	--	--	--	--	6,344.55	734.86	932.87	167.47	7,277.41	732.51	7,277.41	732.51
U.S. Fish and Wildlife Service	--	--	--	--	--	--	10.55	12.97	--	--	10.55	12.97	10.55	12.97
Other federal	--	--	57.25	24.60	57.25	24.60	125.37	110.65	28.62	24.06	153.99	113.08	211.24	115.72
Total	739.83	125.34	1,103.96	125.33	1,843.79	174.77	6,530.48	739.92	1,339.92	193.55	7,870.41	741.87	9,714.20	755.01
<b>State and local government:</b>														
Local	167.86	71.33	190.93	71.79	358.79	101.22	106.33	53.94	276.35	71.43	382.68	89.32	741.46	134.53
State	552.68	164.50	43.85	19.97	596.53	165.59	2,427.59	433.98	410.73	95.88	2,838.32	442.55	3,434.86	457.38
Other public	--	--	0.24	0.22	0.24	0.22	22.80	20.43	10.89	8.73	33.70	22.22	33.94	22.22
Total	720.53	179.05	235.02	74.50	955.56	193.78	2,556.73	437.70	697.98	119.50	3,254.70	451.47	4,210.26	476.07
<b>Private:</b>														
Corporate	25,599.19	1,213.00	540.60	79.08	26,139.80	1,215.58	--	--	--	--	--	--	26,139.80	1,215.58
<b>Noncorporate private:</b>														
Total, noncorporate private	13,647.87	799.64	5,546.89	296.58	19,194.76	839.30	--	--	--	--	--	--	19,194.76	839.30
<b>All private</b>	39,247.06	1,283.15	6,087.49	303.49	45,334.56	1,292.81	--	--	--	--	--	--	45,334.56	1,292.81
<b>All owners</b>	80,711.52	1,725.96	12,369.89	499.29	93,081.42	1,750.70	20,595.56	1,116.40	4,599.28	343.83	25,194.84	1,148.24	118,276.26	1,922.70

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C70.2: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10 year averages): 2002 - 2011

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	40,415.29	1,167.25	4,769.25	373.08	45,184.55	1,190.42	11,545.90	751.13	2,514.34	258.54	14,060.24	789.61	59,244.79	1,248.66
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	40,415.29	1,167.25	4,769.25	373.08	45,184.55	1,190.42	11,545.90	751.13	2,514.34	258.54	14,060.24	789.61	59,244.79	1,248.66
<b>Other federal government:</b>														
Bureau of Land Management	728.71	124.29	981.68	123.69	1,710.39	173.87	47.49	22.58	426.74	110.85	474.22	113.04	2,184.61	204.68
Department of Defense and Energy	16.54	13.03	49.50	20.78	66.04	24.52	--	--	--	--	--	--	66.04	24.52
National Park Service	--	--	--	--	--	--	6,613.91	759.34	944.59	170.11	7,558.49	756.24	7,558.49	756.24
U.S. Fish and Wildlife Service	--	--	--	--	--	--	10.55	12.97	--	--	10.55	12.97	10.55	12.97
Other federal	--	--	56.78	24.50	56.78	24.50	125.96	111.10	28.73	24.16	154.70	113.53	211.48	116.15
Total	745.25	124.97	1,087.96	127.10	1,833.21	176.38	6,797.91	764.15	1,400.05	202.52	8,197.96	765.24	10,031.18	778.26
<b>State and local government:</b>														
Local	292.74	203.06	224.13	93.47	516.87	223.55	109.56	54.31	262.55	71.08	372.11	89.26	888.98	240.45
State	551.45	163.88	41.60	18.51	593.05	164.80	2,411.66	433.92	432.27	97.62	2,843.93	442.94	3,436.98	459.07
Other public	--	--	0.25	0.22	0.25	0.22	23.49	20.73	6.78	7.75	30.27	22.14	30.52	22.14
Total	844.19	260.77	265.98	95.28	1,110.17	277.56	2,544.72	437.71	701.60	120.58	3,246.32	451.82	4,356.48	517.67
<b>Private:</b>														
Corporate	24,519.39	1,231.46	699.50	109.75	25,218.90	1,233.13	--	--	--	--	--	--	25,218.90	1,233.13
<b>Noncorporate private:</b>														
Total, noncorporate private	13,677.71	805.25	5,565.38	317.25	19,243.10	851.78	--	--	--	--	--	--	19,243.10	851.78
<b>All private</b>	38,197.11	1,313.57	6,264.89	331.26	44,461.99	1,325.50	--	--	--	--	--	--	44,461.99	1,325.50
<b>All owners</b>	80,201.84	1,766.96	12,388.09	521.37	92,589.93	1,794.05	20,888.53	1,137.61	4,615.99	349.47	25,504.52	1,168.38	118,094.44	1,973.84

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C70.3: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10 year averages): 2003 - 2012

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	39,821.12	1,081.19	4,524.87	362.29	44,346.00	1,097.44	12,196.51	702.01	2,673.65	267.30	14,870.16	721.18	59,216.16	1,256.25
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	39,821.12	1,081.19	4,524.87	362.29	44,346.00	1,097.44	12,196.51	702.01	2,673.65	267.30	14,870.16	721.18	59,216.16	1,256.25
<b>Other federal government:</b>														
Bureau of Land Management	797.55	130.27	1,024.13	133.55	1,821.68	184.63	73.40	36.78	350.11	103.31	423.51	109.65	2,245.19	211.80
Department of Defense and Energy	24.93	16.07	45.61	20.29	70.54	25.88	--	--	3.95	4.09	3.95	4.09	74.48	26.20
National Park Service	--	--	--	--	--	--	6,582.13	729.20	1,048.87	218.01	7,631.00	752.04	7,631.00	752.04
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	68.11	27.57	68.11	27.57	100.56	106.18	31.29	25.08	131.85	109.11	199.96	112.32
Total	822.48	130.73	1,137.85	137.17	1,960.33	187.00	6,756.09	732.17	1,434.22	239.57	8,190.31	759.86	10,150.64	757.61
<b>State and local government:</b>														
Local	272.76	213.53	210.59	92.35	483.35	232.66	108.91	53.44	242.34	66.31	351.25	83.90	834.59	244.83
State	517.57	157.75	44.31	19.76	561.88	157.65	2,145.11	383.00	426.74	100.86	2,571.85	389.74	3,133.73	371.78
Other public	--	--	0.25	0.22	0.25	0.22	15.70	18.16	7.95	8.61	23.65	20.10	23.90	20.10
Total	790.33	264.22	255.14	94.44	1,045.47	279.84	2,269.72	384.70	677.03	119.63	2,946.76	395.52	3,992.23	432.18
<b>Private:</b>														
Corporate	24,119.88	1,184.35	635.40	97.87	24,755.28	1,186.54	--	--	--	--	--	--	24,755.28	1,186.54
<b>Noncorporate private:</b>														
Total, noncorporate private	13,637.90	815.75	5,550.92	332.31	19,188.82	863.65	--	--	--	--	--	--	19,188.82	863.65
<b>All private</b>	37,757.78	1,278.74	6,186.32	343.44	43,944.10	1,292.04	--	--	--	--	--	--	43,944.10	1,292.04
<b>All owners</b>	79,191.71	1,684.95	12,104.18	524.50	91,295.89	1,709.22	21,222.33	1,084.08	4,784.90	378.17	26,007.23	1,118.69	117,303.13	1,953.38

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C70.4: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10 year averages): 2004 - 2013

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	39,836.41	1,094.66	4,466.97	361.37	44,303.38	1,110.43	12,454.59	757.75	2,724.51	274.63	15,179.10	774.58	59,482.48	1,301.64
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	39,836.41	1,094.66	4,466.97	361.37	44,303.38	1,110.43	12,454.59	757.75	2,724.51	274.63	15,179.10	774.58	59,482.48	1,301.64
<b>Other federal government:</b>														
Bureau of Land Management	773.05	126.64	985.54	132.33	1,758.59	181.23	79.05	37.35	372.75	106.11	451.80	112.48	2,210.39	210.34
Department of Defense and Energy	24.93	16.07	38.87	15.55	63.80	22.36	--	--	3.95	4.09	3.95	4.09	67.75	22.73
National Park Service	--	--	--	--	--	--	6,350.17	648.03	1,051.13	220.35	7,401.30	675.36	7,401.30	675.36
U.S. Fish and Wildlife Service	--	--	--	--	--	--	1.57	1.61	--	--	1.57	1.61	1.57	1.61
Other federal	--	--	64.50	26.10	64.50	26.10	--	--	6.27	4.31	6.27	4.31	70.77	26.46
Total	797.97	127.12	1,088.92	135.14	1,886.89	183.05	6,430.78	647.04	1,434.10	241.68	7,864.88	680.06	9,751.77	678.59
<b>State and local government:</b>														
Local	288.98	222.27	207.39	91.87	496.37	240.52	105.39	46.00	229.95	64.96	335.34	77.53	831.72	252.38
State	513.80	150.23	44.29	19.76	558.10	150.15	2,091.79	380.26	420.17	101.38	2,511.95	386.95	3,070.05	367.28
Other public	--	--	0.25	0.22	0.25	0.22	16.98	18.93	7.95	8.61	24.94	20.80	25.19	20.80
Total	802.78	266.88	251.93	93.97	1,054.72	282.21	2,214.16	381.91	658.07	119.43	2,872.23	392.67	3,926.95	431.90
<b>Private:</b>														
Corporate	23,733.94	1,164.29	709.88	108.34	24,443.82	1,166.61	--	--	--	--	--	--	24,443.82	1,166.61
<b>Noncorporate private:</b>														
Total, noncorporate private	13,229.55	797.35	5,349.94	328.45	18,579.49	845.41	--	--	--	--	--	--	18,579.49	845.41
<b>All private</b>	36,963.49	1,254.07	6,059.82	342.45	43,023.31	1,267.92	--	--	--	--	--	--	43,023.31	1,267.92
<b>All owners</b>	78,400.66	1,676.17	11,867.63	522.59	90,268.29	1,700.57	21,099.54	1,066.44	4,816.68	384.63	25,916.21	1,102.05	116,184.50	1,942.28

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C70.5: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10 year averages): 2005 - 2014

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	39,424.59	1,104.32	4,226.41	347.05	43,650.99	1,116.98	13,024.41	779.10	2,814.28	295.68	15,838.68	796.78	59,489.67	1,325.62
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	39,424.59	1,104.32	4,226.41	347.05	43,650.99	1,116.98	13,024.41	779.10	2,814.28	295.68	15,838.68	796.78	59,489.67	1,325.62
<b>Other federal government:</b>														
Bureau of Land Management	770.63	127.99	956.79	129.68	1,727.41	180.36	118.34	48.23	414.73	125.31	533.07	134.26	2,260.48	221.40
Department of Defense and Energy	24.94	16.06	36.29	15.65	61.23	22.42	--	--	3.95	4.08	3.95	4.08	65.18	22.79
National Park Service	--	--	--	--	--	--	6,363.26	645.01	1,013.69	213.00	7,376.95	670.37	7,376.95	670.37
U.S. Fish and Wildlife Service	--	--	--	--	--	--	1.57	1.61	--	--	1.57	1.61	1.57	1.61
Other federal	--	--	64.50	26.09	64.50	26.09	--	--	6.27	4.31	6.27	4.31	70.76	26.44
Total	795.57	128.56	1,057.57	132.53	1,853.15	182.29	6,483.17	644.17	1,438.63	244.06	7,921.80	678.38	9,774.94	676.38
<b>State and local government:</b>														
Local	321.64	223.59	215.48	92.43	537.12	241.95	105.57	46.10	198.03	59.72	303.61	74.62	840.73	252.96
State	491.47	147.29	44.55	19.74	536.03	147.21	2,147.95	388.27	427.40	101.16	2,575.35	394.52	3,111.37	375.48
Other public	--	--	0.25	0.22	0.25	0.22	16.98	18.92	7.95	8.61	24.94	20.78	25.18	20.78
Total	813.12	266.35	260.28	94.51	1,073.40	281.89	2,270.50	389.85	633.39	116.97	2,903.89	399.66	3,977.28	439.23
<b>Private:</b>														
Corporate	23,299.71	1,144.92	771.45	109.90	24,071.16	1,147.46	--	--	--	--	--	--	24,071.16	1,147.46
<b>Noncorporate private:</b>														
Total, noncorporate private	13,003.92	813.30	5,257.28	329.44	18,261.20	860.98	--	--	--	--	--	--	18,261.20	860.98
<b>All private</b>	36,303.63	1,254.36	6,028.73	343.40	42,332.36	1,268.44	--	--	--	--	--	--	42,332.36	1,268.44
<b>All owners</b>	77,336.90	1,683.62	11,572.99	512.68	88,909.89	1,705.65	21,778.08	1,082.83	4,886.29	400.66	26,664.37	1,119.20	115,574.26	1,960.63

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C70.6: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10 year averages): 2006 - 2015

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	39,086.97	1,111.16	4,015.23	343.19	43,102.19	1,124.47	13,138.60	806.97	2,748.71	291.54	15,887.32	825.22	58,989.51	1,348.83
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>39,086.97</b>	<b>1,111.16</b>	<b>4,015.23</b>	<b>343.19</b>	<b>43,102.19</b>	<b>1,124.47</b>	<b>13,138.60</b>	<b>806.97</b>	<b>2,748.71</b>	<b>291.54</b>	<b>15,887.32</b>	<b>825.22</b>	<b>58,989.51</b>	<b>1,348.83</b>
<b>Other federal government:</b>														
Bureau of Land Management	851.66	157.69	966.15	132.28	1,817.80	203.94	179.87	81.05	411.43	125.32	591.30	149.24	2,409.10	249.53
Department of Defense and Energy	24.94	16.06	37.01	15.69	61.95	22.45	--	--	4.02	4.16	4.02	4.16	65.97	22.83
National Park Service	--	--	--	--	--	--	6,459.69	671.97	1,143.43	245.77	7,603.12	706.95	7,603.12	706.95
U.S. Fish and Wildlife Service	--	--	--	--	--	--	1.57	1.61	--	--	1.57	1.61	1.57	1.61
Other federal	--	--	65.92	26.52	65.92	26.52	--	--	6.28	4.31	6.28	4.31	72.20	26.87
<b>Total</b>	<b>876.60</b>	<b>158.15</b>	<b>1,069.08</b>	<b>135.26</b>	<b>1,945.68</b>	<b>205.68</b>	<b>6,641.13</b>	<b>674.17</b>	<b>1,565.16</b>	<b>272.93</b>	<b>8,206.29</b>	<b>717.41</b>	<b>10,151.97</b>	<b>720.55</b>
<b>State and local government:</b>														
Local	317.61	219.33	239.46	94.75	557.06	238.92	87.62	35.01	192.17	59.78	279.78	68.51	836.85	248.32
State	432.77	131.79	39.86	19.08	472.63	131.88	2,150.17	391.16	510.40	131.12	2,660.57	406.01	3,133.20	387.29
Other public	--	--	0.25	0.22	0.25	0.22	16.64	18.53	7.95	8.61	24.59	20.44	24.84	20.44
<b>Total</b>	<b>750.38</b>	<b>254.39</b>	<b>279.57</b>	<b>96.65</b>	<b>1,029.94</b>	<b>271.51</b>	<b>2,254.43</b>	<b>391.60</b>	<b>710.51</b>	<b>143.72</b>	<b>2,964.94</b>	<b>409.89</b>	<b>3,994.88</b>	<b>447.01</b>
<b>Private:</b>														
Corporate	24,262.83	1,177.74	979.31	137.34	25,242.15	1,182.75	--	--	--	--	--	--	25,242.15	1,182.75
<b>Noncorporate private:</b>														
Total, noncorporate private	12,257.77	770.44	5,168.57	330.26	17,426.35	828.57	--	--	--	--	--	--	17,426.35	828.57
<b>All private</b>	<b>36,520.61</b>	<b>1,264.47</b>	<b>6,147.89</b>	<b>352.61</b>	<b>42,668.50</b>	<b>1,284.55</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>42,668.50</b>	<b>1,284.55</b>
<b>All owners</b>	<b>77,234.55</b>	<b>1,694.58</b>	<b>11,511.76</b>	<b>517.14</b>	<b>88,746.31</b>	<b>1,721.36</b>	<b>22,034.17</b>	<b>1,121.46</b>	<b>5,024.38</b>	<b>423.73</b>	<b>27,058.55</b>	<b>1,165.09</b>	<b>115,804.86</b>	<b>1,998.35</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



Table C70.7: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10 year averages): 2007 - 2016

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	38,804.74	1,117.87	3,988.58	347.63	42,793.31	1,132.99	13,098.66	837.51	2,898.64	307.15	15,997.30	859.78	58,790.61	1,378.09
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>38,804.74</b>	<b>1,117.87</b>	<b>3,988.58</b>	<b>347.63</b>	<b>42,793.31</b>	<b>1,132.99</b>	<b>13,098.66</b>	<b>837.51</b>	<b>2,898.64</b>	<b>307.15</b>	<b>15,997.30</b>	<b>859.78</b>	<b>58,790.61</b>	<b>1,378.09</b>
<b>Other federal government:</b>														
Bureau of Land Management	757.46	147.48	973.00	132.35	1,730.46	196.78	276.23	106.96	407.47	134.94	683.70	172.19	2,414.16	257.58
Department of Defense and Energy	26.56	16.66	77.47	40.25	104.03	43.56	--	--	4.34	4.33	4.34	4.33	108.38	43.77
National Park Service	--	--	--	--	--	--	6,398.88	666.68	1,327.42	292.49	7,726.30	717.41	7,726.30	717.41
U.S. Fish and Wildlife Service	--	--	--	--	--	--	1.57	1.61	--	--	1.57	1.61	1.57	1.61
Other federal	--	--	47.03	19.55	47.03	19.55	--	--	6.33	4.31	6.33	4.31	53.36	20.02
<b>Total</b>	<b>784.02</b>	<b>148.19</b>	<b>1,097.50</b>	<b>139.05</b>	<b>1,881.52</b>	<b>200.89</b>	<b>6,676.68</b>	<b>669.48</b>	<b>1,745.57</b>	<b>319.87</b>	<b>8,422.25</b>	<b>730.00</b>	<b>10,303.77</b>	<b>733.40</b>
<b>State and local government:</b>														
Local	327.49	220.91	270.25	98.43	597.74	241.79	93.02	39.84	181.86	58.59	274.87	70.09	872.61	251.45
State	429.80	133.54	35.70	18.24	465.49	133.32	2,189.90	392.95	525.12	132.16	2,715.02	408.19	3,180.52	384.85
Other public	--	--	0.25	0.22	0.25	0.22	16.64	18.54	7.82	8.47	24.46	20.38	24.71	20.38
<b>Total</b>	<b>757.29</b>	<b>256.67</b>	<b>306.20</b>	<b>100.10</b>	<b>1,063.48</b>	<b>274.75</b>	<b>2,299.56</b>	<b>393.49</b>	<b>714.81</b>	<b>144.18</b>	<b>3,014.36</b>	<b>411.97</b>	<b>4,077.84</b>	<b>446.26</b>
<b>Private:</b>														
Corporate	24,041.50	1,156.87	1,021.07	138.69	25,062.57	1,161.97	--	--	--	--	--	--	25,062.57	1,161.97
<b>Noncorporate private:</b>														
Total, noncorporate private	11,682.31	748.22	5,211.99	339.04	16,894.31	812.45	--	--	--	--	--	--	16,894.31	812.45
<b>All private</b>	<b>35,723.82</b>	<b>1,235.50</b>	<b>6,233.06</b>	<b>361.24</b>	<b>41,956.88</b>	<b>1,259.82</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>41,956.88</b>	<b>1,259.82</b>
<b>All owners</b>	<b>76,069.86</b>	<b>1,678.40</b>	<b>11,625.33</b>	<b>527.49</b>	<b>87,695.19</b>	<b>1,709.96</b>	<b>22,074.90</b>	<b>1,141.57</b>	<b>5,359.01</b>	<b>465.55</b>	<b>27,433.91</b>	<b>1,198.12</b>	<b>115,129.10</b>	<b>2,009.30</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C70.8: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10 year averages): 2008 - 2017

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	39,409.55	1,167.10	4,018.57	349.40	43,428.12	1,180.65	13,272.15	873.62	2,872.54	306.69	16,144.69	895.67	59,572.81	1,439.96
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>39,409.55</b>	<b>1,167.10</b>	<b>4,018.57</b>	<b>349.40</b>	<b>43,428.12</b>	<b>1,180.65</b>	<b>13,272.15</b>	<b>873.62</b>	<b>2,872.54</b>	<b>306.69</b>	<b>16,144.69</b>	<b>895.67</b>	<b>59,572.81</b>	<b>1,439.96</b>
<b>Other federal government:</b>														
Bureau of Land Management	765.99	147.02	1,007.70	139.38	1,773.69	201.03	275.70	106.90	444.12	143.53	719.83	178.95	2,493.51	265.23
Department of Defense and Energy	26.57	16.66	77.17	40.22	103.73	43.53	--	--	4.02	4.16	4.02	4.16	107.75	43.73
National Park Service	--	--	--	--	--	--	6,651.86	695.81	1,312.66	291.27	7,964.51	743.85	7,964.51	743.85
U.S. Fish and Wildlife Service	--	--	--	--	--	--	1.57	1.60	--	--	1.57	1.60	1.57	1.60
Other federal	--	--	36.42	18.69	36.42	18.69	--	--	1.37	1.04	1.37	1.04	37.80	18.71
<b>Total</b>	<b>792.56</b>	<b>147.73</b>	<b>1,121.28</b>	<b>145.62</b>	<b>1,913.84</b>	<b>204.97</b>	<b>6,929.13</b>	<b>697.55</b>	<b>1,762.17</b>	<b>322.19</b>	<b>8,691.30</b>	<b>756.57</b>	<b>10,605.15</b>	<b>759.12</b>
<b>State and local government:</b>														
Local	326.16	220.67	264.30	96.87	590.46	240.94	92.20	39.96	207.78	68.96	299.98	79.13	890.44	253.32
State	429.54	133.46	36.49	18.44	466.04	133.27	2,183.70	398.02	498.96	127.88	2,682.65	412.10	3,148.69	389.09
Other public	--	--	0.25	0.22	0.25	0.22	16.64	18.53	2.19	2.37	18.83	18.68	19.08	18.68
<b>Total</b>	<b>755.70</b>	<b>256.43</b>	<b>301.04</b>	<b>98.61</b>	<b>1,056.74</b>	<b>273.98</b>	<b>2,292.54</b>	<b>398.35</b>	<b>708.93</b>	<b>144.77</b>	<b>3,001.47</b>	<b>417.40</b>	<b>4,058.21</b>	<b>450.86</b>
<b>Private:</b>														
Corporate	23,746.38	1,102.51	1,115.63	148.32	24,862.01	1,108.69	--	--	--	--	--	--	24,862.01	1,108.69
<b>Noncorporate private:</b>														
Total, noncorporate private	11,077.34	736.87	5,069.19	333.68	16,146.53	800.61	--	--	--	--	--	--	16,146.53	800.61
<b>All private</b>	<b>34,823.72</b>	<b>1,187.71</b>	<b>6,184.82</b>	<b>359.79</b>	<b>41,008.54</b>	<b>1,213.55</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>41,008.54</b>	<b>1,213.55</b>
<b>All owners</b>	<b>75,781.53</b>	<b>1,677.78</b>	<b>11,625.72</b>	<b>529.16</b>	<b>87,407.24</b>	<b>1,709.51</b>	<b>22,493.82</b>	<b>1,185.88</b>	<b>5,343.64</b>	<b>467.08</b>	<b>27,837.46</b>	<b>1,241.66</b>	<b>115,244.70</b>	<b>2,034.31</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C70.9: Aboveground Carbon Mass of Down Dead Wood, by Owner Group and Forest Land Status, All California (10 year averages): 2009 - 2018**

*\*information duplicated in Table C62*

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	39,443.96	1,176.49	3,917.45	342.35	43,361.42	1,190.06	13,181.24	885.04	2,914.04	320.65	16,119.04	910.85	59,480.45	1,456.11
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	39,443.96	1,176.49	3,917.45	342.35	43,361.42	1,190.06	13,181.24	885.04	2,914.04	320.65	16,119.04	910.85	59,480.45	1,456.11
<b>Other federal government:</b>														
Bureau of Land Management	668.09	140.90	1,064.88	148.33	1,732.97	202.91	270.71	106.43	424.26	140.65	694.97	176.38	2,427.94	264.97
Department of Defense and Energy	25.40	16.06	75.54	39.25	100.94	42.41	--	--	4.10	4.24	4.10	4.24	105.04	42.62
National Park Service	--	--	--	--	--	--	6,849.64	750.30	1,289.41	291.05	8,139.04	795.37	8,139.04	795.37
U.S. Fish and Wildlife Service	--	--	--	--	--	--	1.57	1.60	--	--	1.57	1.60	1.57	1.60
Other federal	0.80	1.00	35.85	18.67	36.65	18.70	--	--	1.39	1.05	1.39	1.05	38.03	18.73
Total	694.29	141.66	1,176.26	153.97	1,870.56	206.56	7,121.92	752.12	1,719.15	321.01	8,841.07	807.24	10,711.62	809.06
<b>State and local government:</b>														
Local	351.28	224.08	263.07	96.36	614.35	243.92	119.97	46.87	276.09	117.59	396.06	126.14	1,010.41	274.31
State	449.82	135.82	37.65	18.89	487.47	135.81	2,018.01	344.52	545.55	137.47	2,563.56	365.63	3,051.03	346.33
Other public	--	--	--	--	--	--	16.64	18.52	2.19	2.37	18.84	18.67	18.84	18.67
Total	801.10	258.66	300.73	98.19	1,101.83	275.90	2,154.62	346.05	823.83	180.45	2,978.45	384.57	4,080.28	425.03
<b>Private:</b>														
Corporate	24,097.77	1,124.91	1,204.58	159.45	25,302.35	1,131.29	--	--	--	--	--	--	25,302.35	1,131.29
<b>Noncorporate private:</b>														
Total, noncorporate private	11,220.64	789.94	5,140.63	342.56	16,361.27	854.10	--	--	--	--	--	--	16,361.27	854.10
<b>All private</b>	35,318.41	1,235.36	6,345.21	372.69	41,663.62	1,263.20	--	--	--	--	--	--	41,663.62	1,263.20
<b>All owners</b>	76,257.77	1,717.93	11,739.65	535.74	87,997.42	1,751.91	22,457.78	1,210.95	5,457.02	487.61	27,938.55	1,273.96	115,935.97	2,087.57

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C71: Forest Floor by Owner Group and Forest Land Status, 2009-2018: All California**

*\*information duplicated in Table C79.9*

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	50,131.54	778.91	5,915.84	282.96	56,047.39	737.18	14,850.71	523.74	4,148.51	281.74	19,008.14	511.58	75,055.53	757.88
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>50,131.54</b>	<b>778.91</b>	<b>5,915.84</b>	<b>282.96</b>	<b>56,047.39</b>	<b>737.18</b>	<b>14,850.71</b>	<b>523.74</b>	<b>4,148.51</b>	<b>281.74</b>	<b>19,008.14</b>	<b>511.58</b>	<b>75,055.53</b>	<b>757.88</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,050.65	181.68	1,888.87	157.46	2,939.51	237.62	348.89	107.14	443.20	90.22	792.08	140.05	3,731.60	267.93
Department of Defense and Energy	41.21	23.31	159.66	43.64	200.88	49.47	--	--	17.12	17.70	17.12	17.70	217.99	52.54
National Park Service	--	--	--	--	--	--	6,436.91	429.16	1,548.56	203.12	7,985.46	458.50	7,985.46	458.50
U.S. Fish and Wildlife Service	--	--	--	--	--	--	16.83	17.21	1.07	1.11	17.91	17.25	17.91	17.25
Other federal	7.97	9.91	81.14	25.71	89.11	27.56	--	--	8.62	6.43	8.62	6.43	97.73	28.30
<b>Total</b>	<b>1,099.83</b>	<b>183.17</b>	<b>2,129.67</b>	<b>163.40</b>	<b>3,229.50</b>	<b>241.89</b>	<b>6,802.63</b>	<b>433.47</b>	<b>2,018.56</b>	<b>217.10</b>	<b>8,821.19</b>	<b>462.68</b>	<b>12,050.69</b>	<b>468.04</b>
<b>State and local government:</b>														
Local	291.06	99.08	272.16	58.17	563.22	115.56	171.74	62.60	387.63	78.13	559.37	96.86	1,122.59	150.08
State	502.21	121.06	125.54	43.94	627.75	127.46	1,318.65	164.44	553.23	86.26	1,871.87	179.07	2,499.63	178.87
Other public	--	--	1.46	1.32	1.46	1.32	23.10	25.71	16.30	17.63	39.40	31.17	40.85	31.20
<b>Total</b>	<b>793.28</b>	<b>154.91</b>	<b>399.15</b>	<b>72.86</b>	<b>1,192.43</b>	<b>170.47</b>	<b>1,513.49</b>	<b>173.99</b>	<b>957.15</b>	<b>113.11</b>	<b>2,470.64</b>	<b>196.51</b>	<b>3,663.07</b>	<b>219.33</b>
<b>Private:</b>														
Corporate	23,387.73	698.39	1,906.21	160.78	25,293.94	705.25	--	--	--	--	--	--	25,293.94	705.25
<b>Noncorporate private:</b>														
Total, noncorporate private	12,004.53	542.21	8,390.32	283.72	20,394.85	580.87	--	--	--	--	--	--	20,394.85	580.87
<b>All private</b>	<b>35,392.26</b>	<b>678.68</b>	<b>10,296.53</b>	<b>311.53</b>	<b>45,688.79</b>	<b>662.38</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>45,688.79</b>	<b>662.38</b>
<b>All owners</b>	<b>87,416.91</b>	<b>1,025.12</b>	<b>18,741.19</b>	<b>453.38</b>	<b>106,158.10</b>	<b>985.40</b>	<b>23,166.83</b>	<b>700.31</b>	<b>7,124.23</b>	<b>372.88</b>	<b>30,299.97</b>	<b>714.25</b>	<b>136,458.07</b>	<b>1,018.15</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C72: Forest Floor by Owner Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	4.93	4.52	138.77	39.10	143.70	39.34	96.15	47.17	333.82	73.77	429.98	88.61	573.68	96.95
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>4.93</b>	<b>4.52</b>	<b>138.77</b>	<b>39.10</b>	<b>143.70</b>	<b>39.34</b>	<b>96.15</b>	<b>47.17</b>	<b>333.82</b>	<b>73.77</b>	<b>429.98</b>	<b>88.61</b>	<b>573.68</b>	<b>96.95</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	77.16	27.86	77.16	27.86	--	--	9.00	6.52	9.00	6.52	86.15	28.61
Department of Defense and Energy	--	--	99.35	32.44	99.35	32.44	--	--	--	--	--	--	99.35	32.44
National Park Service	--	--	--	--	--	--	--	--	18.90	21.04	18.90	21.04	18.90	21.04
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	15.83	12.83	15.83	12.83	--	--	0.17	0.19	0.17	0.19	16.00	12.83
<b>Total</b>	<b>--</b>	<b>--</b>	<b>192.33</b>	<b>44.36</b>	<b>192.33</b>	<b>44.36</b>	<b>--</b>	<b>--</b>	<b>28.07</b>	<b>22.03</b>	<b>28.07</b>	<b>22.03</b>	<b>220.41</b>	<b>49.53</b>
<b>State and local government:</b>														
Local	--	--	85.21	37.90	85.21	37.90	171.74	62.60	244.78	60.98	416.52	83.65	501.73	91.29
State	70.18	42.54	22.62	15.57	92.80	46.40	165.66	69.15	283.46	64.10	449.12	93.71	541.93	103.85
Other public	--	--	--	--	--	--	23.10	25.71	16.30	17.63	39.40	31.17	39.40	31.17
<b>Total</b>	<b>70.18</b>	<b>42.54</b>	<b>107.83</b>	<b>40.97</b>	<b>178.01</b>	<b>59.91</b>	<b>360.50</b>	<b>96.32</b>	<b>544.54</b>	<b>86.69</b>	<b>905.04</b>	<b>124.23</b>	<b>1,083.05</b>	<b>135.01</b>
<b>Private:</b>														
Corporate	162.68	65.97	348.33	69.51	511.01	95.75	--	--	--	--	--	--	511.01	95.75
<b>Noncorporate private:</b>														
Total, noncorporate private	672.58	129.75	1,617.07	143.17	2,289.65	190.93	--	--	--	--	--	--	2,289.65	190.93
<b>All private</b>	<b>835.26</b>	<b>144.91</b>	<b>1,965.40</b>	<b>157.79</b>	<b>2,800.66</b>	<b>212.38</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2,800.66</b>	<b>212.38</b>
<b>All owners</b>	<b>910.38</b>	<b>151.35</b>	<b>2,404.33</b>	<b>173.45</b>	<b>3,314.71</b>	<b>228.47</b>	<b>456.66</b>	<b>107.25</b>	<b>906.44</b>	<b>115.29</b>	<b>1,363.10</b>	<b>153.39</b>	<b>4,677.80</b>	<b>272.45</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C73: Forest Floor by Owner Group and Forest Land Status, 2009-2018: Central Valley**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		All forest land	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other federal government:</b>														
Bureau of Land Management	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	1.07	1.11	1.07	1.11	1.07	1.11
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	1.07	1.11	1.07	1.11	1.07	1.11
<b>State and local government:</b>														
Local	--	--	8.68	6.35	8.68	6.35	--	--	--	--	--	--	8.68	6.35
State	--	--	--	--	--	--	--	--	10.11	9.27	10.11	9.27	10.11	9.27
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	8.68	6.35	8.68	6.35	--	--	10.11	9.27	10.11	9.27	18.79	11.23
<b>Private:</b>														
Corporate	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Noncorporate private:</b>														
<b>Total, noncorporate private</b>	--	--	141.34	38.67	141.34	38.67	--	--	--	--	--	--	141.34	38.67
<b>All private</b>	--	--	141.34	38.67	141.34	38.67	--	--	--	--	--	--	141.34	38.67
<b>All owners</b>	--	--	150.01	39.18	150.01	39.18	--	--	11.19	9.33	11.19	9.33	161.20	40.28

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C74: Forest Floor by Owner Group and Forest Land Status, 2009-2018: Eastside**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	2,980.58	281.31	1,813.36	163.76	4,793.94	323.45	273.95	101.84	399.38	106.37	673.33	146.18	5,467.27	354.43
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>2,980.58</b>	<b>281.31</b>	<b>1,813.36</b>	<b>163.76</b>	<b>4,793.94</b>	<b>323.45</b>	<b>273.95</b>	<b>101.84</b>	<b>399.38</b>	<b>106.37</b>	<b>673.33</b>	<b>146.18</b>	<b>5,467.27</b>	<b>354.43</b>
<b>Other federal government:</b>														
Bureau of Land Management	68.88	32.64	963.59	117.63	1,032.47	121.72	--	--	134.72	52.13	134.72	52.13	1,167.19	130.04
Department of Defense and Energy	--	--	52.42	28.18	52.42	28.18	--	--	--	--	--	--	52.42	28.18
National Park Service	--	--	--	--	--	--	--	--	136.50	48.32	136.50	48.32	136.50	48.32
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>68.88</b>	<b>32.64</b>	<b>1,016.02</b>	<b>120.32</b>	<b>1,084.90</b>	<b>124.32</b>	<b>--</b>	<b>--</b>	<b>271.22</b>	<b>70.87</b>	<b>271.22</b>	<b>70.87</b>	<b>1,356.11</b>	<b>139.29</b>
<b>State and local government:</b>														
Local	--	--	12.21	12.31	12.21	12.31	--	--	--	--	--	--	12.21	12.31
State	--	--	--	--	--	--	32.25	35.90	19.11	16.39	51.36	39.46	51.36	39.46
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>12.21</b>	<b>12.31</b>	<b>12.21</b>	<b>12.31</b>	<b>32.25</b>	<b>35.90</b>	<b>19.11</b>	<b>16.39</b>	<b>51.36</b>	<b>39.46</b>	<b>63.57</b>	<b>41.34</b>
<b>Private:</b>														
Corporate	1,047.02	176.39	171.94	49.91	1,218.96	183.97	--	--	--	--	--	--	1,218.96	183.97
<b>Noncorporate private:</b>														
Total, noncorporate private	334.98	96.60	294.17	62.52	629.15	116.00	--	--	--	--	--	--	629.15	116.00
<b>All private</b>	<b>1,382.00</b>	<b>199.53</b>	<b>466.10</b>	<b>79.60</b>	<b>1,848.10</b>	<b>215.75</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1,848.10</b>	<b>215.75</b>
<b>All owners</b>	<b>4,431.46</b>	<b>348.17</b>	<b>3,307.69</b>	<b>218.95</b>	<b>7,739.15</b>	<b>409.90</b>	<b>306.20</b>	<b>107.98</b>	<b>689.71</b>	<b>128.87</b>	<b>995.91</b>	<b>167.18</b>	<b>8,735.06</b>	<b>440.99</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C75: Forest Floor by Owner Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	13,871.75	608.41	1,136.08	138.99	15,007.83	615.46	6,670.23	375.57	818.31	124.66	7,488.54	387.47	22,496.36	704.78
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>13,871.75</b>	<b>608.41</b>	<b>1,136.08</b>	<b>138.99</b>	<b>15,007.83</b>	<b>615.46</b>	<b>6,670.23</b>	<b>375.57</b>	<b>818.31</b>	<b>124.66</b>	<b>7,488.54</b>	<b>387.47</b>	<b>22,496.36</b>	<b>704.78</b>
<b>Other federal government:</b>														
Bureau of Land Management	528.50	138.74	368.28	79.84	896.78	160.83	41.37	40.98	59.11	32.01	100.48	51.99	997.26	168.79
Department of Defense and Energy	--	--	--	--	--	--	--	--	17.12	17.70	17.12	17.70	17.12	17.70
National Park Service	--	--	--	--	--	--	247.29	78.84	108.93	41.26	356.22	89.63	356.22	89.63
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	7.97	9.91	8.23	6.23	16.20	11.71	--	--	1.74	1.93	1.74	1.93	17.94	11.87
<b>Total</b>	<b>536.47</b>	<b>139.09</b>	<b>376.51</b>	<b>80.08</b>	<b>912.98</b>	<b>161.25</b>	<b>288.65</b>	<b>88.14</b>	<b>186.90</b>	<b>54.94</b>	<b>475.55</b>	<b>104.41</b>	<b>1,388.53</b>	<b>188.78</b>
<b>State and local government:</b>														
Local	69.21	59.53	20.88	16.08	90.09	61.67	--	--	10.11	9.82	10.11	9.82	100.20	62.44
State	47.47	28.97	36.27	23.93	83.74	37.57	54.90	44.14	38.42	26.23	93.32	56.26	177.05	67.65
Other public	--	--	1.46	1.32	1.46	1.32	--	--	--	--	--	--	1.46	1.32
<b>Total</b>	<b>116.67</b>	<b>66.21</b>	<b>58.61</b>	<b>28.85</b>	<b>175.29</b>	<b>72.22</b>	<b>54.90</b>	<b>44.14</b>	<b>48.52</b>	<b>28.01</b>	<b>103.42</b>	<b>57.11</b>	<b>278.71</b>	<b>92.01</b>
<b>Private:</b>														
Corporate	4,891.17	397.66	565.83	86.58	5,457.00	406.40	--	--	--	--	--	--	5,457.00	406.40
<b>Noncorporate private:</b>														
Total, noncorporate private	3,336.62	312.36	1,913.46	152.46	5,250.09	345.45	--	--	--	--	--	--	5,250.09	345.45
<b>All private</b>	<b>8,227.79</b>	<b>488.17</b>	<b>2,479.29</b>	<b>173.59</b>	<b>10,707.09</b>	<b>513.34</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>10,707.09</b>	<b>513.34</b>
<b>All owners</b>	<b>22,752.68</b>	<b>797.17</b>	<b>4,050.49</b>	<b>238.67</b>	<b>26,803.18</b>	<b>821.94</b>	<b>7,013.79</b>	<b>388.75</b>	<b>1,053.73</b>	<b>139.07</b>	<b>8,067.51</b>	<b>405.77</b>	<b>34,870.69</b>	<b>896.58</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C76: Forest Floor by Owner Group and Forest Land Status, 2009-2018: North Coast**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	93.07	49.33	20.10	19.29	113.17	52.97	51.69	39.53	--	--	51.69	39.53	164.86	66.05
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>93.07</b>	<b>49.33</b>	<b>20.10</b>	<b>19.29</b>	<b>113.17</b>	<b>52.97</b>	<b>51.69</b>	<b>39.53</b>	<b>--</b>	<b>--</b>	<b>51.69</b>	<b>39.53</b>	<b>164.86</b>	<b>66.05</b>
<b>Other federal government:</b>														
Bureau of Land Management	120.85	53.47	--	--	120.85	53.47	238.49	78.31	--	--	238.49	78.31	359.34	95.18
Department of Defense and Energy	37.23	22.95	0.17	0.19	37.40	22.95	--	--	--	--	--	--	37.40	22.95
National Park Service	--	--	--	--	--	--	179.90	68.78	25.96	24.66	205.85	72.31	205.85	72.31
U.S. Fish and Wildlife Service	--	--	--	--	--	--	16.83	17.21	--	--	16.83	17.21	16.83	17.21
Other federal	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>158.08</b>	<b>58.19</b>	<b>0.17</b>	<b>0.19</b>	<b>158.25</b>	<b>58.19</b>	<b>435.22</b>	<b>104.69</b>	<b>25.96</b>	<b>24.66</b>	<b>461.18</b>	<b>106.02</b>	<b>619.43</b>	<b>120.12</b>
<b>State and local government:</b>														
Local	75.53	38.12	13.82	9.94	89.35	41.41	--	--	111.62	46.45	111.62	46.45	200.97	62.22
State	230.44	74.51	2.20	2.00	232.64	74.53	594.70	106.06	36.90	30.60	631.60	110.51	864.24	115.60
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>305.97</b>	<b>82.37</b>	<b>16.02</b>	<b>10.13</b>	<b>321.99</b>	<b>83.97</b>	<b>594.70</b>	<b>106.06</b>	<b>148.52</b>	<b>55.62</b>	<b>743.22</b>	<b>119.86</b>	<b>1,065.21</b>	<b>128.64</b>
<b>Private:</b>														
Corporate	4,737.02	318.80	73.68	30.87	4,810.69	320.16	--	--	--	--	--	--	4,810.69	320.16
<b>Noncorporate private:</b>														
Total, noncorporate private	3,186.71	266.04	399.69	76.95	3,586.41	275.70	--	--	--	--	--	--	3,586.41	275.70
<b>All private</b>	<b>7,923.73</b>	<b>389.80</b>	<b>473.37</b>	<b>82.78</b>	<b>8,397.10</b>	<b>395.88</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>8,397.10</b>	<b>395.88</b>
<b>All owners</b>	<b>8,480.85</b>	<b>403.47</b>	<b>509.66</b>	<b>85.59</b>	<b>8,990.51</b>	<b>410.06</b>	<b>1,081.61</b>	<b>154.11</b>	<b>174.48</b>	<b>60.84</b>	<b>1,256.09</b>	<b>164.76</b>	<b>10,246.60</b>	<b>432.83</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C77: Forest Floor by Owner Group and Forest Land Status, 2009-2018: Sierra Cascades**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	32,674.60	876.38	2,164.64	196.67	34,839.23	874.86	7,357.21	492.06	2,252.73	228.68	9,609.93	509.01	44,449.17	976.06
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>32,674.60</b>	<b>876.38</b>	<b>2,164.64</b>	<b>196.67</b>	<b>34,839.23</b>	<b>874.86</b>	<b>7,357.21</b>	<b>492.06</b>	<b>2,252.73</b>	<b>228.68</b>	<b>9,609.93</b>	<b>509.01</b>	<b>44,449.17</b>	<b>976.06</b>
<b>Other federal government:</b>														
Bureau of Land Management	332.42	104.69	450.28	74.20	782.70	128.18	69.03	60.56	217.16	66.21	286.19	89.73	1,068.89	154.37
Department of Defense and Energy	--	--	--	--	--	--	--	--	--	--	--	--	--	--
National Park Service	--	--	--	--	--	--	6,009.73	432.39	1,168.37	190.32	7,178.10	460.30	7,178.10	460.30
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	30.23	15.34	30.23	15.34	--	--	5.87	6.07	5.87	6.07	36.10	16.49
<b>Total</b>	<b>332.42</b>	<b>104.69</b>	<b>480.51</b>	<b>75.60</b>	<b>812.93</b>	<b>128.90</b>	<b>6,078.75</b>	<b>435.74</b>	<b>1,391.40</b>	<b>199.68</b>	<b>7,470.15</b>	<b>465.37</b>	<b>8,283.08</b>	<b>469.60</b>
<b>State and local government:</b>														
Local	146.32	69.42	98.22	33.14	244.55	76.89	--	--	16.87	12.60	16.87	12.60	261.42	77.91
State	154.13	87.75	64.44	33.57	218.57	93.17	434.91	133.49	99.15	33.45	534.05	137.04	752.63	161.12
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>300.45</b>	<b>111.89</b>	<b>162.67</b>	<b>47.14</b>	<b>463.12</b>	<b>120.71</b>	<b>434.91</b>	<b>133.49</b>	<b>116.02</b>	<b>35.74</b>	<b>550.93</b>	<b>137.62</b>	<b>1,014.04</b>	<b>178.90</b>
<b>Private:</b>														
Corporate	12,526.07	649.83	689.84	101.15	13,215.91	654.65	--	--	--	--	--	--	13,215.91	654.65
<b>Noncorporate private:</b>														
Total, noncorporate private	4,436.19	390.46	3,634.28	194.70	8,070.47	429.75	--	--	--	--	--	--	8,070.47	429.75
<b>All private</b>	<b>16,962.26</b>	<b>712.56</b>	<b>4,324.12</b>	<b>213.77</b>	<b>21,286.38</b>	<b>723.13</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>21,286.38</b>	<b>723.13</b>
<b>All owners</b>	<b>50,269.72</b>	<b>1,129.06</b>	<b>7,131.93</b>	<b>302.76</b>	<b>57,401.66</b>	<b>1,134.83</b>	<b>13,870.87</b>	<b>670.06</b>	<b>3,760.15</b>	<b>305.56</b>	<b>17,631.01</b>	<b>701.86</b>	<b>75,032.67</b>	<b>1,272.05</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C78: Forest Floor by Owner Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	506.62	127.22	642.90	86.03	1,149.52	153.74	401.48	112.11	344.27	77.49	754.67	135.60	1,904.19	204.41
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>506.62</b>	<b>127.22</b>	<b>642.90</b>	<b>86.03</b>	<b>1,149.52</b>	<b>153.74</b>	<b>401.48</b>	<b>112.11</b>	<b>344.27</b>	<b>77.49</b>	<b>754.67</b>	<b>135.60</b>	<b>1,904.19</b>	<b>204.41</b>
<b>Other federal government:</b>														
Bureau of Land Management	--	--	29.56	13.20	29.56	13.20	--	--	23.21	12.08	23.21	12.08	52.77	17.87
Department of Defense and Energy	3.99	4.07	7.72	7.89	11.70	8.88	--	--	--	--	--	--	11.70	8.88
National Park Service	--	--	--	--	--	--	--	--	89.89	26.41	89.89	26.41	89.89	26.41
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	26.85	14.93	26.85	14.93	--	--	0.84	0.86	0.84	0.86	27.69	14.95
<b>Total</b>	<b>3.99</b>	<b>4.07</b>	<b>64.13</b>	<b>21.43</b>	<b>68.11</b>	<b>21.81</b>	<b>--</b>	<b>--</b>	<b>113.94</b>	<b>28.86</b>	<b>113.94</b>	<b>28.86</b>	<b>182.05</b>	<b>36.13</b>
<b>State and local government:</b>														
Local	--	--	33.14	17.68	33.14	17.68	--	--	4.25	4.12	4.25	4.12	37.39	18.07
State	--	--	--	--	--	--	36.22	36.55	66.08	28.58	102.30	46.11	102.30	46.11
Other public	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>33.14</b>	<b>17.68</b>	<b>33.14</b>	<b>17.68</b>	<b>36.22</b>	<b>36.55</b>	<b>70.33</b>	<b>28.87</b>	<b>106.56</b>	<b>46.29</b>	<b>139.69</b>	<b>49.44</b>
<b>Private:</b>														
Corporate	23.77	23.47	56.60	21.62	80.36	31.91	--	--	--	--	--	--	80.36	31.91
<b>Noncorporate private:</b>														
Total, noncorporate private	37.45	24.78	390.31	71.46	427.76	77.23	--	--	--	--	--	--	427.76	77.23
<b>All private</b>	<b>61.21</b>	<b>34.13</b>	<b>446.91</b>	<b>74.65</b>	<b>508.12</b>	<b>83.55</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>508.12</b>	<b>83.55</b>
<b>All owners</b>	<b>571.82</b>	<b>131.78</b>	<b>1,187.07</b>	<b>116.86</b>	<b>1,758.89</b>	<b>176.92</b>	<b>437.70</b>	<b>117.92</b>	<b>528.54</b>	<b>87.58</b>	<b>975.16</b>	<b>146.16</b>	<b>2,734.05</b>	<b>228.91</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C79.1: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2001 - 2010**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	49,168.62	841.97	7,388.03	320.62	56,556.65	827.07	13,760.28	622.30	3,953.72	279.61	17,714.01	659.05	74,270.66	669.20
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>49,168.62</b>	<b>841.97</b>	<b>7,388.03</b>	<b>320.62</b>	<b>56,556.65</b>	<b>827.07</b>	<b>13,760.28</b>	<b>622.30</b>	<b>3,953.72</b>	<b>279.61</b>	<b>17,714.01</b>	<b>659.05</b>	<b>74,270.66</b>	<b>669.20</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,290.62	199.53	2,163.87	162.89	3,454.49	250.44	143.82	67.24	542.20	90.03	686.01	112.24	4,140.50	268.44
Department of Defense and Energy	12.37	13.59	149.50	42.74	161.87	44.85	--	--	--	--	--	--	161.87	44.85
National Park Service	--	--	--	--	--	--	6,117.15	414.52	1,555.51	188.32	7,672.66	393.32	7,672.66	393.32
U.S. Fish and Wildlife Service	--	--	--	--	--	--	17.51	21.53	3.18	3.24	20.69	21.77	20.69	21.77
Other federal	--	--	164.37	43.34	164.37	43.34	81.82	60.35	45.25	31.79	127.07	68.05	291.45	80.66
<b>Total</b>	<b>1,302.98</b>	<b>200.00</b>	<b>2,477.74</b>	<b>172.14</b>	<b>3,780.73</b>	<b>255.71</b>	<b>6,360.30</b>	<b>420.09</b>	<b>2,146.14</b>	<b>208.99</b>	<b>8,506.44</b>	<b>404.28</b>	<b>12,287.17</b>	<b>458.52</b>
<b>State and local government:</b>														
Local	168.68	67.55	243.03	57.24	411.71	89.50	152.59	66.40	498.24	92.61	650.83	113.17	1,062.54	143.55
State	463.85	125.08	94.39	35.76	558.24	129.85	1,414.91	197.32	655.43	100.46	2,070.33	218.23	2,628.57	244.89
Other public	--	--	7.55	6.42	7.55	6.42	33.07	29.63	20.22	17.56	53.29	34.44	60.84	35.03
<b>Total</b>	<b>632.53</b>	<b>140.94</b>	<b>344.97</b>	<b>67.76</b>	<b>977.50</b>	<b>156.63</b>	<b>1,600.57</b>	<b>209.96</b>	<b>1,173.89</b>	<b>136.22</b>	<b>2,774.46</b>	<b>245.58</b>	<b>3,751.96</b>	<b>281.69</b>
<b>Private:</b>														
Corporate	20,543.77	655.36	1,045.65	119.21	21,589.42	659.28	--	--	--	--	--	--	21,589.42	659.28
<b>Noncorporate private:</b>														
Total, noncorporate private	15,010.49	602.25	9,798.51	303.38	24,809.00	638.26	--	--	--	--	--	--	24,809.00	638.26
<b>All private</b>	<b>35,554.25</b>	<b>655.03</b>	<b>10,844.16</b>	<b>314.49</b>	<b>46,398.41</b>	<b>639.68</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>46,398.41</b>	<b>639.68</b>
<b>All owners</b>	<b>86,658.39</b>	<b>1,075.90</b>	<b>21,054.90</b>	<b>481.12</b>	<b>107,713.29</b>	<b>1,058.19</b>	<b>21,721.15</b>	<b>774.21</b>	<b>7,273.75</b>	<b>373.77</b>	<b>28,994.91</b>	<b>803.79</b>	<b>136,708.20</b>	<b>997.19</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C79.2: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2002 - 2011

