

Oregon's Forest Resources, 2001-2010: Online Supplement to Ten Year Forest Inventory and Analysis Report

FIA Methods and Design

Field Design and Sampling Method

The Pacific Northwest Research Station's Forest Inventory and Analysis unit (PNW-FIA) implemented the new annual inventory across all ownerships in Oregon in 2001. The overall sampling design was a significant change from that of previous periodic inventories; the differences will be discussed more fully below.

In the annual inventory system for the Pacific Northwest (coastal Alaska, Washington, Washington, and California), the objective is to measure approximately 10 percent of the annual plots across an entire state each year. This annual subsample is referred to as a panel. The plots measured in a single panel are selected to ensure systematic coverage within each county, spanning both publicly and privately owned forests, and including lands reserved from industrial wood production such as national parks, wilderness areas, and natural areas. Estimates of forest attributes can be derived from measurements of a single panel for areas as small as a survey unit or ecosection; however, such estimates are often imprecise because one panel represents only 10 percent of the full inventory sample. More precise statistics are obtained by combining data from multiple panels. Estimates from sampled plots in the ten panels measured 2001-2010 were combined to produce the statistics in this report. After all panels are initially measured (2010), from 2011 forward each panel is remeasured approximately every 10 years.

The FIA program collects information in three phases. In phase 1, a sample of points is interpreted from remotely sensed imagery, either aerial photos or satellite data, and the landscape is stratified into meaningful groupings, such as forested and nonforested areas, ecologically similar regions, and forest types. In phase 2, field plots are measured for a variety of indicators that describe forest composition, structure, and the physical geography of the landscape. Phase 2 plots are spaced at approximate 3-mile intervals on a hexagonal grid throughout the forest. In phase 3, a 1/16 sample of phase 2 plots is measured to assess forest health/ecosystem indicators. Phase 3 is currently being modified to be a more flexible system incorporating different levels of effort in response to client needs and budget.

Phase 1

The goal of phase 1 is to reduce the variance associated with estimates of forest land area and volume by dividing samples into similar groups. Digital imagery collected by remote-sensing satellites is classed into a few similar strata (such as forest or nonforest, or proportion of forest that is nonsampled) by means of standard techniques for image classification, and the total area of each of these strata is used to assign a representative acreage to each sample plot. Source data were derived from digitized 1940s Forest Survey forest type maps (Harrington 2003) as well as percent tree canopy density derived from Landsat Thematic Mapper (30-m resolution) imagery collected in 2001 (Homer et al., 2007). The resulting classes, or strata (ranging from entirely forested to entirely nonforested, for example), are combined with other forest attributes likely to improve stratification effectiveness, such as owner class. For this report, separate strata are defined for national forest lands outside wilderness that were sampled at a greater density of plots than the FIA standard of 1 plot per 6,000 acres. The resulting strata are collapsed as

necessary to ensure that at least ten plots are in each stratum. Stratified estimation is applied by assigning each plot to one of these collapsed strata and by calculating the area of each collapsed stratum in each estimation unit. The estimates from stratified data are usually more precise than those from unstratified estimates.

Phase 2

The nationally standardized plot installed at each forested phase 2 location is a cluster of four subplots spaced 120 feet apart (fig. 1). Subplot 1 is in the center, with subplots 2 through 4 uniformly distributed radially around it. Each point serves as the center of a 1/24-acre circular subplot used to sample all trees at least 5.0 inches in diameter at breast height (d.b.h.). A 1/300-acre microplot, with its center located just east of each subplot center, is used to sample live trees 1.0 to 4.9 inches d.b.h., as well as to count live seedlings (trees less than 1.0 inch d.b.h.). On all lands in Oregon, a ¼-acre “macroplot” (58.9-foot radius) around each subplot center is used to tally trees larger than 24 inches d.b.h in eastern Oregon and tally trees larger than 30 inches d.b.h in western Oregon. On national forests in Oregon, a hectare plot (a 185.1-foot fixed-radius plot centered on subplot 1) was also established to tally trees larger than 32 inches d.b.h. in the eastern part of the Northwest Forest Plan area and larger than 48 inches d.b.h. in the western part of the Northwest Forest Plan area (these data were not used in this report).