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	49,647.73	864.58	7,129.29	317.81	56,777.03	851.23	13,738.36	620.28	3,980.66	283.11	17,719.02	658.00	74,496.05	698.53
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>49,647.73</b>	<b>864.58</b>	<b>7,129.29</b>	<b>317.81</b>	<b>56,777.03</b>	<b>851.23</b>	<b>13,738.36</b>	<b>620.28</b>	<b>3,980.66</b>	<b>283.11</b>	<b>17,719.02</b>	<b>658.00</b>	<b>74,496.05</b>	<b>698.53</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,282.83	199.33	2,110.05	159.69	3,392.88	249.00	142.48	66.92	551.76	91.41	694.24	113.16	4,087.12	267.63
Department of Defense and Energy	17.24	14.74	165.58	43.95	182.81	46.33	--	--	--	--	--	--	182.81	46.33
National Park Service	--	--	--	--	--	--	6,209.08	420.18	1,561.98	188.32	7,771.05	397.77	7,771.05	397.77
U.S. Fish and Wildlife Service	--	--	--	--	--	--	17.51	21.53	3.15	3.22	20.66	21.77	20.66	21.77
Other federal	--	--	163.67	43.25	163.67	43.25	81.78	60.43	45.30	31.92	127.08	68.17	290.75	80.72
<b>Total</b>	<b>1,300.07</b>	<b>199.88</b>	<b>2,439.30</b>	<b>169.44</b>	<b>3,739.37</b>	<b>254.64</b>	<b>6,450.83</b>	<b>425.62</b>	<b>2,162.20</b>	<b>209.67</b>	<b>8,613.03</b>	<b>408.85</b>	<b>12,352.40</b>	<b>462.52</b>
<b>State and local government:</b>														
Local	148.04	63.79	243.36	57.25	391.41	86.59	150.36	66.02	497.26	92.95	647.61	113.25	1,039.02	141.85
State	465.17	124.77	95.38	36.79	560.56	129.82	1,442.82	198.43	698.54	105.71	2,141.36	221.83	2,701.92	248.29
Other public	--	--	7.64	6.54	7.64	6.54	34.07	30.07	14.48	16.56	48.55	34.33	56.19	34.95
<b>Total</b>	<b>613.22</b>	<b>138.90</b>	<b>346.39</b>	<b>68.35</b>	<b>959.61</b>	<b>155.05</b>	<b>1,627.25</b>	<b>210.96</b>	<b>1,210.27</b>	<b>140.00</b>	<b>2,837.52</b>	<b>248.59</b>	<b>3,797.12</b>	<b>283.83</b>
<b>Private:</b>														
Corporate	20,098.33	654.35	1,240.18	131.64	21,338.51	659.93	--	--	--	--	--	--	21,338.51	659.93
<b>Noncorporate private:</b>														
Total, noncorporate private	14,850.27	601.52	9,470.49	298.50	24,320.76	637.74	--	--	--	--	--	--	24,320.76	637.74
<b>All private</b>	<b>34,948.60</b>	<b>669.95</b>	<b>10,710.67</b>	<b>313.34</b>	<b>45,659.27</b>	<b>657.43</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>45,659.27</b>	<b>657.43</b>
<b>All owners</b>	<b>86,509.62</b>	<b>1,081.50</b>	<b>20,625.65</b>	<b>476.93</b>	<b>107,135.27</b>	<b>1,063.89</b>	<b>21,816.44</b>	<b>776.19</b>	<b>7,353.13</b>	<b>378.15</b>	<b>29,169.57</b>	<b>806.40</b>	<b>136,304.84</b>	<b>998.59</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table C79.3: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2003 - 2012

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	50,009.50	772.40	6,643.37	301.99	56,652.86	732.11	14,312.13	521.42	4,222.01	281.54	18,534.14	511.21	75,187.00	740.78
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>50,009.50</b>	<b>772.40</b>	<b>6,643.37</b>	<b>301.99</b>	<b>56,652.86</b>	<b>732.11</b>	<b>14,312.13</b>	<b>521.42</b>	<b>4,222.01</b>	<b>281.54</b>	<b>18,534.14</b>	<b>511.21</b>	<b>75,187.00</b>	<b>740.78</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,386.62	208.38	2,055.68	168.63	3,442.30	265.53	167.21	74.47	458.69	96.66	625.90	122.00	4,068.20	285.38
Department of Defense and Energy	27.34	18.71	148.14	42.33	175.47	46.28	--	--	15.73	16.29	15.73	16.29	191.20	49.06
National Park Service	--	--	--	--	--	--	6,487.69	440.52	1,552.71	202.23	8,040.39	467.15	8,040.39	467.15
U.S. Fish and Wildlife Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other federal	--	--	185.32	45.49	185.32	45.49	47.52	50.17	49.34	33.28	96.86	60.21	282.17	75.22
<b>Total</b>	<b>1,413.95</b>	<b>208.59</b>	<b>2,389.14</b>	<b>177.39</b>	<b>3,803.09</b>	<b>270.67</b>	<b>6,702.42</b>	<b>442.28</b>	<b>2,076.46</b>	<b>219.79</b>	<b>8,778.88</b>	<b>471.11</b>	<b>12,581.97</b>	<b>488.61</b>
<b>State and local government:</b>														
Local	169.67	69.45	228.93	56.55	398.60	90.48	169.00	70.71	467.22	89.65	636.22	111.37	1,034.82	142.11
State	449.75	121.29	104.45	39.96	554.20	125.58	1,339.72	164.22	616.35	93.27	1,956.06	181.00	2,510.26	179.06
Other public	--	--	7.77	6.54	7.77	6.54	22.76	26.33	16.98	18.39	39.75	32.12	47.51	32.77
<b>Total</b>	<b>619.42</b>	<b>139.37</b>	<b>341.15</b>	<b>69.53</b>	<b>960.57</b>	<b>154.53</b>	<b>1,531.48</b>	<b>175.16</b>	<b>1,100.54</b>	<b>124.54</b>	<b>2,632.03</b>	<b>202.33</b>	<b>3,592.60</b>	<b>214.14</b>
<b>Private:</b>														
Corporate	20,463.61	668.88	1,230.43	129.76	21,694.04	674.12	--	--	--	--	--	--	21,694.04	674.12
<b>Noncorporate private:</b>														
Total, noncorporate private	14,994.37	600.77	9,322.84	298.11	24,317.22	634.64	--	--	--	--	--	--	24,317.22	634.64
<b>All private</b>	<b>35,457.99</b>	<b>669.27</b>	<b>10,553.27</b>	<b>315.31</b>	<b>46,011.26</b>	<b>654.71</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>46,011.26</b>	<b>654.71</b>
<b>All owners</b>	<b>87,500.86</b>	<b>1,010.95</b>	<b>19,926.93</b>	<b>472.10</b>	<b>107,427.79</b>	<b>976.20</b>	<b>22,546.03</b>	<b>705.06</b>	<b>7,399.02</b>	<b>377.67</b>	<b>29,945.05</b>	<b>721.27</b>	<b>137,372.83</b>	<b>1,004.35</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C79.4: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2004 - 2013**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	49,953.30	768.31	6,413.45	293.65	56,366.75	726.17	14,387.05	523.66	4,245.76	288.38	18,632.81	512.35	74,999.56	742.55
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>49,953.30</b>	<b>768.31</b>	<b>6,413.45</b>	<b>293.65</b>	<b>56,366.75</b>	<b>726.17</b>	<b>14,387.05</b>	<b>523.66</b>	<b>4,245.76</b>	<b>288.38</b>	<b>18,632.81</b>	<b>512.35</b>	<b>74,999.56</b>	<b>742.55</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,339.44	202.15	2,002.11	165.86	3,341.56	258.86	197.39	78.90	482.12	98.07	679.51	125.85	4,021.07	280.53
Department of Defense and Energy	27.34	18.71	144.05	40.89	171.38	44.96	--	--	15.73	16.29	15.73	16.29	187.11	47.82
National Park Service	--	--	--	--	--	--	6,501.09	440.33	1,565.92	204.87	8,067.01	468.48	8,067.01	468.48
U.S. Fish and Wildlife Service	--	--	--	--	--	--	16.91	17.31	1.07	1.08	17.98	17.34	17.98	17.34
Other federal	--	--	171.53	41.32	171.53	41.32	--	--	17.10	9.73	17.10	9.73	188.64	42.45
<b>Total</b>	<b>1,366.78</b>	<b>202.37</b>	<b>2,317.69</b>	<b>173.36</b>	<b>3,684.47</b>	<b>263.48</b>	<b>6,715.39</b>	<b>441.72</b>	<b>2,081.95</b>	<b>221.08</b>	<b>8,797.34</b>	<b>471.76</b>	<b>12,481.81</b>	<b>484.63</b>
<b>State and local government:</b>														
Local	174.50	70.74	242.92	57.67	417.42	92.18	164.28	63.81	455.21	85.62	619.49	103.56	1,036.91	137.64
State	460.48	125.07	104.39	39.95	564.88	129.21	1,342.50	165.33	602.94	91.18	1,945.44	180.23	2,510.31	179.24
Other public	--	--	9.22	6.66	9.22	6.66	24.62	27.44	16.98	18.39	41.60	33.03	50.83	33.70
<b>Total</b>	<b>634.98</b>	<b>143.27</b>	<b>356.54</b>	<b>70.45</b>	<b>991.52</b>	<b>158.45</b>	<b>1,531.40</b>	<b>175.52</b>	<b>1,075.13</b>	<b>120.57</b>	<b>2,606.53</b>	<b>200.17</b>	<b>3,598.05</b>	<b>213.64</b>
<b>Private:</b>														
Corporate	20,684.74	671.92	1,287.11	132.94	21,971.85	677.18	--	--	--	--	--	--	21,971.85	677.18
<b>Noncorporate private:</b>														
Total, noncorporate private	14,741.36	600.85	9,150.11	295.48	23,891.47	634.26	--	--	--	--	--	--	23,891.47	634.26
<b>All private</b>	<b>35,426.10</b>	<b>673.33</b>	<b>10,437.23</b>	<b>313.96</b>	<b>45,863.32</b>	<b>657.79</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>45,863.32</b>	<b>657.79</b>
<b>All owners</b>	<b>87,381.15</b>	<b>1,011.36</b>	<b>19,524.91</b>	<b>464.68</b>	<b>106,906.06</b>	<b>974.48</b>	<b>22,633.84</b>	<b>706.49</b>	<b>7,402.85</b>	<b>382.27</b>	<b>30,036.68</b>	<b>722.04</b>	<b>136,942.75</b>	<b>1,007.30</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C79.5: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2005 - 2014**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	50,010.34	766.44	6,284.95	292.44	56,295.29	723.64	14,618.10	526.06	4,159.42	288.49	18,777.52	511.12	75,072.81	744.67
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>50,010.34</b>	<b>766.44</b>	<b>6,284.95</b>	<b>292.44</b>	<b>56,295.29</b>	<b>723.64</b>	<b>14,618.10</b>	<b>526.06</b>	<b>4,159.42</b>	<b>288.49</b>	<b>18,777.52</b>	<b>511.12</b>	<b>75,072.81</b>	<b>744.67</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,313.04	201.60	1,950.75	161.24	3,263.80	255.63	246.84	87.47	432.30	87.29	679.14	123.56	3,942.94	276.37
Department of Defense and Energy	27.35	18.70	141.05	40.84	168.40	44.91	--	--	15.73	16.28	15.73	16.28	184.13	47.77
National Park Service	--	--	--	--	--	--	6,634.63	444.35	1,549.93	203.95	8,184.56	471.28	8,184.56	471.28
U.S. Fish and Wildlife Service	--	--	--	--	--	--	16.90	17.29	1.07	1.08	17.98	17.33	17.98	17.33
Other federal	--	--	171.17	41.26	171.17	41.26	--	--	17.11	9.72	17.11	9.72	188.28	42.39
<b>Total</b>	<b>1,340.39</b>	<b>202.10</b>	<b>2,262.97</b>	<b>169.04</b>	<b>3,603.37</b>	<b>260.61</b>	<b>6,898.37</b>	<b>446.46</b>	<b>2,016.14</b>	<b>216.13</b>	<b>8,914.51</b>	<b>472.67</b>	<b>12,517.88</b>	<b>482.21</b>
<b>State and local government:</b>														
Local	263.53	92.44	253.10	58.26	516.63	110.02	164.47	63.87	448.27	85.03	612.74	102.98	1,129.37	149.82
State	479.24	126.22	107.53	40.03	586.78	130.74	1,340.51	164.94	605.98	91.68	1,946.49	180.18	2,533.27	180.21
Other public	--	--	8.60	6.62	8.60	6.62	24.62	27.42	16.98	18.38	41.60	33.01	50.21	33.67
<b>Total</b>	<b>742.77</b>	<b>156.07</b>	<b>369.24</b>	<b>70.98</b>	<b>1,112.01</b>	<b>170.62</b>	<b>1,529.60</b>	<b>175.16</b>	<b>1,071.23</b>	<b>120.79</b>	<b>2,600.84</b>	<b>199.98</b>	<b>3,712.84</b>	<b>222.58</b>
<b>Private:</b>														
Corporate	21,028.23	677.77	1,421.74	139.36	22,449.97	684.02	--	--	--	--	--	--	22,449.97	684.02
<b>Noncorporate private:</b>														
Total, noncorporate private	14,131.89	583.66	9,055.21	295.39	23,187.10	619.70	--	--	--	--	--	--	23,187.10	619.70
<b>All private</b>	<b>35,160.12</b>	<b>670.46</b>	<b>10,476.95</b>	<b>315.06</b>	<b>45,637.07</b>	<b>655.59</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>45,637.07</b>	<b>655.59</b>
<b>All owners</b>	<b>87,253.62</b>	<b>1,011.18</b>	<b>19,394.12</b>	<b>463.38</b>	<b>106,647.73</b>	<b>973.23</b>	<b>23,046.08</b>	<b>711.15</b>	<b>7,246.79</b>	<b>379.60</b>	<b>30,292.87</b>	<b>721.71</b>	<b>136,940.60</b>	<b>1,010.46</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table C79.6: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2006 - 2015**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	50,171.03	768.24	6,017.79	285.21	56,188.81	724.42	14,672.68	522.07	4,151.92	286.55	18,824.61	510.03	75,013.42	745.86
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>50,171.03</b>	<b>768.24</b>	<b>6,017.79</b>	<b>285.21</b>	<b>56,188.81</b>	<b>724.42</b>	<b>14,672.68</b>	<b>522.07</b>	<b>4,151.92</b>	<b>286.55</b>	<b>18,824.61</b>	<b>510.03</b>	<b>75,013.42</b>	<b>745.86</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,348.23	207.16	1,885.70	155.62	3,233.92	256.27	268.94	90.29	440.74	88.52	709.68	126.42	3,943.60	278.34
Department of Defense and Energy	27.35	18.70	142.26	41.10	169.61	45.15	--	--	16.02	16.58	16.02	16.58	185.63	48.10
National Park Service	--	--	--	--	--	--	6,652.50	444.59	1,557.10	204.59	8,209.60	472.92	8,209.60	472.92
U.S. Fish and Wildlife Service	--	--	--	--	--	--	16.90	17.29	1.07	1.08	17.98	17.33	17.98	17.33
Other federal	--	--	173.25	41.34	173.25	41.34	--	--	17.21	9.78	17.21	9.78	190.45	42.49
<b>Total</b>	<b>1,375.58</b>	<b>207.64</b>	<b>2,201.20</b>	<b>163.89</b>	<b>3,576.78</b>	<b>261.36</b>	<b>6,938.34</b>	<b>447.00</b>	<b>2,032.14</b>	<b>217.19</b>	<b>8,970.48</b>	<b>474.63</b>	<b>12,547.26</b>	<b>484.76</b>
<b>State and local government:</b>														
Local	252.09	91.68	264.52	59.20	516.61	109.86	159.56	61.24	434.49	83.98	594.05	100.50	1,110.66	148.03
State	502.24	128.40	102.57	39.91	604.81	132.89	1,339.07	164.57	595.20	91.06	1,934.27	179.66	2,539.08	180.89
Other public	--	--	8.58	6.61	8.58	6.61	24.13	26.88	16.98	18.38	41.11	32.56	49.69	33.23
<b>Total</b>	<b>754.33</b>	<b>157.29</b>	<b>375.67</b>	<b>71.68</b>	<b>1,130.00</b>	<b>172.08</b>	<b>1,522.76</b>	<b>173.88</b>	<b>1,046.67</b>	<b>119.76</b>	<b>2,569.43</b>	<b>198.38</b>	<b>3,699.43</b>	<b>221.84</b>
<b>Private:</b>														
Corporate	21,643.52	682.84	1,648.98	150.39	23,292.50	690.46	--	--	--	--	--	--	23,292.50	690.46
<b>Noncorporate private:</b>														
Total, noncorporate private	13,640.76	576.07	8,741.43	291.22	22,382.20	612.19	--	--	--	--	--	--	22,382.20	612.19
<b>All private</b>	<b>35,284.29</b>	<b>674.93</b>	<b>10,390.41</b>	<b>314.47</b>	<b>45,674.70</b>	<b>659.94</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>45,674.70</b>	<b>659.94</b>
<b>All owners</b>	<b>87,585.22</b>	<b>1,013.80</b>	<b>18,985.07</b>	<b>456.91</b>	<b>106,570.29</b>	<b>973.63</b>	<b>23,133.78</b>	<b>707.75</b>	<b>7,230.73</b>	<b>378.59</b>	<b>30,364.52</b>	<b>721.68</b>	<b>136,934.81</b>	<b>1,011.66</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C79.7: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2007 - 2016**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>USDA Forest Service:</b>														
National Forest	50,161.98	770.64	5,853.37	281.56	56,015.36	727.51	14,756.40	520.96	4,157.51	281.55	18,913.91	507.79	74,929.26	748.30
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>50,161.98</b>	<b>770.64</b>	<b>5,853.37</b>	<b>281.56</b>	<b>56,015.36</b>	<b>727.51</b>	<b>14,756.40</b>	<b>520.96</b>	<b>4,157.51</b>	<b>281.55</b>	<b>18,913.91</b>	<b>507.79</b>	<b>74,929.26</b>	<b>748.30</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,231.09	197.42	1,865.41	154.76	3,096.49	248.48	357.30	107.79	442.16	88.52	799.46	139.46	3,895.96	277.08
Department of Defense and Energy	45.01	24.81	149.09	41.58	194.09	48.42	--	--	17.31	17.27	17.31	17.27	211.40	51.41
National Park Service	--	--	--	--	--	--	6,652.41	437.10	1,572.67	205.44	8,225.09	465.71	8,225.09	465.71
U.S. Fish and Wildlife Service	--	--	--	--	--	--	16.90	17.29	1.07	1.08	17.97	17.33	17.97	17.33
Other federal	--	--	159.68	39.57	159.68	39.57	--	--	17.65	9.92	17.65	9.92	177.33	40.79
<b>Total</b>	<b>1,276.09</b>	<b>198.52</b>	<b>2,174.18</b>	<b>162.88</b>	<b>3,450.27</b>	<b>254.08</b>	<b>7,026.61</b>	<b>440.74</b>	<b>2,050.86</b>	<b>217.96</b>	<b>9,077.48</b>	<b>468.15</b>	<b>12,527.75</b>	<b>478.28</b>
<b>State and local government:</b>														
Local	292.46	99.61	288.79	60.91	581.25	118.11	160.18	61.45	437.13	84.53	597.31	101.06	1,178.56	154.60
State	485.57	120.55	114.45	42.10	600.02	126.06	1,341.06	165.38	597.03	91.10	1,938.09	180.49	2,538.11	176.24
Other public	--	--	8.57	6.61	8.57	6.61	24.13	26.88	16.72	18.10	40.85	32.41	49.41	33.07
<b>Total</b>	<b>778.03</b>	<b>155.92</b>	<b>411.80</b>	<b>74.27</b>	<b>1,189.83</b>	<b>172.37</b>	<b>1,525.38</b>	<b>174.70</b>	<b>1,050.87</b>	<b>120.20</b>	<b>2,576.25</b>	<b>199.44</b>	<b>3,766.08</b>	<b>222.59</b>
<b>Private:</b>														
Corporate	22,120.99	682.88	1,744.42	153.77	23,865.41	690.33	--	--	--	--	--	--	23,865.41	690.33
<b>Noncorporate private:</b>														
Total, noncorporate private	13,055.09	567.18	8,640.81	289.91	21,695.90	604.49	--	--	--	--	--	--	21,695.90	604.49
<b>All private</b>	<b>35,176.08</b>	<b>671.97</b>	<b>10,385.23</b>	<b>314.36</b>	<b>45,561.31</b>	<b>656.37</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>45,561.31</b>	<b>656.37</b>
<b>All owners</b>	<b>87,392.19</b>	<b>1,012.36</b>	<b>18,824.58</b>	<b>454.20</b>	<b>106,216.77</b>	<b>971.68</b>	<b>23,308.39</b>	<b>702.85</b>	<b>7,259.24</b>	<b>375.40</b>	<b>30,567.63</b>	<b>715.82</b>	<b>136,784.40</b>	<b>1,005.00</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C79.8: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2008 - 2017**

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	49,987.35	770.93	5,862.33	281.31	55,849.68	727.32	14,740.39	518.58	4,119.42	279.54	18,859.81	506.65	74,709.48	748.42
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>49,987.35</b>	<b>770.93</b>	<b>5,862.33</b>	<b>281.31</b>	<b>55,849.68</b>	<b>727.32</b>	<b>14,740.39</b>	<b>518.58</b>	<b>4,119.42</b>	<b>279.54</b>	<b>18,859.81</b>	<b>506.65</b>	<b>74,709.48</b>	<b>748.42</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,234.67	196.83	1,864.30	155.19	3,098.97	248.35	351.60	106.37	445.87	89.33	797.46	138.89	3,896.43	276.91
Department of Defense and Energy	44.81	24.73	148.96	41.52	193.77	48.33	--	--	16.02	16.58	16.02	16.58	209.79	51.09
National Park Service	--	--	--	--	--	--	6,582.52	434.60	1,560.11	204.54	8,142.63	462.85	8,142.63	462.85
U.S. Fish and Wildlife Service	--	--	--	--	--	--	16.90	17.29	1.05	1.07	17.94	17.32	17.94	17.32
Other federal	--	--	88.71	27.11	88.71	27.11	--	--	8.16	6.01	8.16	6.01	96.87	27.77
<b>Total</b>	<b>1,279.49</b>	<b>197.92</b>	<b>2,101.96</b>	<b>160.90</b>	<b>3,381.45</b>	<b>252.42</b>	<b>6,951.01</b>	<b>438.29</b>	<b>2,031.20</b>	<b>217.61</b>	<b>8,982.21</b>	<b>465.91</b>	<b>12,363.66</b>	<b>475.57</b>
<b>State and local government:</b>														
Local	296.61	100.50	286.34	60.35	582.95	118.56	163.25	62.38	398.53	79.25	561.79	97.73	1,144.74	152.90
State	484.87	120.40	114.67	42.33	599.54	125.98	1,351.12	165.01	560.00	87.37	1,911.11	179.91	2,510.65	175.61
Other public	--	--	8.55	6.61	8.55	6.61	24.13	26.87	17.05	18.45	41.19	32.60	49.74	33.26
<b>Total</b>	<b>781.48</b>	<b>156.37</b>	<b>409.57</b>	<b>73.95</b>	<b>1,191.05</b>	<b>172.63</b>	<b>1,538.50</b>	<b>174.53</b>	<b>975.59</b>	<b>114.67</b>	<b>2,514.09</b>	<b>197.60</b>	<b>3,705.14</b>	<b>221.37</b>
<b>Private:</b>														
Corporate	22,695.96	687.76	1,836.31	158.05	24,532.27	695.13	--	--	--	--	--	--	24,532.27	695.13
<b>Noncorporate private:</b>														
Total, noncorporate private	12,405.56	550.65	8,540.05	287.65	20,945.61	589.37	--	--	--	--	--	--	20,945.61	589.37
<b>All private</b>	<b>35,101.52</b>	<b>671.75</b>	<b>10,376.36</b>	<b>314.13</b>	<b>45,477.89</b>	<b>656.87</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>45,477.89</b>	<b>656.87</b>
<b>All owners</b>	<b>87,149.84</b>	<b>1,012.72</b>	<b>18,750.22</b>	<b>453.21</b>	<b>105,900.06</b>	<b>972.03</b>	<b>23,229.90</b>	<b>699.56</b>	<b>7,126.21</b>	<b>371.98</b>	<b>30,356.10</b>	<b>713.10</b>	<b>136,256.17</b>	<b>1,005.45</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table C79.9: Forest Floor by Owner Group and Forest Land Status, All California (10 year averages): 2009 - 2018**

\*information duplicated in Table C71

Ownership group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>USDA Forest Service:</b>														
National Forest	50,131.54	778.91	5,915.84	282.96	56,047.39	737.18	14,850.71	523.74	4,148.51	281.74	19,008.14	511.58	75,055.53	757.88
National Grasslands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other Forest Service	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>50,131.54</b>	<b>778.91</b>	<b>5,915.84</b>	<b>282.96</b>	<b>56,047.39</b>	<b>737.18</b>	<b>14,850.71</b>	<b>523.74</b>	<b>4,148.51</b>	<b>281.74</b>	<b>19,008.14</b>	<b>511.58</b>	<b>75,055.53</b>	<b>757.88</b>
<b>Other federal government:</b>														
Bureau of Land Management	1,050.65	181.68	1,888.87	157.46	2,939.51	237.62	348.89	107.14	443.20	90.22	792.08	140.05	3,731.60	267.93
Department of Defense and Energy	41.21	23.31	159.66	43.64	200.88	49.47	--	--	17.12	17.70	17.12	17.70	217.99	52.54
National Park Service	--	--	--	--	--	--	6,436.91	429.16	1,548.56	203.12	7,985.46	458.50	7,985.46	458.50
U.S. Fish and Wildlife Service	--	--	--	--	--	--	16.83	17.21	1.07	1.11	17.91	17.25	17.91	17.25
Other federal	7.97	9.91	81.14	25.71	89.11	27.56	--	--	8.62	6.43	8.62	6.43	97.73	28.30
<b>Total</b>	<b>1,099.83</b>	<b>183.17</b>	<b>2,129.67</b>	<b>163.40</b>	<b>3,229.50</b>	<b>241.89</b>	<b>6,802.63</b>	<b>433.47</b>	<b>2,018.56</b>	<b>217.10</b>	<b>8,821.19</b>	<b>462.68</b>	<b>12,050.69</b>	<b>468.04</b>
<b>State and local government:</b>														
Local	291.06	99.08	272.16	58.17	563.22	115.56	171.74	62.60	387.63	78.13	559.37	96.86	1,122.59	150.08
State	502.21	121.06	125.54	43.94	627.75	127.46	1,318.65	164.44	553.23	86.26	1,871.87	179.07	2,499.63	178.87
Other public	--	--	1.46	1.32	1.46	1.32	23.10	25.71	16.30	17.63	39.40	31.17	40.85	31.20
<b>Total</b>	<b>793.28</b>	<b>154.91</b>	<b>399.15</b>	<b>72.86</b>	<b>1,192.43</b>	<b>170.47</b>	<b>1,513.49</b>	<b>173.99</b>	<b>957.15</b>	<b>113.11</b>	<b>2,470.64</b>	<b>196.51</b>	<b>3,663.07</b>	<b>219.33</b>
<b>Private:</b>														
Corporate	23,387.73	698.39	1,906.21	160.78	25,293.94	705.25	--	--	--	--	--	--	25,293.94	705.25
<b>Noncorporate private:</b>														
Total, noncorporate private	12,004.53	542.21	8,390.32	283.72	20,394.85	580.87	--	--	--	--	--	--	20,394.85	580.87
<b>All private</b>	<b>35,392.26</b>	<b>678.68</b>	<b>10,296.53</b>	<b>311.53</b>	<b>45,688.79</b>	<b>662.38</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>45,688.79</b>	<b>662.38</b>
<b>All owners</b>	<b>87,416.91</b>	<b>1,025.12</b>	<b>18,741.19</b>	<b>453.38</b>	<b>106,158.10</b>	<b>985.40</b>	<b>23,166.83</b>	<b>700.31</b>	<b>7,124.23</b>	<b>372.88</b>	<b>30,299.97</b>	<b>714.25</b>	<b>136,458.07</b>	<b>1,018.15</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D1: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Forest Type and Land Status, 2009-2018: All California

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	301,079	8,884	471	246	301,550	8,885	78,733	5,402	616	497	79,349	5,416	380,899	10,066
Douglas-fir	55,855	5,014	--	--	55,855	5,014	18,018	3,416	295	170	18,314	3,420	74,168	6,031
Fir / spruce / mountain hemlock	76,491	5,599	794	506	77,285	5,622	38,801	4,756	1,470	647	40,270	4,797	117,555	7,364
Western Hemlock / Sitka spruce	2,319	1,054	--	--	2,319	1,054	121	120	--	--	121	120	2,440	1,061
Lodgepole pine	8,000	1,379	1,482	539	9,482	1,472	17,101	2,197	4,883	1,021	21,984	2,332	31,466	2,738
Pinyon / juniper	81	64	3,822	413	3,903	418	16	15	2,273	339	2,290	339	6,192	533
Ponderosa pine	42,804	2,707	461	216	43,265	2,713	5,922	1,173	448	206	6,369	1,190	49,634	2,950
Redwood	56,964	5,837	--	--	56,964	5,837	29,072	8,298	--	--	29,072	8,298	86,036	10,043
Western juniper	2,134	411	5,275	471	7,409	619	1,803	567	309	123	2,112	580	9,521	848
Western white pine	592	285	--	--	592	285	2,322	704	617	280	2,939	757	3,531	808
Other western softwoods	1,589	612	741	233	2,330	655	944	399	4,365	806	5,309	893	7,639	1,107
<b>Total</b>	<b>547,907</b>	<b>11,207</b>	<b>13,046</b>	<b>1,021</b>	<b>560,953</b>	<b>11,204</b>	<b>192,853</b>	<b>10,610</b>	<b>15,276</b>	<b>1,565</b>	<b>208,130</b>	<b>10,633</b>	<b>769,083</b>	<b>14,529</b>
<b>Hardwoods:</b>														
Alder / maple	6,092	1,301	508	259	6,600	1,326	2,456	1,057	16	18	2,472	1,057	9,072	1,694
Aspen / birch	303	204	95	41	398	208	41	28	273	184	313	186	711	279
Elm / ash / cottonwood	--	--	557	296	557	296	--	--	184	155	184	155	741	334
Tanoak / laurel	74,462	5,553	3,779	951	78,241	5,617	18,830	3,172	2,739	1,117	21,568	3,348	99,810	6,500
Western oak	62,501	4,130	85,131	3,334	147,632	5,141	7,451	1,332	14,091	1,568	21,542	2,045	169,174	5,475
Woodland hardwoods	99	74	445	143	544	161	--	--	211	102	211	102	755	191
Exotic hardwoods	3	3	--	--	3	3	--	--	--	--	--	--	3	3
Other hardwoods	10,320	1,970	1,045	254	11,365	1,986	2,269	1,112	222	162	2,491	1,123	13,856	2,267
<b>Total</b>	<b>153,780</b>	<b>7,024</b>	<b>91,560</b>	<b>3,466</b>	<b>245,340</b>	<b>7,536</b>	<b>31,047</b>	<b>3,681</b>	<b>17,735</b>	<b>1,946</b>	<b>48,782</b>	<b>4,105</b>	<b>294,122</b>	<b>8,425</b>
<b>Nonstocked</b>	<b>1,045</b>	<b>213</b>	<b>56</b>	<b>44</b>	<b>1,102</b>	<b>218</b>	<b>457</b>	<b>242</b>	<b>14</b>	<b>13</b>	<b>471</b>	<b>242</b>	<b>1,573</b>	<b>326</b>
<b>All forest types</b>	<b>702,733</b>	<b>11,353</b>	<b>104,662</b>	<b>3,586</b>	<b>807,395</b>	<b>11,167</b>	<b>224,357</b>	<b>10,702</b>	<b>33,025</b>	<b>2,472</b>	<b>257,383</b>	<b>10,763</b>	<b>1,064,778</b>	<b>13,954</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D2: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Forest Type and Land Status, 2009-2018: Central Coast and Interior Ranges

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	1,267	813	--	--	1,267	813	--	--	--	--	--	--	1,267	813
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	176	56	176	56	--	--	17	10	17	10	193	57
Ponderosa pine	--	--	42	30	42	30	--	--	53	51	53	51	95	59
Redwood	11,653	2,964	--	--	11,653	2,964	7,339	2,878	--	--	7,339	2,878	18,992	4,229
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	570	449	--	--	570	449	--	--	--	--	--	--	570	449
<b>Total</b>	<b>13,490</b>	<b>3,100</b>	<b>218</b>	<b>64</b>	<b>13,708</b>	<b>3,101</b>	<b>7,339</b>	<b>2,878</b>	<b>70</b>	<b>52</b>	<b>7,409</b>	<b>2,878</b>	<b>21,117</b>	<b>4,326</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	84	63	84	63	326	363	--	--	326	363	410	368
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	54	39	54	39	--	--	5	6	5	6	59	40
Tanoak / laurel	2,923	1,192	1,714	567	4,637	1,317	2,990	1,641	1,188	533	4,178	1,725	8,815	2,170
Western oak	927	454	14,711	1,410	15,638	1,481	306	212	4,729	822	5,035	836	20,674	1,689
Woodland hardwoods	--	--	--	--	--	--	--	--	8	8	8	8	8	8
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	1,453	932	270	122	1,723	938	1,341	957	16	13	1,358	957	3,081	1,316
<b>Total</b>	<b>5,304</b>	<b>1,578</b>	<b>16,833</b>	<b>1,522</b>	<b>22,137</b>	<b>2,178</b>	<b>4,964</b>	<b>1,899</b>	<b>5,946</b>	<b>986</b>	<b>10,910</b>	<b>2,101</b>	<b>33,047</b>	<b>2,982</b>
<b>Nonstocked</b>	<b>17</b>	<b>18</b>	<b>51</b>	<b>44</b>	<b>69</b>	<b>47</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>69</b>	<b>47</b>
<b>All forest types</b>	<b>18,811</b>	<b>3,465</b>	<b>17,103</b>	<b>1,524</b>	<b>35,914</b>	<b>3,768</b>	<b>12,303</b>	<b>3,366</b>	<b>6,016</b>	<b>987</b>	<b>18,319</b>	<b>3,490</b>	<b>54,233</b>	<b>5,153</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D3: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Forest Type and Land Status, 2009-2018: Central Valley

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	252	258	252	258	--	--	145	148	145	148	397	298
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	--	--	846	282	846	282	--	--	13	14	13	14	859	282
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	1,098	382	1,098	382	--	--	158	149	158	149	1,256	410
<b>Nonstocked</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types</b>	--	--	1,098	382	1,098	382	--	--	158	149	158	149	1,256	410

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D4: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Forest Type and Land Status, 2009-2018: Eastside

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	6,201	963	199	167	6,400	977	--	--	--	--	--	--	6,400	977
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	3,569	1,079	--	--	3,569	1,079	1,587	882	--	--	1,587	882	5,155	1,393
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	476	248	644	390	1,120	462	--	--	--	--	--	--	1,120	462
Pinyon / juniper	22	21	1,986	282	2,007	283	--	--	915	213	915	213	2,922	351
Ponderosa pine	5,806	822	104	70	5,910	824	461	253	--	--	461	253	6,371	862
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	941	234	3,925	401	4,866	461	--	--	54	46	54	46	4,919	463
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	64	65	150	110	214	128	--	--	1,111	429	1,111	429	1,325	448
<b>Total</b>	<b>17,078</b>	<b>1,688</b>	<b>7,009</b>	<b>654</b>	<b>24,087</b>	<b>1,810</b>	<b>2,047</b>	<b>917</b>	<b>2,079</b>	<b>481</b>	<b>4,126</b>	<b>1,033</b>	<b>28,213</b>	<b>2,082</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	125	114	59	35	183	119	28	25	--	--	28	25	211	121
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	65	55	92	78	157	95	--	--	--	--	--	--	157	95
Woodland hardwoods	99	74	100	60	198	95	--	--	--	--	--	--	198	95
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	82	54	1	1	83	54	--	--	--	--	--	--	83	54
<b>Total</b>	<b>370</b>	<b>156</b>	<b>251</b>	<b>104</b>	<b>622</b>	<b>188</b>	<b>28</b>	<b>25</b>	<b>--</b>	<b>--</b>	<b>28</b>	<b>25</b>	<b>650</b>	<b>189</b>
<b>Nonstocked</b>	<b>86</b>	<b>40</b>	<b>3</b>	<b>3</b>	<b>89</b>	<b>40</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>89</b>	<b>40</b>
<b>All forest types</b>	<b>17,535</b>	<b>1,699</b>	<b>7,263</b>	<b>662</b>	<b>24,798</b>	<b>1,822</b>	<b>2,075</b>	<b>922</b>	<b>2,079</b>	<b>481</b>	<b>4,154</b>	<b>1,038</b>	<b>28,952</b>	<b>2,094</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



Table D5: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Forest Type and Land Status, 2009-2018: Klamath Interior Coast Ranges

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	107,607	6,294	67	62	107,674	6,294	32,120	3,294	62	61	32,182	3,294	139,855	7,065
Douglas-fir	23,252	3,214	--	--	23,252	3,214	10,535	2,462	295	170	10,830	2,467	34,082	4,040
Fir / spruce / mountain hemlock	6,101	1,667	181	201	6,282	1,677	8,099	2,015	48	50	8,146	2,016	14,428	2,622
Western Hemlock / Sitka spruce	--	--	--	--	--	--	121	120	--	--	121	120	121	120
Lodgepole pine	135	129	--	--	135	129	45	46	69	71	115	85	249	155
Pinyon / juniper	--	--	6	6	6	6	--	--	--	--	--	--	6	6
Ponderosa pine	3,666	828	--	--	3,666	828	1,663	693	128	126	1,791	705	5,457	1,087
Redwood	755	706	--	--	755	706	6,310	3,823	--	--	6,310	3,823	7,064	3,888
Western juniper	--	--	22	17	22	17	--	--	--	--	--	--	22	17
Western white pine	273	225	--	--	273	225	357	174	26	27	382	176	655	285
Other western softwoods	217	150	377	182	594	235	62	55	27	27	89	61	683	242
<b>Total</b>	<b>142,005</b>	<b>7,127</b>	<b>653</b>	<b>279</b>	<b>142,658</b>	<b>7,127</b>	<b>59,312</b>	<b>5,635</b>	<b>655</b>	<b>239</b>	<b>59,967</b>	<b>5,639</b>	<b>202,624</b>	<b>8,979</b>
<b>Hardwoods:</b>														
Alder / maple	2,192	685	242	191	2,434	711	1,482	823	16	18	1,498	823	3,932	1,088
Aspen / birch	--	--	--	--	--	--	--	--	13	13	13	13	13	13
Elm / ash / cottonwood	--	--	116	82	116	82	--	--	--	--	--	--	116	82
Tanoak / laurel	26,422	3,723	662	351	27,084	3,739	9,628	2,189	341	281	9,969	2,207	37,054	4,330
Western oak	31,270	3,074	28,410	2,147	59,680	3,713	3,711	937	4,952	995	8,663	1,369	68,343	3,943
Woodland hardwoods	--	--	34	31	34	31	--	--	28	25	28	25	62	40
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	4,414	1,270	181	143	4,595	1,278	188	131	150	153	338	201	4,934	1,294
<b>Total</b>	<b>64,298</b>	<b>4,967</b>	<b>29,646</b>	<b>2,186</b>	<b>93,944</b>	<b>5,372</b>	<b>15,009</b>	<b>2,497</b>	<b>5,500</b>	<b>1,046</b>	<b>20,509</b>	<b>2,703</b>	<b>114,453</b>	<b>5,977</b>
<b>Nonstocked</b>	<b>177</b>	<b>63</b>	<b>--</b>	<b>--</b>	<b>177</b>	<b>63</b>	<b>339</b>	<b>223</b>	<b>--</b>	<b>--</b>	<b>339</b>	<b>223</b>	<b>515</b>	<b>232</b>
<b>All forest types</b>	<b>206,479</b>	<b>8,436</b>	<b>30,299</b>	<b>2,202</b>	<b>236,778</b>	<b>8,641</b>	<b>74,660</b>	<b>5,914</b>	<b>6,155</b>	<b>1,074</b>	<b>80,815</b>	<b>5,990</b>	<b>317,593</b>	<b>10,307</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D6: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Forest Type and Land Status, 2009-2018: North Coast

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	31,336	3,840	--	--	31,336	3,840	7,483	2,425	--	--	7,483	2,425	38,819	4,512
Fir / spruce / mountain hemlock	431	292	--	--	431	292	--	--	--	--	--	--	431	292
Western Hemlock / Sitka spruce	2,319	1,054	--	--	2,319	1,054	--	--	--	--	--	--	2,319	1,054
Lodgepole pine	--	--	--	--	--	--	28	28	--	--	28	28	28	28
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	44,528	5,082	--	--	44,528	5,082	15,423	6,925	--	--	15,423	6,925	59,951	8,451
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	304	282	--	--	304	282	116	185	25	22	142	186	446	338
<b>Total</b>	<b>78,918</b>	<b>6,311</b>	<b>--</b>	<b>--</b>	<b>78,918</b>	<b>6,311</b>	<b>23,050</b>	<b>7,238</b>	<b>25</b>	<b>22</b>	<b>23,076</b>	<b>7,238</b>	<b>101,994</b>	<b>9,389</b>
<b>Hardwoods:</b>														
Alder / maple	3,293	1,005	--	--	3,294	1,005	648	554	--	--	648	554	3,942	1,147
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	41,741	3,933	1,392	681	43,132	3,983	6,211	1,665	1,160	939	7,371	1,908	50,503	4,393
Western oak	5,503	1,229	3,847	751	9,350	1,436	--	--	550	313	550	313	9,900	1,470
Woodland hardwoods	--	--	--	--	--	--	--	--	94	85	94	85	94	85
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	2,799	923	66	63	2,865	925	740	569	--	--	740	569	3,605	1,086
<b>Total</b>	<b>53,337</b>	<b>4,280</b>	<b>5,305</b>	<b>1,015</b>	<b>58,641</b>	<b>4,380</b>	<b>7,598</b>	<b>1,819</b>	<b>1,804</b>	<b>994</b>	<b>9,402</b>	<b>2,068</b>	<b>68,044</b>	<b>4,813</b>
<b>Nonstocked</b>	<b>36</b>	<b>25</b>	<b>--</b>	<b>--</b>	<b>36</b>	<b>25</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>36</b>	<b>25</b>
<b>All forest types</b>	<b>132,291</b>	<b>7,332</b>	<b>5,305</b>	<b>1,015</b>	<b>137,596</b>	<b>7,376</b>	<b>30,649</b>	<b>7,344</b>	<b>1,829</b>	<b>994</b>	<b>32,478</b>	<b>7,410</b>	<b>170,074</b>	<b>10,198</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D7: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Forest Type and Land Status, 2009-2018: Sierra Cascades

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	186,375	7,648	205	169	186,579	7,650	45,453	4,482	554	493	46,007	4,501	232,586	8,652
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	65,867	5,282	613	465	66,480	5,303	29,116	4,294	1,422	645	30,538	4,340	97,018	6,828
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	7,390	1,351	838	376	8,227	1,398	17,028	2,196	4,562	1,008	21,589	2,327	29,817	2,695
Pinyon / juniper	59	60	986	247	1,046	254	16	15	995	249	1,011	249	2,057	356
Ponderosa pine	33,034	2,479	315	202	33,349	2,486	3,237	881	143	93	3,380	885	36,729	2,634
Redwood	28	26	--	--	28	26	--	--	--	--	--	--	28	26
Western juniper	970	297	1,244	237	2,214	379	1,803	567	255	114	2,058	578	4,272	692
Western white pine	319	175	--	--	319	175	1,966	682	591	279	2,557	736	2,876	757
Other western softwoods	435	258	213	98	648	276	686	342	3,202	684	3,888	758	4,536	807
<b>Total</b>	<b>294,477</b>	<b>8,892</b>	<b>4,414</b>	<b>739</b>	<b>298,890</b>	<b>8,907</b>	<b>99,303</b>	<b>6,252</b>	<b>11,726</b>	<b>1,474</b>	<b>111,029</b>	<b>6,326</b>	<b>409,919</b>	<b>10,564</b>
<b>Hardwoods:</b>														
Alder / maple	607	474	--	--	607	474	--	--	--	--	--	--	607	474
Aspen / birch	178	170	36	21	214	171	13	12	260	184	273	184	487	251
Elm / ash / cottonwood	--	--	136	112	136	112	--	--	--	--	--	--	136	112
Tanoak / laurel	3,376	1,254	11	8	3,387	1,254	--	--	--	--	--	--	3,387	1,254
Western oak	23,677	2,494	33,129	2,102	56,805	3,190	3,015	894	2,955	787	5,970	1,188	62,775	3,377
Woodland hardwoods	--	--	60	46	60	46	--	--	1	1	1	1	62	46
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	1,571	749	440	150	2,011	764	--	--	55	52	55	52	2,066	765
<b>Total</b>	<b>29,409</b>	<b>2,922</b>	<b>33,812</b>	<b>2,109</b>	<b>63,221</b>	<b>3,524</b>	<b>3,028</b>	<b>894</b>	<b>3,272</b>	<b>809</b>	<b>6,300</b>	<b>1,203</b>	<b>69,521</b>	<b>3,697</b>
<b>Nonstocked</b>	<b>713</b>	<b>197</b>	<b>2</b>	<b>1</b>	<b>715</b>	<b>197</b>	<b>113</b>	<b>95</b>	<b>14</b>	<b>13</b>	<b>127</b>	<b>96</b>	<b>842</b>	<b>219</b>
<b>All forest types</b>	<b>324,599</b>	<b>9,048</b>	<b>38,228</b>	<b>2,229</b>	<b>362,827</b>	<b>9,103</b>	<b>102,444</b>	<b>6,284</b>	<b>15,011</b>	<b>1,678</b>	<b>117,455</b>	<b>6,381</b>	<b>480,282</b>	<b>10,629</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D8: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Live Trees Including Foliage (>= 1 inch) by Forest Type and Land Status, 2009-2018: South Coast Mountains and Deserts**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	897	510	--	--	897	510	1,161	625	--	--	1,161	625	2,057	807
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	523	392	--	--	523	392	--	--	--	--	--	--	523	392
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	252	154	252	154	252	154
Pinyon / juniper	--	--	667	205	667	205	--	--	347	116	347	116	1,014	236
Ponderosa pine	298	214	--	--	298	214	561	274	123	124	684	301	982	369
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	223	163	85	86	308	184	--	--	--	--	--	--	308	184
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	80	73	--	--	80	73	80	73
<b>Total</b>	<b>1,940</b>	<b>697</b>	<b>752</b>	<b>223</b>	<b>2,692</b>	<b>731</b>	<b>1,802</b>	<b>679</b>	<b>722</b>	<b>229</b>	<b>2,523</b>	<b>716</b>	<b>5,215</b>	<b>1,024</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	181	162	181	162	--	--	--	--	--	--	181	162
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	34	47	34	47	34	47
Tanoak / laurel	--	--	--	--	--	--	--	--	50	49	50	49	50	49
Western oak	1,059	432	4,096	788	5,155	911	419	258	891	400	1,311	476	6,466	1,027
Woodland hardwoods	--	--	251	118	251	118	--	--	79	50	79	50	330	128
Exotic hardwoods	3	3	--	--	3	3	--	--	--	--	--	--	3	3
Other hardwoods	--	--	88	55	88	55	--	--	--	--	--	--	88	55
<b>Total</b>	<b>1,062</b>	<b>432</b>	<b>4,615</b>	<b>813</b>	<b>5,677</b>	<b>933</b>	<b>419</b>	<b>258</b>	<b>1,055</b>	<b>409</b>	<b>1,475</b>	<b>483</b>	<b>7,152</b>	<b>1,050</b>
<b>Nonstocked</b>	<b>15</b>	<b>12</b>			<b>15</b>	<b>12</b>	<b>5</b>	<b>5</b>	<b>--</b>	<b>--</b>	<b>5</b>	<b>5</b>	<b>21</b>	<b>13</b>
<b>All forest types</b>	<b>3,017</b>	<b>819</b>	<b>5,367</b>	<b>844</b>	<b>8,385</b>	<b>1,185</b>	<b>2,226</b>	<b>732</b>	<b>1,777</b>	<b>468</b>	<b>4,003</b>	<b>866</b>	<b>12,388</b>	<b>1,467</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D9: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: All California**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	24,928	1,342	83	65	25,011	1,343	12,848	1,429	12	10	12,860	1,429	37,871	1,938
Douglas-fir	2,723	390	--	--	2,723	390	1,390	350	19	14	1,408	351	4,131	523
Fir / spruce / mountain hemlock	8,310	858	39	20	8,349	858	5,737	862	133	63	5,870	865	14,219	1,216
Western Hemlock / Sitka spruce	253	177	--	--	253	177	--	--	--	--	--	--	253	177
Lodgepole pine	887	200	204	125	1,090	236	1,898	329	515	121	2,413	346	3,503	417
Pinyon / juniper	12	12	291	58	302	59	4	6	175	40	179	41	481	71
Ponderosa pine	1,418	217	94	90	1,512	235	251	100	55	28	306	104	1,818	257
Redwood	2,580	453	--	--	2,580	453	853	306	--	--	853	306	3,433	544
Western juniper	87	38	141	32	228	49	148	61	--	--	148	61	375	78
Western white pine	163	87	--	--	163	87	272	91	93	62	365	110	527	140
Other western softwoods	88	44	169	93	258	103	112	66	511	124	623	140	881	174
<b>Total</b>	<b>41,448</b>	<b>1,632</b>	<b>1,021</b>	<b>201</b>	<b>42,468</b>	<b>1,640</b>	<b>23,512</b>	<b>1,663</b>	<b>1,512</b>	<b>197</b>	<b>25,025</b>	<b>1,668</b>	<b>67,493</b>	<b>2,295</b>
<b>Hardwoods:</b>														
Alder / maple	690	204	21	17	711	205	208	131	19	16	227	132	938	244
Aspen / birch	7	7	7	6	15	9	46	37	12	10	59	38	74	39
Elm / ash / cottonwood	--	--	18	15	18	15	--	--	13	12	13	12	31	19
Tanoak / laurel	3,048	434	246	103	3,294	446	1,135	275	348	184	1,483	330	4,777	554
Western oak	6,008	963	4,855	464	10,862	1,064	1,869	515	1,236	249	3,105	564	13,967	1,202
Woodland hardwoods	19	12	108	37	127	39	--	--	35	23	35	23	162	45
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	667	190	78	28	745	192	173	89	3	3	176	89	921	211
<b>Total</b>	<b>10,439</b>	<b>1,087</b>	<b>5,332</b>	<b>477</b>	<b>15,771</b>	<b>1,179</b>	<b>3,431</b>	<b>602</b>	<b>1,666</b>	<b>310</b>	<b>5,098</b>	<b>669</b>	<b>20,869</b>	<b>1,351</b>
<b>Nonstocked</b>	<b>5,415</b>	<b>1,122</b>	<b>91</b>	<b>30</b>	<b>5,505</b>	<b>1,122</b>	<b>3,058</b>	<b>902</b>	<b>165</b>	<b>85</b>	<b>3,223</b>	<b>906</b>	<b>8,729</b>	<b>1,442</b>
<b>All forest types</b>	<b>57,302</b>	<b>2,131</b>	<b>6,443</b>	<b>517</b>	<b>63,745</b>	<b>2,166</b>	<b>30,002</b>	<b>1,903</b>	<b>3,344</b>	<b>376</b>	<b>33,346</b>	<b>1,918</b>	<b>97,091</b>	<b>2,828</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D10: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	18	15	--	--	18	15	--	--	--	--	--	--	18	15
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	10	4	10	4	--	--	--	--	--	--	10	4
Ponderosa pine	--	--	1	1	1	1	--	--	4	4	4	4	5	4
Redwood	377	130	--	--	377	130	104	68	--	--	104	68	481	147
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	50	38	--	--	50	38	--	--	--	--	--	--	50	38
<b>Total</b>	<b>445</b>	<b>136</b>	<b>11</b>	<b>4</b>	<b>456</b>	<b>136</b>	<b>104</b>	<b>68</b>	<b>4</b>	<b>4</b>	<b>108</b>	<b>68</b>	<b>564</b>	<b>152</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	2	2	--	--	2	2	2	2
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	58	27	101	70	159	75	52	30	241	171	293	174	453	189
Western oak	17	12	620	106	637	107	11	11	332	183	343	183	980	212
Woodland hardwoods	--	--	--	--	--	--	--	--	21	21	21	21	21	21
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	90	60	5	3	95	60	48	39	3	3	51	39	146	71
<b>Total</b>	<b>166</b>	<b>67</b>	<b>726</b>	<b>127</b>	<b>891</b>	<b>144</b>	<b>113</b>	<b>49</b>	<b>596</b>	<b>252</b>	<b>710</b>	<b>257</b>	<b>1,601</b>	<b>294</b>
<b>Nonstocked</b>			--	--			9	9	--	--	9	9	10	9
<b>All forest types</b>	<b>612</b>	<b>151</b>	<b>736</b>	<b>127</b>	<b>1,348</b>	<b>196</b>	<b>226</b>	<b>82</b>	<b>601</b>	<b>252</b>	<b>827</b>	<b>265</b>	<b>2,175</b>	<b>330</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D11: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: Central Valley**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	15	15	15	15	--	--	11	12	11	12	26	19
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	--	--	27	14	27	14	--	--	--	--	--	--	27	14
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	41	21	41	21	--	--	11	12	11	12	53	24
<b>Nonstocked</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types</b>	--	--	41	21	41	21	--	--	11	12	11	12	53	24

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D12: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: Eastside**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	404	99	5	5	409	100	--	--	--	--	--	--	409	100
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	333	124	--	--	333	124	102	56	--	--	102	56	435	136
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	12	7	142	121	154	121	--	--	--	--	--	--	154	121
Pinyon / juniper	--	--	111	27	111	27	--	--	40	13	40	13	151	30
Ponderosa pine	127	44	1	1	128	44	17	11	--	--	17	11	145	45
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	22	12	107	29	129	31	--	--	--	--	--	--	129	31
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	19	19	19	19	--	--	94	42	94	42	113	46
<b>Total</b>	<b>898</b>	<b>165</b>	<b>385</b>	<b>128</b>	<b>1,283</b>	<b>209</b>	<b>118</b>	<b>57</b>	<b>135</b>	<b>44</b>	<b>253</b>	<b>72</b>	<b>1,536</b>	<b>221</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	7	7	1	1	9	7	46	37	--	--	46	37	55	38
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	8	7	--	--	8	7	--	--	--	--	--	--	8	7
Woodland hardwoods	19	12	23	14	41	19	--	--	--	--	--	--	41	19
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	17	14	--	--	17	14	--	--	--	--	--	--	17	14
<b>Total</b>	<b>52</b>	<b>21</b>	<b>24</b>	<b>14</b>	<b>76</b>	<b>26</b>	<b>46</b>	<b>37</b>	<b>--</b>	<b>--</b>	<b>46</b>	<b>37</b>	<b>122</b>	<b>45</b>
<b>Nonstocked</b>	<b>310</b>	<b>140</b>	<b>17</b>	<b>16</b>	<b>327</b>	<b>141</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>327</b>	<b>141</b>
<b>All forest types</b>	<b>1,260</b>	<b>218</b>	<b>425</b>	<b>130</b>	<b>1,685</b>	<b>254</b>	<b>165</b>	<b>70</b>	<b>135</b>	<b>44</b>	<b>299</b>	<b>82</b>	<b>1,985</b>	<b>267</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table D13: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	9,014	821	8	8	9,022	822	5,201	849	--	--	5,201	849	14,223	1,181
Douglas-fir	1,529	327	--	--	1,529	327	1,007	312	19	14	1,026	313	2,555	452
Fir / spruce / mountain hemlock	670	199	14	12	685	200	1,656	510	1	1	1,657	510	2,341	548
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	1	1	--	--	1	1	7	8	2	2	10	8	11	8
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	239	97	--	--	239	97	57	38	30	23	88	45	327	107
Redwood	27	28	--	--	27	28	122	78	--	--	122	78	149	83
Western juniper	--	--	5	5	5	5	--	--	--	--	--	--	5	5
Western white pine	52	46	--	--	52	46	56	28	4	4	60	28	111	54
Other western softwoods	33	21	70	56	103	60	1	1	--	--	1	1	105	60
<b>Total</b>	<b>11,567</b>	<b>902</b>	<b>97</b>	<b>58</b>	<b>11,664</b>	<b>903</b>	<b>8,107</b>	<b>989</b>	<b>56</b>	<b>28</b>	<b>8,163</b>	<b>989</b>	<b>19,827</b>	<b>1,335</b>
<b>Hardwoods:</b>														
Alder / maple	245	145	18	17	263	146	98	62	19	16	116	64	379	159
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	3	2	3	2	--	--	--	--	--	--	3	2
Tanoak / laurel	1,626	385	61	61	1,687	390	674	220	92	66	766	230	2,454	452
Western oak	2,877	838	1,167	211	4,044	863	853	411	327	96	1,180	421	5,224	960
Woodland hardwoods	--	--	--	--	--	--	--	--	4	4	4	4	4	4
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	421	170	4	4	425	170	122	80			122	80	547	188
<b>Total</b>	<b>5,169</b>	<b>947</b>	<b>1,253</b>	<b>220</b>	<b>6,422</b>	<b>971</b>	<b>1,746</b>	<b>474</b>	<b>443</b>	<b>118</b>	<b>2,189</b>	<b>488</b>	<b>8,611</b>	<b>1,086</b>
<b>Nonstocked</b>	<b>1,725</b>	<b>721</b>	<b>15</b>	<b>11</b>	<b>1,740</b>	<b>721</b>	<b>1,703</b>	<b>607</b>	<b>26</b>	<b>23</b>	<b>1,729</b>	<b>607</b>	<b>3,469</b>	<b>942</b>
<b>All forest types</b>	<b>18,461</b>	<b>1,468</b>	<b>1,364</b>	<b>228</b>	<b>19,825</b>	<b>1,482</b>	<b>11,556</b>	<b>1,215</b>	<b>524</b>	<b>130</b>	<b>12,081</b>	<b>1,219</b>	<b>31,906</b>	<b>1,911</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D14: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: North Coast**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	1,176	214	--	--	1,176	214	383	161	--	--	383	161	1,558	268
Fir / spruce / mountain hemlock	37	37	--	--	37	37	--	--	--	--	--	--	37	37
Western Hemlock / Sitka spruce	253	177	--	--	253	177	--	--	--	--	--	--	253	177
Lodgepole pine	--	--	--	--	--	--	8	8	--	--	8	8	8	8
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	2,175	435	--	--	2,175	435	628	289	--	--	628	289	2,803	520
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	5	5	--	--	5	5	12	19	2	2	15	19	19	20
<b>Total</b>	<b>3,645</b>	<b>514</b>	<b>--</b>	<b>--</b>	<b>3,645</b>	<b>514</b>	<b>1,031</b>	<b>328</b>	<b>2</b>	<b>2</b>	<b>1,033</b>	<b>328</b>	<b>4,679</b>	<b>607</b>
<b>Hardwoods:</b>														
Alder / maple	359	131	1		360	131	109	116	--	--	109	116	469	175
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	1,307	201	49	27	1,356	203	408	162	14	11	422	163	1,778	259
Western oak	245	82	72	25	317	86	--	--	5	5	5	5	322	86
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	55	27	4	4	58	28	3	3	--	--	3	3	61	28
<b>Total</b>	<b>1,966</b>	<b>253</b>	<b>125</b>	<b>37</b>	<b>2,091</b>	<b>256</b>	<b>520</b>	<b>198</b>	<b>19</b>	<b>12</b>	<b>539</b>	<b>199</b>	<b>2,630</b>	<b>323</b>
<b>Nonstocked</b>	<b>4</b>	<b>3</b>	<b>--</b>	<b>--</b>	<b>4</b>	<b>3</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>4</b>	<b>3</b>
<b>All forest types</b>	<b>5,615</b>	<b>564</b>	<b>125</b>	<b>37</b>	<b>5,740</b>	<b>565</b>	<b>1,551</b>	<b>379</b>	<b>21</b>	<b>12</b>	<b>1,572</b>	<b>379</b>	<b>7,312</b>	<b>676</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D15: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: Sierra Cascades**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	15,459	1,134	70	65	15,528	1,136	7,525	1,172	12	10	7,536	1,172	23,065	1,613
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	7,228	830	25	17	7,253	830	3,980	701	132	63	4,112	704	11,365	1,087
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	874	200	62	34	936	203	1,882	328	429	109	2,311	342	3,247	397
Pinyon / juniper	12	12	80	38	91	40	4	6	102	37	106	37	198	55
Ponderosa pine	1,051	190	92	90	1,143	210	159	92	21	15	179	93	1,323	229
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	29	17	29	12	58	21	148	61	--	--	148	61	206	64
Western white pine	111	74	--	--	111	74	216	86	89	62	305	106	416	129
Other western softwoods	--	--	81	72	81	72	98	63	415	117	513	133	594	151
<b>Total</b>	<b>24,764</b>	<b>1,384</b>	<b>438</b>	<b>143</b>	<b>25,202</b>	<b>1,389</b>	<b>14,012</b>	<b>1,371</b>	<b>1,199</b>	<b>184</b>	<b>15,211</b>	<b>1,380</b>	<b>40,413</b>	<b>1,930</b>
<b>Hardwoods:</b>														
Alder / maple	87	60	--	--	87	60	--	--	--	--	--	--	87	60
Aspen / birch	--	--	6	6	6	6	--	--	12	10	12	10	19	12
Elm / ash / cottonwood	--	--	1	1	1	1	--	--	--	--	--	--	1	1
Tanoak / laurel	57	28	35	35	91	44	--	--	--	--	--	--	91	44
Western oak	2,583	451	2,515	386	5,098	591	602	244	358	120	959	272	6,057	649
Woodland hardwoods	--	--	39	24	39	24	--	--	--	--	--	--	39	24
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	84	49	63	28	147	56	--	--	--	--	--	--	147	56
<b>Total</b>	<b>2,810</b>	<b>458</b>	<b>2,659</b>	<b>389</b>	<b>5,469</b>	<b>599</b>	<b>602</b>	<b>244</b>	<b>370</b>	<b>120</b>	<b>972</b>	<b>272</b>	<b>6,441</b>	<b>655</b>
<b>Nonstocked</b>	<b>3,127</b>	<b>835</b>	<b>36</b>	<b>19</b>	<b>3,163</b>	<b>835</b>	<b>1,338</b>	<b>667</b>	<b>136</b>	<b>81</b>	<b>1,474</b>	<b>672</b>	<b>4,637</b>	<b>1,072</b>
<b>All forest types</b>	<b>30,701</b>	<b>1,634</b>	<b>3,133</b>	<b>415</b>	<b>33,834</b>	<b>1,674</b>	<b>15,951</b>	<b>1,519</b>	<b>1,705</b>	<b>233</b>	<b>17,656</b>	<b>1,531</b>	<b>51,490</b>	<b>2,232</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D16: Aboveground Carbon, Dry Weight (Regional Biomass Method) of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: South Coast Mountains and Deserts**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	51	28	--	--	51	28	123	68	--	--	123	68	174	73
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	41	37	--	--	41	37	--	--	--	--	--	--	41	37
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	84	54	84	54	84	54
Pinyon / juniper	--	--	90	36	90	36	--	--	32	10	32	10	122	37
Ponderosa pine	1	1	--	--	1	1	18	9	--	--	18	9	18	9
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	35	32	1	1	36	32	--	--	--	--	--	--	36	32
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>128</b>	<b>56</b>	<b>90</b>	<b>36</b>	<b>218</b>	<b>66</b>	<b>141</b>	<b>68</b>	<b>117</b>	<b>55</b>	<b>257</b>	<b>88</b>	<b>475</b>	<b>110</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	2	2	2	2	--	--	--	--	--	--	2	2
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	1	2	1	2	1	2
Tanoak / laurel	--	--	--	--	--	--	--	--	1	1	1	1	1	1
Western oak	276	145	455	109	731	182	404	195	214	85	618	213	1,349	281
Woodland hardwoods	--	--	46	25	46	25	--	--	10	8	10	8	57	26
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	2	1	2	1	--	--	--	--	--	--	2	1
<b>Total</b>	<b>276</b>	<b>145</b>	<b>504</b>	<b>112</b>	<b>781</b>	<b>183</b>	<b>404</b>	<b>195</b>	<b>227</b>	<b>85</b>	<b>631</b>	<b>213</b>	<b>1,411</b>	<b>282</b>
<b>Nonstocked</b>	<b>249</b>	<b>173</b>	<b>23</b>	<b>13</b>	<b>272</b>	<b>173</b>	<b>7</b>	<b>7</b>	<b>4</b>	<b>3</b>	<b>12</b>	<b>7</b>	<b>283</b>	<b>173</b>
<b>All forest types</b>	<b>653</b>	<b>232</b>	<b>618</b>	<b>118</b>	<b>1,270</b>	<b>261</b>	<b>552</b>	<b>207</b>	<b>347</b>	<b>101</b>	<b>899</b>	<b>230</b>	<b>2,170</b>	<b>349</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D17: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: All California**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	4,215.96	142.33	19.71	8.20	4,235.68	142.48	811.69	53.89	12.08	8.67	823.77	54.37	5,059.45	150.65
Douglas-fir	939.84	73.58	--	--	939.84	73.58	218.37	36.89	30.33	15.37	248.70	39.94	1,188.54	83.35
Fir / spruce / mountain hemlock	1,008.74	64.29	30.89	14.18	1,039.63	65.67	404.03	41.29	39.78	14.09	443.81	43.48	1,483.44	78.59
Western Hemlock / Sitka spruce	25.85	12.01	--	--	25.85	12.01	1.86	1.85	--	--	1.86	1.85	27.71	12.15
Lodgepole pine	224.07	39.66	24.46	8.53	248.53	40.50	244.70	30.78	190.75	37.00	435.44	47.10	683.98	61.97
Pinyon / juniper	17.08	12.22	1,617.34	117.44	1,634.42	118.05	9.74	9.20	775.14	86.17	784.88	86.61	2,419.30	144.32
Ponderosa pine	2,057.84	122.49	77.92	32.41	2,135.76	126.40	148.52	25.95	32.47	13.53	181.00	29.12	2,316.75	129.55
Redwood	606.08	55.61	--	--	606.08	55.61	116.61	29.17	--	--	116.61	29.17	722.69	62.29
Western juniper	257.36	49.69	2,853.27	216.11	3,110.63	220.91	95.51	29.93	85.97	36.06	181.48	46.52	3,292.11	225.45
Western white pine	24.37	11.98	--	--	24.37	11.98	72.24	21.13	38.17	16.89	110.41	27.04	134.78	29.57
Other western softwoods	71.51	23.17	200.25	58.15	271.76	62.59	42.80	16.08	452.15	72.96	494.95	74.30	766.71	96.97
<b>Total</b>	<b>9,448.70</b>	<b>197.70</b>	<b>4,823.84</b>	<b>246.95</b>	<b>14,272.54</b>	<b>306.12</b>	<b>2,166.08</b>	<b>88.51</b>	<b>1,656.83</b>	<b>122.99</b>	<b>3,822.92</b>	<b>144.52</b>	<b>18,095.46</b>	<b>328.35</b>
<b>Hardwoods:</b>														
Alder / maple	241.78	43.31	28.11	10.66	269.89	44.59	50.21	20.83	16.10	12.80	66.32	24.45	336.20	50.83
Aspen / birch	18.29	10.84	38.67	17.37	56.96	20.47	31.41	18.60	32.56	15.38	63.97	24.13	120.93	31.65
Elm / ash / cottonwood	--	--	38.47	14.77	38.47	14.77	0.97	0.96	12.24	8.83	13.21	8.89	51.67	17.24
Tanoak / laurel	1,831.71	118.87	216.06	42.05	2,047.77	125.26	457.78	63.61	145.14	36.51	602.92	72.91	2,650.70	143.79
Western oak	2,910.20	154.26	8,626.73	235.80	11,536.92	271.63	466.29	64.50	1,277.44	100.42	1,743.73	117.11	13,280.65	291.19
Woodland hardwoods	21.31	14.12	196.13	41.56	217.44	43.88	--	--	41.88	15.90	41.88	15.90	259.32	46.67
Exotic hardwoods	3.70	3.78	4.23	3.64	7.93	5.25	--	--	--	--	--	--	7.93	5.25
Other hardwoods	463.93	61.72	230.55	44.36	694.48	75.78	103.59	32.72	37.07	18.43	140.66	37.39	835.14	84.46
<b>Total</b>	<b>5,490.91</b>	<b>198.44</b>	<b>9,378.94</b>	<b>243.61</b>	<b>14,869.85</b>	<b>295.80</b>	<b>1,110.26</b>	<b>98.60</b>	<b>1,562.43</b>	<b>110.96</b>	<b>2,672.69</b>	<b>143.61</b>	<b>17,542.54</b>	<b>320.69</b>
<b>Nonstocked</b>	<b>1,110.25</b>	<b>96.96</b>	<b>259.32</b>	<b>48.13</b>	<b>1,369.57</b>	<b>107.89</b>	<b>321.33</b>	<b>55.23</b>	<b>134.60</b>	<b>35.14</b>	<b>466.08</b>	<b>65.84</b>	<b>1,835.65</b>	<b>126.23</b>
<b>All forest types</b>	<b>16,049.86</b>	<b>240.56</b>	<b>14,462.10</b>	<b>333.38</b>	<b>30,511.96</b>	<b>363.95</b>	<b>3,597.67</b>	<b>128.31</b>	<b>3,353.87</b>	<b>164.73</b>	<b>6,961.69</b>	<b>190.51</b>	<b>37,473.65</b>	<b>380.46</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D18: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	14.96	9.45	--	--	14.96	9.45	--	--	--	--	--	--	14.96	9.45
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	152.20	37.71	152.20	37.71	--	--	25.17	14.84	25.17	14.84	177.36	40.52
Ponderosa pine	--	--	28.60	20.45	28.60	20.45	--	--	3.19	3.04	3.19	3.04	31.79	20.68
Redwood	85.52	20.47	--	--	85.52	20.47	34.25	12.79	--	--	34.25	12.79	119.78	24.37
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	15.45	11.60	--	--	15.45	11.60	--	--	--	--	--	--	15.45	11.60
<b>Total</b>	<b>115.94</b>	<b>25.29</b>	<b>180.80</b>	<b>42.88</b>	<b>296.73</b>	<b>49.79</b>	<b>34.25</b>	<b>12.79</b>	<b>28.36</b>	<b>15.14</b>	<b>62.61</b>	<b>19.82</b>	<b>359.34</b>	<b>53.69</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	7.46	5.59	7.46	5.59	6.98	7.76	--	--	6.98	7.76	14.43	9.57
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	6.16	3.70	6.16	3.70	--	--	0.60	0.81	0.60	0.81	6.76	3.78
Tanoak / laurel	51.60	20.15	87.56	25.65	139.15	32.53	34.36	17.71	58.17	22.16	92.54	28.37	231.69	43.16
Western oak	37.56	18.06	1,366.59	102.27	1,404.15	103.85	27.18	15.66	428.76	56.87	455.94	57.95	1,860.10	117.99
Woodland hardwoods	--	--	--	--	--	--	--	--	5.01	3.56	5.01	3.56	5.01	3.56
Exotic hardwoods	--	--	4.23	3.64	4.23	3.64	--	--	--	--	--	--	4.23	3.64
Other hardwoods	26.00	14.20	35.70	16.64	61.70	21.51	22.50	14.89	26.22	16.24	48.71	21.75	110.42	30.50
<b>Total</b>	<b>115.16</b>	<b>30.52</b>	<b>1,507.71</b>	<b>107.18</b>	<b>1,622.86</b>	<b>111.11</b>	<b>91.02</b>	<b>28.28</b>	<b>518.76</b>	<b>63.81</b>	<b>609.78</b>	<b>67.66</b>	<b>2,232.64</b>	<b>128.89</b>
<b>Nonstocked</b>	<b>7.71</b>	<b>7.72</b>	<b>1.10</b>	<b>0.95</b>	<b>8.81</b>	<b>7.78</b>	<b>13.02</b>	<b>12.09</b>	<b>3.73</b>	<b>3.28</b>	<b>16.75</b>	<b>12.53</b>	<b>25.56</b>	<b>14.75</b>
<b>All forest types</b>	<b>238.80</b>	<b>40.76</b>	<b>1,689.61</b>	<b>115.17</b>	<b>1,928.41</b>	<b>121.76</b>	<b>138.29</b>	<b>32.73</b>	<b>550.84</b>	<b>65.84</b>	<b>689.13</b>	<b>71.14</b>	<b>2,617.54</b>	<b>139.77</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D19: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Central Valley**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	10.85	9.26	10.85	9.26	--	--	7.58	6.87	7.58	6.87	18.43	11.53
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	--	--	115.75	29.70	115.75	29.70	--	--	0.79	0.82	0.79	0.82	116.55	29.71
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	126.60	31.10	126.60	31.10	--	--	8.37	6.92	8.37	6.92	134.97	31.86
<b>Nonstocked</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types</b>	--	--	126.60	31.10	126.60	31.10	--	--	8.37	6.92	8.37	6.92	134.97	31.86

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D20: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Eastside