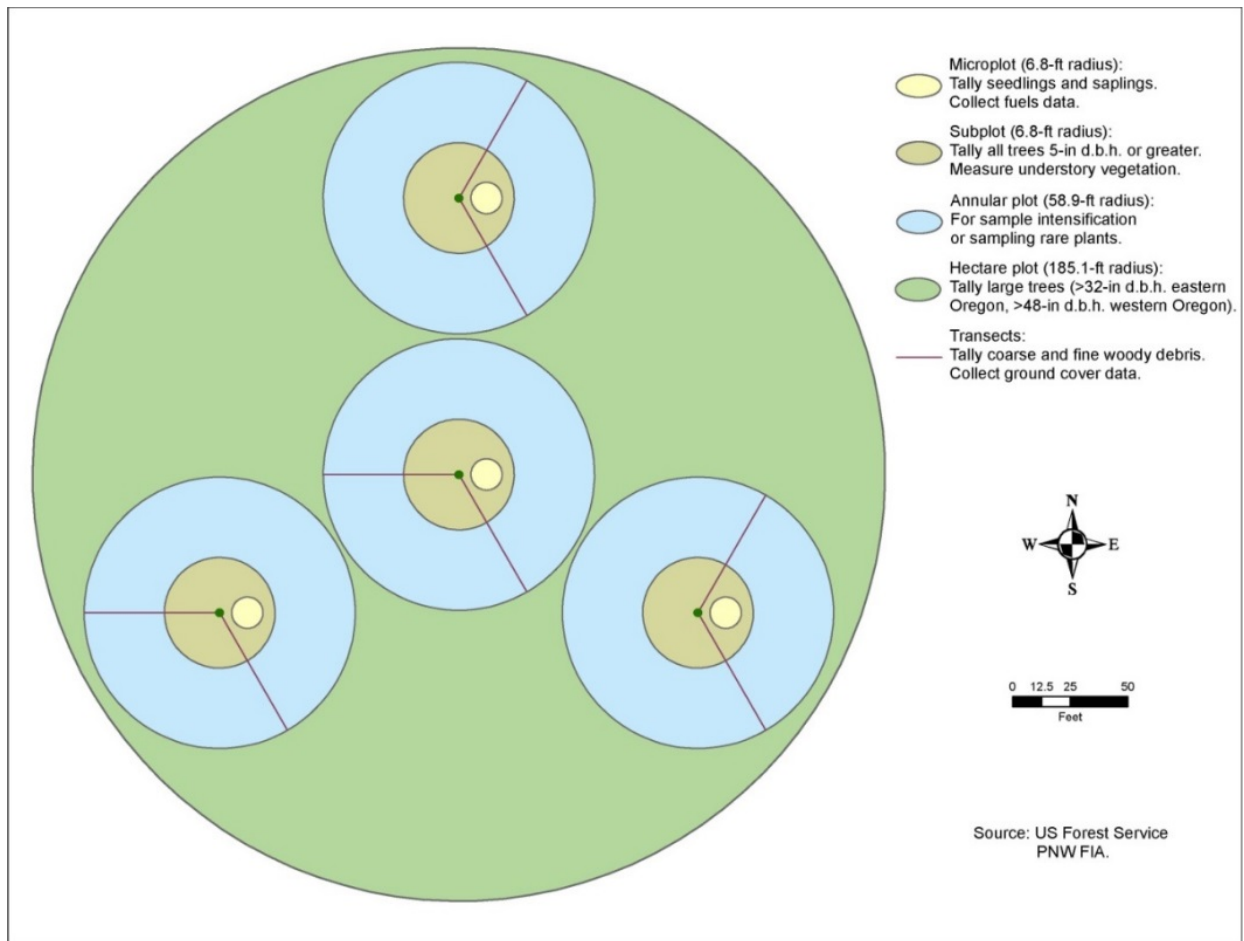


Figure 1 – The Forest Inventory and Analysis plot design used in Oregon, 2001-2010.

All phase 2 plots classified through aerial photography as possibly being forested are established in the field without regard to land use or land cover. Field crews delineate areas within the plot that are comparatively less heterogeneous than the plot as a whole with regard to reserved status, owner group, forest type, stand size class, regeneration status, and tree density; these areas are described as condition classes. The process of delineating these condition classes on a fixed-radius plot is called mapping. All measured trees are assigned to the mapped condition class in which they are located.

On phase 2 plots, crews assess physical characteristics such as slope, aspect, and elevation; stand characteristics such as age, size class, forest type, disturbance, site productivity, and regeneration status; and tree characteristics such as tree species, diameter, height, damages, decay, and vertical crown dimensions. They also collect general descriptive information such as soil depth, proximity to roads, and the geographic position of the plot in the larger landscape. In Oregon, crews also assess regional variables: height and cover of understory species, the structure of live and dead fuels, and the structure and composition of downed wood (see “Core, Core-Optional, and Regional Variables” section below).