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	201.77	31.10	5.21	3.77	206.98	31.31	--	--	--	--	--	--	206.98	31.31
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	58.08	15.24	--	--	58.08	15.24	18.06	8.69	--	--	18.06	8.69	76.14	17.54
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	16.14	8.80	8.22	4.84	24.36	10.04	--	--	--	--	--	--	24.36	10.04
Pinyon / juniper	9.74	9.73	745.19	82.32	754.93	82.87	--	--	263.70	51.52	263.70	51.52	1,018.63	96.21
Ponderosa pine	422.21	65.65	4.74	3.56	426.95	65.73	14.96	7.97	--	--	14.96	7.97	441.91	66.20
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	175.68	44.50	2,133.39	188.94	2,309.07	193.60	--	--	16.24	13.93	16.24	13.93	2,325.31	194.05
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	2.76	2.83	8.76	6.20	11.52	6.81	--	--	55.96	28.45	55.96	28.45	67.48	29.25
<b>Total</b>	<b>886.38</b>	<b>87.33</b>	<b>2,905.51</b>	<b>203.54</b>	<b>3,791.89</b>	<b>220.51</b>	<b>33.02</b>	<b>11.79</b>	<b>335.90</b>	<b>60.58</b>	<b>368.93</b>	<b>61.61</b>	<b>4,160.81</b>	<b>227.67</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	0.08	0.08	0.08	0.08	0.08	0.08
Aspen / birch	9.93	9.06	29.25	16.37	39.18	18.71	18.44	14.34	0.17	0.17	18.60	14.34	57.79	23.58
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	7.68	6.41	23.47	14.18	31.15	16.82	--	--	--	--	--	--	31.15	16.82
Woodland hardwoods	21.31	14.12	40.13	19.73	61.44	24.26	--	--	--	--	--	--	61.44	24.26
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	47.28	20.32	6.41	6.44	53.70	21.31	--	--	--	--	--	--	53.70	21.31
<b>Total</b>	<b>86.21</b>	<b>27.09</b>	<b>99.26</b>	<b>29.94</b>	<b>185.47</b>	<b>40.88</b>	<b>18.44</b>	<b>14.34</b>	<b>0.25</b>	<b>0.19</b>	<b>18.68</b>	<b>14.34</b>	<b>204.15</b>	<b>43.32</b>
<b>Nonstocked</b>	<b>203.07</b>	<b>42.72</b>	<b>86.85</b>	<b>28.38</b>	<b>289.92</b>	<b>51.26</b>	<b>--</b>	<b>--</b>	<b>8.06</b>	<b>8.20</b>	<b>8.06</b>	<b>8.20</b>	<b>297.98</b>	<b>51.92</b>
<b>All forest types</b>	<b>1,175.66</b>	<b>101.47</b>	<b>3,091.62</b>	<b>206.89</b>	<b>4,267.27</b>	<b>229.02</b>	<b>51.46</b>	<b>18.92</b>	<b>344.21</b>	<b>61.36</b>	<b>395.67</b>	<b>64.09</b>	<b>4,662.95</b>	<b>236.39</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table D21: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	1,301.39	78.09	7.87	5.92	1,309.26	78.35	304.87	32.18	8.04	7.89	312.91	33.05	1,622.17	84.81
Douglas-fir	375.74	46.93	--	--	375.74	46.93	132.12	28.14	30.33	15.37	162.45	32.03	538.18	56.68
Fir / spruce / mountain hemlock	104.04	23.55	8.90	6.93	112.94	24.50	111.33	22.94	4.42	4.61	115.76	23.33	228.70	33.83
Western Hemlock / Sitka spruce	--	--	--	--	--	--	1.86	1.85	--	--	1.86	1.85	1.86	1.85
Lodgepole pine	5.12	4.91	--	--	5.12	4.91	9.37	9.44	6.14	6.31	15.51	11.36	20.63	12.38
Pinyon / juniper	--	--	4.55	4.55	4.55	4.55	--	--	--	--	--	--	4.55	4.55
Ponderosa pine	157.80	30.02	--	--	157.80	30.02	19.10	7.18	6.42	4.30	25.52	8.37	183.32	31.13
Redwood	8.24	5.92	--	--	8.24	5.92	21.13	12.70	--	--	21.13	12.70	29.37	14.01
Western juniper	--	--	34.90	22.17	34.90	22.17	--	--	--	--	--	--	34.90	22.17
Western white pine	7.52	5.81	--	--	7.52	5.81	43.07	18.87	11.50	11.94	54.57	22.33	62.09	23.07
Other western softwoods	19.05	12.19	76.18	30.03	95.24	32.41	4.69	4.13	8.84	9.03	13.53	9.93	108.77	33.80
<b>Total</b>	<b>1,978.90</b>	<b>98.47</b>	<b>132.40</b>	<b>38.68</b>	<b>2,111.30</b>	<b>105.60</b>	<b>647.55</b>	<b>51.77</b>	<b>75.70</b>	<b>25.28</b>	<b>723.24</b>	<b>57.47</b>	<b>2,834.54</b>	<b>119.00</b>
<b>Hardwoods:</b>														
Alder / maple	108.19	29.53	11.16	7.03	119.35	30.36	31.81	16.79	16.03	12.80	47.83	21.11	167.19	36.98
Aspen / birch	--	--	--	--	--	--	--	--	7.23	7.25	7.23	7.25	7.23	7.25
Elm / ash / cottonwood	--	--	6.77	4.80	6.77	4.80	0.97	0.96	--	--	0.97	0.96	7.74	4.90
Tanoak / laurel	592.84	70.19	38.73	17.48	631.58	72.25	262.81	48.18	43.46	20.47	306.27	52.23	937.85	88.75
Western oak	1,316.27	106.02	2,513.18	142.14	3,829.45	175.47	218.56	44.85	357.30	55.76	575.86	71.59	4,405.31	188.50
Woodland hardwoods	--	--	3.46	2.05	3.46	2.05	--	--	10.71	8.97	10.71	8.97	14.17	9.20
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	159.05	36.24	14.87	10.68	173.92	37.71	62.60	25.95	9.29	8.59	71.89	27.33	245.81	46.58
<b>Total</b>	<b>2,176.36</b>	<b>133.39</b>	<b>2,588.18</b>	<b>143.55</b>	<b>4,764.53</b>	<b>193.27</b>	<b>576.75</b>	<b>71.86</b>	<b>444.01</b>	<b>62.36</b>	<b>1,020.76</b>	<b>94.28</b>	<b>5,785.30</b>	<b>213.12</b>
<b>Nonstocked</b>	<b>201.60</b>	<b>41.84</b>	<b>20.16</b>	<b>12.30</b>	<b>221.77</b>	<b>43.61</b>	<b>130.86</b>	<b>34.74</b>	<b>11.62</b>	<b>10.65</b>	<b>142.48</b>	<b>36.33</b>	<b>364.24</b>	<b>56.72</b>
<b>All forest types</b>	<b>4,356.86</b>	<b>165.77</b>	<b>2,740.73</b>	<b>149.02</b>	<b>7,097.60</b>	<b>218.46</b>	<b>1,355.15</b>	<b>90.02</b>	<b>531.33</b>	<b>68.10</b>	<b>1,886.49</b>	<b>110.40</b>	<b>8,984.08</b>	<b>240.45</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D22: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: North Coast**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	549.14	57.33	--	--	549.14	57.33	86.26	24.20	--	--	86.26	24.20	635.40	61.95
Fir / spruce / mountain hemlock	6.37	4.26	--	--	6.37	4.26	--	--	--	--	--	--	6.37	4.26
Western Hemlock / Sitka spruce	25.85	12.01	--	--	25.85	12.01	--	--	--	--	--	--	25.85	12.01
Lodgepole pine	--	--	--	--	--	--	4.51	4.61	0.51	0.82	5.02	4.68	5.02	4.68
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	507.98	51.97	--	--	507.98	51.97	61.22	23.49	--	--	61.22	23.49	569.20	56.51
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	2.76	2.01	--	--	2.76	2.01	2.35	2.35	22.98	19.73	25.33	19.87	28.09	19.97
<b>Total</b>	<b>1,092.10</b>	<b>76.25</b>	<b>--</b>	<b>--</b>	<b>1,092.10</b>	<b>76.25</b>	<b>154.34</b>	<b>33.19</b>	<b>23.49</b>	<b>19.75</b>	<b>177.83</b>	<b>38.66</b>	<b>1,269.93</b>	<b>84.35</b>
<b>Hardwoods:</b>														
Alder / maple	120.42	30.66	1.53	1.43	121.96	30.68	11.43	9.57	--	--	11.43	9.57	133.39	32.14
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	1,098.91	94.15	52.05	21.02	1,150.96	96.25	160.61	37.97	33.03	17.80	193.64	41.73	1,344.59	104.21
Western oak	213.58	43.29	239.62	41.49	453.20	60.02	--	--	30.89	15.43	30.89	15.43	484.09	62.42
Woodland hardwoods	--	--	--	--	--	--	--	--	1.98	1.79	1.98	1.79	1.98	1.79
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	87.38	26.75	2.46	2.34	89.84	26.85	18.50	13.64	--	--	18.50	13.64	108.34	30.12
<b>Total</b>	<b>1,520.29</b>	<b>109.29</b>	<b>295.66</b>	<b>46.52</b>	<b>1,815.95</b>	<b>118.00</b>	<b>190.53</b>	<b>41.28</b>	<b>65.90</b>	<b>23.63</b>	<b>256.43</b>	<b>47.18</b>	<b>2,072.38</b>	<b>126.41</b>
<b>Nonstocked</b>	<b>21.61</b>	<b>12.89</b>	<b>--</b>	<b>--</b>	<b>21.61</b>	<b>12.89</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>21.61</b>	<b>12.89</b>
<b>All forest types</b>	<b>2,634.01</b>	<b>126.98</b>	<b>295.66</b>	<b>46.52</b>	<b>2,929.66</b>	<b>134.16</b>	<b>344.87</b>	<b>50.81</b>	<b>89.39</b>	<b>30.79</b>	<b>434.26</b>	<b>59.00</b>	<b>3,363.93</b>	<b>144.28</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D23: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Sierra Cascades**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	2,690.24	124.75	6.64	4.25	2,696.88	124.80	488.98	45.05	4.03	3.59	493.01	45.15	3,189.89	131.46
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	833.49	58.51	21.99	12.37	855.48	59.71	274.64	34.35	35.36	13.31	310.00	36.77	1,165.47	69.95
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	202.81	38.43	16.24	7.05	219.05	39.02	230.82	28.94	173.71	36.00	404.53	45.19	623.58	59.56
Pinyon / juniper	7.34	7.40	328.36	55.43	335.70	55.92	9.74	9.20	233.09	49.01	242.83	49.84	578.53	74.67
Ponderosa pine	1,472.68	102.77	44.58	24.89	1,517.26	105.51	90.48	20.39	20.57	12.25	111.04	23.76	1,628.30	108.13
Redwood	4.34	3.98	--	--	4.34	3.98	--	--	--	--	--	--	4.34	3.98
Western juniper	72.24	21.21	680.14	106.11	752.38	108.05	95.51	29.93	69.73	33.26	165.24	44.39	917.61	116.75
Western white pine	16.85	10.48	--	--	16.85	10.48	29.17	9.54	26.67	11.95	55.84	15.27	72.69	18.52
Other western softwoods	31.49	15.55	115.30	49.41	146.79	51.80	29.80	14.36	360.34	63.57	390.14	64.72	536.94	82.76
<b>Total</b>	<b>5,331.47</b>	<b>167.57</b>	<b>1,213.25</b>	<b>131.70</b>	<b>6,544.72</b>	<b>209.61</b>	<b>1,249.14</b>	<b>70.71</b>	<b>923.51</b>	<b>93.33</b>	<b>2,172.64</b>	<b>112.10</b>	<b>8,717.37</b>	<b>234.89</b>
<b>Hardwoods:</b>														
Alder / maple	13.16	8.94	--	--	13.16	8.94	--	--	--	--	--	--	13.16	8.94
Aspen / birch	8.36	5.95	9.42	5.82	17.78	8.32	12.97	11.84	25.17	13.56	38.14	18.01	55.92	19.84
Elm / ash / cottonwood	--	--	14.56	9.78	14.56	9.78	--	--	--	--	--	--	14.56	9.78
Tanoak / laurel	88.36	27.25	37.72	19.31	126.08	33.38	--	--	--	--	--	--	126.08	33.38
Western oak	1,257.24	103.56	3,893.24	171.54	5,150.49	196.63	151.94	35.98	320.37	53.80	472.31	64.83	5,622.80	205.80
Woodland hardwoods	--	--	56.92	23.25	56.92	23.25	--	--	6.24	5.64	6.24	5.64	63.15	23.93
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	144.21	34.52	142.18	35.90	286.39	49.78	--	--	1.56	1.46	1.56	1.46	287.95	49.80
<b>Total</b>	<b>1,511.34</b>	<b>112.42</b>	<b>4,154.03</b>	<b>176.64</b>	<b>5,665.37</b>	<b>205.24</b>	<b>164.92</b>	<b>37.88</b>	<b>353.34</b>	<b>55.71</b>	<b>518.26</b>	<b>67.47</b>	<b>6,183.63</b>	<b>214.74</b>
<b>Nonstocked</b>	<b>619.72</b>	<b>72.75</b>	<b>96.82</b>	<b>30.15</b>	<b>716.53</b>	<b>78.63</b>	<b>162.62</b>	<b>40.04</b>	<b>69.17</b>	<b>25.83</b>	<b>231.79</b>	<b>47.59</b>	<b>948.32</b>	<b>91.89</b>
<b>All forest types</b>	<b>7,462.53</b>	<b>202.64</b>	<b>5,464.10</b>	<b>218.99</b>	<b>12,926.63</b>	<b>285.24</b>	<b>1,576.68</b>	<b>86.48</b>	<b>1,346.01</b>	<b>110.77</b>	<b>2,922.69</b>	<b>134.27</b>	<b>15,849.32</b>	<b>308.54</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D24: Aboveground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: South Coast Mountains and Deserts**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	22.56	11.41	--	--	22.56	11.41	17.85	9.29	--	--	17.85	9.29	40.40	14.71
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	6.75	4.95	--	--	6.75	4.95	--	--	--	--	--	--	6.75	4.95
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	10.38	6.34	10.38	6.34	10.38	6.34
Pinyon / juniper	--	--	387.05	60.33	387.05	60.33	--	--	253.18	50.32	253.18	50.32	640.23	78.45
Ponderosa pine	5.15	3.71	--	--	5.15	3.71	23.99	12.30	2.29	2.31	26.28	12.51	31.43	13.05
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	9.44	6.91	4.85	4.89	14.29	8.46	--	--	--	--	--	--	14.29	8.46
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	5.95	5.45	4.02	5.00	9.97	7.40	9.97	7.40
<b>Total</b>	<b>43.91</b>	<b>14.69</b>	<b>391.89</b>	<b>60.53</b>	<b>435.80</b>	<b>62.23</b>	<b>47.78</b>	<b>16.21</b>	<b>269.88</b>	<b>50.96</b>	<b>317.66</b>	<b>53.48</b>	<b>753.46</b>	<b>81.94</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	7.96	5.55	7.96	5.55	--	--	--	--	--	--	7.96	5.55
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	0.12	0.12	0.12	0.12	--	--	4.07	5.54	4.07	5.54	4.19	5.55
Tanoak / laurel	--	--	--	--	--	--	--	--	10.48	10.29	10.48	10.29	10.48	10.29
Western oak	77.86	25.70	474.87	60.49	552.73	66.41	68.60	26.43	139.32	36.80	207.92	44.83	760.65	79.80
Woodland hardwoods	--	--	95.62	28.21	95.62	28.21	--	--	17.95	11.17	17.95	11.17	113.57	30.33
Exotic hardwoods	3.70	3.78	--	--	3.70	3.78	--	--	--	--	--	--	3.70	3.78
Other hardwoods	--	--	28.93	15.69	28.93	15.69	--	--	--	--	--	--	28.93	15.69
<b>Total</b>	<b>81.55</b>	<b>25.97</b>	<b>607.50</b>	<b>68.60</b>	<b>689.05</b>	<b>73.97</b>	<b>68.60</b>	<b>26.43</b>	<b>171.81</b>	<b>40.20</b>	<b>240.41</b>	<b>47.66</b>	<b>929.47</b>	<b>87.65</b>
<b>Nonstocked</b>	<b>56.54</b>	<b>23.14</b>	<b>54.39</b>	<b>21.81</b>	<b>110.93</b>	<b>31.72</b>	<b>14.83</b>	<b>11.26</b>	<b>42.02</b>	<b>19.46</b>	<b>67.00</b>	<b>24.09</b>	<b>177.93</b>	<b>39.83</b>
<b>All forest types</b>	<b>182.00</b>	<b>37.62</b>	<b>1,053.78</b>	<b>94.14</b>	<b>1,235.79</b>	<b>101.68</b>	<b>131.22</b>	<b>32.79</b>	<b>483.71</b>	<b>67.34</b>	<b>625.07</b>	<b>74.86</b>	<b>1,860.86</b>	<b>125.78</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D25: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: All California

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	468.44	15.81	2.19	0.91	470.63	15.83	90.19	5.99	1.34	0.96	91.53	6.04	562.16	16.74
Douglas-fir	104.43	8.18	--	--	104.43	8.18	24.26	4.10	3.37	1.71	27.63	4.44	132.06	9.26
Fir / spruce / mountain hemlock	112.08	7.14	3.43	1.58	115.51	7.30	44.89	4.59	4.42	1.57	49.31	4.83	164.83	8.73
Western Hemlock / Sitka spruce	2.87	1.33	--	--	2.87	1.33	0.21	0.21	--	--	0.21	0.21	3.08	1.35
Lodgepole pine	24.90	4.41	2.72	0.95	27.61	4.50	27.19	3.42	21.19	4.11	48.38	5.23	76.00	6.89
Pinyon / juniper	1.90	1.36	179.70	13.05	181.60	13.12	1.08	1.02	86.13	9.57	87.21	9.62	268.81	16.04
Ponderosa pine	228.65	13.61	8.66	3.60	237.31	14.04	16.50	2.88	3.61	1.50	20.11	3.24	257.42	14.39
Redwood	67.34	6.18	--	--	67.34	6.18	12.96	3.24	--	--	12.96	3.24	80.30	6.92
Western white pine	2.71	1.33	--	--	2.71	1.33	8.03	2.35	4.24	1.88	12.27	3.00	14.98	3.29
Other western softwoods	36.54	6.09	339.28	24.77	375.82	25.39	15.37	3.77	59.79	9.00	75.16	9.68	450.98	27.02
<b>Total</b>	<b>1,049.86</b>	<b>21.97</b>	<b>535.98</b>	<b>27.44</b>	<b>1,585.84</b>	<b>34.01</b>	<b>240.68</b>	<b>9.83</b>	<b>184.09</b>	<b>13.67</b>	<b>424.77</b>	<b>16.06</b>	<b>2,010.61</b>	<b>36.48</b>
<b>Hardwoods:</b>														
Alder / maple	26.86	4.81	3.12	1.18	29.99	4.95	5.58	2.31	1.79	1.42	7.37	2.72	37.36	5.65
Aspen / birch	2.03	1.20	4.30	1.93	6.33	2.27	3.49	2.07	3.62	1.71	7.11	2.68	13.44	3.52
Elm / ash / cottonwood	--	--	4.27	1.64	4.27	1.64	0.11	0.11	1.36	0.98	1.47	0.99	5.74	1.92
Tanoak / laurel	203.52	13.21	24.01	4.67	227.53	13.92	50.86	7.07	16.13	4.06	66.99	8.10	294.52	15.98
Western oak	323.35	17.14	958.52	26.20	1,281.88	30.18	51.81	7.17	141.94	11.16	193.75	13.01	1,475.63	32.35
Woodland hardwoods	2.37	1.57	21.79	4.62	24.16	4.88	--	--	4.65	1.77	4.65	1.77	28.81	5.19
Exotic hardwoods	0.41	0.42	0.47	0.40	0.88	0.58	--	--	--	--	--	--	0.88	0.58
Other hardwoods	51.55	6.86	25.62	4.93	77.16	8.42	11.51	3.64	4.12	2.05	15.63	4.15	92.79	9.38
<b>Total</b>	<b>610.10</b>	<b>22.05</b>	<b>1,042.10</b>	<b>27.07</b>	<b>1,652.21</b>	<b>32.87</b>	<b>123.36</b>	<b>10.96</b>	<b>173.60</b>	<b>12.33</b>	<b>296.97</b>	<b>15.96</b>	<b>1,949.17</b>	<b>35.63</b>
<b>Nonstocked</b>	<b>123.36</b>	<b>10.77</b>	<b>28.81</b>	<b>5.35</b>	<b>152.17</b>	<b>11.99</b>	<b>35.70</b>	<b>6.14</b>	<b>14.96</b>	<b>3.90</b>	<b>51.79</b>	<b>7.32</b>	<b>203.96</b>	<b>14.03</b>
<b>All forest types</b>	<b>1,783.32</b>	<b>26.73</b>	<b>1,606.90</b>	<b>37.04</b>	<b>3,390.22</b>	<b>40.44</b>	<b>399.74</b>	<b>14.26</b>	<b>372.65</b>	<b>18.30</b>	<b>773.52</b>	<b>21.17</b>	<b>4,163.74</b>	<b>42.27</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D26: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	1.66	1.05	--	--	1.66	1.05	--	--	--	--	--	--	1.66	1.05
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	16.91	4.19	16.91	4.19	--	--	2.80	1.65	2.80	1.65	19.71	4.50
Ponderosa pine	--	--	3.18	2.27	3.18	2.27	--	--	0.35	0.34	0.35	0.34	3.53	2.30
Redwood	9.50	2.27	--	--	9.50	2.27	3.81	1.42	--	--	3.81	1.42	13.31	2.71
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	1.72	1.29	--	--	1.72	1.29	--	--	--	--	--	--	1.72	1.29
<b>Total</b>	<b>12.88</b>	<b>2.81</b>	<b>20.09</b>	<b>4.76</b>	<b>32.97</b>	<b>5.53</b>	<b>3.81</b>	<b>1.42</b>	<b>3.15</b>	<b>1.68</b>	<b>6.96</b>	<b>2.20</b>	<b>39.93</b>	<b>5.97</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	0.83	0.62	0.83	0.62	0.78	0.86	--	--	0.78	0.86	1.60	1.06
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	0.69	0.41	0.69	0.41	--	--	0.07	0.09	0.07	0.09	0.75	0.42
Tanoak / laurel	5.73	2.24	9.73	2.85	15.46	3.61	3.82	1.97	6.46	2.46	10.28	3.15	25.74	4.80
Western oak	4.17	2.01	151.84	11.36	156.02	11.54	3.02	1.74	47.64	6.32	50.66	6.44	206.68	13.11
Woodland hardwoods	--	--	--	--	--	--	--	--	0.56	0.40	0.56	0.40	0.56	0.40
Exotic hardwoods	--	--	0.47	0.40	0.47	0.40	--	--	--	--	--	--	0.47	0.40
Other hardwoods	2.89	1.58	3.97	1.85	6.86	2.39	2.50	1.65	2.91	1.80	5.41	2.42	12.27	3.39
<b>Total</b>	<b>12.80</b>	<b>3.39</b>	<b>167.52</b>	<b>11.91</b>	<b>180.32</b>	<b>12.35</b>	<b>10.11</b>	<b>3.14</b>	<b>57.64</b>	<b>7.09</b>	<b>67.75</b>	<b>7.52</b>	<b>248.07</b>	<b>14.32</b>
<b>Nonstocked</b>	<b>0.86</b>	<b>0.86</b>	<b>0.12</b>	<b>0.11</b>	<b>0.98</b>	<b>0.86</b>	<b>1.45</b>	<b>1.34</b>	<b>0.41</b>	<b>0.36</b>	<b>1.86</b>	<b>1.39</b>	<b>2.84</b>	<b>1.64</b>
<b>All forest types</b>	<b>26.53</b>	<b>4.53</b>	<b>187.73</b>	<b>12.80</b>	<b>214.27</b>	<b>13.53</b>	<b>15.37</b>	<b>3.64</b>	<b>61.20</b>	<b>7.32</b>	<b>76.57</b>	<b>7.90</b>	<b>290.84</b>	<b>15.53</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D27: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Central Valley**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	1.21	1.03	1.21	1.03	--	--	0.84	0.76	0.84	0.76	2.05	1.28
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	--	--	12.86	3.30	12.86	3.30	--	--	0.09	0.09	0.09	0.09	12.95	3.30
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	14.07	3.46	14.07	3.46	--	--	0.93	0.77	0.93	0.77	15.00	3.54
<b>Nonstocked</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types</b>	--	--	14.07	3.46	14.07	3.46	--	--	0.93	0.77	0.93	0.77	15.00	3.54

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D28: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Eastside**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	22.42	3.46	0.58	0.42	23.00	3.48	--	--	--	--	--	--	23.00	3.48
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	6.45	1.69	--	--	6.45	1.69	2.01	0.97	--	--	2.01	0.97	8.46	1.95
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	1.79	0.98	0.91	0.54	2.71	1.12	--	--	--	--	--	--	2.71	1.12
Pinyon / juniper	1.08	1.08	82.80	9.15	83.88	9.21	--	--	29.30	5.72	29.30	5.72	113.18	10.69
Ponderosa pine	46.91	7.29	0.53	0.40	47.44	7.30	1.66	0.89	--	--	1.66	0.89	49.10	7.36
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	19.83	4.95	238.02	21.00	257.84	21.52	--	--	8.02	3.52	8.02	3.52	265.87	21.80
<b>Total</b>	<b>98.49</b>	<b>9.70</b>	<b>322.83</b>	<b>22.62</b>	<b>421.32</b>	<b>24.50</b>	<b>3.67</b>	<b>1.31</b>	<b>37.32</b>	<b>6.73</b>	<b>40.99</b>	<b>6.85</b>	<b>462.31</b>	<b>25.30</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	0.01	0.01	0.01	0.01	0.01	0.01
Aspen / birch	1.10	1.01	3.25	1.82	4.35	2.08	2.05	1.59	0.02	0.02	2.07	1.59	6.42	2.62
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	0.85	0.71	2.61	1.58	3.46	1.87	--	--	--	--	--	--	3.46	1.87
Woodland hardwoods	2.37	1.57	4.46	2.19	6.83	2.70	--	--	--	--	--	--	6.83	2.70
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	5.25	2.26	0.71	0.72	5.97	2.37	--	--	--	--	--	--	5.97	2.37
<b>Total</b>	<b>9.58</b>	<b>3.01</b>	<b>11.03</b>	<b>3.33</b>	<b>20.61</b>	<b>4.54</b>	<b>2.05</b>	<b>1.59</b>	<b>0.03</b>	<b>0.02</b>	<b>2.08</b>	<b>1.59</b>	<b>22.68</b>	<b>4.81</b>
<b>Nonstocked</b>	<b>22.56</b>	<b>4.75</b>	<b>9.65</b>	<b>3.15</b>	<b>32.21</b>	<b>5.70</b>	<b>--</b>	<b>--</b>	<b>0.90</b>	<b>0.91</b>	<b>0.90</b>	<b>0.91</b>	<b>33.11</b>	<b>5.77</b>
<b>All forest types</b>	<b>130.63</b>	<b>11.27</b>	<b>343.51</b>	<b>22.99</b>	<b>474.14</b>	<b>25.45</b>	<b>5.72</b>	<b>2.10</b>	<b>38.25</b>	<b>6.82</b>	<b>43.96</b>	<b>7.12</b>	<b>518.10</b>	<b>26.27</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



Table D29: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	144.60	8.68	0.87	0.66	145.47	8.71	33.87	3.58	0.89	0.88	34.77	3.67	180.24	9.42
Douglas-fir	41.75	5.21	--	--	41.75	5.21	14.68	3.13	3.37	1.71	18.05	3.56	59.80	6.30
Fir / spruce / mountain hemlock	11.56	2.62	0.99	0.77	12.55	2.72	12.37	2.55	0.49	0.51	12.86	2.59	25.41	3.76
Western Hemlock / Sitka spruce	--	--	--	--	--	--	0.21	0.21	--	--	0.21	0.21	0.21	0.21
Lodgepole pine	0.57	0.55	--	--	0.57	0.55	1.04	1.05	0.68	0.70	1.72	1.26	2.29	1.38
Pinyon / juniper	--	--	0.51	0.51	0.51	0.51	--	--	--	--	--	--	0.51	0.51
Ponderosa pine	17.53	3.34	--	--	17.53	3.34	2.12	0.80	0.71	0.48	2.84	0.93	20.37	3.46
Redwood	0.92	0.66	--	--	0.92	0.66	2.35	1.41	--	--	2.35	1.41	3.26	1.56
Western white pine	0.84	0.65	--	--	0.84	0.65	4.79	2.10	1.28	1.33	6.06	2.48	6.90	2.56
Other western softwoods	2.12	1.35	12.34	4.15	14.46	4.36	0.52	0.46	0.98	1.00	1.50	1.10	15.96	4.49
<b>Total</b>	<b>219.88</b>	<b>10.94</b>	<b>14.71</b>	<b>4.30</b>	<b>234.59</b>	<b>11.73</b>	<b>71.95</b>	<b>5.75</b>	<b>8.41</b>	<b>2.81</b>	<b>80.36</b>	<b>6.39</b>	<b>314.95</b>	<b>13.22</b>
<b>Hardwoods:</b>														
Alder / maple	12.02	3.28	1.24	0.78	13.26	3.37	3.53	1.87	1.78	1.42	5.31	2.35	18.58	4.11
Aspen / birch	--	--	--	--	--	--	--	--	0.80	0.81	0.80	0.81	0.80	0.81
Elm / ash / cottonwood	--	--	0.75	0.53	0.75	0.53	0.11	0.11	--	--	0.11	0.11	0.86	0.54
Tanoak / laurel	65.87	7.80	4.30	1.94	70.18	8.03	29.20	5.35	4.83	2.27	34.03	5.80	104.21	9.86
Western oak	146.25	11.78	279.24	15.79	425.49	19.50	24.28	4.98	39.70	6.20	63.98	7.95	489.48	20.94
Woodland hardwoods	--	--	0.38	0.23	0.38	0.23	--	--	1.19	1.00	1.19	1.00	1.57	1.02
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	17.67	4.03	1.65	1.19	19.32	4.19	6.96	2.88	1.03	0.95	7.99	3.04	27.31	5.18
<b>Total</b>	<b>241.82</b>	<b>14.82</b>	<b>287.58</b>	<b>15.95</b>	<b>529.39</b>	<b>21.47</b>	<b>64.08</b>	<b>7.98</b>	<b>49.33</b>	<b>6.93</b>	<b>113.42</b>	<b>10.48</b>	<b>642.81</b>	<b>23.68</b>
<b>Nonstocked</b>	<b>22.40</b>	<b>4.65</b>	<b>2.24</b>	<b>1.37</b>	<b>24.64</b>	<b>4.85</b>	<b>14.54</b>	<b>3.86</b>	<b>1.29</b>	<b>1.18</b>	<b>15.83</b>	<b>4.04</b>	<b>40.47</b>	<b>6.30</b>
<b>All forest types</b>	<b>484.10</b>	<b>18.42</b>	<b>304.53</b>	<b>16.56</b>	<b>788.62</b>	<b>24.27</b>	<b>150.57</b>	<b>10.00</b>	<b>59.04</b>	<b>7.57</b>	<b>209.61</b>	<b>12.27</b>	<b>998.23</b>	<b>26.72</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D30: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: North Coast**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	61.02	6.37	--	--	61.02	6.37	9.58	2.69	--	--	9.58	2.69	70.60	6.88
Fir / spruce / mountain hemlock	0.71	0.47	--	--	0.71	0.47	--	--	--	--	--	--	0.71	0.47
Western Hemlock / Sitka spruce	2.87	1.33	--	--	2.87	1.33	--	--	--	--	--	--	2.87	1.33
Lodgepole pine	--	--	--	--	--	--	0.50	0.51	0.06	0.09	0.56	0.52	0.56	0.52
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	56.44	5.77	--	--	56.44	5.77	6.80	2.61	--	--	6.80	2.61	63.24	6.28
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	0.31	0.22	--	--	0.31	0.22	0.26	0.26	2.55	2.19	2.82	2.21	3.12	2.22
<b>Total</b>	<b>121.34</b>	<b>8.47</b>	<b>--</b>	<b>--</b>	<b>121.34</b>	<b>8.47</b>	<b>17.15</b>	<b>3.69</b>	<b>2.61</b>	<b>2.19</b>	<b>19.76</b>	<b>4.30</b>	<b>141.10</b>	<b>9.37</b>
<b>Hardwoods:</b>														
Alder / maple	13.38	3.41	0.17	0.16	13.55	3.41	1.27	1.06	--	--	1.27	1.06	14.82	3.57
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	122.10	10.46	5.78	2.34	127.88	10.69	17.85	4.22	3.67	1.98	21.52	4.64	149.40	11.58
Western oak	23.73	4.81	26.62	4.61	50.36	6.67	--	--	3.43	1.71	3.43	1.71	53.79	6.94
Woodland hardwoods	--	--	--	--	--	--	--	--	0.22	0.20	0.22	0.20	0.22	0.20
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	9.71	2.97	0.27	0.26	9.98	2.98	2.06	1.52	--	--	2.06	1.52	12.04	3.35
<b>Total</b>	<b>168.92</b>	<b>12.14</b>	<b>32.85</b>	<b>5.17</b>	<b>201.77</b>	<b>13.11</b>	<b>21.17</b>	<b>4.59</b>	<b>7.32</b>	<b>2.63</b>	<b>28.49</b>	<b>5.24</b>	<b>230.27</b>	<b>14.05</b>
<b>Nonstocked</b>	<b>2.40</b>	<b>1.43</b>	<b>--</b>	<b>--</b>	<b>2.40</b>	<b>1.43</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2.40</b>	<b>1.43</b>
<b>All forest types</b>	<b>292.67</b>	<b>14.11</b>	<b>32.85</b>	<b>5.17</b>	<b>325.52</b>	<b>14.91</b>	<b>38.32</b>	<b>5.65</b>	<b>9.93</b>	<b>3.42</b>	<b>48.25</b>	<b>6.56</b>	<b>373.77</b>	<b>16.03</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D31: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: Sierra Cascades

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	298.92	13.86	0.74	0.47	299.65	13.87	54.33	5.01	0.45	0.40	54.78	5.02	354.43	14.61
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	92.61	6.50	2.44	1.37	95.05	6.63	30.52	3.82	3.93	1.48	34.44	4.09	129.50	7.77
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	22.53	4.27	1.80	0.78	24.34	4.34	25.65	3.22	19.30	4.00	44.95	5.02	69.29	6.62
Pinyon / juniper	0.82	0.82	36.48	6.16	37.30	6.21	1.08	1.02	25.90	5.45	26.98	5.54	64.28	8.30
Ponderosa pine	163.63	11.42	4.95	2.77	168.58	11.72	10.05	2.27	2.29	1.36	12.34	2.64	180.92	12.01
Redwood	0.48	0.44	--	--	0.48	0.44	--	--	--	--	--	--	0.48	0.44
Western white pine	1.87	1.16	--	--	1.87	1.16	3.24	1.06	2.96	1.33	6.20	1.70	8.08	2.06
Other western softwoods	11.52	2.92	88.38	12.99	99.91	13.30	13.92	3.69	47.79	7.93	61.71	8.65	161.62	15.84
<b>Total</b>	<b>592.39</b>	<b>18.62</b>	<b>134.81</b>	<b>14.63</b>	<b>727.19</b>	<b>23.29</b>	<b>138.79</b>	<b>7.86</b>	<b>102.61</b>	<b>10.37</b>	<b>241.40</b>	<b>12.46</b>	<b>968.60</b>	<b>26.10</b>
<b>Hardwoods:</b>														
Alder / maple	1.46	0.99	--	--	1.46	0.99	--	--	--	--	--	--	1.46	0.99
Aspen / birch	0.93	0.66	1.05	0.65	1.98	0.92	1.44	1.32	2.80	1.51	4.24	2.00	6.21	2.20
Elm / ash / cottonwood	--	--	1.62	1.09	1.62	1.09	--	--	--	--	--	--	1.62	1.09
Tanoak / laurel	9.82	3.03	4.19	2.15	14.01	3.71	--	--	--	--	--	--	14.01	3.71
Western oak	139.69	11.51	432.58	19.06	572.28	21.85	16.88	4.00	35.60	5.98	52.48	7.20	624.76	22.87
Woodland hardwoods	--	--	6.32	2.58	6.32	2.58	--	--	0.69	0.63	0.69	0.63	7.02	2.66
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	16.02	3.84	15.80	3.99	31.82	5.53	--	--	0.17	0.16	0.17	0.16	31.99	5.53
<b>Total</b>	<b>167.93</b>	<b>12.49</b>	<b>461.56</b>	<b>19.63</b>	<b>629.49</b>	<b>22.80</b>	<b>18.32</b>	<b>4.21</b>	<b>39.26</b>	<b>6.19</b>	<b>57.58</b>	<b>7.50</b>	<b>687.07</b>	<b>23.86</b>
<b>Nonstocked</b>	<b>68.86</b>	<b>8.08</b>	<b>10.76</b>	<b>3.35</b>	<b>79.61</b>	<b>8.74</b>	<b>18.07</b>	<b>4.45</b>	<b>7.69</b>	<b>2.87</b>	<b>25.75</b>	<b>5.29</b>	<b>105.37</b>	<b>10.21</b>
<b>All forest types</b>	<b>829.17</b>	<b>22.52</b>	<b>607.12</b>	<b>24.33</b>	<b>1,436.29</b>	<b>31.69</b>	<b>175.19</b>	<b>9.61</b>	<b>149.56</b>	<b>12.31</b>	<b>324.74</b>	<b>14.92</b>	<b>1,761.03</b>	<b>34.28</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D32: Belowground Carbon, Dry Weight of Live Understory Vegetation, by Forest Type and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	2.51	1.27	--	--	2.51	1.27	1.98	1.03	--	--	1.98	1.03	4.49	1.63
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	0.75	0.55	--	--	0.75	0.55	--	--	--	--	--	--	0.75	0.55
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	1.15	0.70	1.15	0.70	1.15	0.70
Pinyon / juniper	--	--	43.01	6.70	43.01	6.70	--	--	28.13	5.59	28.13	5.59	71.14	8.72
Ponderosa pine	0.57	0.41	--	--	0.57	0.41	2.67	1.37	0.25	0.26	2.92	1.39	3.49	1.45
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	1.05	0.77	0.54	0.54	1.59	0.94	0.66	0.61	0.45	0.56	1.11	0.82	2.70	1.25
<b>Total</b>	<b>4.88</b>	<b>1.63</b>	<b>43.54</b>	<b>6.73</b>	<b>48.42</b>	<b>6.91</b>	<b>5.31</b>	<b>1.80</b>	<b>29.99</b>	<b>5.66</b>	<b>35.30</b>	<b>5.94</b>	<b>83.72</b>	<b>9.10</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	0.88	0.62	0.88	0.62	--	--	--	--	--	--	0.88	0.62
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	0.01	0.01	0.01	0.01	--	--	0.45	0.62	0.45	0.62	0.47	0.62
Tanoak / laurel	--	--	--	--	--	--	--	--	1.16	1.14	1.16	1.14	1.16	1.14
Western oak	8.65	2.86	52.76	6.72	61.41	7.38	7.62	2.94	15.48	4.09	23.10	4.98	84.52	8.87
Woodland hardwoods	--	--	10.62	3.13	10.62	3.13	--	--	1.99	1.24	1.99	1.24	12.62	3.37
Exotic hardwoods	0.41	0.42	--	--	0.41	0.42	--	--	--	--	--	--	0.41	0.42
Other hardwoods	--	--	3.21	1.74	3.21	1.74	--	--	--	--	--	--	3.21	1.74
<b>Total</b>	<b>9.06</b>	<b>2.89</b>	<b>67.50</b>	<b>7.62</b>	<b>76.56</b>	<b>8.22</b>	<b>7.62</b>	<b>2.94</b>	<b>19.09</b>	<b>4.47</b>	<b>26.71</b>	<b>5.30</b>	<b>103.27</b>	<b>9.74</b>
<b>Nonstocked</b>	<b>6.28</b>	<b>2.57</b>	<b>6.04</b>	<b>2.42</b>	<b>12.33</b>	<b>3.52</b>	<b>1.65</b>	<b>1.25</b>	<b>4.67</b>	<b>2.16</b>	<b>7.44</b>	<b>2.68</b>	<b>19.77</b>	<b>4.43</b>
<b>All forest types</b>	<b>20.22</b>	<b>4.18</b>	<b>117.09</b>	<b>10.46</b>	<b>137.31</b>	<b>11.30</b>	<b>14.58</b>	<b>3.64</b>	<b>53.74</b>	<b>7.48</b>	<b>69.45</b>	<b>8.32</b>	<b>206.76</b>	<b>13.98</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D33: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Forest Type and Forest Land Status, 2009-2018: All California

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	57,412	1,719	93	48	57,505	1,719	14,529	985	105	84	14,633	987	72,139	1,921
Douglas-fir	11,467	1,035	--	--	11,467	1,035	3,750	713	52	30	3,802	713	15,268	1,249
Fir / spruce / mountain hemlock	12,847	953	143	94	12,990	957	6,466	798	262	117	6,728	806	19,718	1,247
Western Hemlock / Sitka spruce	507	230	--	--	507	230	24	24	--	--	24	24	531	232
Lodgepole pine	1,562	269	298	109	1,861	289	3,573	455	1,029	217	4,602	486	6,463	561
Pinyon / juniper	18	14	796	84	814	85	4	4	478	70	481	71	1,295	110
Ponderosa pine	9,124	586	99	49	9,224	587	1,278	251	97	45	1,375	255	10,599	637
Redwood	10,674	1,081	--	--	10,674	1,081	5,171	1,482	--	--	5,171	1,482	15,845	1,815
Western juniper	404	78	896	83	1,300	113	306	95	53	23	359	98	1,658	149
Western white pine	111	54	--	--	111	54	442	135	121	54	563	145	674	155
Other western softwoods	336	136	127	41	463	142	191	88	917	179	1,108	199	1,571	244
<b>Total</b>	<b>104,461</b>	<b>2,150</b>	<b>2,453</b>	<b>197</b>	<b>106,914</b>	<b>2,149</b>	<b>35,733</b>	<b>1,922</b>	<b>3,113</b>	<b>322</b>	<b>38,846</b>	<b>1,929</b>	<b>145,761</b>	<b>2,713</b>
<b>Hardwoods:</b>														
Alder / maple	1,158	246	91	46	1,249	250	488	209	3	4	491	209	1,740	326
Aspen / birch	57	38	16	7	73	38	7	5	50	34	57	35	130	52
Elm / ash / cottonwood	--	--	93	53	93	53	--	--	34	28	34	28	127	60
Tanoak / laurel	14,341	1,080	736	181	15,076	1,092	3,623	615	511	217	4,134	649	19,210	1,263
Western oak	12,580	833	16,697	660	29,277	1,030	1,491	267	2,730	303	4,221	401	33,498	1,094
Woodland hardwoods	17	12	72	23	88	26	--	--	42	21	42	21	130	33
Exotic hardwoods		1	--	--	1	--	--	--	--	--	--	--		1
Other hardwoods	2,128	408	197	48	2,325	411	439	220	36	26	475	222	2,801	464
<b>Total</b>	<b>30,281</b>	<b>1,388</b>	<b>17,902</b>	<b>683</b>	<b>48,183</b>	<b>1,489</b>	<b>6,048</b>	<b>718</b>	<b>3,405</b>	<b>376</b>	<b>9,453</b>	<b>800</b>	<b>57,636</b>	<b>1,661</b>
<b>Nonstocked</b>	<b>206</b>	<b>44</b>	<b>11</b>	<b>9</b>	<b>217</b>	<b>44</b>	<b>77</b>	<b>39</b>	<b>2</b>	<b>2</b>	<b>79</b>	<b>39</b>	<b>296</b>	<b>59</b>
<b>All forest types</b>	<b>134,949</b>	<b>2,194</b>	<b>20,365</b>	<b>706</b>	<b>155,314</b>	<b>2,159</b>	<b>41,858</b>	<b>1,946</b>	<b>6,521</b>	<b>490</b>	<b>48,379</b>	<b>1,962</b>	<b>203,693</b>	<b>2,618</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D34: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Forest Type and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	266	175	--	--	266	175	--	--	--	--	--	--	266	175
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	34	10	34	10	--	--	4	2	4	2	38	11
Ponderosa pine	--	--	8	6	8	6	--	--	11	11	11	11	20	12
Redwood	2,105	534	--	--	2,105	534	1,296	506	--	--	1,296	506	3,400	754
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	131	103	--	--	131	103	--	--	--	--	--	--	131	103
<b>Total</b>	<b>2,502</b>	<b>571</b>	<b>43</b>	<b>12</b>	<b>2,545</b>	<b>571</b>	<b>1,296</b>	<b>506</b>	<b>15</b>	<b>11</b>	<b>1,311</b>	<b>506</b>	<b>3,855</b>	<b>780</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	16	12	16	12	69	77	--	--	69	77	85	77
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	9	7	9	7	--	--	1	1	1	1	10	7
Tanoak / laurel	555	225	342	111	897	251	588	322	207	92	796	335	1,692	419
Western oak	182	89	2,669	252	2,851	267	60	42	864	147	923	151	3,774	303
Woodland hardwoods	--	--	--	--	--	--	--	--	1	1	1	1	1	1
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	281	175	44	20	325	176	268	191	2	2	271	191	596	255
<b>Total</b>	<b>1,018</b>	<b>299</b>	<b>3,080</b>	<b>275</b>	<b>4,098</b>	<b>403</b>	<b>985</b>	<b>375</b>	<b>1,076</b>	<b>175</b>	<b>2,061</b>	<b>407</b>	<b>6,158</b>	<b>565</b>
<b>Nonstocked</b>	<b>4</b>	<b>4</b>	<b>10</b>	<b>9</b>	<b>14</b>	<b>9</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>14</b>	<b>9</b>
<b>All forest types</b>	<b>3,524</b>	<b>641</b>	<b>3,132</b>	<b>275</b>	<b>6,656</b>	<b>694</b>	<b>2,281</b>	<b>614</b>	<b>1,091</b>	<b>176</b>	<b>3,371</b>	<b>635</b>	<b>10,027</b>	<b>943</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D35: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Forest Type and Forest Land Status, 2009-2018: Central Valley**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	46	48	46	48	--	--	27	27	27	27	73	55
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	--	--	166	55	166	55	--	--	2	3	2	3	169	55
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	213	72	213	72	--	--	29	27	29	27	242	77
<b>Nonstocked</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types</b>	--	--	213	72	213	72	--	--	29	27	29	27	242	77

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D36: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Forest Type and Forest Land Status, 2009-2018: Eastside**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	1,153	179	42	35	1,194	182	--	--	--	--	--	--	1,194	182
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	576	175	--	--	576	175	249	140	--	--	249	140	826	224
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	105	55	130	80	235	97	--	--	--	--	--	--	235	97
Pinyon / juniper	5	5	419	59	424	60	--	--	192	44	192	44	616	73
Ponderosa pine	1,240	177	20	13	1,260	177	101	55	--	--	101	55	1,361	185
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	186	46	657	70	842	83	--	--	8	7	8	7	851	83
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	10	10	33	24	43	26	--	--	252	99	252	99	294	102
<b>Total</b>	<b>3,275</b>	<b>313</b>	<b>1,299</b>	<b>128</b>	<b>4,574</b>	<b>338</b>	<b>351</b>	<b>150</b>	<b>452</b>	<b>108</b>	<b>803</b>	<b>185</b>	<b>5,377</b>	<b>385</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	26	24	10	6	36	25	4	4	--	--	4	4	40	25
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	14	12	23	19	37	22	--	--	--	--	--	--	37	22
Woodland hardwoods	17	12	19	11	35	16	--	--	--	--	--	--	35	16
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	14	9			14	9	--	--	--	--	--	--	14	9
<b>Total</b>	<b>71</b>	<b>31</b>	<b>51</b>	<b>23</b>	<b>122</b>	<b>38</b>	<b>4</b>	<b>4</b>	<b>--</b>	<b>--</b>	<b>4</b>	<b>4</b>	<b>127</b>	<b>39</b>
<b>Nonstocked</b>	<b>17</b>	<b>8</b>			<b>18</b>	<b>8</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>18</b>	<b>8</b>
<b>All forest types</b>	<b>3,363</b>	<b>316</b>	<b>1,351</b>	<b>130</b>	<b>4,714</b>	<b>341</b>	<b>355</b>	<b>151</b>	<b>452</b>	<b>108</b>	<b>807</b>	<b>185</b>	<b>5,521</b>	<b>388</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table D37: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Forest Type and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	21,724	1,286	14	13	21,739	1,286	6,290	649	12	11	6,302	649	28,040	1,433
Douglas-fir	4,798	666	--	--	4,798	666	2,172	507	52	30	2,223	508	7,022	836
Fir / spruce / mountain hemlock	1,009	278	29	35	1,038	280	1,338	337	9	9	1,347	337	2,385	438
Western Hemlock / Sitka spruce	--	--	--	--	--	--	24	24	--	--	24	24	24	24
Lodgepole pine	22	21	--	--	22	21	8	8	12	13	20	15	43	26
Pinyon / juniper	--	--	1	1	1	1	--	--	--	--	--	--	1	1
Ponderosa pine	764	175	--	--	764	175	362	152	27	27	389	154	1,153	233
Redwood	131	127	--	--	131	127	1,110	672	--	--	1,110	672	1,240	684
Western juniper	--	--	4	3	4	3	--	--	--	--	--	--	4	3
Western white pine	53	44	--	--	53	44	53	26	4	4	57	26	110	51
Other western softwoods	41	29	60	29	101	41	14	12	6	6	19	13	121	43
<b>Total</b>	<b>28,543</b>	<b>1,449</b>	<b>108</b>	<b>48</b>	<b>28,651</b>	<b>1,449</b>	<b>11,371</b>	<b>1,051</b>	<b>121</b>	<b>45</b>	<b>11,492</b>	<b>1,052</b>	<b>40,143</b>	<b>1,768</b>
<b>Hardwoods:</b>														
Alder / maple	444	138	42	33	486	142	286	158	3	4	289	158	775	212
Aspen / birch	--	--	--	--	--	--	--	--	2	2	2	2	2	2
Elm / ash / cottonwood	--	--	17	12	17	12	--	--	--	--	--	--	17	12
Tanoak / laurel	5,203	742	127	66	5,330	745	1,846	422	62	50	1,908	425	7,238	856
Western oak	6,333	627	5,776	438	12,108	757	743	188	990	201	1,733	276	13,841	803
Woodland hardwoods	--	--	1	1	1	1	--	--	6	5	6	5	7	6
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	933	271	37	29	970	273	27	19	25	25	52	32	1,022	274
<b>Total</b>	<b>12,913</b>	<b>1,004</b>	<b>6,000</b>	<b>444</b>	<b>18,914</b>	<b>1,087</b>	<b>2,902</b>	<b>483</b>	<b>1,088</b>	<b>209</b>	<b>3,989</b>	<b>526</b>	<b>22,903</b>	<b>1,200</b>
<b>Nonstocked</b>	<b>33</b>	<b>12</b>	<b>--</b>	<b>--</b>	<b>33</b>	<b>12</b>	<b>55</b>	<b>35</b>	<b>--</b>	<b>--</b>	<b>55</b>	<b>35</b>	<b>88</b>	<b>37</b>
<b>All forest types</b>	<b>41,489</b>	<b>1,713</b>	<b>6,109</b>	<b>446</b>	<b>47,598</b>	<b>1,755</b>	<b>14,327</b>	<b>1,107</b>	<b>1,209</b>	<b>214</b>	<b>15,536</b>	<b>1,123</b>	<b>63,134</b>	<b>2,043</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D38: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Forest Type and Forest Land Status, 2009-2018: North Coast**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	6,402	788	--	--	6,402	788	1,578	512	--	--	1,578	512	7,980	933
Fir / spruce / mountain hemlock	79	53	--	--	79	53	--	--	--	--	--	--	79	53
Western Hemlock / Sitka spruce	507	230	--	--	507	230	--	--	--	--	--	--	507	230
Lodgepole pine	--	--	--	--	--	--	5	5	--	--	5	5	5	5
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	8,433	950	--	--	8,433	950	2,766	1,246	--	--	2,766	1,246	11,199	1,540
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	69	65	--	--	69	65	28	45	5	5	34	45	103	79
<b>Total</b>	<b>15,489</b>	<b>1,226</b>	<b>--</b>	<b>--</b>	<b>15,489</b>	<b>1,226</b>	<b>4,377</b>	<b>1,327</b>	<b>5</b>	<b>5</b>	<b>4,383</b>	<b>1,327</b>	<b>19,872</b>	<b>1,765</b>
<b>Hardwoods:</b>														
Alder / maple	606	187	--	--	606	187	134	113	--	--	134	113	740	219
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	7,936	752	264	128	8,200	761	1,188	321	231	189	1,420	372	9,620	843
Western oak	1,103	247	729	145	1,832	286	--	--	99	59	99	59	1,931	292
Woodland hardwoods	--	--	--	--	--	--	--	--	20	18	20	18	20	18
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	581	193	13	13	594	193	144	112	--	--	144	112	738	223
<b>Total</b>	<b>10,227</b>	<b>824</b>	<b>1,006</b>	<b>194</b>	<b>11,233</b>	<b>842</b>	<b>1,466</b>	<b>353</b>	<b>350</b>	<b>199</b>	<b>1,816</b>	<b>404</b>	<b>13,048</b>	<b>929</b>
<b>Nonstocked</b>	<b>7</b>	<b>5</b>	<b>--</b>	<b>--</b>	<b>7</b>	<b>5</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>7</b>	<b>5</b>
<b>All forest types</b>	<b>25,723</b>	<b>1,419</b>	<b>1,006</b>	<b>194</b>	<b>26,729</b>	<b>1,427</b>	<b>5,843</b>	<b>1,349</b>	<b>355</b>	<b>199</b>	<b>6,198</b>	<b>1,363</b>	<b>32,927</b>	<b>1,923</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D39: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Forest Type and Forest Land Status, 2009-2018: Sierra Cascades**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	34,380	1,423	37	30	34,417	1,424	8,078	786	93	83	8,172	789	42,589	1,588
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	11,100	902	114	87	11,214	906	4,878	722	253	117	5,131	731	16,345	1,161
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	1,435	262	169	75	1,604	272	3,560	455	963	215	4,523	485	6,127	552
Pinyon / juniper	13	13	203	50	216	51	4	4	208	52	212	52	428	73
Ponderosa pine	7,055	538	71	47	7,126	540	688	185	33	21	721	186	7,847	570
Redwood	6	5	--	--	6	5	--	--	--	--	--	--	6	5
Western juniper	176	55	223	43	399	70	306	95	44	21	350	97	749	120
Western white pine	58	32	--	--	58	32	389	133	117	54	505	143	564	147
Other western softwoods	84	52	34	16	118	54	140	75	655	150	794	166	913	175
<b>Total</b>	<b>54,306</b>	<b>1,640</b>	<b>852</b>	<b>144</b>	<b>55,158</b>	<b>1,643</b>	<b>18,043</b>	<b>1,103</b>	<b>2,366</b>	<b>301</b>	<b>20,409</b>	<b>1,123</b>	<b>75,567</b>	<b>1,926</b>
<b>Hardwoods:</b>														
Alder / maple	108	84	--	--	108	84	--	--	--	--	--	--	108	84
Aspen / birch	30	29	6	4	37	29	2	2	48	34	50	34	87	45
Elm / ash / cottonwood	--	--	21	18	21	18	--	--	--	--	--	--	21	18
Tanoak / laurel	646	237	3	2	649	237	--	--	--	--	--	--	649	237
Western oak	4,745	496	6,603	422	11,349	637	609	179	595	152	1,204	234	12,552	673
Woodland hardwoods	--	--	12	8	12	8	--	--	1	1	1	1	14	8
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	319	160	83	28	402	163	--	--	9	9	9	9	411	163
<b>Total</b>	<b>5,849</b>	<b>577</b>	<b>6,729</b>	<b>423</b>	<b>12,578</b>	<b>699</b>	<b>611</b>	<b>179</b>	<b>653</b>	<b>156</b>	<b>1,264</b>	<b>237</b>	<b>13,843</b>	<b>733</b>
<b>Nonstocked</b>	<b>142</b>	<b>41</b>			<b>143</b>	<b>41</b>	<b>21</b>	<b>18</b>	<b>2</b>	<b>2</b>	<b>23</b>	<b>18</b>	<b>166</b>	<b>45</b>
<b>All forest types</b>	<b>60,298</b>	<b>1,677</b>	<b>7,581</b>	<b>446</b>	<b>67,879</b>	<b>1,691</b>	<b>18,675</b>	<b>1,112</b>	<b>3,022</b>	<b>338</b>	<b>21,697</b>	<b>1,136</b>	<b>89,576</b>	<b>1,948</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D40: Belowground Carbon, Dry Weight of Live Trees (>= 1 inch) by Forest Type and Forest Land Status, 2009-2018: South Coast Mountains and Deserts**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	155	88	--	--	155	88	160	84	--	--	160	84	315	121
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	83	62	--	--	83	62	--	--	--	--	--	--	83	62
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	54	33	54	33	54	33
Pinyon / juniper	--	--	139	40	139	40	--	--	73	24	73	24	212	47
Ponderosa pine	65	47	--	--	65	47	127	62	26	27	153	68	218	82
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	43	31	12	12	55	34	--	--	--	--	--	--	55	34
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	9	8	--	--	9	8	9	8
<b>Total</b>	<b>346</b>	<b>121</b>	<b>151</b>	<b>42</b>	<b>497</b>	<b>128</b>	<b>296</b>	<b>103</b>	<b>154</b>	<b>49</b>	<b>449</b>	<b>114</b>	<b>947</b>	<b>172</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	33	29	33	29	--	--	--	--	--	--	33	29
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	6	8	6	8	6	8
Tanoak / laurel	--	--	--	--	--	--	--	--	11	10	11	10	11	10
Western oak	202	81	731	145	934	169	80	49	180	79	260	93	1,194	192
Woodland hardwoods	--	--	39	19	39	19	--	--	13	8	13	8	53	20
Exotic hardwoods	--	1	--	--	--	1	--	--	--	--	--	--	--	1
Other hardwoods	--	--	19	12	19	12	--	--	--	--	--	--	19	12
<b>Total</b>	<b>203</b>	<b>81</b>	<b>823</b>	<b>149</b>	<b>1,026</b>	<b>172</b>	<b>80</b>	<b>49</b>	<b>210</b>	<b>81</b>	<b>290</b>	<b>94</b>	<b>1,315</b>	<b>196</b>
<b>Nonstocked</b>	<b>3</b>	<b>2</b>			<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>2</b>
<b>All forest types</b>	<b>552</b>	<b>146</b>	<b>974</b>	<b>155</b>	<b>1,526</b>	<b>215</b>	<b>377</b>	<b>116</b>	<b>363</b>	<b>94</b>	<b>740</b>	<b>149</b>	<b>2,266</b>	<b>261</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D41: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: All California**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	5,732	291	22	17	5,754	291	2,817	294	3	2	2,820	294	8,573	409
Douglas-fir	742	105	--	--	742	105	359	87	5	4	364	87	1,106	136
Fir / spruce / mountain hemlock	1,787	187	9	5	1,796	187	1,200	180	31	14	1,232	181	3,027	259
Western Hemlock / Sitka spruce	76	60	--	--	76	60	--	--	--	--	--	--	76	60
Lodgepole pine	212	49	50	31	262	58	454	78	129	31	583	82	845	100
Pinyon / juniper	3	3	66	13	70	13	1	1	39	8	40	8	109	16
Ponderosa pine	356	55	22	21	378	59	55	19	14	7	69	20	447	62
Redwood	718	120	--	--	718	120	252	90	--	--	252	90	970	149
Western juniper	20	8	32	7	52	10	36	14	--	--	36	14	88	18
Western white pine	29	16	--	--	29	16	66	22	22	15	88	27	117	31
Other western softwoods	27	14	44	24	71	28	29	17	136	34	165	38	237	47
<b>Total</b>	<b>9,702</b>	<b>368</b>	<b>245</b>	<b>49</b>	<b>9,947</b>	<b>370</b>	<b>5,270</b>	<b>351</b>	<b>378</b>	<b>50</b>	<b>5,648</b>	<b>353</b>	<b>15,595</b>	<b>501</b>
<b>Hardwoods:</b>														
Alder / maple	243	71	6	5	249	71	47	26	5	4	52	26	301	76
Aspen / birch	2	2	1	1	4	2	10	8	2	2	13	8	16	9
Elm / ash / cottonwood	--	--	5	5	5	5	--	--	3	3	3	3	9	6
Tanoak / laurel	727	93	57	24	784	96	302	69	80	39	382	79	1,166	124
Western oak	1,463	227	1,199	110	2,661	251	429	111	292	56	721	122	3,382	279
Woodland hardwoods	4	3	25	8	29	9	--	--	8	5	8	5	37	10
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	172	50	19	7	190	51	51	24	1	1	52	24	242	56
<b>Total</b>	<b>2,612</b>	<b>259</b>	<b>1,312</b>	<b>113</b>	<b>3,923</b>	<b>280</b>	<b>839</b>	<b>134</b>	<b>391</b>	<b>68</b>	<b>1,230</b>	<b>149</b>	<b>5,154</b>	<b>316</b>
<b>Nonstocked</b>	<b>1,210</b>	<b>252</b>	<b>24</b>	<b>8</b>	<b>1,234</b>	<b>252</b>	<b>630</b>	<b>176</b>	<b>40</b>	<b>21</b>	<b>670</b>	<b>178</b>	<b>1,903</b>	<b>309</b>
<b>All forest types</b>	<b>13,523</b>	<b>485</b>	<b>1,581</b>	<b>123</b>	<b>15,104</b>	<b>494</b>	<b>6,739</b>	<b>395</b>	<b>809</b>	<b>87</b>	<b>7,548</b>	<b>399</b>	<b>22,652</b>	<b>619</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D42: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	5	4	--	--	5	4	--	--	--	--	--	--	5	4
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	3	1	3	1	--	--					3	1
Ponderosa pine	--	--					--	--	1	1	1	1	1	1
Redwood	81	26	--	--	81	26	37	23	--	--	37	23	117	35
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	17	13	--	--	17	13	--	--	--	--	--	--	17	13
<b>Total</b>	<b>103</b>	<b>29</b>	<b>3</b>	<b>1</b>	<b>105</b>	<b>29</b>	<b>37</b>	<b>23</b>	<b>1</b>	<b>1</b>	<b>38</b>	<b>23</b>	<b>143</b>	<b>37</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	1	1	--	--	1	1	1	1
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	15	7	25	17	40	19	13	8	57	36	70	37	111	42
Western oak	4	2	154	25	158	25	2	2	75	39	77	39	235	47
Woodland hardwoods	--	--	--	--	--	--	--	--	4	4	4	4	4	4
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	23	16	1	1	25	16	24	17	1	1	25	17	49	23
<b>Total</b>	<b>42</b>	<b>17</b>	<b>180</b>	<b>31</b>	<b>223</b>	<b>35</b>	<b>40</b>	<b>19</b>	<b>137</b>	<b>54</b>	<b>177</b>	<b>57</b>	<b>399</b>	<b>67</b>
<b>Nonstocked</b>			--	--			2	2	--	--	2	2	2	2
<b>All forest types</b>	<b>145</b>	<b>34</b>	<b>183</b>	<b>31</b>	<b>328</b>	<b>45</b>	<b>79</b>	<b>29</b>	<b>138</b>	<b>54</b>	<b>217</b>	<b>61</b>	<b>545</b>	<b>76</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D43: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: Central Valley**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	4	4	4	4	--	--	3	3	3	3	8	6
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	--	--	6	3	6	3	--	--	--	--	--	--	6	3
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	11	6	11	6	--	--	3	3	3	3	14	6
<b>Nonstocked</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types</b>	--	--	11	6	11	6	--	--	3	3	3	3	14	6

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D44: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: Eastside**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	86	21	1	1	87	21	--	--	--	--	--	--	87	21
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	67	25	--	--	67	25	20	11	--	--	20	11	87	27
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	3	2	35	29	37	29	--	--	--	--	--	--	37	29
Pinyon / juniper	--	--	27	6	27	6	--	--	9	3	9	3	36	7
Ponderosa pine	31	10			32	10	4	3	--	--	4	3	36	11
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	6	3	23	6	29	7	--	--	--	--	--	--	29	7
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	5	5	5	5	--	--	23	11	23	11	28	12
<b>Total</b>	<b>193</b>	<b>34</b>	<b>90</b>	<b>31</b>	<b>284</b>	<b>46</b>	<b>24</b>	<b>12</b>	<b>32</b>	<b>11</b>	<b>57</b>	<b>16</b>	<b>341</b>	<b>49</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	2	2			2	2	10	8	--	--	10	8	13	8
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	2	2	--	--	2	2	--	--	--	--	--	--	2	2
Woodland hardwoods	4	3	6	3	10	4	--	--	--	--	--	--	10	4
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	3	3	--	--	3	3	--	--	--	--	--	--	3	3
<b>Total</b>	<b>12</b>	<b>5</b>	<b>6</b>	<b>3</b>	<b>18</b>	<b>6</b>	<b>10</b>	<b>8</b>	<b>--</b>	<b>--</b>	<b>10</b>	<b>8</b>	<b>28</b>	<b>10</b>
<b>Nonstocked</b>	<b>64</b>	<b>29</b>	<b>4</b>	<b>4</b>	<b>68</b>	<b>29</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>68</b>	<b>29</b>
<b>All forest types</b>	<b>269</b>	<b>45</b>	<b>100</b>	<b>31</b>	<b>369</b>	<b>55</b>	<b>35</b>	<b>15</b>	<b>32</b>	<b>11</b>	<b>67</b>	<b>18</b>	<b>437</b>	<b>58</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table D45: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	2,271	206	3	3	2,274	206	1,240	200	--	--	1,240	200	3,514	287
Douglas-fir	406	86	--	--	406	86	251	77	5	4	256	77	662	115
Fir / spruce / mountain hemlock	147	43	3	3	150	43	360	114			361	114	511	122
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine			--	--			2	2	1	1	2	2	3	2
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	68	28	--	--	68	28	16	10	8	6	23	11	92	30
Redwood	6	6	--	--	6	6	25	16	--	--	25	16	32	17
Western juniper	--	--	1	1	1	1	--	--	--	--	--	--	1	1
Western white pine	8	6	--	--	8	6	15	8	1	1	16	8	23	10
Other western softwoods	9	6	19	15	28	16			--	--			28	16
<b>Total</b>	<b>2,916</b>	<b>226</b>	<b>26</b>	<b>16</b>	<b>2,942</b>	<b>227</b>	<b>1,910</b>	<b>231</b>	<b>14</b>	<b>7</b>	<b>1,924</b>	<b>231</b>	<b>4,866</b>	<b>322</b>
<b>Hardwoods:</b>														
Alder / maple	78	44	5	5	83	44	28	17	5	4	33	18	115	48
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	1	1	1	1	--	--	--	--	--	--	1	1
Tanoak / laurel	372	80	13	13	385	81	177	54	19	13	196	56	581	98
Western oak	710	198	307	55	1,017	205	194	86	76	22	270	89	1,288	224
Woodland hardwoods	--	--	--	--	--	--	--	--	1	1	1	1	1	1
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	109	45	1	1	110	45	26	17			26	17	136	48
<b>Total</b>	<b>1,269</b>	<b>222</b>	<b>327</b>	<b>56</b>	<b>1,596</b>	<b>229</b>	<b>426</b>	<b>104</b>	<b>101</b>	<b>26</b>	<b>526</b>	<b>107</b>	<b>2,122</b>	<b>253</b>
<b>Nonstocked</b>	<b>408</b>	<b>173</b>	<b>4</b>	<b>3</b>	<b>412</b>	<b>173</b>	<b>363</b>	<b>131</b>	<b>5</b>	<b>5</b>	<b>368</b>	<b>131</b>	<b>780</b>	<b>217</b>
<b>All forest types</b>	<b>4,593</b>	<b>355</b>	<b>357</b>	<b>59</b>	<b>4,950</b>	<b>359</b>	<b>2,698</b>	<b>275</b>	<b>120</b>	<b>29</b>	<b>2,818</b>	<b>276</b>	<b>7,768</b>	<b>450</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D46: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: North Coast**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	331	60	--	--	331	60	108	42	--	--	108	42	439	74
Fir / spruce / mountain hemlock	10	10	--	--	10	10	--	--	--	--	--	--	10	10
Western Hemlock / Sitka spruce	76	60	--	--	76	60	--	--	--	--	--	--	76	60
Lodgepole pine	--	--	--	--	--	--	2	2	--	--	2	2	2	2
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	631	117	--	--	631	117	190	86	--	--	190	86	820	144
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	1	1	--	--	1	1	3	5	1		4	5	5	6
<b>Total</b>	<b>1,050</b>	<b>144</b>	<b>--</b>	<b>--</b>	<b>1,050</b>	<b>144</b>	<b>304</b>	<b>95</b>	<b>1</b>		<b>304</b>	<b>95</b>	<b>1,354</b>	<b>171</b>
<b>Hardwoods:</b>														
Alder / maple	149	55			149	55	18	19	--	--	18	19	168	58
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	320	47	11	6	330	47	111	42	4	3	115	42	446	63
Western oak	61	20	17	6	78	21	--	--	1	1	1	1	79	21
Woodland hardwoods	--	--	--	--	--	--	--	--						
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	14	6	1	1	15	7	1	1	--	--	1	1	16	7
<b>Total</b>	<b>543</b>	<b>75</b>	<b>30</b>	<b>9</b>	<b>573</b>	<b>75</b>	<b>131</b>	<b>46</b>	<b>5</b>	<b>4</b>	<b>136</b>	<b>46</b>	<b>709</b>	<b>88</b>
<b>Nonstocked</b>	<b>2</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>2</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2</b>	<b>1</b>
<b>All forest types</b>	<b>1,594</b>	<b>162</b>	<b>30</b>	<b>9</b>	<b>1,624</b>	<b>162</b>	<b>434</b>	<b>104</b>	<b>6</b>	<b>4</b>	<b>440</b>	<b>104</b>	<b>2,064</b>	<b>191</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D47: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: Sierra Cascades**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	3,363	226	18	17	3,381	227	1,550	222	3	2	1,553	222	4,934	313
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	1,555	181	6	4	1,561	181	820	141	31	14	851	142	2,412	229
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	209	49	15	9	224	50	450	77	105	27	555	81	779	95
Pinyon / juniper	3	3	17	8	20	9	1	1	21	7	22	7	43	12
Ponderosa pine	256	46	22	21	278	51	30	15	5	4	35	16	313	53
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	8	4	7	3	15	5	36	14	--	--	36	14	51	15
Western white pine	21	15	--	--	21	15	51	21	21	15	72	25	93	29
Other western softwoods	--	--	20	18	20	18	26	17	112	32	137	36	158	40
<b>Total</b>	<b>5,415</b>	<b>286</b>	<b>106</b>	<b>35</b>	<b>5,521</b>	<b>288</b>	<b>2,963</b>	<b>266</b>	<b>298</b>	<b>47</b>	<b>3,261</b>	<b>269</b>	<b>8,782</b>	<b>388</b>
<b>Hardwoods:</b>														
Alder / maple	17	12	--	--	17	12	--	--	--	--	--	--	17	12
Aspen / birch	--	--	1	1	1	1	--	--	2	2	2	2	3	2
Elm / ash / cottonwood	--	--					--	--	--	--	--	--		
Tanoak / laurel	21	9	7	7	28	12	--	--	--	--	--	--	28	12
Western oak	624	107	611	89	1,235	138	140	54	82	27	222	60	1,457	150
Woodland hardwoods	--	--	9	5	9	5	--	--	--	--	--	--	9	5
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	23	14	15	7	37	15	--	--	--	--	--	--	37	15
<b>Total</b>	<b>684</b>	<b>108</b>	<b>644</b>	<b>89</b>	<b>1,327</b>	<b>140</b>	<b>140</b>	<b>54</b>	<b>84</b>	<b>27</b>	<b>225</b>	<b>60</b>	<b>1,552</b>	<b>152</b>
<b>Nonstocked</b>	<b>674</b>	<b>178</b>	<b>10</b>	<b>6</b>	<b>685</b>	<b>178</b>	<b>263</b>	<b>118</b>	<b>34</b>	<b>20</b>	<b>297</b>	<b>120</b>	<b>982</b>	<b>215</b>
<b>All forest types</b>	<b>6,773</b>	<b>343</b>	<b>760</b>	<b>96</b>	<b>7,533</b>	<b>353</b>	<b>3,367</b>	<b>291</b>	<b>416</b>	<b>57</b>	<b>3,783</b>	<b>295</b>	<b>11,316</b>	<b>452</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D48: Belowground Carbon, Dry Weight of Dead Trees (>= 5 inch) by Forest Type and Forest Land Status, 2009-2018: South Coast Mountains and Deserts**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	11	7	--	--	11	7	26	15	--	--	26	15	38	16
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	7	6	--	--	7	6	--	--	--	--	--	--	7	6
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	24	16	24	16	24	16
Pinyon / juniper	--	--	20	8	20	8	--	--	8	3	8	3	28	8
Ponderosa pine			--	--			5	3	--	--	5	3	5	3
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	6	6			7	6	--	--	--	--	--	--	7	6
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>25</b>	<b>11</b>	<b>20</b>	<b>8</b>	<b>45</b>	<b>13</b>	<b>32</b>	<b>15</b>	<b>32</b>	<b>16</b>	<b>64</b>	<b>22</b>	<b>109</b>	<b>25</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	1	1	1	1	--	--	--	--	--	--	1	1
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	63	33	102	24	165	41	92	45	57	22	150	50	315	65
Woodland hardwoods	--	--	10	5	10	5	--	--	3	2	3	2	13	6
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>63</b>	<b>33</b>	<b>114</b>	<b>25</b>	<b>177</b>	<b>41</b>	<b>92</b>	<b>45</b>	<b>61</b>	<b>22</b>	<b>153</b>	<b>50</b>	<b>330</b>	<b>65</b>
<b>Nonstocked</b>	<b>61</b>	<b>40</b>	<b>6</b>	<b>3</b>	<b>67</b>	<b>41</b>	<b>2</b>	<b>2</b>			<b>2</b>	<b>2</b>	<b>70</b>	<b>41</b>
<b>All forest types</b>	<b>149</b>	<b>53</b>	<b>140</b>	<b>26</b>	<b>289</b>	<b>59</b>	<b>126</b>	<b>47</b>	<b>94</b>	<b>27</b>	<b>220</b>	<b>55</b>	<b>509</b>	<b>81</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D49: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: All California

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>Softwoods:</b>														
California mixed conifer	306,286.38	7,604.93	1,277.83	584.00	307,564.21	7,619.57	71,676.80	4,120.04	718.41	473.64	72,395.21	4,135.54	379,959.42	8,413.88
Douglas-fir	40,436.98	3,184.57	--	--	40,436.98	3,184.57	11,383.89	1,917.14	1,332.08	666.41	12,715.97	2,028.77	53,152.95	3,757.86
Fir / spruce / mountain hemlock	69,133.12	4,323.24	1,756.44	749.78	70,889.56	4,380.50	28,101.03	2,845.15	2,785.75	978.37	30,886.78	2,997.17	101,776.34	5,296.75
Western Hemlock / Sitka spruce	1,249.27	587.21	--	--	1,249.27	587.21	92.03	91.56	--	--	92.03	91.56	1,341.30	593.95
Lodgepole pine	12,616.22	1,819.76	2,200.57	763.10	14,816.78	1,962.94	18,279.86	2,075.80	9,599.81	1,576.08	27,879.67	2,501.97	42,696.46	3,162.68
Pinyon / juniper	422.73	302.77	35,741.12	2,622.15	36,163.84	2,638.91	194.50	183.24	16,133.14	1,818.95	16,327.64	1,827.13	52,491.48	3,169.31
Ponderosa pine	86,480.42	4,184.84	1,828.40	647.48	88,308.82	4,226.24	9,210.33	1,526.22	1,451.38	554.98	10,661.71	1,618.45	98,970.53	4,507.73
Redwood	32,819.03	2,977.07	--	--	32,819.03	2,977.07	5,249.64	1,197.98	--	--	5,249.64	1,197.98	38,068.67	3,188.07
Western juniper	7,730.62	1,343.19	48,884.59	3,406.20	56,615.21	3,635.45	4,079.48	1,093.64	1,864.15	712.92	5,943.63	1,299.84	62,558.85	3,852.54
Western white pine	1,331.89	575.48	--	--	1,331.89	575.48	4,012.05	1,038.17	1,849.57	724.62	5,861.62	1,264.96	7,193.51	1,389.26
Other western softwoods	3,038.30	861.28	4,338.21	1,055.46	7,376.51	1,362.28	2,301.29	787.86	15,642.25	1,984.24	17,943.54	2,112.52	25,320.05	2,509.59
Total	561,544.95	8,478.91	96,027.15	4,435.70	657,572.11	9,208.62	154,580.91	5,207.94	51,376.54	3,337.96	205,957.45	5,753.10	863,529.56	10,043.12
<b>Hardwoods:</b>														
Alder / maple	7,139.14	1,289.69	783.74	304.19	7,922.89	1,324.56	1,467.85	608.61	476.21	378.03	1,944.06	716.46	9,866.94	1,505.55
Aspen / birch	585.62	351.66	1,147.25	522.31	1,732.88	629.66	916.46	540.96	958.34	461.70	1,874.80	711.20	3,607.68	949.88
Elm / ash / cottonwood	--	--	1,086.05	447.73	1,086.05	447.73	20.62	20.43	327.37	245.24	347.99	246.09	1,434.04	510.88
Tanoak / laurel	53,983.27	3,552.35	6,080.85	1,182.06	60,064.12	3,721.85	14,680.09	2,064.41	4,467.54	1,142.31	19,147.63	2,345.27	79,211.75	4,366.03
Western oak	85,952.87	4,590.98	228,108.88	6,362.65	314,061.75	7,547.68	13,850.30	1,917.67	35,382.07	2,818.98	49,232.37	3,350.61	363,294.11	8,131.26
Woodland hardwoods	681.14	451.37	4,422.07	965.44	5,103.21	1,065.19	--	--	1,061.38	400.13	1,061.38	400.13	6,164.59	1,137.78
Exotic hardwoods	74.30	75.91	75.06	64.57	149.36	99.65	--	--	--	--	--	--	149.36	99.65
Other hardwoods	14,898.10	1,995.61	6,685.08	1,281.88	21,583.18	2,363.43	3,670.54	1,161.14	881.51	421.99	4,552.05	1,230.88	26,135.23	2,663.10
Total	163,314.43	5,970.31	248,389.00	6,579.07	411,703.43	8,345.52	34,605.86	3,096.34	43,554.41	3,139.29	78,160.27	4,268.41	489,863.70	9,138.29
<b>Nonstocked</b>	28,213.81	2,475.50	6,408.45	1,208.04	34,622.26	2,745.72	8,626.63	1,497.55	3,034.11	805.06	11,934.51	1,712.72	46,556.77	3,232.38
<b>All forest types</b>	753,073.20	7,940.23	350,824.60	7,653.88	1,103,897.80	8,954.73	197,813.40	5,483.49	97,965.06	4,506.98	296,052.22	6,130.71	1,399,950.03	8,855.48

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D50: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	724.95	454.05	--	--	724.95	454.05	--	--	--	--	--	--	724.95	454.05
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	3,136.58	783.83	3,136.58	783.83	--	--	565.74	334.18	565.74	334.18	3,702.31	852.01
Ponderosa pine	--	--	551.79	394.60	551.79	394.60	--	--	187.44	178.49	187.44	178.49	739.24	433.09
Redwood	4,525.48	1,086.50	--	--	4,525.48	1,086.50	1,955.48	724.39	--	--	1,955.48	724.39	6,480.96	1,313.08
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	753.81	463.42	--	--	753.81	463.42	--	--	--	--	--	--	753.81	463.42
<b>Total</b>	<b>6,004.24</b>	<b>1,262.29</b>	<b>3,688.37</b>	<b>877.20</b>	<b>9,692.61</b>	<b>1,537.16</b>	<b>1,955.48</b>	<b>724.39</b>	<b>753.18</b>	<b>378.85</b>	<b>2,708.66</b>	<b>817.48</b>	<b>12,401.28</b>	<b>1,746.41</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	215.09	170.29	215.09	170.29	237.56	264.40	--	--	237.56	264.40	452.65	314.49
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	167.00	104.66	167.00	104.66	--	--	19.94	27.18	19.94	27.18	186.95	108.14
Tanoak / laurel	1,693.88	664.87	2,563.94	754.41	4,257.82	1,003.12	1,133.86	585.63	1,644.38	624.52	2,778.24	856.15	7,036.06	1,318.59
Western oak	1,117.13	543.77	35,575.28	2,685.43	36,692.42	2,739.86	753.20	448.27	11,220.87	1,504.50	11,974.07	1,537.07	48,666.49	3,117.42
Woodland hardwoods	--	--	--	--	--	--	--	--	134.49	95.55	134.49	95.55	134.49	95.55
Exotic hardwoods	--	--	75.06	64.57	75.06	64.57	--	--	--	--	--	--	75.06	64.57
Other hardwoods	1,075.36	587.14	1,268.96	597.50	2,344.33	824.23	932.65	617.04	585.12	351.92	1,517.77	702.37	3,862.10	1,079.17
<b>Total</b>	<b>3,886.38</b>	<b>1,039.13</b>	<b>39,865.34</b>	<b>2,859.77</b>	<b>43,751.72</b>	<b>3,028.89</b>	<b>3,057.26</b>	<b>972.74</b>	<b>13,604.80</b>	<b>1,686.13</b>	<b>16,662.07</b>	<b>1,876.90</b>	<b>60,413.78</b>	<b>3,530.51</b>
<b>Nonstocked</b>	<b>145.70</b>	<b>145.88</b>	<b>29.30</b>	<b>25.13</b>	<b>175.00</b>	<b>148.03</b>	<b>352.06</b>	<b>327.03</b>	<b>68.65</b>	<b>60.44</b>	<b>420.71</b>	<b>332.57</b>	<b>595.71</b>	<b>364.03</b>
<b>All forest types</b>	<b>10,036.32</b>	<b>1,639.84</b>	<b>43,583.01</b>	<b>2,986.04</b>	<b>53,619.33</b>	<b>3,387.38</b>	<b>5,364.80</b>	<b>1,225.25</b>	<b>14,426.63</b>	<b>1,728.82</b>	<b>19,791.44</b>	<b>2,037.27</b>	<b>73,410.77</b>	<b>3,916.87</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D51: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: Central Valley

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	327.93	300.57	327.93	300.57	--	--	235.31	223.82	235.31	223.82	563.24	374.75
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	--	--	2,526.69	652.21	2,526.69	652.21	--	--	16.29	16.80	16.29	16.80	2,542.97	652.43
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	2,854.62	718.03	2,854.62	718.03	--	--	251.59	224.45	251.59	224.45	3,106.22	752.30
<b>Nonstocked</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types</b>	--	--	2,854.62	718.03	2,854.62	718.03	--	--	251.59	224.45	251.59	224.45	3,106.22	752.30

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D52: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: Eastside

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	11,646.89	1,695.77	409.86	314.14	12,056.75	1,723.00	--	--	--	--	--	--	12,056.75	1,723.00
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	4,019.02	1,044.94	--	--	4,019.02	1,044.94	1,451.89	698.37	--	--	1,451.89	698.37	5,470.91	1,256.83
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	853.01	440.57	788.76	461.07	1,641.77	637.72	--	--	--	--	--	--	1,641.77	637.72
Pinyon / juniper	241.96	241.77	16,726.75	1,861.67	16,968.70	1,876.74	--	--	5,398.80	1,065.34	5,398.80	1,065.34	22,367.51	2,132.05
Ponderosa pine	15,261.89	1,852.72	253.01	171.40	15,514.90	1,859.90	899.48	454.94	--	--	899.48	454.94	16,414.38	1,913.82
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	4,310.86	997.19	36,406.43	2,966.27	40,717.29	3,114.29	--	--	349.81	299.99	349.81	299.99	41,067.10	3,127.92
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	197.29	202.44	542.13	381.33	739.42	431.73	--	--	2,657.19	840.46	2,657.19	840.46	3,396.61	944.86
<b>Total</b>	<b>36,530.92</b>	<b>2,926.93</b>	<b>55,126.94</b>	<b>3,510.07</b>	<b>91,657.86</b>	<b>4,548.39</b>	<b>2,351.37</b>	<b>833.48</b>	<b>8,405.80</b>	<b>1,392.43</b>	<b>10,757.17</b>	<b>1,613.73</b>	<b>102,415.03</b>	<b>4,799.40</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	1.62	1.67	1.62	1.67	1.62	1.67
Aspen / birch	323.20	294.91	889.68	499.97	1,212.88	580.47	562.07	433.54	5.01	5.17	567.08	433.57	1,779.96	724.52
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	210.39	178.26	632.72	388.59	843.11	459.96	--	--	--	--	--	--	843.11	459.96
Woodland hardwoods	681.14	451.37	1,172.77	580.73	1,853.91	735.52	--	--	--	--	--	--	1,853.91	735.52
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	1,352.93	585.94	185.04	185.83	1,537.97	614.70	--	--	--	--	--	--	1,537.97	614.70
<b>Total</b>	<b>2,567.67</b>	<b>815.30</b>	<b>2,880.20</b>	<b>877.28</b>	<b>5,447.87</b>	<b>1,209.44</b>	<b>562.07</b>	<b>433.54</b>	<b>6.63</b>	<b>5.42</b>	<b>568.70</b>	<b>433.57</b>	<b>6,016.57</b>	<b>1,284.81</b>
<b>Nonstocked</b>	<b>5,284.15</b>	<b>1,113.29</b>	<b>2,346.75</b>	<b>776.37</b>	<b>7,630.91</b>	<b>1,356.66</b>	<b>--</b>	<b>--</b>	<b>164.85</b>	<b>167.69</b>	<b>164.85</b>	<b>167.69</b>	<b>7,795.75</b>	<b>1,366.99</b>
<b>All forest types</b>	<b>44,382.74</b>	<b>3,263.02</b>	<b>60,353.90</b>	<b>3,673.72</b>	<b>104,736.64</b>	<b>4,878.38</b>	<b>2,913.44</b>	<b>956.94</b>	<b>8,577.28</b>	<b>1,411.68</b>	<b>11,490.72</b>	<b>1,694.94</b>	<b>116,227.36</b>	<b>5,134.12</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



Table D53: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	104,985.79	5,248.53	383.17	332.16	105,368.96	5,259.85	30,134.58	2,748.17	321.05	315.18	30,455.63	2,762.07	135,824.59	5,910.40
Douglas-fir	17,869.57	2,247.47	--	--	17,869.57	2,247.47	7,459.33	1,579.71	1,332.08	666.41	8,791.41	1,713.48	26,660.98	2,817.15
Fir / spruce / mountain hemlock	6,461.69	1,413.33	514.01	397.34	6,975.70	1,464.78	7,946.54	1,605.57	270.53	282.27	8,217.08	1,624.88	15,192.77	2,187.65
Western Hemlock / Sitka spruce	--	--	--	--	--	--	92.03	91.56	--	--	92.03	91.56	92.03	91.56
Lodgepole pine	309.86	297.37	--	--	309.86	297.37	294.36	296.78	290.22	298.40	584.58	420.86	894.44	515.32
Pinyon / juniper	--	--	133.08	133.25	133.08	133.25	--	--	--	--	--	--	133.08	133.25
Ponderosa pine	7,520.94	1,318.85	--	--	7,520.94	1,318.85	1,688.44	653.06	314.51	226.26	2,002.95	691.15	9,523.89	1,487.95
Redwood	409.10	317.00	--	--	409.10	317.00	868.99	511.79	--	--	868.99	511.79	1,278.09	602.01
Western juniper	--	--	593.09	359.57	593.09	359.57	--	--	--	--	--	--	593.09	359.57
Western white pine	492.46	358.49	--	--	492.46	358.49	1,445.75	624.14	287.66	298.57	1,733.40	691.87	2,225.86	778.79
Other western softwoods	746.36	435.22	2,001.96	736.43	2,748.32	855.42	198.86	175.10	268.55	274.37	467.41	325.48	3,215.73	910.23
<b>Total</b>	<b>138,795.75</b>	<b>5,914.91</b>	<b>3,625.32</b>	<b>978.18</b>	<b>142,421.07</b>	<b>5,979.23</b>	<b>50,128.89</b>	<b>3,370.65</b>	<b>3,084.60</b>	<b>989.98</b>	<b>53,213.49</b>	<b>3,504.29</b>	<b>195,634.56</b>	<b>6,830.58</b>
<b>Hardwoods:</b>														
Alder / maple	3,418.74	930.22	292.68	185.93	3,711.42	948.62	911.95	479.26	474.59	378.03	1,386.54	610.41	5,097.96	1,128.04
Aspen / birch	--	--	--	--	--	--	--	--	268.41	269.35	268.41	269.35	268.41	269.35
Elm / ash / cottonwood	--	--	187.38	136.54	187.38	136.54	20.62	20.43	--	--	20.62	20.43	208.01	138.06
Tanoak / laurel	19,854.37	2,363.33	1,178.32	534.99	21,032.69	2,421.22	9,016.40	1,658.69	1,614.55	763.27	10,630.95	1,822.09	31,663.64	3,015.14
Western oak	40,538.70	3,286.39	70,448.30	4,056.70	110,987.00	5,161.96	6,816.63	1,398.24	11,094.63	1,749.18	17,911.26	2,245.39	128,898.25	5,598.93
Woodland hardwoods	--	--	96.34	57.48	96.34	57.48	--	--	305.54	255.09	305.54	255.09	401.88	261.49
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	5,303.64	1,217.78	438.54	301.95	5,742.18	1,253.24	2,132.67	884.06	251.21	229.04	2,383.89	913.24	8,126.07	1,550.69
<b>Total</b>	<b>69,115.45</b>	<b>4,257.14</b>	<b>72,641.57</b>	<b>4,101.16</b>	<b>141,757.01</b>	<b>5,825.47</b>	<b>18,898.27</b>	<b>2,360.95</b>	<b>14,008.93</b>	<b>1,989.48</b>	<b>32,907.19</b>	<b>3,064.43</b>	<b>174,664.21</b>	<b>6,519.97</b>
<b>Nonstocked</b>	<b>5,508.61</b>	<b>1,150.82</b>	<b>552.95</b>	<b>342.26</b>	<b>6,061.56</b>	<b>1,200.64</b>	<b>3,781.78</b>	<b>1,015.12</b>	<b>281.37</b>	<b>257.75</b>	<b>4,063.15</b>	<b>1,047.33</b>	<b>10,124.70</b>	<b>1,592.23</b>
<b>All forest types</b>	<b>213,419.80</b>	<b>7,078.50</b>	<b>76,819.84</b>	<b>4,226.54</b>	<b>290,239.64</b>	<b>8,084.47</b>	<b>72,808.94</b>	<b>3,915.72</b>	<b>17,374.89</b>	<b>2,237.38</b>	<b>90,183.83</b>	<b>4,404.35</b>	<b>380,423.47</b>	<b>8,976.27</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D54: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: North Coast