The FIA Program sampled 5,180 forested phase 2 plots in Oregon between 2001 and 2010 on the standard national plot grid. Estimates of timber volume and other forest attributes were derived from tree measurements and classifications made at each plot. Volumes for individual tally trees were computed with equations for each of the major species in Oregon. Estimates of growth, removals, and mortality for non-national-forest timberland were determined from the remeasurement of 398 forested sample plots established in previous inventories. Estimates of growth, removals, and mortality for national forest land were determined from the remeasurement of forested sample plots first measured by the Pacific Northwest Region of the National Forest System (Region 6) between 1993 and 1997 with the regional CVS design (Max et al. 1996), then remeasured between 1999 and 2007.

Phase 3 Ecosystem Indicators

More extensive forest health measurements were collected in a 16-week period during the growing season (when most plants are in full leaf and many are flowering) on a subset (1/16) of phase 2 sample locations. At these phase 3 plots, measurements were taken on tree crowns, soils, lichens, down woody material, and (in some years) understory vegetation in addition to the phase 2 variables. One forest health measurement, ozone injury, was conducted on a separate grid with all 65 ozone plots measured annually. The relatively small number of phase 3 samples is intended to serve as a broad-scale detection monitoring system for forest health problems.

Budget uncertainties in 2011 resulted in the cessation of phase 3 data collection nationally. FIA units and clients across the nation have expressed interest in re-evaluating our Forest Health program and working together to shape future directions. Therefore, the phase 3 protocols are evolving into a more flexible system that is more fully integrated with the FIA core program.

Core, Core-Optional, and Regional Variables

The majority of FIA variables collected in Oregon are identical to those collected by FIA elsewhere in the United States—these are national “core” or “core optional” variables (as the name suggests, collection of core optional variables is optional, but, if collected, they must be collected in the same way everywhere). A number of other variables are unique to PNW-FIA. These are “regional” variables and include such items as down woody material and understory vegetation on Phase 2 plots (not to be confused with down woody and understory vegetation on Phase 3 plots, which are measured using a slightly different protocol), as well as insect and disease damage, a record of previous disturbance on the plot, and measurements for special studies. Core-optional protocols for understory vegetation and down woody material were

implemented in 2011; regional data are comparable enough to enable future analyses of change in these attributes.

Downed Woody Material

Biomass and carbon of downed wood are calculated using species specific density reduction factors for each decay class from Appendix 2 of Harmon et al. 2008. Current biomass and carbon estimates for DWM coarse and fine wood components will not be comparable with values reported previously in Donnegan et al. 2008, as at that time biomass and carbon of downed wood were calculated using general density reduction factors from Table 4 of Waddell 2002.

Data Processing

The data used for this report are stored in the FIA National Information Management System (NIMS). NIMS provides a means to input, edit, process, manage, and distribute FIA data. It includes a process for data loading, a national set of edit checks to ensure data consistency, an error-correction process, approved equations and algorithms, code to compile and calculate attributes, a table report generator, and routines to populate the presentation database. It applies numerous algorithms and equations to calculate, for example, stocking, forest type, stand size, volume, and biomass. Estimates and associated statistics are generated with scripts and equations based on county areas and stratum weights developed outside of NIMS. Additional FIA statistical design and estimation techniques are further reviewed in Bechtold and Patterson (2005).

Statistical Estimates

Many of the tables in our online supplement include standard errors (SE). These standard errors account for the fact that we measured only a small sample of the forest (thereby producing a sample-based estimate) and not the entire forest (which is the population parameter of interest). Because of small sample sizes or high variability within the population, some estimates can be very imprecise. The reader is encouraged to take the standard error into account when drawing any inference. One way to consider this type of uncertainty is to construct confidence intervals. Customarily, 66- or 95-percent confidence intervals are used. A 95-percent confidence interval means that one can be 95 percent confident that the interval contains the true population parameter of interest. For more details about confidence intervals, please consult Moore and McCabe (1989) or other statistical literature.

It is relatively easy to construct approximate 66- or 95-percent confidence intervals by multiplying the SE by 1.0 (for 66-percent confidence intervals) or 1.96 (for 95-percent confidence intervals) and subtracting and adding this to the estimate itself. For example, in table A1-1 of appendix 1 we estimated the total timberland in Oregon to be 24,083,400 acres with a standard error of 172,300. A 95-percent confidence interval for the total timberland area ranges from 24,255,700 to 23,911,100 acres.