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	21,842.46	2,275.67	--	--	21,842.46	2,275.67	3,924.56	1,105.33	--	--	3,924.56	1,105.33	25,767.02	2,518.02
Fir / spruce / mountain hemlock	462.78	310.81	--	--	462.78	310.81	--	--	--	--	--	--	462.78	310.81
Western Hemlock / Sitka spruce	1,249.27	587.21	--	--	1,249.27	587.21	--	--	--	--	--	--	1,249.27	587.21
Lodgepole pine	--	--	--	--	--	--	156.16	159.68	11.92	19.07	168.08	160.82	168.08	160.82
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	27,732.16	2,792.45	--	--	27,732.16	2,792.45	2,425.16	828.08	--	--	2,425.16	828.08	30,157.32	2,895.17
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	262.09	216.77	--	--	262.09	216.77	137.70	180.16	403.84	346.71	541.54	390.73	803.63	446.83
Total	51,548.75	3,562.53	--	--	51,548.75	3,562.53	6,643.58	1,367.96	415.76	347.24	7,059.34	1,413.73	58,608.09	3,782.95
<b>Hardwoods:</b>														
Alder / maple	3,369.78	868.16	50.08	46.66	3,419.86	869.16	318.34	266.09	--	--	318.34	266.09	3,738.20	908.82
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	29,536.73	2,550.50	1,458.04	588.40	30,994.77	2,612.00	4,529.84	1,092.21	976.48	529.40	5,506.31	1,205.06	36,501.08	2,858.65
Western oak	6,028.09	1,229.86	6,877.87	1,197.98	12,905.96	1,717.90	--	--	895.11	445.89	895.11	445.89	13,801.07	1,788.26
Woodland hardwoods	--	--	--	--	--	--	--	--	67.01	60.80	67.01	60.80	67.01	60.80
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	2,725.89	835.77	81.68	77.60	2,807.56	839.37	605.22	448.33	--	--	605.22	448.33	3,412.78	951.60
Total	41,660.48	3,022.28	8,467.67	1,335.95	50,128.14	3,282.62	5,453.40	1,202.48	1,938.60	694.80	7,392.00	1,375.34	57,520.14	3,541.57
<b>Nonstocked</b>	508.43	303.00	--	--	508.43	303.00	--	--	--	--	--	--	508.43	303.00
<b>All forest types</b>	93,717.65	4,427.68	8,467.67	1,335.95	102,185.32	4,595.30	12,096.98	1,742.12	2,354.36	776.74	14,451.34	1,895.07	116,636.66	4,878.68

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D55: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: Sierra Cascades

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	188,355.03	6,486.18	484.80	363.38	188,839.83	6,495.66	40,174.55	3,282.55	397.36	353.55	40,571.91	3,298.08	229,411.74	7,116.09
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	57,606.02	3,983.91	1,242.43	635.84	58,848.45	4,030.36	18,702.59	2,324.40	2,515.22	936.76	21,217.81	2,500.24	80,066.26	4,731.87
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	11,453.35	1,744.33	1,411.81	611.70	12,865.16	1,841.42	17,829.34	2,048.52	8,592.48	1,495.29	26,421.82	2,435.22	39,286.98	3,036.02
Pinyon / juniper	180.77	182.26	7,516.33	1,277.81	7,697.10	1,290.51	194.50	183.24	4,721.29	1,002.79	4,915.79	1,018.93	12,612.90	1,639.48
Ponderosa pine	63,276.00	3,664.10	1,023.60	483.89	64,299.61	3,690.39	5,337.40	1,160.06	727.03	417.97	6,064.42	1,230.63	70,364.03	3,883.86
Redwood	152.30	139.51	--	--	152.30	139.51	--	--	--	--	--	--	152.30	139.51
Western juniper	2,907.10	822.67	11,630.41	1,674.43	14,537.51	1,860.92	4,079.48	1,093.64	1,514.34	646.73	5,593.83	1,264.74	20,131.34	2,248.60
Western white pine	839.43	450.18	--	--	839.43	450.18	2,566.30	830.75	1,561.92	660.25	4,128.22	1,059.88	4,967.65	1,151.52
Other western softwoods	1,078.74	500.15	1,794.12	655.98	2,872.87	824.90	1,617.21	675.47	12,237.84	1,754.87	13,855.05	1,857.33	16,727.91	2,030.76
Total	325,848.75	7,784.78	25,103.49	2,423.30	350,952.24	8,061.16	90,501.37	4,425.89	32,267.48	2,743.52	122,768.85	4,916.50	473,721.09	9,115.60
<b>Hardwoods:</b>														
Alder / maple	350.63	238.69	--	--	350.63	238.69	--	--	--	--	--	--	350.63	238.69
Aspen / birch	262.42	191.55	257.57	151.72	520.00	244.36	354.39	323.55	684.92	374.98	1,039.31	495.28	1,559.31	552.28
Elm / ash / cottonwood	--	--	401.44	283.76	401.44	283.76	--	--	--	--	--	--	401.44	283.76
Tanoak / laurel	2,898.29	900.58	880.55	451.14	3,778.84	1,006.79	--	--	--	--	--	--	3,778.84	1,006.79
Western oak	36,000.21	2,982.19	100,115.89	4,461.58	136,116.10	5,255.03	4,476.15	1,057.77	8,588.19	1,444.89	13,064.34	1,793.96	149,180.44	5,515.09
Woodland hardwoods	--	--	1,359.31	561.48	1,359.31	561.48	--	--	166.30	150.40	166.30	150.40	1,525.61	581.27
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	4,440.28	1,066.46	3,916.55	990.41	8,356.83	1,454.85	--	--	45.17	42.09	45.17	42.09	8,402.01	1,455.38
Total	43,951.83	3,288.20	106,931.32	4,599.84	150,883.14	5,529.68	4,830.54	1,106.15	9,484.59	1,498.80	14,315.13	1,865.93	165,198.27	5,796.59
<b>Nonstocked</b>	15,386.03	1,809.64	2,224.26	698.72	17,610.28	1,936.82	4,171.65	1,033.26	1,718.51	643.89	5,890.15	1,216.24	23,500.44	2,286.41
<b>All forest types</b>	385,186.60	8,140.17	134,259.07	5,173.39	519,445.67	9,120.28	99,503.56	4,540.45	43,470.57	3,158.26	142,974.14	5,162.52	662,419.81	9,963.37

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D56: Soil Organic Carbon by Forest Type Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	1,298.66	573.59	--	--	1,298.66	573.59	1,367.68	647.33	--	--	1,367.68	647.33	2,666.34	864.90
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	583.62	455.65	--	--	583.62	455.65	--	--	--	--	--	--	583.62	455.65
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	705.19	430.19	705.19	430.19	705.19	430.19
Pinyon / juniper	--	--	8,228.38	1,309.70	8,228.38	1,309.70	--	--	5,447.30	1,107.36	5,447.30	1,107.36	13,675.68	1,712.60
Ponderosa pine	421.59	318.18	--	--	421.59	318.18	1,285.01	621.58	222.39	224.17	1,507.41	660.77	1,929.00	733.39
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	512.67	376.25	254.65	256.75	767.32	455.51	--	--	--	--	--	--	767.32	455.51
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	347.52	318.35	74.83	93.10	422.35	331.69	422.35	331.69
<b>Total</b>	<b>2,816.54</b>	<b>881.95</b>	<b>8,483.03</b>	<b>1,334.63</b>	<b>11,299.58</b>	<b>1,597.16</b>	<b>3,000.21</b>	<b>942.07</b>	<b>6,449.72</b>	<b>1,208.81</b>	<b>9,449.93</b>	<b>1,532.55</b>	<b>20,749.51</b>	<b>2,211.30</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	225.89	163.67	225.89	163.67	--	--	--	--	--	--	225.89	163.67
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	2.29	2.18	2.29	2.18	--	--	72.12	98.31	72.12	98.31	74.41	98.33
Tanoak / laurel	--	--	--	--	--	--	--	--	232.13	228.05	232.13	228.05	232.13	228.05
Western oak	2,058.35	681.00	11,932.13	1,542.35	13,990.48	1,705.34	1,804.32	692.79	3,566.98	944.80	5,371.30	1,161.42	19,361.77	2,055.46
Woodland hardwoods	--	--	1,793.65	526.88	1,793.65	526.88	--	--	388.03	244.10	388.03	244.10	2,181.69	580.60
Exotic hardwoods	74.30	75.91	--	--	74.30	75.91	--	--	--	--	--	--	74.30	75.91
Other hardwoods	--	--	794.30	420.43	794.30	420.43	--	--	--	--	--	--	794.30	420.43
<b>Total</b>	<b>2,132.64</b>	<b>685.22</b>	<b>14,748.28</b>	<b>1,686.43</b>	<b>16,880.92</b>	<b>1,838.25</b>	<b>1,804.32</b>	<b>692.79</b>	<b>4,259.26</b>	<b>1,006.92</b>	<b>6,063.58</b>	<b>1,212.49</b>	<b>22,944.50</b>	<b>2,193.53</b>
<b>Nonstocked</b>	<b>1,380.90</b>	<b>574.60</b>	<b>1,255.19</b>	<b>516.32</b>	<b>2,636.09</b>	<b>770.75</b>	<b>321.15</b>	<b>245.93</b>	<b>800.74</b>	<b>370.02</b>	<b>1,395.65</b>	<b>503.60</b>	<b>4,031.73</b>	<b>920.69</b>
<b>All forest types</b>	<b>6,330.08</b>	<b>1,252.04</b>	<b>24,486.50</b>	<b>2,210.33</b>	<b>30,816.58</b>	<b>2,547.96</b>	<b>5,125.68</b>	<b>1,191.35</b>	<b>11,509.72</b>	<b>1,607.92</b>	<b>16,909.16</b>	<b>1,997.86</b>	<b>47,725.75</b>	<b>3,225.16</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D57: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: All California**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>thousand metric tons C</i>														
<b>Softwoods:</b>														
California mixed conifer	31,553.07	1,185.91	73.45	45.08	31,626.52	1,186.52	8,507.20	741.06	14.15	10.41	8,521.35	740.90	40,147.87	1,382.43
Douglas-fir	5,517.72	633.36	--	--	5,517.72	633.36	1,190.17	319.08	13.17	7.58	1,203.34	319.16	6,721.07	708.04
Fir / spruce / mountain hemlock	7,135.82	592.44	68.98	37.43	7,204.79	593.46	3,479.30	573.57	247.64	158.66	3,726.94	594.94	10,931.74	838.94
Western Hemlock / Sitka spruce	306.17	232.84	--	--	306.17	232.84	2.49	2.48	--	--	2.49	2.48	308.67	232.85
Lodgepole pine	1,486.43	283.83	193.50	89.07	1,679.93	296.57	1,796.54	403.33	621.13	153.22	2,417.67	427.72	4,097.60	519.84
Pinyon / juniper	12.31	12.17	1,202.35	164.85	1,214.66	165.30	7.49	6.52	700.69	159.89	708.18	160.01	1,922.85	229.13
Ponderosa pine	4,575.41	361.83	50.12	22.16	4,625.52	362.22	829.34	239.42	48.74	25.04	878.08	240.72	5,503.61	433.59
Redwood	5,607.86	770.48	--	--	5,607.86	770.48	1,846.99	570.05	--	--	1,846.99	570.05	7,454.86	954.47
Western juniper	300.90	71.24	694.25	93.57	995.15	116.90	293.83	120.68	53.52	35.16	347.35	125.70	1,342.50	171.63
Western white pine	139.75	65.40	--	--	139.75	65.40	225.45	96.33	79.06	52.05	304.51	109.42	444.26	127.44
Other western softwoods	291.32	130.67	132.69	43.80	424.01	137.82	188.47	89.36	930.94	216.31	1,119.41	233.53	1,543.41	270.85
<b>Total</b>	<b>56,926.78</b>	<b>1,572.47</b>	<b>2,415.32</b>	<b>218.09</b>	<b>59,342.10</b>	<b>1,579.46</b>	<b>18,367.29</b>	<b>1,159.25</b>	<b>2,709.04</b>	<b>348.52</b>	<b>21,076.33</b>	<b>1,198.79</b>	<b>80,418.43</b>	<b>1,940.69</b>
<b>Hardwoods:</b>														
Alder / maple	1,014.95	230.62	124.79	77.50	1,139.74	243.29	280.01	143.72	110.33	91.97	390.35	170.63	1,530.08	297.06
Aspen / birch	18.82	11.72	68.56	32.13	87.37	34.20	93.66	74.90	107.57	83.23	201.23	111.97	288.60	117.08
Elm / ash / cottonwood	--	--	61.15	27.16	61.15	27.16	--	--	11.69	10.77	11.69	10.77	72.84	29.22
Tanoak / laurel	7,918.39	759.08	387.91	120.56	8,306.30	767.60	1,511.75	267.55	323.59	139.99	1,835.34	301.11	10,141.64	821.32
Western oak	6,543.42	530.99	8,077.00	461.82	14,620.41	700.15	730.51	150.93	1,723.35	253.13	2,453.86	292.48	17,074.28	754.22
Woodland hardwoods	10.33	8.39	133.74	48.09	144.07	48.82	--	--	88.89	56.53	88.89	56.53	232.96	74.69
Exotic hardwoods	6.33	6.47	0.03	0.03	6.36	6.47	--	--	--	--	--	--	6.36	6.47
Other hardwoods	1,554.22	357.99	243.09	73.85	1,797.31	365.28	188.24	103.11	97.17	86.96	285.41	134.86	2,082.73	389.12
<b>Total</b>	<b>17,066.45</b>	<b>998.78</b>	<b>9,096.27</b>	<b>490.47</b>	<b>26,162.71</b>	<b>1,099.48</b>	<b>2,804.17</b>	<b>363.26</b>	<b>2,462.60</b>	<b>331.41</b>	<b>5,266.77</b>	<b>486.19</b>	<b>31,429.49</b>	<b>1,190.84</b>
<b>Nonstocked</b>	<b>2,264.55</b>	<b>326.67</b>	<b>228.06</b>	<b>65.27</b>	<b>2,492.60</b>	<b>332.98</b>	<b>1,286.32</b>	<b>371.14</b>	<b>285.38</b>	<b>114.21</b>	<b>1,595.45</b>	<b>388.78</b>	<b>4,088.06</b>	<b>511.85</b>
<b>All forest types</b>	<b>76,257.77</b>	<b>1,717.93</b>	<b>11,739.65</b>	<b>535.74</b>	<b>87,997.42</b>	<b>1,751.91</b>	<b>22,457.78</b>	<b>1,210.95</b>	<b>5,457.02</b>	<b>487.61</b>	<b>27,938.55</b>	<b>1,273.96</b>	<b>115,935.97</b>	<b>2,087.57</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D58: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: Central Coast and Interior Ranges**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	69.36	50.35	--	--	69.36	50.35	--	--	--	--	--	--	69.36	50.35
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	29.58	18.79	29.58	18.79	--	--	0.46	0.36	0.46	0.36	30.04	18.79
Ponderosa pine	--	--	13.54	10.96	13.54	10.96	--	--	0.44	0.42	0.44	0.42	13.98	10.97
Redwood	711.03	257.07	--	--	711.03	257.07	541.59	274.62	--	--	541.59	274.62	1,252.61	376.16
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	39.73	29.02	--	--	39.73	29.02	--	--	--	--	--	--	39.73	29.02
<b>Total</b>	<b>820.12</b>	<b>263.23</b>	<b>43.12</b>	<b>21.75</b>	<b>863.24</b>	<b>264.13</b>	<b>541.59</b>	<b>274.62</b>	<b>0.90</b>	<b>0.55</b>	<b>542.49</b>	<b>274.62</b>	<b>1,405.72</b>	<b>381.03</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	31.00	31.39	31.00	31.39	16.64	18.52	--	--	16.64	18.52	47.64	36.45
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	10.74	8.47	10.74	8.47	--	--	0.13	0.17	0.13	0.17	10.87	8.47
Tanoak / laurel	233.02	122.79	186.82	87.01	419.84	150.41	69.57	38.07	242.07	134.12	311.64	139.42	731.48	205.05
Western oak	65.12	37.30	1,351.91	180.89	1,417.04	184.70	47.61	29.26	508.72	155.98	556.33	158.38	1,973.36	242.17
Woodland hardwoods	--	--	--	--	--	--	--	--	8.17	7.81	8.17	7.81	8.17	7.81
Exotic hardwoods	--	--	0.03	0.03	0.03	0.03	--	--	--	--	--	--	0.03	0.03
Other hardwoods	161.33	101.58	27.45	16.73	188.79	102.28	111.23	89.61	9.05	7.04	120.28	89.86	309.06	135.43
<b>Total</b>	<b>459.48</b>	<b>163.56</b>	<b>1,607.96</b>	<b>204.94</b>	<b>2,067.44</b>	<b>261.52</b>	<b>245.05</b>	<b>101.65</b>	<b>768.14</b>	<b>208.86</b>	<b>1,013.19</b>	<b>230.95</b>	<b>3,080.63</b>	<b>347.40</b>
<b>Nonstocked</b>	<b>2.21</b>	<b>2.21</b>	<b>1.52</b>	<b>1.30</b>	<b>3.72</b>	<b>2.56</b>	<b>6.30</b>	<b>5.85</b>	<b>2.97</b>	<b>2.62</b>	<b>9.27</b>	<b>6.41</b>	<b>12.99</b>	<b>6.90</b>
<b>All forest types</b>	<b>1,281.80</b>	<b>308.40</b>	<b>1,652.60</b>	<b>206.08</b>	<b>2,934.40</b>	<b>370.03</b>	<b>792.94</b>	<b>290.73</b>	<b>772.00</b>	<b>209.07</b>	<b>1,564.95</b>	<b>367.63</b>	<b>4,499.34</b>	<b>520.29</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D59: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: Central Valley

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	22.12	21.05	22.12	21.05	--	--	10.47	10.67	10.47	10.67	32.59	23.60
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	--	--	101.83	49.20	101.83	49.20	--	--	--	--	--	--	101.83	49.20
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	123.96	53.51	123.96	53.51	--	--	10.47	10.67	10.47	10.67	134.42	54.56
<b>Nonstocked</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types</b>	--	--	123.96	53.51	123.96	53.51	--	--	10.47	10.67	10.47	10.67	134.42	54.56

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D60: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: Eastside**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	1,039.04	197.16	43.58	41.82	1,082.62	201.36	--	--	--	--	--	--	1,082.62	201.36
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	369.49	116.44	--	--	369.49	116.44	95.77	64.75	--	--	95.77	64.75	465.25	133.23
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	138.81	79.89	119.65	81.79	258.46	114.34	--	--	--	--	--	--	258.46	114.34
Pinyon / juniper	0.25	0.25	548.46	98.62	548.70	98.62	--	--	156.21	51.46	156.21	51.46	704.91	110.64
Ponderosa pine	840.37	164.51	9.98	8.02	850.36	164.68	88.83	62.85	--	--	88.83	62.85	939.19	176.16
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	136.94	47.21	538.93	85.23	675.86	97.03	--	--	0.39	0.34	0.39	0.34	676.26	97.03
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	4.26	4.37	15.31	15.33	19.57	15.94	--	--	184.21	68.19	184.21	68.19	203.79	70.03
<b>Total</b>	<b>2,529.14</b>	<b>296.13</b>	<b>1,275.92</b>	<b>159.08</b>	<b>3,805.07</b>	<b>335.23</b>	<b>184.60</b>	<b>90.24</b>	<b>340.82</b>	<b>85.32</b>	<b>525.41</b>	<b>123.73</b>	<b>4,330.48</b>	<b>356.78</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	3.27	2.98	46.88	27.93	50.15	28.09	91.33	74.87	--	--	91.33	74.87	141.48	79.96
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	14.91	12.55	29.30	22.74	44.21	26.55	--	--	--	--	--	--	44.21	26.55
Woodland hardwoods	10.33	8.39	57.87	36.69	68.20	37.64	--	--	--	--	--	--	68.20	37.64
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	80.71	39.06	0.30	0.30	81.01	39.06	--	--	--	--	--	--	81.01	39.06
<b>Total</b>	<b>109.22</b>	<b>41.95</b>	<b>134.35</b>	<b>51.39</b>	<b>243.57</b>	<b>66.56</b>	<b>91.33</b>	<b>74.87</b>	<b>--</b>	<b>--</b>	<b>91.33</b>	<b>74.87</b>	<b>334.90</b>	<b>100.18</b>
<b>Nonstocked</b>	<b>206.58</b>	<b>59.64</b>	<b>56.68</b>	<b>25.83</b>	<b>263.26</b>	<b>64.98</b>	<b>--</b>	<b>--</b>	<b>8.84</b>	<b>8.99</b>	<b>8.84</b>	<b>8.99</b>	<b>272.10</b>	<b>65.60</b>
<b>All forest types</b>	<b>2,844.94</b>	<b>305.64</b>	<b>1,466.95</b>	<b>168.71</b>	<b>4,311.90</b>	<b>347.79</b>	<b>275.93</b>	<b>117.76</b>	<b>349.66</b>	<b>87.52</b>	<b>625.58</b>	<b>146.16</b>	<b>4,937.48</b>	<b>376.61</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



**Table D61: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	10,453.54	697.62	4.81	4.80	10,458.35	697.64	3,355.25	439.73	2.89	2.84	3,358.13	439.72	13,816.48	822.45
Douglas-fir	2,107.72	384.51	--	--	2,107.72	384.51	572.68	203.93	13.17	7.58	585.85	204.07	2,693.57	435.04
Fir / spruce / mountain hemlock	494.76	126.63	7.18	9.58	501.94	126.81	734.07	234.20	5.63	5.87	739.70	234.27	1,241.64	266.39
Western Hemlock / Sitka spruce	--	--	--	--	--	--	2.49	2.48	--	--	2.49	2.48	2.49	2.48
Lodgepole pine	8.89	8.53	--	--	8.89	8.53	4.34	4.38	2.33	2.39	6.67	4.99	15.56	9.88
Pinyon / juniper	--	--	0.45	0.45	0.45	0.45	--	--	--	--	--	--	0.45	0.45
Ponderosa pine	338.32	86.44	--	--	338.32	86.44	56.08	28.45	18.84	15.25	74.92	32.28	413.24	92.26
Redwood	14.40	14.03	--	--	14.40	14.03	454.60	290.74	--	--	454.60	290.74	469.00	291.08
Western juniper	--	--	1.03	0.96	1.03	0.96	--	--	--	--	--	--	1.03	0.96
Western white pine	32.61	32.74	--	--	32.61	32.74	53.72	27.19	0.89	0.93	54.61	27.21	87.22	42.49
Other western softwoods	84.14	59.58	77.26	36.29	161.40	69.76	58.35	51.37	20.78	21.23	79.12	55.59	240.52	88.29
<b>Total</b>	<b>13,534.37</b>	<b>799.00</b>	<b>90.73</b>	<b>37.85</b>	<b>13,625.10</b>	<b>799.20</b>	<b>5,291.58</b>	<b>590.93</b>	<b>64.52</b>	<b>28.64</b>	<b>5,356.11</b>	<b>591.56</b>	<b>18,981.20</b>	<b>989.59</b>
<b>Hardwoods:</b>														
Alder / maple	449.66	163.57	87.99	70.74	537.66	178.21	224.46	139.32	110.33	91.97	334.79	166.93	872.45	244.18
Aspen / birch	--	--	--	--	--	--	--	--	2.55	2.56	2.55	2.56	2.55	2.56
Elm / ash / cottonwood	--	--	16.28	12.07	16.28	12.07	--	--	--	--	--	--	16.28	12.07
Tanoak / laurel	2,856.92	479.85	97.23	72.10	2,954.15	485.10	712.08	160.77	25.83	15.04	737.91	161.40	3,692.06	510.78
Western oak	3,094.16	381.03	2,653.89	314.86	5,748.05	491.14	424.92	132.42	631.21	153.63	1,056.13	203.27	6,804.18	529.86
Woodland hardwoods	--	--	2.06	1.86	2.06	1.86	--	--	2.61	1.86	2.61	1.86	4.67	2.63
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	769.96	304.65	35.51	32.40	805.47	306.33	57.85	49.01	88.12	86.67	145.97	99.57	951.44	322.10
<b>Total</b>	<b>7,170.70</b>	<b>705.10</b>	<b>2,892.97</b>	<b>332.01</b>	<b>10,063.67</b>	<b>775.78</b>	<b>1,419.31</b>	<b>253.39</b>	<b>860.65</b>	<b>199.17</b>	<b>2,279.96</b>	<b>321.55</b>	<b>12,343.63</b>	<b>836.70</b>
<b>Nonstocked</b>	<b>447.45</b>	<b>137.43</b>	<b>21.35</b>	<b>20.80</b>	<b>468.80</b>	<b>139.00</b>	<b>564.01</b>	<b>189.69</b>	<b>2.13</b>	<b>1.95</b>	<b>566.14</b>	<b>189.70</b>	<b>1,034.94</b>	<b>235.17</b>
<b>All forest types</b>	<b>21,152.52</b>	<b>1,052.77</b>	<b>3,005.05</b>	<b>334.75</b>	<b>24,157.57</b>	<b>1,097.41</b>	<b>7,274.90</b>	<b>643.55</b>	<b>927.31</b>	<b>201.62</b>	<b>8,202.21</b>	<b>670.39</b>	<b>32,359.78</b>	<b>1,275.22</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D62: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: North Coast**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	3,340.65	508.44	--	--	3,340.65	508.44	617.49	245.96	--	--	617.49	245.96	3,958.14	563.83
Fir / spruce / mountain hemlock	16.47	11.43	--	--	16.47	11.43	--	--	--	--	--	--	16.47	11.43
Western Hemlock / Sitka spruce	306.17	232.84	--	--	306.17	232.84	--	--	--	--	--	--	306.17	232.84
Lodgepole pine	--	--	--	--	--	--	1.57	1.60	--	--	1.57	1.60	1.57	1.60
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	4,841.34	730.38	--	--	4,841.34	730.38	850.80	416.57	--	--	850.80	416.57	5,692.14	837.48
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	104.27	107.52	--	--	104.27	107.52	4.26	5.40	8.98	7.71	13.25	9.42	117.52	107.93
<b>Total</b>	<b>8,608.90</b>	<b>909.97</b>	<b>--</b>	<b>--</b>	<b>8,608.90</b>	<b>909.97</b>	<b>1,474.13</b>	<b>476.24</b>	<b>8.98</b>	<b>7.71</b>	<b>1,483.11</b>	<b>476.30</b>	<b>10,092.01</b>	<b>1,021.91</b>
<b>Hardwoods:</b>														
Alder / maple	503.91	155.11	--	--	503.91	155.11	38.91	30.06	--	--	38.91	30.06	542.82	157.95
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	4,374.73	553.66	89.15	41.65	4,463.88	554.89	730.09	210.94	50.41	36.81	780.50	214.04	5,244.39	592.52
Western oak	430.59	130.15	190.74	46.55	621.32	138.07	--	--	16.80	9.01	16.80	9.01	638.12	138.63
Woodland hardwoods	--	--	--	--	--	--	--	--	6.48	5.88	6.48	5.88	6.48	5.88
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	168.52	64.64	--	--	168.52	64.64	19.16	15.81	--	--	19.16	15.81	187.68	66.54
<b>Total</b>	<b>5,477.74</b>	<b>587.62</b>	<b>279.89</b>	<b>62.20</b>	<b>5,757.64</b>	<b>590.03</b>	<b>788.17</b>	<b>221.30</b>	<b>73.69</b>	<b>38.35</b>	<b>861.86</b>	<b>224.49</b>	<b>6,619.49</b>	<b>628.74</b>
<b>Nonstocked</b>	<b>33.50</b>	<b>24.87</b>	<b>--</b>	<b>--</b>	<b>33.50</b>	<b>24.87</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>33.50</b>	<b>24.87</b>
<b>All forest types</b>	<b>14,120.15</b>	<b>1,055.62</b>	<b>279.89</b>	<b>62.20</b>	<b>14,400.04</b>	<b>1,056.44</b>	<b>2,262.29</b>	<b>516.44</b>	<b>82.68</b>	<b>39.12</b>	<b>2,344.97</b>	<b>517.87</b>	<b>16,745.01</b>	<b>1,167.27</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D63: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: Sierra Cascades**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	19,896.12	1,025.63	25.05	16.13	19,921.17	1,025.90	5,013.63	613.95	11.26	10.02	5,024.89	613.82	24,946.07	1,184.22
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	6,211.08	570.57	61.80	36.19	6,272.88	571.63	2,649.46	523.22	242.01	158.55	2,891.48	546.54	9,164.35	789.52
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	1,338.74	272.49	73.85	35.61	1,412.59	274.67	1,790.63	403.30	539.29	144.85	2,329.92	425.09	3,742.51	505.63
Pinyon / juniper	12.07	12.16	356.41	117.12	368.48	117.75	7.49	6.52	333.25	120.35	340.74	120.52	709.22	168.44
Ponderosa pine	3,384.32	314.67	26.59	17.51	3,410.90	314.89	563.11	217.54	15.87	14.36	578.97	218.00	3,989.88	382.42
Redwood	41.10	37.65	--	--	41.10	37.65	--	--	--	--	--	--	41.10	37.65
Western juniper	127.80	46.48	153.99	39.05	281.78	60.62	293.83	120.68	53.13	35.15	346.96	125.70	628.74	139.55
Western white pine	107.14	56.61	--	--	107.14	56.61	171.73	92.42	78.17	52.05	249.90	105.99	357.04	120.16
Other western softwoods	58.92	33.22	40.11	19.16	99.04	38.35	125.78	72.91	709.99	204.38	835.77	216.53	934.81	219.89
<b>Total</b>	<b>31,177.28</b>	<b>1,184.93</b>	<b>737.79</b>	<b>135.66</b>	<b>31,915.08</b>	<b>1,190.10</b>	<b>10,615.67</b>	<b>907.52</b>	<b>1,982.96</b>	<b>322.65</b>	<b>12,598.63</b>	<b>954.61</b>	<b>44,513.71</b>	<b>1,505.62</b>
<b>Hardwoods:</b>														
Alder / maple	61.38	50.59	--	--	61.38	50.59	--	--	--	--	--	--	61.38	50.59
Aspen / birch	15.54	11.33	21.68	15.91	37.22	19.53	2.33	2.13	105.02	83.20	107.35	83.22	144.57	85.48
Elm / ash / cottonwood	--	--	12.01	8.80	12.01	8.80	--	--	--	--	--	--	12.01	8.80
Tanoak / laurel	453.72	216.35	14.71	9.03	468.43	216.54	--	--	--	--	--	--	468.43	216.54
Western oak	2,671.15	334.76	3,122.53	264.48	5,793.67	422.20	189.52	61.74	340.90	97.53	530.42	115.34	6,324.10	436.35
Woodland hardwoods	--	--	30.76	23.38	30.76	23.38	--	--	0.02	0.02	0.02	0.02	30.78	23.38
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	373.69	139.68	173.29	64.16	546.98	153.71	--	--	--	--	--	--	546.98	153.71
<b>Total</b>	<b>3,575.48</b>	<b>423.93</b>	<b>3,374.96</b>	<b>273.63</b>	<b>6,950.44</b>	<b>499.68</b>	<b>191.85</b>	<b>61.78</b>	<b>445.94</b>	<b>128.08</b>	<b>637.79</b>	<b>142.13</b>	<b>7,588.24</b>	<b>518.23</b>
<b>Nonstocked</b>	<b>1,484.41</b>	<b>286.86</b>	<b>72.35</b>	<b>38.58</b>	<b>1,556.75</b>	<b>289.40</b>	<b>639.45</b>	<b>309.85</b>	<b>264.22</b>	<b>113.72</b>	<b>903.67</b>	<b>330.03</b>	<b>2,460.42</b>	<b>438.95</b>
<b>All forest types</b>	<b>36,237.17</b>	<b>1,257.16</b>	<b>4,185.10</b>	<b>306.53</b>	<b>40,422.27</b>	<b>1,279.59</b>	<b>11,446.97</b>	<b>950.54</b>	<b>2,693.12</b>	<b>362.82</b>	<b>14,140.09</b>	<b>1,004.92</b>	<b>54,562.36</b>	<b>1,599.62</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table D64: Aboveground Carbon Mass of Down Dead Wood, by Forest Type and Forest Land Status, 2009-2018: South Coast Mountains and Deserts**

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	164.37	100.82	--	--	164.37	100.82	138.33	72.88	--	--	138.33	72.88	302.70	124.41
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	44.03	40.90	--	--	44.03	40.90	--	--	--	--	--	--	44.03	40.90
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	79.51	53.11	79.51	53.11	79.51	53.11
Pinyon / juniper	--	--	267.46	70.62	267.46	70.62	--	--	210.78	93.22	210.78	93.22	478.23	116.91
Ponderosa pine	12.41	9.77	--	--	12.41	9.77	121.32	74.21	13.60	13.71	134.92	75.47	147.33	76.10
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	36.17	26.51	0.30	0.30	36.47	26.52	--	--	--	--	--	--	36.47	26.52
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	0.08	0.07	6.97	8.67	7.05	8.67	7.05	8.67
<b>Total</b>	<b>256.97</b>	<b>112.38</b>	<b>267.76</b>	<b>70.62</b>	<b>524.73</b>	<b>132.69</b>	<b>259.72</b>	<b>103.70</b>	<b>310.86</b>	<b>108.38</b>	<b>570.58</b>	<b>150.00</b>	<b>1,095.31</b>	<b>200.24</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	5.79	4.05	5.79	4.05	--	--	--	--	--	--	5.79	4.05
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	1.10	1.50	1.10	1.50	1.10	1.50
Tanoak / laurel	--	--	--	--	--	--	--	--	5.29	5.19	5.29	5.19	5.29	5.19
Western oak	267.49	112.39	626.80	122.58	894.29	198.14	68.46	31.13	225.72	84.79	294.18	90.27	1,188.47	217.63
Woodland hardwoods	--	--	43.05	20.43	43.05	20.43	--	--	71.61	55.65	71.61	55.65	114.66	59.28
Exotic hardwoods	6.33	6.47	--	--	6.33	6.47	--	--	--	--	--	--	6.33	6.47
Other hardwoods	--	--	6.54	3.91	6.54	3.91	--	--	--	--	--	--	6.54	3.91
<b>Total</b>	<b>273.82</b>	<b>112.58</b>	<b>682.18</b>	<b>124.28</b>	<b>956.00</b>	<b>199.30</b>	<b>68.46</b>	<b>31.13</b>	<b>303.71</b>	<b>101.57</b>	<b>372.17</b>	<b>106.18</b>	<b>1,328.18</b>	<b>225.71</b>
<b>Nonstocked</b>	<b>90.40</b>	<b>46.84</b>	<b>76.16</b>	<b>41.00</b>	<b>166.56</b>	<b>62.05</b>	<b>76.57</b>	<b>82.01</b>	<b>7.22</b>	<b>4.65</b>	<b>107.54</b>	<b>84.89</b>	<b>274.10</b>	<b>105.15</b>
<b>All forest types</b>	<b>621.19</b>	<b>165.61</b>	<b>1,026.10</b>	<b>148.20</b>	<b>1,647.29</b>	<b>246.84</b>	<b>404.75</b>	<b>135.72</b>	<b>621.78</b>	<b>147.68</b>	<b>1,050.29</b>	<b>200.85</b>	<b>2,697.58</b>	<b>317.64</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D65: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: All California

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	45,782.99	1,151.85	153.07	71.35	45,936.05	1,153.24	10,517.56	631.07	102.88	70.45	10,620.44	633.42	56,556.49	1,274.03
Douglas-fir	3,784.60	298.10	--	--	3,784.60	298.10	939.42	158.19	83.35	41.76	1,022.77	163.55	4,807.37	338.32
Fir / spruce / mountain hemlock	8,816.08	554.04	161.97	74.11	8,978.04	558.37	3,584.60	372.15	305.02	109.32	3,889.61	386.77	12,867.66	677.45
Western Hemlock / Sitka spruce	228.66	106.01	--	--	228.66	106.01	21.60	21.49	--	--	21.60	21.49	250.27	108.07
Lodgepole pine	1,417.44	209.96	289.55	100.73	1,706.99	231.31	2,518.25	286.80	1,071.79	189.16	3,590.03	327.63	5,297.02	398.80
Pinyon / juniper	23.15	16.84	1,672.91	137.75	1,696.07	138.74	11.78	12.31	841.87	112.85	853.65	113.49	2,549.71	176.82
Ponderosa pine	9,026.00	455.69	145.25	52.19	9,171.24	457.96	941.27	159.44	122.35	48.59	1,063.62	166.29	10,234.86	485.23
Redwood	2,569.38	233.30	--	--	2,569.38	233.30	457.67	105.07	--	--	457.67	105.07	3,027.05	254.25
Western juniper	515.58	92.73	2,526.20	180.78	3,041.79	201.50	394.73	108.60	136.26	52.78	531.00	120.36	3,572.78	234.08
Western white pine	140.11	59.91	--	--	140.11	59.91	466.94	125.99	187.15	74.94	654.09	146.45	794.19	158.17
Other western softwoods	248.86	71.54	340.05	84.32	588.91	110.58	228.41	82.25	1,490.18	198.13	1,718.59	212.37	2,307.50	239.19
<b>Total</b>	<b>72,552.85</b>	<b>1,145.49</b>	<b>5,288.99</b>	<b>274.79</b>	<b>77,841.85</b>	<b>1,154.83</b>	<b>20,082.22</b>	<b>713.57</b>	<b>4,340.85</b>	<b>323.48</b>	<b>24,423.07</b>	<b>739.98</b>	<b>102,264.92</b>	<b>1,269.39</b>
<b>Hardwoods:</b>														
Alder / maple	583.24	105.74	68.59	27.62	651.83	109.24	130.82	55.34	29.05	22.58	159.87	59.77	811.70	124.49
Aspen / birch	54.71	33.16	70.59	31.18	125.29	45.52	56.15	32.92	86.50	43.48	142.65	54.54	267.95	71.04
Elm / ash / cottonwood	--	--	66.72	29.20	66.72	29.20	1.34	1.33	19.08	14.38	20.42	14.44	87.13	32.57
Tanoak / laurel	4,968.63	325.80	564.00	110.69	5,532.62	341.76	1,150.38	163.94	358.56	91.42	1,508.93	186.38	7,041.56	386.12
Western oak	6,092.25	331.36	11,696.77	351.54	17,789.02	464.05	938.08	133.52	1,996.00	165.40	2,934.08	209.41	20,723.10	501.73
Woodland hardwoods	44.34	29.39	290.68	68.46	335.02	74.47	--	--	79.86	30.88	79.86	30.88	414.88	80.62
Exotic hardwoods	3.99	4.07	5.01	4.31	8.99	5.93	--	--	--	--	--	--	8.99	5.93
Other hardwoods	1,197.90	163.59	390.96	73.88	1,588.86	179.05	268.87	85.96	63.09	30.17	331.95	90.82	1,920.81	200.58
<b>Total</b>	<b>12,945.05</b>	<b>477.67</b>	<b>13,153.31</b>	<b>377.09</b>	<b>26,098.36</b>	<b>571.51</b>	<b>2,545.64</b>	<b>232.18</b>	<b>2,632.12</b>	<b>198.44</b>	<b>5,177.77</b>	<b>296.19</b>	<b>31,276.13</b>	<b>627.85</b>
<b>Nonstocked</b>	<b>1,919.00</b>	<b>170.06</b>	<b>298.89</b>	<b>59.91</b>	<b>2,217.89</b>	<b>179.84</b>	<b>538.97</b>	<b>97.12</b>	<b>151.25</b>	<b>42.34</b>	<b>699.13</b>	<b>105.88</b>	<b>2,917.03</b>	<b>208.51</b>
<b>All forest types</b>	<b>87,416.91</b>	<b>1,025.12</b>	<b>18,741.19</b>	<b>453.38</b>	<b>106,158.10</b>	<b>985.40</b>	<b>23,166.83</b>	<b>700.31</b>	<b>7,124.23</b>	<b>372.88</b>	<b>30,299.97</b>	<b>714.25</b>	<b>136,458.07</b>	<b>1,018.15</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D66: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: Central Coast and Interior Ranges

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	77.84	48.54	--	--	77.84	48.54	--	--	--	--	--	--	77.84	48.54
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	110.74	30.19	110.74	30.19	--	--	15.91	9.70	15.91	9.70	126.65	31.71
Ponderosa pine	--	--	29.66	21.21	29.66	21.21	--	--	15.08	14.36	15.08	14.36	44.74	25.62
Redwood	426.86	102.90	--	--	426.86	102.90	193.26	71.52	--	--	193.26	71.52	620.12	126.03
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	64.07	40.11	--	--	64.07	40.11	--	--	--	--	--	--	64.07	40.11
<b>Total</b>	<b>568.77</b>	<b>120.30</b>	<b>140.40</b>	<b>36.89</b>	<b>709.17</b>	<b>125.83</b>	<b>193.26</b>	<b>71.52</b>	<b>30.99</b>	<b>17.33</b>	<b>224.25</b>	<b>73.59</b>	<b>933.42</b>	<b>146.39</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	19.44	14.96	19.44	14.96	23.10	25.71	--	--	23.10	25.71	42.54	29.75
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	9.06	5.39	9.06	5.39	--	--	0.89	1.21	0.89	1.21	9.95	5.52
Tanoak / laurel	183.19	74.03	258.43	76.65	441.63	106.30	125.02	64.89	167.09	63.76	292.11	90.97	733.73	139.89
Western oak	73.05	35.45	1,904.50	147.76	1,977.55	151.95	36.57	22.55	657.64	89.89	694.21	91.26	2,671.76	175.54
Woodland hardwoods	--	--	--	--	--	--	--	--	7.51	5.33	7.51	5.33	7.51	5.33
Exotic hardwoods	--	--	5.01	4.31	5.01	4.31	--	--	--	--	--	--	5.01	4.31
Other hardwoods	77.28	43.22	64.94	29.50	142.22	51.60	61.23	40.64	38.54	23.82	99.78	46.56	242.00	68.99
<b>Total</b>	<b>333.52</b>	<b>92.68</b>	<b>2,261.38</b>	<b>169.69</b>	<b>2,594.90</b>	<b>192.08</b>	<b>245.93</b>	<b>81.90</b>	<b>871.67</b>	<b>113.95</b>	<b>1,117.59</b>	<b>136.17</b>	<b>3,712.50</b>	<b>232.90</b>
<b>Nonstocked</b>	<b>8.09</b>	<b>8.10</b>	<b>2.54</b>	<b>2.18</b>	<b>10.63</b>	<b>8.39</b>	<b>17.47</b>	<b>16.23</b>	<b>3.78</b>	<b>3.33</b>	<b>21.25</b>	<b>16.57</b>	<b>31.88</b>	<b>18.57</b>
<b>All forest types</b>	<b>910.38</b>	<b>151.35</b>	<b>2,404.33</b>	<b>173.45</b>	<b>3,314.71</b>	<b>228.47</b>	<b>456.66</b>	<b>107.25</b>	<b>906.44</b>	<b>115.29</b>	<b>1,363.10</b>	<b>153.39</b>	<b>4,677.80</b>	<b>272.45</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D67: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: Central Valley

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	20.66	19.14	20.66	19.14	--	--	10.11	9.27	10.11	9.27	30.78	21.26
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	--	--	129.35	34.20	129.35	34.20	--	--	1.07	1.11	1.07	1.11	130.42	34.21
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	150.01	39.18	150.01	39.18	--	--	11.19	9.33	11.19	9.33	161.20	40.28
<b>Nonstocked</b>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>All forest types</b>	--	--	150.01	39.18	150.01	39.18	--	--	11.19	9.33	11.19	9.33	161.20	40.28

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D68: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: Eastside

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	1,588.86	236.34	61.11	49.84	1,649.97	241.29	--	--	--	--	--	--	1,649.97	241.29
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	498.72	131.11	--	--	498.72	131.11	181.77	92.37	--	--	181.77	92.37	680.50	160.38
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	92.23	47.21	103.68	61.67	195.90	77.67	--	--	--	--	--	--	195.90	77.67
Pinyon / juniper	14.26	14.25	912.96	111.03	927.22	111.91	--	--	361.94	80.12	361.94	80.12	1,289.16	136.04
Ponderosa pine	1,454.44	182.81	23.50	15.63	1,477.94	183.42	91.42	47.32	--	--	91.42	47.32	1,569.36	189.35
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	242.29	56.00	1,832.51	153.14	2,074.80	162.20	--	--	19.11	16.39	19.11	16.39	2,093.91	162.99
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	13.30	13.64	60.89	42.93	74.19	45.05	--	--	291.77	96.36	291.77	96.36	365.96	106.37
<b>Total</b>	<b>3,904.09</b>	<b>334.12</b>	<b>2,994.66</b>	<b>207.71</b>	<b>6,898.75</b>	<b>392.87</b>	<b>273.19</b>	<b>103.79</b>	<b>672.82</b>	<b>126.79</b>	<b>946.01</b>	<b>163.13</b>	<b>7,844.76</b>	<b>424.09</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	--	--	--	--	--	--	0.08	0.08	0.08	0.08	0.08	0.08
Aspen / birch	26.37	24.07	52.84	29.33	79.21	37.94	33.01	25.25	0.21	0.21	33.22	25.25	112.43	45.58
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western oak	13.71	11.02	32.28	18.90	45.99	24.05	--	--	--	--	--	--	45.99	24.05
Woodland hardwoods	44.34	29.39	91.28	47.73	135.62	56.05	--	--	--	--	--	--	135.62	56.05
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	90.26	38.70	9.99	10.04	100.25	39.98	--	--	--	--	--	--	100.25	39.98
<b>Total</b>	<b>174.68</b>	<b>55.29</b>	<b>186.40</b>	<b>59.88</b>	<b>361.08</b>	<b>82.11</b>	<b>33.01</b>	<b>25.25</b>	<b>0.29</b>	<b>0.23</b>	<b>33.30</b>	<b>25.25</b>	<b>394.38</b>	<b>85.90</b>
<b>Nonstocked</b>	<b>352.69</b>	<b>75.14</b>	<b>126.63</b>	<b>43.11</b>	<b>479.32</b>	<b>86.60</b>	<b>--</b>	<b>--</b>	<b>16.61</b>	<b>16.89</b>	<b>16.61</b>	<b>16.89</b>	<b>495.92</b>	<b>88.23</b>
<b>All forest types</b>	<b>4,431.46</b>	<b>348.17</b>	<b>3,307.69</b>	<b>218.95</b>	<b>7,739.15</b>	<b>409.90</b>	<b>306.20</b>	<b>107.98</b>	<b>689.71</b>	<b>128.87</b>	<b>995.91</b>	<b>167.18</b>	<b>8,735.06</b>	<b>440.99</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.



Table D69: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: Klamath Interior Coast Ranges

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	14,110.16	713.25	38.33	33.99	14,148.49	714.19	3,665.57	342.57	32.03	31.44	3,697.59	343.64	17,846.08	788.07
Douglas-fir	1,564.79	196.89	--	--	1,564.79	196.89	588.22	124.85	83.35	41.76	671.57	131.58	2,236.36	236.13
Fir / spruce / mountain hemlock	665.74	145.62	39.62	31.60	705.36	148.69	727.30	146.30	22.21	23.18	749.51	147.71	1,454.87	209.59
Western Hemlock / Sitka spruce	--	--	--	--	--	--	21.60	21.49	--	--	21.60	21.49	21.60	21.49
Lodgepole pine	20.90	20.05	--	--	20.90	20.05	18.37	18.52	21.53	22.14	39.90	28.87	60.80	35.15
Pinyon / juniper	--	--	7.24	7.25	7.24	7.25	--	--	--	--	--	--	7.24	7.25
Ponderosa pine	749.29	136.64	--	--	749.29	136.64	203.10	79.10	28.91	22.00	232.01	82.10	981.30	159.34
Redwood	35.00	27.29	--	--	35.00	27.29	73.94	43.62	--	--	73.94	43.62	108.93	51.45
Western juniper	--	--	35.61	21.82	35.61	21.82	--	--	--	--	--	--	35.61	21.82
Western white pine	56.68	41.21	--	--	56.68	41.21	107.66	46.39	17.39	18.05	125.05	49.78	181.73	64.57
Other western softwoods	61.95	36.49	132.54	48.67	194.50	60.83	16.22	14.28	17.03	17.40	33.25	22.51	227.74	64.47
<b>Total</b>	<b>17,264.51</b>	<b>753.72</b>	<b>253.33</b>	<b>71.06</b>	<b>17,517.84</b>	<b>755.76</b>	<b>5,421.97</b>	<b>373.17</b>	<b>222.46</b>	<b>71.53</b>	<b>5,644.43</b>	<b>379.17</b>	<b>23,162.27</b>	<b>835.02</b>
<b>Hardwoods:</b>														
Alder / maple	273.76	74.24	26.85	17.14	300.61	76.19	80.76	43.09	28.97	22.58	109.73	48.65	410.34	90.40
Aspen / birch	--	--	--	--	--	--	--	--	15.36	15.41	15.36	15.41	15.36	15.41
Elm / ash / cottonwood	--	--	9.53	7.32	9.53	7.32	1.34	1.33	--	--	1.34	1.33	10.87	7.44
Tanoak / laurel	1,552.71	185.79	99.15	45.35	1,651.86	191.01	606.03	113.95	83.37	41.00	689.39	120.92	2,341.25	225.11
Western oak	2,825.72	232.10	3,599.86	221.84	6,425.58	318.05	482.36	99.50	645.18	104.77	1,127.53	144.70	7,553.12	347.52
Woodland hardwoods	--	--	5.88	3.50	5.88	3.50	--	--	19.74	16.61	19.74	16.61	25.62	16.98
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	462.79	107.61	26.34	18.28	489.13	109.05	141.25	58.62	19.26	17.84	160.51	61.27	649.63	125.09
<b>Total</b>	<b>5,114.98</b>	<b>318.83</b>	<b>3,767.61</b>	<b>227.39</b>	<b>8,882.59</b>	<b>386.48</b>	<b>1,311.74</b>	<b>165.62</b>	<b>811.86</b>	<b>118.01</b>	<b>2,123.60</b>	<b>201.78</b>	<b>11,006.18</b>	<b>432.00</b>
<b>Nonstocked</b>	<b>373.19</b>	<b>77.46</b>	<b>29.56</b>	<b>18.17</b>	<b>402.75</b>	<b>79.57</b>	<b>280.07</b>	<b>75.26</b>	<b>19.41</b>	<b>17.78</b>	<b>299.48</b>	<b>77.33</b>	<b>702.23</b>	<b>110.89</b>
<b>All forest types</b>	<b>22,752.68</b>	<b>797.17</b>	<b>4,050.49</b>	<b>238.67</b>	<b>26,803.18</b>	<b>821.94</b>	<b>7,013.79</b>	<b>388.75</b>	<b>1,053.73</b>	<b>139.07</b>	<b>8,067.51</b>	<b>405.77</b>	<b>34,870.69</b>	<b>896.58</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D70: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: North Coast

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Douglas-fir	2,141.97	224.57	--	--	2,141.97	224.57	351.20	98.86	--	--	351.20	98.86	2,493.17	244.08
Fir / spruce / mountain hemlock	53.17	36.73	--	--	53.17	36.73	--	--	--	--	--	--	53.17	36.73
Western Hemlock / Sitka spruce	228.66	106.01	--	--	228.66	106.01	--	--	--	--	--	--	228.66	106.01
Lodgepole pine	--	--	--	--	--	--	16.83	17.21	0.89	1.42	17.72	17.27	17.72	17.27
Pinyon / juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Redwood	2,096.46	211.35	--	--	2,096.46	211.35	190.47	65.52	--	--	190.47	65.52	2,286.93	219.87
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	21.46	17.86	--	--	21.46	17.86	10.43	13.89	32.34	27.76	42.77	31.04	64.22	35.81
<b>Total</b>	<b>4,541.72</b>	<b>318.37</b>	<b>--</b>	<b>--</b>	<b>4,541.72</b>	<b>318.37</b>	<b>568.93</b>	<b>117.34</b>	<b>33.22</b>	<b>27.80</b>	<b>602.16</b>	<b>120.75</b>	<b>5,143.87</b>	<b>336.18</b>
<b>Hardwoods:</b>														
Alder / maple	267.07	70.11	2.36	2.20	269.43	70.13	26.96	23.32	--	--	26.96	23.32	296.39	73.90
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tanoak / laurel	2,967.54	255.78	141.27	57.42	3,108.81	261.53	419.33	100.08	86.87	46.65	506.21	109.92	3,615.01	281.81
Western oak	430.90	88.36	359.88	63.36	790.79	108.59	--	--	50.54	27.21	50.54	27.21	841.33	112.20
Woodland hardwoods	--	--	--	--	--	--	--	--	3.84	3.48	3.84	3.48	3.84	3.48
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	234.23	73.06	6.15	5.85	240.39	73.29	66.39	48.97	--	--	66.39	48.97	306.77	88.14
<b>Total</b>	<b>3,899.75</b>	<b>283.92</b>	<b>509.66</b>	<b>85.59</b>	<b>4,409.41</b>	<b>294.80</b>	<b>512.68</b>	<b>112.33</b>	<b>141.26</b>	<b>54.12</b>	<b>653.93</b>	<b>123.78</b>	<b>5,063.34</b>	<b>317.44</b>
<b>Nonstocked</b>	<b>39.38</b>	<b>23.06</b>	<b>--</b>	<b>--</b>	<b>39.38</b>	<b>23.06</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>39.38</b>	<b>23.06</b>
<b>All forest types</b>	<b>8,480.85</b>	<b>403.47</b>	<b>509.66</b>	<b>85.59</b>	<b>8,990.51</b>	<b>410.06</b>	<b>1,081.61</b>	<b>154.11</b>	<b>174.48</b>	<b>60.84</b>	<b>1,256.09</b>	<b>164.76</b>	<b>10,246.60</b>	<b>432.83</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D71: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: Sierra Cascades

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	29,902.88	1,042.32	53.63	38.09	29,956.51	1,043.10	6,654.06	554.06	70.85	63.04	6,724.92	556.95	36,681.42	1,156.37
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	7,507.03	520.29	122.35	67.03	7,629.38	524.24	2,675.53	337.03	282.80	106.83	2,958.33	352.85	10,587.71	630.18
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	1,304.32	203.96	185.87	80.19	1,490.19	218.21	2,483.04	285.70	966.94	181.73	3,449.98	323.14	4,940.17	387.75
Pinyon / juniper	8.90	8.97	345.76	67.15	354.65	67.73	11.78	12.31	307.20	74.75	318.98	75.74	673.63	101.43
Ponderosa pine	6,767.28	407.13	92.08	45.05	6,859.36	409.14	536.25	120.20	62.53	37.63	598.79	125.77	7,458.14	427.24
Redwood	11.07	10.14	--	--	11.07	10.14	--	--	--	--	--	--	11.07	10.14
Western juniper	236.90	69.25	639.04	94.51	875.94	116.79	394.73	108.60	117.15	50.18	511.89	119.24	1,387.82	166.82
Western white pine	83.43	43.48	--	--	83.43	43.48	359.28	117.22	169.76	72.73	529.04	137.80	612.46	144.50
Other western softwoods	88.08	40.94	146.61	54.28	234.69	67.99	182.13	77.75	1,145.88	171.28	1,328.01	185.90	1,562.70	197.87
<b>Total</b>	<b>45,909.87</b>	<b>1,134.35</b>	<b>1,585.34</b>	<b>172.98</b>	<b>47,495.21</b>	<b>1,141.80</b>	<b>13,296.81</b>	<b>672.13</b>	<b>3,123.12</b>	<b>291.47</b>	<b>16,419.93</b>	<b>703.77</b>	<b>63,915.13</b>	<b>1,294.90</b>
<b>Hardwoods:</b>														
Alder / maple	42.41	29.17	--	--	42.41	29.17	--	--	--	--	--	--	42.41	29.17
Aspen / birch	28.33	22.81	17.75	10.62	46.08	25.16	23.14	21.13	70.93	40.66	94.07	45.82	140.16	52.27
Elm / ash / cottonwood	--	--	27.36	20.10	27.36	20.10	--	--	--	--	--	--	27.36	20.10
Tanoak / laurel	265.19	83.31	65.14	33.15	330.33	89.62	--	--	--	--	--	--	330.33	89.62
Western oak	2,608.38	221.50	5,015.20	239.12	7,623.58	317.95	323.27	78.50	456.90	82.21	780.17	113.64	8,403.75	334.98
Woodland hardwoods	--	--	91.03	37.16	91.03	37.16	--	--	14.52	13.13	14.52	13.13	105.54	39.41
Exotic hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	333.34	81.54	237.79	59.40	571.13	100.84	--	--	5.29	4.93	5.29	4.93	576.42	100.95
<b>Total</b>	<b>3,277.65</b>	<b>251.32</b>	<b>5,454.26</b>	<b>250.50</b>	<b>8,731.91</b>	<b>345.88</b>	<b>346.41</b>	<b>81.30</b>	<b>547.64</b>	<b>92.51</b>	<b>894.05</b>	<b>123.13</b>	<b>9,625.96</b>	<b>364.39</b>
<b>Nonstocked</b>	<b>1,082.20</b>	<b>128.83</b>	<b>92.34</b>	<b>31.87</b>	<b>1,174.54</b>	<b>132.56</b>	<b>227.65</b>	<b>58.98</b>	<b>89.39</b>	<b>32.76</b>	<b>317.04</b>	<b>67.43</b>	<b>1,491.58</b>	<b>148.70</b>
<b>All forest types</b>	<b>50,269.72</b>	<b>1,129.06</b>	<b>7,131.93</b>	<b>302.76</b>	<b>57,401.66</b>	<b>1,134.83</b>	<b>13,870.87</b>	<b>670.06</b>	<b>3,760.15</b>	<b>305.56</b>	<b>17,631.01</b>	<b>701.86</b>	<b>75,032.67</b>	<b>1,272.05</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

Table D72: Forest Floor by Forest Type Group and Forest Land Status, 2009-2018: South Coast Mountains and Deserts

Forest type group	Unreserved forests						Reserved forests						All forest land	
	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Total		Productive <sup>1</sup>		Other forest <sup>2</sup>		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons C</i>													
<b>Softwoods:</b>														
California mixed conifer	181.09	82.92	--	--	181.09	82.92	197.93	96.63	--	--	197.93	96.63	379.02	127.33
Douglas-fir	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fir / spruce / mountain hemlock	91.42	71.32	--	--	91.42	71.32	--	--	--	--	--	--	91.42	71.32
Western Hemlock / Sitka spruce	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	--	--	--	--	--	--	82.43	50.54	82.43	50.54	82.43	50.54
Pinyon / juniper	--	--	296.22	51.90	296.22	51.90	--	--	156.82	35.91	156.82	35.91	453.03	63.07
Ponderosa pine	55.00	39.83	--	--	55.00	39.83	110.49	53.73	15.83	15.96	126.32	56.05	181.32	68.76
Redwood	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Western juniper	36.40	26.74	19.04	19.20	55.44	32.92	--	--	--	--	--	--	55.44	32.92
Western white pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western softwoods	--	--	--	--	--	--	19.64	17.99	3.17	3.94	22.81	18.41	22.81	18.41
<b>Total</b>	<b>363.90</b>	<b>119.31</b>	<b>315.26</b>	<b>55.34</b>	<b>679.16</b>	<b>131.42</b>	<b>328.05</b>	<b>110.77</b>	<b>258.25</b>	<b>63.86</b>	<b>586.30</b>	<b>127.86</b>	<b>1,265.46</b>	<b>183.31</b>
<b>Hardwoods:</b>														
Alder / maple	--	--	19.95	15.50	19.95	15.50	--	--	--	--	--	--	19.95	15.50
Aspen / birch	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm / ash / cottonwood	--	--	0.10	0.10	0.10	0.10	--	--	8.07	11.01	8.07	11.01	8.18	11.01
Tanoak / laurel	--	--	--	--	--	--	--	--	21.23	20.86	21.23	20.86	21.23	20.86
Western oak	140.49	49.20	655.70	91.70	796.19	105.87	95.88	39.49	184.66	50.16	280.54	63.43	1,076.73	122.93
Woodland hardwoods	--	--	102.50	31.96	102.50	31.96	--	--	34.26	21.56	34.26	21.56	136.76	38.54
Exotic hardwoods	3.99	4.07	--	--	3.99	4.07	--	--	--	--	--	--	3.99	4.07
Other hardwoods	--	--	45.74	24.56	45.74	24.56	--	--	--	--	--	--	45.74	24.56
<b>Total</b>	<b>144.48</b>	<b>49.37</b>	<b>823.99</b>	<b>100.98</b>	<b>968.47</b>	<b>114.07</b>	<b>95.88</b>	<b>39.49</b>	<b>248.23</b>	<b>59.47</b>	<b>344.11</b>	<b>71.02</b>	<b>1,312.57</b>	<b>133.83</b>
<b>Nonstocked</b>	<b>63.44</b>	<b>27.03</b>	<b>47.83</b>	<b>20.13</b>	<b>111.27</b>	<b>33.62</b>	<b>13.77</b>	<b>10.49</b>	<b>22.07</b>	<b>10.52</b>	<b>44.75</b>	<b>16.70</b>	<b>156.02</b>	<b>37.54</b>
<b>All forest types</b>	<b>571.82</b>	<b>131.78</b>	<b>1,187.07</b>	<b>116.86</b>	<b>1,758.89</b>	<b>176.92</b>	<b>437.70</b>	<b>117.92</b>	<b>528.54</b>	<b>87.58</b>	<b>975.16</b>	<b>146.16</b>	<b>2,734.05</b>	<b>228.91</b>

Note: Totals may be off because of rounding

<sup>1</sup>Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup>Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table E1:** Annual change in forest land area to/from other IPCC landuse classes in California, 2001-8 to 2011-18.

	Timberland <sup>1</sup>		Other forest <sup>2</sup>		Reserved		All forest land	
	Total	SE	Total	SE	Total	SE	Total	SE
<i>Acres per year</i>								
<b>Forest to nonforest:</b>								
Cropland	936	740	3,071	1,347	--	--	4,007	1,536
Developed	7,589	1,872	5,257	1,352	455	272	13,301	2,324
Grassland	1,358	959	5,590	2,008	640	633	7,587	2,312
Other	20	21			8	7	28	22
Water	758	521	90	68	111	107	959	536
<b>Total</b>	<b>10,661</b>	<b>2,293</b>	<b>14,007</b>	<b>2,777</b>	<b>1,214</b>	<b>697</b>	<b>25,882</b>	<b>3,665</b>
<b>Nonforest to forest:</b>								
Cropland	206	111	--	--	--	--	206	111
Developed	4,140	941	868	302	41	31	5,048	989
Grassland	3,812	1,318	2,743	1,205	169	105	6,724	1,788
Other			124	128	--	--	124	128
Water	16	17	231	201	--	--	247	202
<b>Total</b>	<b>8,174</b>	<b>1,623</b>	<b>3,966</b>	<b>1,264</b>	<b>210</b>	<b>110</b>	<b>12,349</b>	<b>2,055</b>
<b>Net change to forest land:</b>								
Cropland	-730	747	-3,071	1,347	--	--	-3,801	1,540
Developed	-3,449	2,096	-4,389	1,374	-414	274	-8,253	2,524
Grassland	2,455	1,635	-2,847	2,341	-471	641	-863	2,926
Other	-20	21	124	128	-8	7	96	130
Water	-742	521	142	212	-111	107	-712	573
<b>Total</b>	<b>-2,487</b>	<b>2,819</b>	<b>-10,042</b>	<b>3,048</b>	<b>-1,004</b>	<b>706</b>	<b>-13,533</b>	<b>4,211</b>

Note: Totals may be off because of rounding

<sup>1</sup> Forest land that is capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

<sup>2</sup> Forest land that is not capable of producing in excess of 20 cubic feet per acre per year of wood at culmination of mean annual increment.

**Table E2:** Annual change in carbon pools due to change in land use between forest and nonforest in California, 2001-8 to 2011-18

	Forest to nonforest		Nonforest to forest		Net change	
	Total	SE	Total	SE	Total	SE
<b>Carbon pool</b>	<i>Thousand metric tons CO2 equivalent per year</i>					
Live tree	-1,890	309	1,001	194	-889	365
Standing dead	-205	112	29	8	-176	113
Down wood	-215	49	93	31	-123	58
Understory veg	-272	39	149	25	-123	47
Litter	-321	51	157	23	-164	56
Soil*	-4,347	573	1,980	314	-2,368	654
<b>All pools</b>	<b>-2,903</b>	<b>416</b>	<b>1,429</b>	<b>234</b>	<b>-1,474</b>	<b>478</b>

\* No changes in landuse involved cultivated land so soil organic carbon change was assumed to be zero (Ogle et al. 2003)

Table F1 - Annual Net Emissions of Non-CO2 Greenhouse Gases from Fire, 2001-2008 to 2011-2018: All California

	Public						Private				Total		Total	
	National Forest		Other Federal		State and local govt.		Corporate		Non Corporate		Total	SE	Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>thousand metric tons CO2 equivalent per year</i>													
<b>Cut and Fire</b>														
CO2	-798	305	--	--	-69	72	-1,600	499	-44	44	-1,643	501	-2,510	591
CH4	-26	10	--	--	-2	2	-51	16	-1	1	-53	16	-80	19
N2O	-17	6	--	--	-1	2	-34	11	-1	1	-35	11	-53	12
<b>Fire</b>														
CO2	-6,527	817	-1,153	429	-174	98	-227	129	-87	107	-314	168	-8,169	942
CH4	-209	26	-37	14	-6	3	-7	4	-3	3	-10	5	-262	30
N2O	-138	17	-24	9	-4	2	-5	3	-2	2	-7	4	-172	20
<b>Total Fire</b>														
CO2	-7,325	869	-1,153	429	-243	120	-1,827	512	-131	132	-1,957	529	-10,679	1,119
CH4	-235	28	-37	14	-8	4	-58	16	-4	4	-63	17	-342	36
N2O	-155	18	-24	9	-5	3	-39	11	-3	3	-41	11	-225	24

## **Appendix 3: Harvested wood product carbon model inputs; calculations**



**Table 3.1: California Harvest Data, 1952-2018 (mbf)**

<b>Year</b>	<b>Private</b>	<b>USFS</b>	<b>BLM</b>	<b>State &amp; Other Public</b>	<b>Tribal</b>	<b>All Owners</b>
<b>2018</b>	1,383,746	315,564	553	23,094	2,000	1,724,957
<b>2017</b>	1,363,244	309,533	470	22,434	0	1,695,681
<b>2016</b>	1,283,000	336,000	0	61,820	6,556	1,687,376
<b>2015</b>	1,386,000	288,000	1,568	18,620	9,000	1,703,188
<b>2014</b>	1,231,000	235,000	50	16,470	11,917	1,494,437
<b>2013</b>	1,423,000	303,000	2,000	30,173	8,860	1,767,033
<b>2012</b>	1,157,000	247,000	600	24,580	8,000	1,437,180
<b>2011</b>	1,130,000	300,490	3,000	19,780	11,371	1,464,641
<b>2010</b>	1,025,000	265,000	2,000	1,000	9,764	1,302,764
<b>2009</b>	745,000	163,000	2,190	1,000	3,905	915,095
<b>2008</b>	1,273,000	205,000	5,000	1,000	13,513	1,497,513
<b>2007</b>	1,439,000	308,000	9,000	1,000	19,300	1,776,300
<b>2006</b>	1,430,000	338,000	0	1,000	5,600	1,774,600
<b>2005</b>	1,496,000	381,000	890	1,000	10,564	1,889,454
<b>2004</b>	1,593,000	264,000	705	1,000	16,582	1,875,287
<b>2003</b>	1,509,000	284,000	859	1,000	17,854	1,812,713
<b>2002</b>	1,521,000	299,000	1,134	4,000	13,619	1,838,753
<b>2001</b>	1,476,000	262,000	800	3,000	10,000	1,751,800
<b>2000</b>	1,701,000	368,000	8,000	16,000	19,000	2,112,000
<b>1999</b>	1,903,000	433,000	1,000	26,000	15,000	2,378,000
<b>1998</b>	1,836,000	453,000	1,000	30,000	16,000	2,336,000
<b>1997</b>	2,042,000	548,000	5,000	48,000	15,000	2,658,000
<b>1996</b>	1,985,000	458,000	12,000	55,000	13,000	2,523,000
<b>1995</b>	1,929,000	544,000	6,000	40,000	16,000	2,535,000
<b>1994</b>	1,980,000	808,000	19,000	17,000	15,000	2,839,000
<b>1993</b>	2,263,000	739,000	8,000	34,000	13,000	3,057,000
<b>1992</b>	2,124,000	1,026,000	9,000	23,000	32,000	3,214,000
<b>1991</b>	2,065,000	1,336,000	11,000	38,000	24,000	3,474,000
<b>1990</b>	2,673,000	1,530,000	10,000	24,000	14,000	4,251,000
<b>1989</b>	2,638,000	2,024,000	12,000	37,000	11,000	4,722,000
<b>1988</b>	2,598,000	2,181,000	16,000	31,000	14,000	4,840,000
<b>1987</b>	2,582,000	1,969,000	15,000	42,000	41,000	4,649,000
<b>1986</b>	2,313,000	1,963,000	27,000	29,000	27,000	4,359,000
<b>1985</b>	2,172,000	1,826,000	17,000	36,000	5,000	4,056,000
<b>1984</b>	2,093,000	1,559,000	7,000	34,000	21,000	3,714,000
<b>1983</b>	1,890,000	1,676,000	25,000	43,000	14,000	3,648,000
<b>1982</b>	1,501,000	937,000	9,000	42,000	8,000	2,497,000
<b>1981</b>	1,722,000	1,093,000	7,000	15,000	22,000	2,859,000
<b>1980</b>	1,863,000	1,508,000	8,000	20,000	42,000	3,441,000
<b>1979</b>	2,265,000	1,727,000	18,000	26,000	48,000	4,084,000
<b>1978</b>	2,783,000	1,798,000	8,000	28,000	47,000	4,664,000
<b>1977</b>	2,964,000	1,738,000	19,000	28,000	38,000	4,787,000
<b>1976</b>	2,757,000	1,890,000	6,000	40,000	38,000	4,731,000
<b>1975</b>	2,712,000	1,523,000	46,000	35,000	18,000	4,334,000
<b>1974</b>	2,862,000	1,735,000	16,000	40,000	51,000	4,704,000

**Table 3.1:** California Harvest Data, 1952-2018 (mbf)

<b>Year</b>	<b>Private</b>	<b>USFS</b>	<b>BLM</b>	<b>State &amp; Other Public</b>	<b>Tribal</b>	<b>All Owners</b>
<b>1973</b>	2,813,000	2,014,000	12,000	33,000	51,000	4,923,000
<b>1972</b>	3,220,000	2,215,000	19,000	37,000	66,000	5,557,000
<b>1971</b>	2,594,000	2,063,000	24,000	39,000	70,000	4,790,000
<b>1970</b>	2,624,000	1,841,000	39,000	34,000	28,000	4,566,000
<b>1969</b>	2,879,000	2,001,000	27,000	40,000	54,000	5,001,000
<b>1968</b>	2,945,000	2,364,000	36,000	48,000	79,000	5,472,000
<b>1967</b>	3,057,000	1,895,000	34,000	35,000	41,000	5,062,000
<b>1966</b>	2,967,000	1,931,000	33,000	32,000	45,000	5,008,000
<b>1965</b>	3,215,000	1,917,000	55,000	31,000	53,000	5,271,000
<b>1964</b>	3,504,000	1,864,000	34,000	25,000	49,000	5,476,000
<b>1963</b>	3,688,000	1,661,000	36,000	22,000	54,000	5,461,000
<b>1962</b>	4,053,000	1,376,000	29,000	34,000	47,000	5,539,000
<b>1961</b>	3,847,000	1,378,000	33,000	29,000	55,000	5,342,000
<b>1960</b>	3,699,000	1,330,000	32,000	28,000	48,000	5,137,000
<b>1959</b>	4,293,000	1,475,000	41,000	27,000	50,000	5,886,000
<b>1958</b>	4,470,000	1,114,000	23,000	30,000	38,000	5,675,000
<b>1957</b>	4,356,000	918,000	10,000	27,000	36,000	5,347,000
<b>1956</b>	4,687,000	1,096,000	26,000	24,000	29,000	5,862,000
<b>1955</b>	4,928,000	1,027,000	13,000	14,000	33,000	6,015,000
<b>1954</b>	4,789,000	757,000	13,000	16,000	25,000	5,600,000
<b>1953</b>	5,317,000	633,000	7,000	18,000	15,000	5,990,000
<b>1952</b>	4,398,000	613,000	6,000	14,000	26,000	5,057,000









**Table 3.2:** California Timber Product Ratios

Timber Product			1954	1953	1952
ID	TPO Code	Timber Description			
1	01	hardwood, sawtimber	0.0025	0.0025	0.0025
2	01	softwood, sawtimber	0.9960	0.9960	0.9960
3	02	hardwood, pulpwood	0.0000	0.0000	0.0000
4	02	softwood, pulpwood	0.0009	0.0009	0.0009
5	03	hardwood, poles	0.0000	0.0000	0.0000
6	03	softwood, poles	0.0000	0.0000	0.0000
7	04	hardwood, pilings	0.0000	0.0000	0.0000
8	04	softwood, pilings	0.0000	0.0000	0.0000
9	05	hardwood, mine props	0.0000	0.0000	0.0000
10	05	softwood, mine props	0.0000	0.0000	0.0000
11	06	hardwood, posts	0.0000	0.0000	0.0000
12	06	softwood, posts	0.0000	0.0000	0.0000
13	07	hardwood, fuelwood	0.0000	0.0000	0.0000
14	07	softwood, fuelwood	0.0000	0.0000	0.0000
15	08	hardwood, non-sawtimber	0.0000	0.0000	0.0000
16	08	softwood, non-sawtimber	0.0000	0.0000	0.0000
17	09	hardwood, ties	0.0000	0.0000	0.0000
18	09	softwood, ties	0.0000	0.0000	0.0000
19	10	hardwood, coop bolts	0.0000	0.0000	0.0000
20	10	softwood, coop bolts	0.0000	0.0000	0.0000
21	11	hardwood, acid/dist.	0.0000	0.0000	0.0000
22	11	softwood, acid/dist.	0.0000	0.0000	0.0000
23	12	hardwood, float logs	0.0000	0.0000	0.0000
24	12	softwood, float logs	0.0000	0.0000	0.0000
25	13	hardwood, trap float	0.0000	0.0000	0.0000
26	13	softwood, trap float	0.0000	0.0000	0.0000
27	14	hardwood, misc-conv.	0.0000	0.0000	0.0000
28	14	softwood, misc-conv.	0.0006	0.0006	0.0006
29	16	hardwood, nav stores	0.0000	0.0000	0.0000
30	16	softwood, nav stores	0.0000	0.0000	0.0000
31	18	hardwood, cull logs	0.0000	0.0000	0.0000
32	18	softwood, cull logs	0.0000	0.0000	0.0000
33	19	hardwood, sm rnd wd	0.0000	0.0000	0.0000
34	19	softwood, sm rnd wd	0.0000	0.0000	0.0000
35	20	hardwood, grn bio cv	0.0000	0.0000	0.0000
36	20	softwood, grn bio cv	0.0000	0.0000	0.0000
37	21	hardwood, dry bio cv	0.0000	0.0000	0.0000
38	21	softwood, dry bio cv	0.0000	0.0000	0.0000
39	26	hardwood, sp wood pr	0.0000	0.0000	0.0000
40	26	softwood, sp wood pr	0.0000	0.0000	0.0000









**Table 3.4: End-use Product Ratios** – refer to CA\_HWP\_C\_end-use\_ratios.xlsx

**Table 3.5:** Product end-use half-lives

End Use				End Use Half Life (yrs)
ID	Timber Product	Primary Product	End Use Product	
1	hardwood, sawtimber	fuelwood and other	fuelwood and other	0
2	hardwood, sawtimber	lumber	manufacturing, other manufacturing	12
3	hardwood, sawtimber	lumber	rail and railcar, n/a	12
4	hardwood, sawtimber	lumber	packaging and shipping, n/a	6
5	hardwood, sawtimber	lumber	manufacturing, furniture	30
6	hardwood, sawtimber	lumber	other, n/a	12
7	hardwood, sawtimber	lumber	new nonresidential, other	67
8	hardwood, sawtimber	lumber	new nonresidential, new nonres buildings	67
9	hardwood, sawtimber	lumber	residential r and r, n/a	30
10	hardwood, sawtimber	lumber	new housing, manufactured housing	12
11	hardwood, sawtimber	lumber	new housing, single family	100
12	hardwood, sawtimber	lumber	new housing, multifamily	70
13	hardwood, sawtimber	non-structural panels	manufacturing, other manufacturing	12
14	hardwood, sawtimber	non-structural panels	new housing, multifamily	70
15	hardwood, sawtimber	non-structural panels	new housing, single family	100
16	hardwood, sawtimber	non-structural panels	residential r and r, n/a	30
17	hardwood, sawtimber	non-structural panels	new nonresidential, new nonres buildings	67
18	hardwood, sawtimber	non-structural panels	new nonresidential, other	67
19	hardwood, sawtimber	non-structural panels	rail and railcar, n/a	12
20	hardwood, sawtimber	non-structural panels	manufacturing, furniture	30
21	hardwood, sawtimber	non-structural panels	new housing, manufactured housing	12
22	hardwood, sawtimber	non-structural panels	packaging and shipping, n/a	6
23	hardwood, sawtimber	non-structural panels	other, n/a	12
24	hardwood, sawtimber	oriented strandboard (OSB)	new housing, multifamily	70
25	hardwood, sawtimber	oriented strandboard (OSB)	rail and railcar, n/a	12
26	hardwood, sawtimber	oriented strandboard (OSB)	new housing, single family	100
27	hardwood, sawtimber	oriented strandboard (OSB)	new housing, manufactured housing	12
28	hardwood, sawtimber	oriented strandboard (OSB)	manufacturing, furniture	30
29	hardwood, sawtimber	oriented strandboard (OSB)	new nonresidential, new nonres buildings	67
30	hardwood, sawtimber	oriented strandboard (OSB)	manufacturing, other manufacturing	12
31	hardwood, sawtimber	oriented strandboard (OSB)	packaging and shipping, n/a	6
32	hardwood, sawtimber	oriented strandboard (OSB)	other, n/a	12
33	hardwood, sawtimber	oriented strandboard (OSB)	residential r and r, n/a	30
34	hardwood, sawtimber	oriented strandboard (OSB)	new nonresidential, other	67
35	hardwood, sawtimber	other industrial products	other industrial products	12
36	hardwood, sawtimber	plywood	new housing, manufactured housing	12
37	hardwood, sawtimber	plywood	new housing, multifamily	70
38	hardwood, sawtimber	plywood	residential r and r, n/a	30
39	hardwood, sawtimber	plywood	new nonresidential, new nonres buildings	67
40	hardwood, sawtimber	plywood	new nonresidential, other	67
41	hardwood, sawtimber	plywood	rail and railcar, n/a	12
42	hardwood, sawtimber	plywood	manufacturing, furniture	30
43	hardwood, sawtimber	plywood	manufacturing, other manufacturing	12
44	hardwood, sawtimber	plywood	packaging and shipping, n/a	6
45	hardwood, sawtimber	plywood	other, n/a	12
46	hardwood, sawtimber	plywood	new housing, single family	100
47	hardwood, sawtimber	wood pulp	wood pulp	2.6
48	softwood, sawtimber	fuelwood and other	fuelwood and other	0

**Table 3.5:** Product end-use half-lives

End Use				End Use Half Life (yrs)
ID	Timber Product	Primary Product	End Use Product	
49	softwood, sawtimber	lumber	residential r and r, n/a	30
50	softwood, sawtimber	lumber	packaging and shipping, n/a	6
51	softwood, sawtimber	lumber	manufacturing, other manufacturing	12
52	softwood, sawtimber	lumber	manufacturing, furniture	30
53	softwood, sawtimber	lumber	rail and railcar, n/a	12
54	softwood, sawtimber	lumber	new nonresidential, new nonres buildings	67
55	softwood, sawtimber	lumber	other, n/a	12
56	softwood, sawtimber	lumber	new housing, multifamily	70
57	softwood, sawtimber	lumber	new housing, manufactured housing	12
58	softwood, sawtimber	lumber	new housing, single family	100
59	softwood, sawtimber	lumber	new nonresidential, other	67
60	softwood, sawtimber	non-structural panels	manufacturing, other manufacturing	12
61	softwood, sawtimber	non-structural panels	other, n/a	12
62	softwood, sawtimber	non-structural panels	new housing, single family	100
63	softwood, sawtimber	non-structural panels	rail and railcar, n/a	12
64	softwood, sawtimber	non-structural panels	packaging and shipping, n/a	6
65	softwood, sawtimber	non-structural panels	new housing, manufactured housing	12
66	softwood, sawtimber	non-structural panels	residential r and r, n/a	30
67	softwood, sawtimber	non-structural panels	new nonresidential, other	67
68	softwood, sawtimber	non-structural panels	manufacturing, furniture	30
69	softwood, sawtimber	non-structural panels	new housing, multifamily	70
70	softwood, sawtimber	non-structural panels	new nonresidential, new nonres buildings	67
71	softwood, sawtimber	oriented strandboard (OSB)	rail and railcar, n/a	12
72	softwood, sawtimber	oriented strandboard (OSB)	new nonresidential, other	67
73	softwood, sawtimber	oriented strandboard (OSB)	new housing, manufactured housing	12
74	softwood, sawtimber	oriented strandboard (OSB)	residential r and r, n/a	30
75	softwood, sawtimber	oriented strandboard (OSB)	new nonresidential, new nonres buildings	67
76	softwood, sawtimber	oriented strandboard (OSB)	other, n/a	12
77	softwood, sawtimber	oriented strandboard (OSB)	packaging and shipping, n/a	6
78	softwood, sawtimber	oriented strandboard (OSB)	new housing, multifamily	70
79	softwood, sawtimber	oriented strandboard (OSB)	new housing, single family	100
80	softwood, sawtimber	oriented strandboard (OSB)	manufacturing, other manufacturing	12
81	softwood, sawtimber	oriented strandboard (OSB)	manufacturing, furniture	30
82	softwood, sawtimber	other industrial products	other industrial products	12
83	softwood, sawtimber	plywood	residential r and r, n/a	30
84	softwood, sawtimber	plywood	manufacturing, furniture	30
85	softwood, sawtimber	plywood	new housing, single family	100
86	softwood, sawtimber	plywood	new housing, multifamily	70
87	softwood, sawtimber	plywood	manufacturing, other manufacturing	12
88	softwood, sawtimber	plywood	other, n/a	12
89	softwood, sawtimber	plywood	rail and railcar, n/a	12
90	softwood, sawtimber	plywood	new nonresidential, new nonres buildings	67
91	softwood, sawtimber	plywood	new housing, manufactured housing	12
92	softwood, sawtimber	plywood	packaging and shipping, n/a	6
93	softwood, sawtimber	plywood	new nonresidential, other	67
94	softwood, sawtimber	wood pulp	wood pulp	2.6
95	hardwood, pulpwood	fuelwood and other	fuelwood and other	0
96	hardwood, pulpwood	lumber	rail and railcar, n/a	12

**Table 3.5:** Product end-use half-lives

End Use				End Use Half Life (yrs)
ID	Timber Product	Primary Product	End Use Product	
97	hardwood, pulpwood	lumber	packaging and shipping, n/a	6
98	hardwood, pulpwood	lumber	other, n/a	12
99	hardwood, pulpwood	lumber	manufacturing, furniture	30
100	hardwood, pulpwood	lumber	new housing, multifamily	70
101	hardwood, pulpwood	lumber	new nonresidential, other	67
102	hardwood, pulpwood	lumber	new housing, single family	100
103	hardwood, pulpwood	lumber	new nonresidential, new nonres buildings	67
104	hardwood, pulpwood	lumber	new housing, manufactured housing	12
105	hardwood, pulpwood	lumber	residential r and r, n/a	30
106	hardwood, pulpwood	lumber	manufacturing, other manufacturing	12
107	hardwood, pulpwood	non-structural panels	manufacturing, other manufacturing	12
108	hardwood, pulpwood	non-structural panels	new housing, multifamily	70
109	hardwood, pulpwood	non-structural panels	other, n/a	12
110	hardwood, pulpwood	non-structural panels	residential r and r, n/a	30
111	hardwood, pulpwood	non-structural panels	new nonresidential, new nonres buildings	67
112	hardwood, pulpwood	non-structural panels	packaging and shipping, n/a	6
113	hardwood, pulpwood	non-structural panels	new nonresidential, other	67
114	hardwood, pulpwood	non-structural panels	new housing, single family	100
115	hardwood, pulpwood	non-structural panels	new housing, manufactured housing	12
116	hardwood, pulpwood	non-structural panels	manufacturing, furniture	30
117	hardwood, pulpwood	non-structural panels	rail and railcar, n/a	12
118	hardwood, pulpwood	oriented strandboard (OSB)	manufacturing, other manufacturing	12
119	hardwood, pulpwood	oriented strandboard (OSB)	packaging and shipping, n/a	6
120	hardwood, pulpwood	oriented strandboard (OSB)	other, n/a	12
121	hardwood, pulpwood	oriented strandboard (OSB)	manufacturing, furniture	30
122	hardwood, pulpwood	oriented strandboard (OSB)	rail and railcar, n/a	12
123	hardwood, pulpwood	oriented strandboard (OSB)	new nonresidential, new nonres buildings	67
124	hardwood, pulpwood	oriented strandboard (OSB)	new housing, single family	100
125	hardwood, pulpwood	oriented strandboard (OSB)	new housing, manufactured housing	12
126	hardwood, pulpwood	oriented strandboard (OSB)	residential r and r, n/a	30
127	hardwood, pulpwood	oriented strandboard (OSB)	new nonresidential, other	67
128	hardwood, pulpwood	oriented strandboard (OSB)	new housing, multifamily	70
129	hardwood, pulpwood	other industrial products	other industrial products	12
130	hardwood, pulpwood	plywood	residential r and r, n/a	30
131	hardwood, pulpwood	plywood	packaging and shipping, n/a	6
132	hardwood, pulpwood	plywood	new housing, manufactured housing	12
133	hardwood, pulpwood	plywood	new housing, single family	100
134	hardwood, pulpwood	plywood	new housing, multifamily	70
135	hardwood, pulpwood	plywood	other, n/a	12
136	hardwood, pulpwood	plywood	manufacturing, other manufacturing	12
137	hardwood, pulpwood	plywood	rail and railcar, n/a	12
138	hardwood, pulpwood	plywood	new nonresidential, new nonres buildings	67
139	hardwood, pulpwood	plywood	manufacturing, furniture	30
140	hardwood, pulpwood	plywood	new nonresidential, other	67
141	hardwood, pulpwood	wood pulp	wood pulp	2.6
142	softwood, pulpwood	fuelwood and other	fuelwood and other	0
143	softwood, pulpwood	lumber	residential r and r, n/a	30
144	softwood, pulpwood	lumber	manufacturing, furniture	30

**Table 3.5:** Product end-use half-lives

End Use				End Use Half Life (yrs)
ID	Timber Product	Primary Product	End Use Product	
145	softwood, pulpwood	lumber	new housing, manufactured housing	12
146	softwood, pulpwood	lumber	new housing, multifamily	70
147	softwood, pulpwood	lumber	new nonresidential, new nonres buildings	67
148	softwood, pulpwood	lumber	new nonresidential, other	67
149	softwood, pulpwood	lumber	manufacturing, other manufacturing	12
150	softwood, pulpwood	lumber	packaging and shipping, n/a	6
151	softwood, pulpwood	lumber	other, n/a	12
152	softwood, pulpwood	lumber	new housing, single family	100
153	softwood, pulpwood	lumber	rail and railcar, n/a	12
154	softwood, pulpwood	non-structural panels	new housing, single family	100
155	softwood, pulpwood	non-structural panels	manufacturing, furniture	30
156	softwood, pulpwood	non-structural panels	other, n/a	12
157	softwood, pulpwood	non-structural panels	packaging and shipping, n/a	6
158	softwood, pulpwood	non-structural panels	new nonresidential, new nonres buildings	67
159	softwood, pulpwood	non-structural panels	manufacturing, other manufacturing	12
160	softwood, pulpwood	non-structural panels	new nonresidential, other	67
161	softwood, pulpwood	non-structural panels	residential r and r, n/a	30
162	softwood, pulpwood	non-structural panels	new housing, multifamily	70
163	softwood, pulpwood	non-structural panels	rail and railcar, n/a	12
164	softwood, pulpwood	non-structural panels	new housing, manufactured housing	12
165	softwood, pulpwood	oriented strandboard (OSB)	manufacturing, furniture	30
166	softwood, pulpwood	oriented strandboard (OSB)	manufacturing, other manufacturing	12
167	softwood, pulpwood	oriented strandboard (OSB)	new nonresidential, other	67
168	softwood, pulpwood	oriented strandboard (OSB)	new housing, single family	100
169	softwood, pulpwood	oriented strandboard (OSB)	new housing, multifamily	70
170	softwood, pulpwood	oriented strandboard (OSB)	new housing, manufactured housing	12
171	softwood, pulpwood	oriented strandboard (OSB)	residential r and r, n/a	30
172	softwood, pulpwood	oriented strandboard (OSB)	rail and railcar, n/a	12
173	softwood, pulpwood	oriented strandboard (OSB)	packaging and shipping, n/a	6
174	softwood, pulpwood	oriented strandboard (OSB)	other, n/a	12
175	softwood, pulpwood	oriented strandboard (OSB)	new nonresidential, new nonres buildings	67
176	softwood, pulpwood	other industrial products	other industrial products	12
177	softwood, pulpwood	plywood	rail and railcar, n/a	12
178	softwood, pulpwood	plywood	new nonresidential, other	67
179	softwood, pulpwood	plywood	other, n/a	12
180	softwood, pulpwood	plywood	manufacturing, other manufacturing	12
181	softwood, pulpwood	plywood	new nonresidential, new nonres buildings	67
182	softwood, pulpwood	plywood	packaging and shipping, n/a	6
183	softwood, pulpwood	plywood	new housing, manufactured housing	12
184	softwood, pulpwood	plywood	new housing, multifamily	70
185	softwood, pulpwood	plywood	new housing, single family	100
186	softwood, pulpwood	plywood	manufacturing, furniture	30
187	softwood, pulpwood	plywood	residential r and r, n/a	30
188	softwood, pulpwood	wood pulp	wood pulp	2.6
189	hardwood, poles	hardwood, poles	hardwood, poles	12
190	softwood, poles	softwood, poles	softwood, poles	12
191	hardwood, pilings	hardwood, pilings	hardwood, pilings	12
192	softwood, pilings	softwood, pilings	softwood, pilings	12

**Table 3.5:** Product end-use half-lives

End Use				End Use Half Life (yrs)
ID	Timber Product	Primary Product	End Use Product	
193	hardwood, mine props	hardwood, mine props	hardwood, mine props	12
194	softwood, mine props	softwood, mine props	softwood, mine props	12
195	hardwood, posts	hardwood, posts	hardwood, posts	12
196	softwood, posts	softwood, posts	softwood, posts	12
197	hardwood, fuelwood	hardwood, fuelwood	hardwood, fuelwood	0
198	softwood, fuelwood	softwood, fuelwood	softwood, fuelwood	0
199	hardwood, non-sawtimber	hardwood, non-sawtimber	hardwood, non-sawtimber	12
200	softwood, non-sawtimber	softwood, non-sawtimber	softwood, non-sawtimber	12
201	hardwood, ties	hardwood, ties	hardwood, ties	12
202	softwood, ties	softwood, ties	softwood, ties	12
203	hardwood, coop bolts	hardwood, coop bolts	hardwood, coop bolts	12
204	softwood, coop bolts	softwood, coop bolts	softwood, coop bolts	12
205	hardwood, acid/dist.	hardwood, acid/dist.	hardwood, acid/dist.	12
206	softwood, acid/dist.	softwood, acid/dist.	softwood, acid/dist.	12
207	hardwood, float logs	hardwood, float logs	hardwood, float logs	12
208	softwood, float logs	softwood, float logs	softwood, float logs	12
209	hardwood, trap float	hardwood, trap float	hardwood, trap float	12
210	softwood, trap float	softwood, trap float	softwood, trap float	12
211	hardwood, misc-conv.	hardwood, misc-conv.	hardwood, misc-conv.	12
212	softwood, misc-conv.	softwood, misc-conv.	softwood, misc-conv.	12
213	hardwood, nav stores	hardwood, nav stores	hardwood, nav stores	12
214	softwood, nav stores	softwood, nav stores	softwood, nav stores	12
215	hardwood, cull logs	hardwood, cull logs	hardwood, cull logs	12
216	softwood, cull logs	softwood, cull logs	softwood, cull logs	12
217	hardwood, sm rnd wd	hardwood, sm rnd wd	hardwood, sm rnd wd	12
218	softwood, sm rnd wd	softwood, sm rnd wd	softwood, sm rnd wd	12
219	hardwood, grn bio cv	hardwood, grn bio cv	hardwood, grn bio cv	12
220	softwood, grn bio cv	softwood, grn bio cv	softwood, grn bio cv	12
221	hardwood, dry bio cv	hardwood, dry bio cv	hardwood, dry bio cv	12
222	softwood, dry bio cv	softwood, dry bio cv	softwood, dry bio cv	12
223	hardwood, sp wood pr	hardwood, sp wood pr	hardwood, sp wood pr	12
224	softwood, sp wood pr	softwood, sp wood pr	softwood, sp wood pr	12



Table 3.6: Discarded disposition ratios

Disposition ID	Discard Type	Discard Destination	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997
1	paper	Burned	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16
2	paper	Recycled	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.49	0.48	0.46	0.46	0.42	0.28	0.28	0.28
3	paper	Composted	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.02	0.02	0.02
4	paper	Landfills	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.31	0.32	0.34	0.33	0.37	0.53	0.53	0.53
5	paper	Dumps	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
6	wood	Burned	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16
7	wood	Recycled	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.07	0.07	0.07
8	wood	Composted	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.02	0.02	0.02
9	wood	Landfills	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.68	0.67	0.67	0.73	0.73	0.73
10	wood	Dumps	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Table 3.6: Discarded disposition ratio:

Disposition ID	Discard Type	Discard Destination	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976
1	paper	Burned	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.21	0.21	0.21	0.21
2	paper	Recycled	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.15	0.15	0.15	0.15
3	paper	Composted	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	paper	Landfills	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.21	0.21	0.21	0.21
5	paper	Dumps	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.43	0.43	0.43	0.43
6	wood	Burned	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.21	0.21	0.21	0.21
7	wood	Recycled	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	wood	Composted	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	wood	Landfills	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.26	0.26	0.26	0.26
10	wood	Dumps	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.53	0.53	0.53	0.53

Table 3.6: Discarded disposition ratio:

Disposition ID	Discard Type	Discard Destination	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955
1	paper	Burned	0.21	0.21	0.21	0.21	0.21	0.21	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.3	0.3	0.3	0.3	0.3
2	paper	Recycled	0.15	0.15	0.15	0.15	0.15	0.15	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0	0	0	0	0
3	paper	Composted	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	paper	Landfills	0.21	0.21	0.21	0.21	0.21	0.21	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.07	0.07	0.07	0.07	0.07
5	paper	Dumps	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.63	0.63	0.63	0.63	0.63
6	wood	Burned	0.21	0.21	0.21	0.21	0.21	0.21	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.3	0.3	0.3	0.3	0.3
7	wood	Recycled	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	wood	Composted	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	wood	Landfills	0.26	0.26	0.26	0.26	0.26	0.26	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.07	0.07	0.07	0.07	0.07
10	wood	Dumps	0.53	0.53	0.53	0.53	0.53	0.53	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.63	0.63	0.63	0.63	0.63

Table 3.6: Discarded disposition ratio:

Disposition ID	Discard Type	Discard Destination	1954	1953	1952
1	paper	Burned	0.3	0.3	0.3
2	paper	Recycled	0	0	0
3	paper	Composted	0	0	0
4	paper	Landfills	0.07	0.07	0.07
5	paper	Dumps	0.63	0.63	0.63
6	wood	Burned	0.3	0.3	0.3
7	wood	Recycled	0	0	0
8	wood	Composted	0	0	0
9	wood	Landfills	0.07	0.07	0.07
10	wood	Dumps	0.63	0.63	0.63

Table 3.7: Discarded product half-lives; landfill fixed ratios

Type ID	Discard Type	Landfill Fixed Ratio	Landfill Half Life	Dump Half Life	Recycled Half Life
0	paper	0.44	14.5	8.25	2.6
1	wood	0.77	29	16.5	2.6

**Table 3.8:** HWP C model distribution parameters for Monte Carlo Analysis (*note: no Monte Carlo Analysis completed for 2018 data update due to pending revisions in model code*)

Parameter ID	Parameter Name	First Year	Last Year	Min Value	Peak Value	Max Value
0	CCF to MgC conversion factors	n/a	n/a	0.95	1	1.05
1	Harvest	1906	1945	0.7	1	1.3
1		1946	1979	0.8	1	1.2
1		1980	2100	0.85	1	1.15
2	Timber product ratios	1906	1945	0.7	1	1.3
2		1946	1979	0.8	1	1.2
2		1980	2100	0.85	1	1.15
3	Primary product ratios	1906	1949	0.7	1	1.3
3		1950	1979	0.8	1	1.2
3		1980	2100	0.85	1	1.15
4	End use product ratios	n/a	n/a	0.85	1	1.15
5	Product half lives	n/a	n/a	0.85	1	1.15
6	Discarded disposition ratios (paper)	n/a	n/a	0.85	1	1.15
7	Discarded disposition ratios (wood)	n/a	n/a	0.85	1	1.15
8	Landfill decay limits (paper)	n/a	n/a	0.85	1	1.15
9	Landfill decay limits (wood)	n/a	n/a	0.85	1	1.15
10	Landfill half lives (paper)	n/a	n/a	0.85	1	1.15
11	Landfill half lives (wood)	n/a	n/a	0.85	1	1.15
12	Dump half lives (paper)	n/a	n/a	0.85	1	1.15
13	Dump half lives (wood)	n/a	n/a	0.85	1	1.15
14	Recovered half lives (paper)	n/a	n/a	0.85	1	1.15
15	Recovered half lives (wood)	n/a	n/a	0.85	1	1.15
16	Burned with energy capture ratio	n/a	n/a	0.85	1	1.15

**Table 3.9:** Primary Product CCF to Metric Tons C conversion

<b>Metric Tons C conversion</b>	<b>Timber Product</b>	<b>Primary Product</b>	<b>Conversion Factor</b>
1	hardwood, sawtimber	fuelwood and other	0.91
2	hardwood, sawtimber	lumber	0.91
3	hardwood, sawtimber	non-structural panels	0.87
4	hardwood, sawtimber	oriented strandboard (OSB)	0.87
5	hardwood, sawtimber	other industrial products	0.91
6	hardwood, sawtimber	plywood	0.91
7	hardwood, sawtimber	wood pulp	0.91
8	softwood, sawtimber	fuelwood and other	0.74
9	softwood, sawtimber	lumber	0.74
10	softwood, sawtimber	non-structural panels	0.71
11	softwood, sawtimber	oriented strandboard (OSB)	0.87
12	softwood, sawtimber	other industrial products	0.74
13	softwood, sawtimber	plywood	0.75
14	softwood, sawtimber	wood pulp	0.74
15	hardwood, pulpwood	fuelwood and other	0.91
16	hardwood, pulpwood	lumber	0.91
17	hardwood, pulpwood	non-structural panels	0.91
18	hardwood, pulpwood	oriented strandboard (OSB)	0.87
19	hardwood, pulpwood	other industrial products	0.91
20	hardwood, pulpwood	plywood	0.91
21	hardwood, pulpwood	wood pulp	0.74
22	softwood, pulpwood	fuelwood and other	0.74
23	softwood, pulpwood	lumber	0.74
24	softwood, pulpwood	non-structural panels	0.71
25	softwood, pulpwood	oriented strandboard (OSB)	0.87
26	softwood, pulpwood	other industrial products	0.74
27	softwood, pulpwood	plywood	0.74
28	softwood, pulpwood	wood pulp	0.74
29	hardwood, poles	hardwood, poles	0.91
30	softwood, poles	softwood, poles	0.74
31	hardwood, pilings	hardwood, pilings	0.91
32	softwood, pilings	softwood, pilings	0.74
33	hardwood, mine props	hardwood, mine props	0.91
34	softwood, mine props	softwood, mine props	0.74
35	hardwood, posts	hardwood, posts	0.91
36	softwood, posts	softwood, posts	0.74
37	hardwood, fuelwood	hardwood, fuelwood	0.91
38	softwood, fuelwood	softwood, fuelwood	0.74
39	hardwood, non-sawtimber	hardwood, non-sawtimber	0.91
40	softwood, non-sawtimber	softwood, non-sawtimber	0.74
41	hardwood, ties	hardwood, ties	0.91
42	softwood, ties	softwood, ties	0.74
43	hardwood, coop bolts	hardwood, coop bolts	0.91
44	softwood, coop bolts	softwood, coop bolts	0.74
45	hardwood, acid/dist.	hardwood, acid/dist.	0.91

**Table 3.9:** Primary Product CCF to Metric Tons C conversion

<b>Metric</b>			<b>Conversion</b>
<b>Tons C</b>	<b>Timber Product</b>	<b>Primary Product</b>	<b>Factor</b>
conversion			
46	softwood, acid/dist.	softwood, acid/dist.	0.74
47	hardwood, float logs	hardwood, float logs	0.91
48	softwood, float logs	softwood, float logs	0.74
49	hardwood, trap float	hardwood, trap float	0.91
50	softwood, trap float	softwood, trap float	0.74
51	hardwood, misc-conv.	hardwood, misc-conv.	0.91
52	softwood, misc-conv.	softwood, misc-conv.	0.74
53	hardwood, nav stores	hardwood, nav stores	0.91
54	softwood, nav stores	softwood, nav stores	0.74
55	hardwood, cull logs	hardwood, cull logs	0.91
56	softwood, cull logs	softwood, cull logs	0.74
57	hardwood, sm rnd wd	hardwood, sm rnd wd	0.91
58	softwood, sm rnd wd	softwood, sm rnd wd	0.74
59	hardwood, grn bio cv	hardwood, grn bio cv	0.91
60	softwood, grn bio cv	softwood, grn bio cv	0.74
61	hardwood, dry bio cv	hardwood, dry bio cv	0.91
62	softwood, dry bio cv	softwood, dry bio cv	0.74
63	hardwood, sp wood pr	hardwood, sp wood pr	0.91
64	softwood, sp wood pr	softwood, sp wood pr	0.74

**Table 3.10:** This table shows primary products for each timber product.

Timber Product ID	Timber Product	Primary Product ID	Primary Product
1	hardwood, sawtimber	1	fuelwood and other
1	hardwood, sawtimber	2	lumber
1	hardwood, sawtimber	3	non-structural panels
1	hardwood, sawtimber	4	oriented strandboard (OSB)
1	hardwood, sawtimber	5	other industrial products
1	hardwood, sawtimber	6	plywood
1	hardwood, sawtimber	7	wood pulp
2	softwood, sawtimber	8	fuelwood and other
2	softwood, sawtimber	9	lumber
2	softwood, sawtimber	10	non-structural panels
2	softwood, sawtimber	11	oriented strandboard (OSB)
2	softwood, sawtimber	12	other industrial products
2	softwood, sawtimber	13	plywood
2	softwood, sawtimber	14	wood pulp
3	hardwood, pulpwood	15	fuelwood and other
3	hardwood, pulpwood	16	lumber
3	hardwood, pulpwood	17	non-structural panels
3	hardwood, pulpwood	18	oriented strandboard (OSB)
3	hardwood, pulpwood	19	other industrial products
3	hardwood, pulpwood	20	plywood
3	hardwood, pulpwood	21	wood pulp
4	softwood, pulpwood	22	fuelwood and other
4	softwood, pulpwood	23	lumber
4	softwood, pulpwood	24	non-structural panels
4	softwood, pulpwood	25	oriented strandboard (OSB)
4	softwood, pulpwood	26	other industrial products
4	softwood, pulpwood	27	plywood
4	softwood, pulpwood	28	wood pulp
5	hardwood, poles	29	hardwood, poles
6	softwood, poles	30	softwood, poles
7	hardwood, pilings	31	hardwood, pilings
8	softwood, pilings	32	softwood, pilings
9	hardwood, mine props	33	hardwood, mine props
10	softwood, mine props	34	softwood, mine props
11	hardwood, posts	35	hardwood, posts
12	softwood, posts	36	softwood, posts
13	hardwood, fuelwood	37	hardwood, fuelwood
14	softwood, fuelwood	38	softwood, fuelwood
15	hardwood, non-sawtimber	39	hardwood, non-sawtimber
16	softwood, non-sawtimber	40	softwood, non-sawtimber
17	hardwood, ties	41	hardwood, ties
18	softwood, ties	42	softwood, ties

19	hardwood, coop bolts	43	hardwood, coop bolts
20	softwood, coop bolts	44	softwood, coop bolts
21	hardwood, acid/dist.	45	hardwood, acid/dist.
22	softwood, acid/dist.	46	softwood, acid/dist.
23	hardwood, float logs	47	hardwood, float logs
24	softwood, float logs	48	softwood, float logs
25	hardwood, trap float	49	hardwood, trap float
26	softwood, trap float	50	softwood, trap float
27	hardwood, misc-conv.	51	hardwood, misc-conv.
28	softwood, misc-conv.	52	softwood, misc-conv.
29	hardwood, nav stores	53	hardwood, nav stores
30	softwood, nav stores	54	softwood, nav stores
31	hardwood, cull logs	55	hardwood, cull logs
32	softwood, cull logs	56	softwood, cull logs
33	hardwood, sm rnd wd	57	hardwood, sm rnd wd
34	softwood, sm rnd wd	58	softwood, sm rnd wd
35	hardwood, grn bio cv	59	hardwood, grn bio cv
36	softwood, grn bio cv	60	softwood, grn bio cv
37	hardwood, dry bio cv	61	hardwood, dry bio cv
38	softwood, dry bio cv	62	softwood, dry bio cv
39	hardwood, sp wood pr	63	hardwood, sp wood pr
40	softwood, sp wood pr	64	softwood, sp wood pr

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**Table 3.11:** This table shows end use products for each primary product.

Primary Product ID	Primary Product	End Use ID	End Use Product
1	fuelwood and other	1	fuelwood and other
2	lumber	2	manufacturing, other manufacturing
2	lumber	3	rail and railcar, n/a
2	lumber	4	packaging and shipping, n/a
2	lumber	5	manufacturing, furniture
2	lumber	6	other, n/a
2	lumber	7	new nonresidential, other
2	lumber	8	new nonresidential, new nonres buildings
2	lumber	9	residential r and r, n/a
2	lumber	10	new housing, manufactured housing
2	lumber	11	new housing, single family
2	lumber	12	new housing, multifamily
3	non-structural panels	13	manufacturing, other manufacturing
3	non-structural panels	14	new housing, multifamily
3	non-structural panels	15	new housing, single family
3	non-structural panels	16	residential r and r, n/a
3	non-structural panels	17	new nonresidential, new nonres buildings
3	non-structural panels	18	new nonresidential, other
3	non-structural panels	19	rail and railcar, n/a
3	non-structural panels	20	manufacturing, furniture
3	non-structural panels	21	new housing, manufactured housing
3	non-structural panels	22	packaging and shipping, n/a
3	non-structural panels	23	other, n/a
4	oriented strandboard (OSB)	24	new housing, multifamily
4	oriented strandboard (OSB)	25	rail and railcar, n/a
4	oriented strandboard (OSB)	26	new housing, single family
4	oriented strandboard (OSB)	27	new housing, manufactured housing
4	oriented strandboard (OSB)	28	manufacturing, furniture
4	oriented strandboard (OSB)	29	new nonresidential, new nonres buildings
4	oriented strandboard (OSB)	30	manufacturing, other manufacturing
4	oriented strandboard (OSB)	31	packaging and shipping, n/a
4	oriented strandboard (OSB)	32	other, n/a
4	oriented strandboard (OSB)	33	residential r and r, n/a
4	oriented strandboard (OSB)	34	new nonresidential, other
5	other industrial products	35	other industrial products
6	plywood	36	new housing, manufactured housing
6	plywood	37	new housing, multifamily
6	plywood	38	residential r and r, n/a
6	plywood	39	new nonresidential, new nonres buildings
6	plywood	40	new nonresidential, other
6	plywood	41	rail and railcar, n/a
6	plywood	42	manufacturing, furniture
6	plywood	43	manufacturing, other manufacturing
6	plywood	44	packaging and shipping, n/a
6	plywood	45	other, n/a

6	plywood	46	new housing, single family
7	wood pulp	47	wood pulp
8	fuelwood and other	48	fuelwood and other
9	lumber	49	residential r and r, n/a
9	lumber	50	packaging and shipping, n/a
9	lumber	51	manufacturing, other manufacturing
9	lumber	52	manufacturing, furniture
9	lumber	53	rail and railcar, n/a
9	lumber	54	new nonresidential, new nonres buildings
9	lumber	55	other, n/a
9	lumber	56	new housing, multifamily
9	lumber	57	new housing, manufactured housing
9	lumber	58	new housing, single family
9	lumber	59	new nonresidential, other
10	non-structural panels	60	manufacturing, other manufacturing
10	non-structural panels	61	other, n/a
10	non-structural panels	62	new housing, single family
10	non-structural panels	63	rail and railcar, n/a
10	non-structural panels	64	packaging and shipping, n/a
10	non-structural panels	65	new housing, manufactured housing
10	non-structural panels	66	residential r and r, n/a
10	non-structural panels	67	new nonresidential, other
10	non-structural panels	68	manufacturing, furniture
10	non-structural panels	69	new housing, multifamily
10	non-structural panels	70	new nonresidential, new nonres buildings
11	oriented strandboard (OSB)	71	rail and railcar, n/a
11	oriented strandboard (OSB)	72	new nonresidential, other
11	oriented strandboard (OSB)	73	new housing, manufactured housing
11	oriented strandboard (OSB)	74	residential r and r, n/a
11	oriented strandboard (OSB)	75	new nonresidential, new nonres buildings
11	oriented strandboard (OSB)	76	other, n/a
11	oriented strandboard (OSB)	77	packaging and shipping, n/a
11	oriented strandboard (OSB)	78	new housing, multifamily
11	oriented strandboard (OSB)	79	new housing, single family
11	oriented strandboard (OSB)	80	manufacturing, other manufacturing
11	oriented strandboard (OSB)	81	manufacturing, furniture
12	other industrial products	82	other industrial products
13	plywood	83	residential r and r, n/a
13	plywood	84	manufacturing, furniture
13	plywood	85	new housing, single family
13	plywood	86	new housing, multifamily
13	plywood	87	manufacturing, other manufacturing
13	plywood	88	other, n/a
13	plywood	89	rail and railcar, n/a
13	plywood	90	new nonresidential, new nonres buildings
13	plywood	91	new housing, manufactured housing
13	plywood	92	packaging and shipping, n/a



13	plywood	93	new nonresidential, other
14	wood pulp	94	wood pulp
15	fuelwood and other	95	fuelwood and other
16	lumber	96	rail and railcar, n/a
16	lumber	97	packaging and shipping, n/a
16	lumber	98	other, n/a
16	lumber	99	manufacturing, furniture
16	lumber	100	new housing, multifamily
16	lumber	101	new nonresidential, other
16	lumber	102	new housing, single family
16	lumber	103	new nonresidential, new nonres buildings
16	lumber	104	new housing, manufactured housing
16	lumber	105	residential r and r, n/a
16	lumber	106	manufacturing, other manufacturing
17	non-structural panels	107	manufacturing, other manufacturing
17	non-structural panels	108	new housing, multifamily
17	non-structural panels	109	other, n/a
17	non-structural panels	110	residential r and r, n/a
17	non-structural panels	111	new nonresidential, new nonres buildings
17	non-structural panels	112	packaging and shipping, n/a
17	non-structural panels	113	new nonresidential, other
17	non-structural panels	114	new housing, single family
17	non-structural panels	115	new housing, manufactured housing
17	non-structural panels	116	manufacturing, furniture
17	non-structural panels	117	rail and railcar, n/a
18	oriented strandboard (OSB)	118	manufacturing, other manufacturing
18	oriented strandboard (OSB)	119	packaging and shipping, n/a
18	oriented strandboard (OSB)	120	other, n/a
18	oriented strandboard (OSB)	121	manufacturing, furniture
18	oriented strandboard (OSB)	122	rail and railcar, n/a
18	oriented strandboard (OSB)	123	new nonresidential, new nonres buildings
18	oriented strandboard (OSB)	124	new housing, single family
18	oriented strandboard (OSB)	125	new housing, manufactured housing
18	oriented strandboard (OSB)	126	residential r and r, n/a
18	oriented strandboard (OSB)	127	new nonresidential, other
18	oriented strandboard (OSB)	128	new housing, multifamily
19	other industrial products	129	other industrial products
20	plywood	130	residential r and r, n/a
20	plywood	131	packaging and shipping, n/a
20	plywood	132	new housing, manufactured housing
20	plywood	133	new housing, single family
20	plywood	134	new housing, multifamily
20	plywood	135	other, n/a
20	plywood	136	manufacturing, other manufacturing
20	plywood	137	rail and railcar, n/a
20	plywood	138	new nonresidential, new nonres buildings
20	plywood	139	manufacturing, furniture

20	plywood	140	new nonresidential, other
21	wood pulp	141	wood pulp
22	fuelwood and other	142	fuelwood and other
23	lumber	143	residential r and r, n/a
23	lumber	144	manufacturing, furniture
23	lumber	145	new housing, manufactured housing
23	lumber	146	new housing, multifamily
23	lumber	147	new nonresidential, new nonres buildings
23	lumber	148	new nonresidential, other
23	lumber	149	manufacturing, other manufacturing
23	lumber	150	packaging and shipping, n/a
23	lumber	151	other, n/a
23	lumber	152	new housing, single family
23	lumber	153	rail and railcar, n/a
24	non-structural panels	154	new housing, single family
24	non-structural panels	155	manufacturing, furniture
24	non-structural panels	156	other, n/a
24	non-structural panels	157	packaging and shipping, n/a
24	non-structural panels	158	new nonresidential, new nonres buildings
24	non-structural panels	159	manufacturing, other manufacturing
24	non-structural panels	160	new nonresidential, other
24	non-structural panels	161	residential r and r, n/a
24	non-structural panels	162	new housing, multifamily
24	non-structural panels	163	rail and railcar, n/a
24	non-structural panels	164	new housing, manufactured housing
25	oriented strandboard (OSB)	165	manufacturing, furniture
25	oriented strandboard (OSB)	166	manufacturing, other manufacturing
25	oriented strandboard (OSB)	167	new nonresidential, other
25	oriented strandboard (OSB)	168	new housing, single family
25	oriented strandboard (OSB)	169	new housing, multifamily
25	oriented strandboard (OSB)	170	new housing, manufactured housing
25	oriented strandboard (OSB)	171	residential r and r, n/a
25	oriented strandboard (OSB)	172	rail and railcar, n/a
25	oriented strandboard (OSB)	173	packaging and shipping, n/a
25	oriented strandboard (OSB)	174	other, n/a
25	oriented strandboard (OSB)	175	new nonresidential, new nonres buildings
26	other industrial products	176	other industrial products
27	plywood	177	rail and railcar, n/a
27	plywood	178	new nonresidential, other
27	plywood	179	other, n/a
27	plywood	180	manufacturing, other manufacturing
27	plywood	181	new nonresidential, new nonres buildings
27	plywood	182	packaging and shipping, n/a
27	plywood	183	new housing, manufactured housing
27	plywood	184	new housing, multifamily
27	plywood	185	new housing, single family
27	plywood	186	manufacturing, furniture

27	plywood	187	residential r and r, n/a
28	wood pulp	188	wood pulp
29	hardwood, poles	189	hardwood, poles
30	softwood, poles	190	softwood, poles
31	hardwood, pilings	191	hardwood, pilings
32	softwood, pilings	192	softwood, pilings
33	hardwood, mine props	193	hardwood, mine props
34	softwood, mine props	194	softwood, mine props
35	hardwood, posts	195	hardwood, posts
36	softwood, posts	196	softwood, posts
37	hardwood, fuelwood	197	hardwood, fuelwood
38	softwood, fuelwood	198	softwood, fuelwood
39	hardwood, non-sawtimber	199	hardwood, non-sawtimber
40	softwood, non-sawtimber	200	softwood, non-sawtimber
41	hardwood, ties	201	hardwood, ties
42	softwood, ties	202	softwood, ties
43	hardwood, coop bolts	203	hardwood, coop bolts
44	softwood, coop bolts	204	softwood, coop bolts
45	hardwood, acid/dist.	205	hardwood, acid/dist.
46	softwood, acid/dist.	206	softwood, acid/dist.
47	hardwood, float logs	207	hardwood, float logs
48	softwood, float logs	208	softwood, float logs
49	hardwood, trap float	209	hardwood, trap float
50	softwood, trap float	210	softwood, trap float
51	hardwood, misc-conv.	211	hardwood, misc-conv.
52	softwood, misc-conv.	212	softwood, misc-conv.
53	hardwood, nav stores	213	hardwood, nav stores
54	softwood, nav stores	214	softwood, nav stores
55	hardwood, cull logs	215	hardwood, cull logs
56	softwood, cull logs	216	softwood, cull logs
57	hardwood, sm rnd wd	217	hardwood, sm rnd wd
58	softwood, sm rnd wd	218	softwood, sm rnd wd
59	hardwood, grn bio cv	219	hardwood, grn bio cv
60	softwood, grn bio cv	220	softwood, grn bio cv
61	hardwood, dry bio cv	221	hardwood, dry bio cv
62	softwood, dry bio cv	222	softwood, dry bio cv
63	hardwood, sp wood pr	223	hardwood, sp wood pr
64	softwood, sp wood pr	224	softwood, sp wood pr

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**Table 3.12:** Disposition of HWP C for all years. This table shows the fate of all carbon removed from the ecosystem by harvesting.

Inventory year	Emitted with energy capture <sup>a</sup> (metric ton CO <sub>2</sub> e)	Emitted without energy capture <sup>a</sup> (metric ton CO <sub>2</sub> e)	Products in use (metric ton)	SWDS (metric ton) <sup>d</sup>	Total in HWP pool <sup>b</sup> (metric ton)
1953	6,891,031	273,669	4,082,670	174,153	4,256,823
1954	15,053,434	1,051,893	8,527,602	647,578	9,175,180
1955	22,684,395	2,330,436	12,267,929	1,355,112	13,623,041
1956	30,880,865	4,089,680	16,061,917	2,233,344	18,295,260
1957	38,868,846	6,313,918	19,470,968	3,238,646	22,709,615
1958	46,155,052	8,960,070	22,249,512	4,318,278	26,567,790
1959	53,888,213	12,007,054	25,152,491	5,445,097	30,597,588
1960	61,908,899	15,456,377	28,083,244	6,615,140	34,698,385
1961	68,908,943	19,339,671	30,476,403	7,562,884	38,039,287
1962	76,188,335	23,646,750	32,924,462	8,515,737	41,440,199
1963	83,736,173	28,343,512	35,424,775	9,478,795	44,903,570
1964	91,177,723	33,391,140	37,757,803	10,446,638	48,204,442
1965	98,639,713	38,753,118	40,019,110	11,413,319	51,432,429
1966	105,822,355	44,395,962	42,035,837	12,372,392	54,408,228
1967	112,646,615	50,272,767	43,785,306	13,309,647	57,094,953
1968	119,544,459	56,365,673	45,538,932	14,230,062	59,768,994
1969	127,000,998	62,677,627	47,587,359	15,147,112	62,734,471
1970	132,479,288	69,192,814	49,549,702	16,055,183	65,604,885
1971	137,481,062	74,903,161	51,033,318	17,257,251	68,290,569
1972	142,728,215	80,779,096	52,686,952	18,452,296	71,139,248
1973	148,815,569	86,844,681	54,981,773	19,667,183	74,648,956
1974	153,430,435	93,097,232	56,837,890	20,889,088	77,726,978
1975	157,840,009	99,528,973	58,439,770	22,103,577	80,543,347
1976	161,902,741	106,117,037	59,666,272	23,291,313	82,957,585
1977	166,337,625	112,856,738	61,255,419	24,460,779	85,716,198
1978	171,671,989	119,748,784	62,631,390	25,621,481	88,252,871
1979	176,869,288	126,741,454	63,917,879	26,730,745	90,648,625
1980	181,420,269	133,799,370	64,718,902	27,772,594	92,491,496
1981	185,734,929	139,622,937	65,461,476	29,013,883	94,475,359
1982	189,319,821	145,432,907	65,664,220	30,194,535	95,858,755
1983	192,450,802	151,196,279	65,577,159	31,301,907	96,879,066
1984	198,171,223	156,905,582	66,399,863	32,394,197	98,794,060
1985	203,995,137	162,555,323	67,290,841	33,497,274	100,788,115
1986	210,355,342	168,155,980	68,493,821	34,627,243	103,121,064
1987	216,666,465	173,726,546	70,081,996	35,813,097	105,895,093
1988	223,397,462	179,280,760	71,906,600	37,052,608	108,959,208
1989	230,404,995	184,838,437	73,853,749	38,356,749	112,210,499
1990	237,574,946	190,415,212	75,520,876	39,722,556	115,243,431
1991	244,895,926	196,959,966	77,473,338	40,634,954	118,108,293
1992	250,878,774	203,542,350	78,562,093	41,550,907	120,112,999
1993	256,413,854	210,108,459	79,375,258	42,462,496	121,837,754
1994	260,304,742	216,613,008	80,421,062	43,362,771	123,783,832
1995	263,918,164	223,094,689	81,164,766	44,306,099	125,470,865
1996	268,124,172	229,553,192	81,247,339	45,285,479	126,532,818
1997	272,310,269	235,877,602	81,410,881	46,207,096	127,617,977
1998	276,720,356	242,049,732	81,797,320	47,097,703	128,895,023
1999	280,596,188	248,045,757	81,908,178	47,953,291	129,861,470

2000	284,541,705	253,869,331	82,130,799	48,790,927	130,921,726
2001	288,045,882	259,808,778	82,241,234	49,412,888	131,654,122
2002	291,831,032	265,641,053	81,819,797	49,999,510	131,819,307
2003	295,804,063	271,249,385	81,545,276	50,587,444	132,132,719
2004	299,720,828	276,741,695	81,314,720	51,136,954	132,451,674
2005	303,772,799	282,050,821	81,201,884	51,681,421	132,883,306
2006	307,855,381	287,175,842	81,152,769	52,226,577	133,379,346
2007	311,689,795	292,114,144	81,040,800	52,770,394	133,811,194
2008	318,040,086	296,867,228	80,791,611	53,309,501	134,101,112
2009	323,393,711	301,441,131	80,349,089	53,841,855	134,190,944
2010	326,665,185	305,825,332	79,462,483	54,349,938	133,812,421
2011	331,322,580	310,071,852	78,946,397	54,871,235	133,817,631
2012	336,558,687	314,192,400	78,598,005	55,403,746	134,001,752
2013	341,696,621	318,193,150	78,252,143	55,941,878	134,194,021
2014	347,532,813	322,097,173	78,090,983	56,496,104	134,587,087
2015	352,468,670	325,894,689	77,735,969	57,048,339	134,784,308
2016	358,093,994	329,612,449	77,560,493	57,615,008	135,175,501
2017	363,667,094	333,252,273	77,385,155	58,189,749	135,574,903
2018	369,268,532	336,821,972	77,227,502	58,773,007	136,000,509
2019 <sup>c</sup>	374,965,755	340,328,994	77,101,619	59,365,516	136,467,135

<sup>a</sup> HWP C emissions were converted to reporting units in CO2 equivalents.

<sup>b</sup> Sum of Products in use and SWDS.

<sup>c</sup> Although no records are entered for 2018, the cumulative dispositions from prior year harvests are estimated for 2018.

<sup>d</sup> Previous report did not move harvested carbon to SWDS pool until 2 years following harvest, rather than 1 year following harvest in this report. Lag times built into the original model were modified in this data update to allow for better quality assurance of calculations.

**Table 3.13:** Average annual HWP C flux by owner and pool for 2018 California AB 1504 ten-year reporting intervals and the 2018 reporting period.

	2002-2012	2003-2013	2004-2014	2005-2015	2006-2016	2007-2017	2008-2018	2009-2019	2018 reporting period average
	<i>Metric tons CO<sub>2</sub>e</i>								
<b>Private:</b>									
Products in use	-130,536	-203,029	-233,230	-355,857	-407,942	-473,977	-473,251	-422,768	-337,574
SWDS	1,490,550	1,482,637	1,488,310	1,493,463	1,503,615	1,514,333	1,529,147	1,547,245	1,506,162
<b>Total</b>	<b>1,360,014</b>	<b>1,279,608</b>	<b>1,255,080</b>	<b>1,137,605</b>	<b>1,095,672</b>	<b>1,040,356</b>	<b>1,055,896</b>	<b>1,124,477</b>	<b>1,168,589</b>
<b>USFS:</b>									
Products in use	-990,855	-952,454	-905,258	-876,258	-877,111	-853,459	-819,595	-756,479	-878,934
SWDS	459,847	450,119	446,222	443,826	441,161	440,429	441,142	444,273	445,877
<b>Total</b>	<b>-531,008</b>	<b>-502,334</b>	<b>-459,036</b>	<b>-432,432</b>	<b>-435,951</b>	<b>-413,031</b>	<b>-378,453</b>	<b>-312,206</b>	<b>-433,056</b>
<b>BLM:</b>									
Products in use	-13,810	-13,235	-12,257	-11,849	-11,130	-10,608	-12,732	-13,578	-12,400
SWDS	3,799	3,714	3,713	3,712	3,745	3,783	3,672	3,580	3,715
<b>Total</b>	<b>-10,012</b>	<b>-9,521</b>	<b>-8,544</b>	<b>-8,136</b>	<b>-7,386</b>	<b>-6,825</b>	<b>-9,060</b>	<b>-9,999</b>	<b>-8,685</b>
<b>State and other public:</b>									
Products in use	-41,041	-32,381	-22,163	-16,278	-10,117	7,842	14,072	20,195	-9,984
SWDS	14,625	14,093	14,062	14,116	14,384	15,534	16,468	17,546	15,104
<b>Total</b>	<b>-26,416</b>	<b>-18,289</b>	<b>-8,101</b>	<b>-2,162</b>	<b>4,267</b>	<b>23,376</b>	<b>30,541</b>	<b>37,741</b>	<b>5,120</b>
<b>Tribal:</b>									
Products in use	-5,081	-6,382	-9,129	-10,593	-10,867	-10,202	-15,411	-18,183	-10,731
SWDS	12,732	12,729	12,714	12,752	12,854	13,019	12,852	12,692	12,793
<b>Total</b>	<b>7,651</b>	<b>6,346</b>	<b>3,585</b>	<b>2,159</b>	<b>1,987</b>	<b>2,817</b>	<b>-2,560</b>	<b>-5,491</b>	<b>2,062</b>
<b>All owners:</b>									
Products in use	-1,181,323	-1,207,482	-1,182,037	-1,270,835	-1,317,168	-1,340,403	-1,306,917	-1,190,813	-1,249,622
SWDS	1,981,553	1,963,293	1,965,021	1,967,870	1,975,758	1,987,097	2,003,281	2,025,336	1,983,651
<b>Total</b>	<b>800,230</b>	<b>755,811</b>	<b>782,985</b>	<b>697,034</b>	<b>658,590</b>	<b>646,693</b>	<b>696,364</b>	<b>834,522</b>	<b>734,029</b>

Note that HWP 2002-2012 through 2009-2019 correspond with FIA re-measurement cycles of plots initially measured in 2001 and re-measured in 2011 through plots initially measured in 2008 and re-measured in 2018; all time periods recalculated to reflect revisions in end-use ratios, board foot to cubic foot conversions for 2013-2018, and model code to correct previous errors that resulted in approximately 1% of harvested carbon to disappear from HWP pools. Previous reports also did not move harvested carbon to SWDS pool until 2 years following harvest, rather than 1 year following harvest in this report. Lag times built into the original model were modified allow for better quality assurance of calculations.

**Table 3.14:** Average annual timber harvest between 2001 to 2018 weighted by the proportion of FIA plots remeasured each year.

Harvest year	Harvest (mbf Scribner)	Timber product output (MT C)	Weight value	Weight value	Weighted harvest values	
					mbf Scribner	MT C
2001	1,751,800	2,788,119	1/88	0.011	19,907	31,683
2002	1,838,753	2,926,511	2/88	0.023	41,790	66,512
2003	1,812,713	2,885,066	3/88	0.034	61,797	98,355
2004	1,875,287	2,984,658	4/88	0.045	85,240	135,666
2005	1,889,454	3,007,205	5/88	0.057	107,355	170,864
2006	1,774,600	2,824,407	6/88	0.068	120,995	192,573
2007	1,776,300	3,318,111	7/88	0.080	141,297	263,941
2008	1,497,513	2,797,340	8/88	0.091	136,138	254,304
2009	915,095	1,709,389	8/88	0.091	83,190	155,399
2010	1,302,764	2,433,550	8/88	0.091	118,433	221,232
2011	1,464,641	2,735,935	8/88	0.091	133,149	248,721
2012	1,437,180	2,684,638	7/88	0.080	114,321	213,551
2013	1,767,033	3,049,488	6/88	0.068	120,480	207,920
2014	1,494,437	2,579,050	5/88	0.057	84,911	146,537
2015	1,703,188	2,939,306	4/88	0.045	77,418	133,605
2016	1,687,376	2,912,018	3/88	0.034	57,524	99,273
2017	1,695,956	2,926,825	2/88	0.023	38,544	66,519
2018	1,724,957	2,976,874	1/88	0.011	19,602	33,828
					Weighted average (sum of weighted values)	
					1,562,092	2,740,482