The reader may want to assess whether or not two estimates are significantly different from each other. The statistically correct way to address this is to estimate the SE of the difference of two estimates, and either construct a confidence interval or use the equivalent z-test. However, this requires the original inventory data. It is often reasonable to assume that two estimates are nearly

uncorrelated. For example, plots usually belong to one and only one owner. The correlation between estimates for different owners will be very small. If both estimates can be assumed to be nearly uncorrelated, the SE of the difference can be estimated by:

$$SE_{Difference} = \sqrt{SE_{Estimate 1}^2 + SE_{Estimate 2}^2}$$

Using the SE of the difference, a confidence interval of the difference can be constructed with this method.

If two estimates are based on data that occur on the same plot at the same time, the above equation should not be used. For example, appendix 1 table A1-15 contains estimates of tree volume by diameter class. If the reader wants to compare the volume of trees in the diameter class 9.0 to 10.9 d.b.h. (6.60 billion cubic feet) with that of trees in the diameter class 21.0 to 22.9 d.b.h. (6.16 billion cubic feet), the covariance between the estimates is not zero and this equation should not be used.

All estimates—means, totals and their associated SE—are based on the poststratification methods described by Bechtold and Patterson (2005).

Access Denied, Hazardous, or Inaccessible Plots

Although every effort was made to visit all field plots that were entirely or partially forested, some were not sampled for a variety of reasons. Field crews may have been unable to obtain permission from the landowner to access the plot (“denied access”), and there were some plots

that were impossible for crews to safely reach or access (“hazardous/inaccessible”). Some private landowners deny access to their land, but privately owned plots usually are not as hazardous or inaccessible as plots on public lands. Although permission to visit public lands is almost always granted, some public land lies in higher elevation areas that can be very dangerous or impossible to reach.

This kind of missing data can introduce bias into the estimates if the nonsampled plots tend to be different from the entire population. Plots that are obviously nonforested (based on aerial photos) are rarely visited, and therefore the proportion of denied-access, hazardous, or inaccessible plots is significantly smaller than it is for forested plots.

The poststratification approach outlined in Bechtold and Patterson (2005) removes nonsampled plots from the sample. Estimates are adjusted for plots that are partially nonsampled by increasing the estimates by the nonsampled proportion within each stratum. To reduce the possible bias introduced by nonsampled plots, we delineated six broad strata groups: census water, forested reserved public land, forested unreserved public land, nonforested public land, forested private land, and nonforested private land. Some of these six broad strata groups were further divided into smaller strata to reduce the variance.

Timber Products Output Survey

The timber products information presented in this report was based on a census of Oregon’s timber processors and out-of-state processors that use Oregon’s timber. The census was conducted by the University of Montana’s Bureau of Business and Economic Research in

cooperation with PNW-FIA. Through a written questionnaire or a phone interview, forest products manufacturers provided the following information for each of their facilities: plant production capacity and employment; volume of raw material received, by county and ownership; species of timber received; finished product volumes, types, sales value, and market locations; and utilization and marketing of manufacturing residue. This survey is designed to determine the size and composition of Oregon's timber harvest and forest products industry, the industry's use of forest resources, and the generation and disposition of wood residues.

Periodic Versus Annual Inventories

The PNW FIA Program began fieldwork for the fifth inventory of Oregon in 2001. This was the first inventory that used the annual inventory system, in which 1/10 of all forested plots (referred to as one panel) were visited each year. The first statewide panel of field plots was completed in 2001. By 2010, all field plots in the state had been measured, prompting production of another congressionally mandated 5-year analysis of Oregon's forest resources as an update to the previous report (Donnegan et al. 2008).

Data from new inventories are often compared with those from earlier inventories to determine trends in forest resources. However, for the comparisons to be valid, the procedures used in the two inventories should ideally be identical. Previous inventories of Oregon's forest resources were completed in 1964, 1976, 1992, and 1998. These were periodic inventories in which all timberland plots in the state (outside of national forests and reserved areas such as national parks) were visited within a 2- or 3-year window.

As a result of our ongoing efforts to improve the efficiency and reliability of the inventory and to conform to the national annual inventory design adopted by all FIA units, several changes in procedures and definitions have been made since the last Oregon inventory in 1998. These changes included an increase in plot density of about 18 percent, a new plot footprint (changing from a five-subplot configuration spread over about 2.5 acres, to a four-subplot configuration spread over about 2 acres) (fig. 2), a new set of nationally consistent measurement protocols, a plot visitation schedule that calls for sampling of 10 percent of all forested plots in the state each year, and changes in timberland classification protocols. Although these changes will have little impact on statewide estimates of forest area, timber volume, and tree biomass, they have significantly affected estimates of timberland area (see below) and may affect plot classification variables such as forest type and stand size class, especially for estimates at the county level.

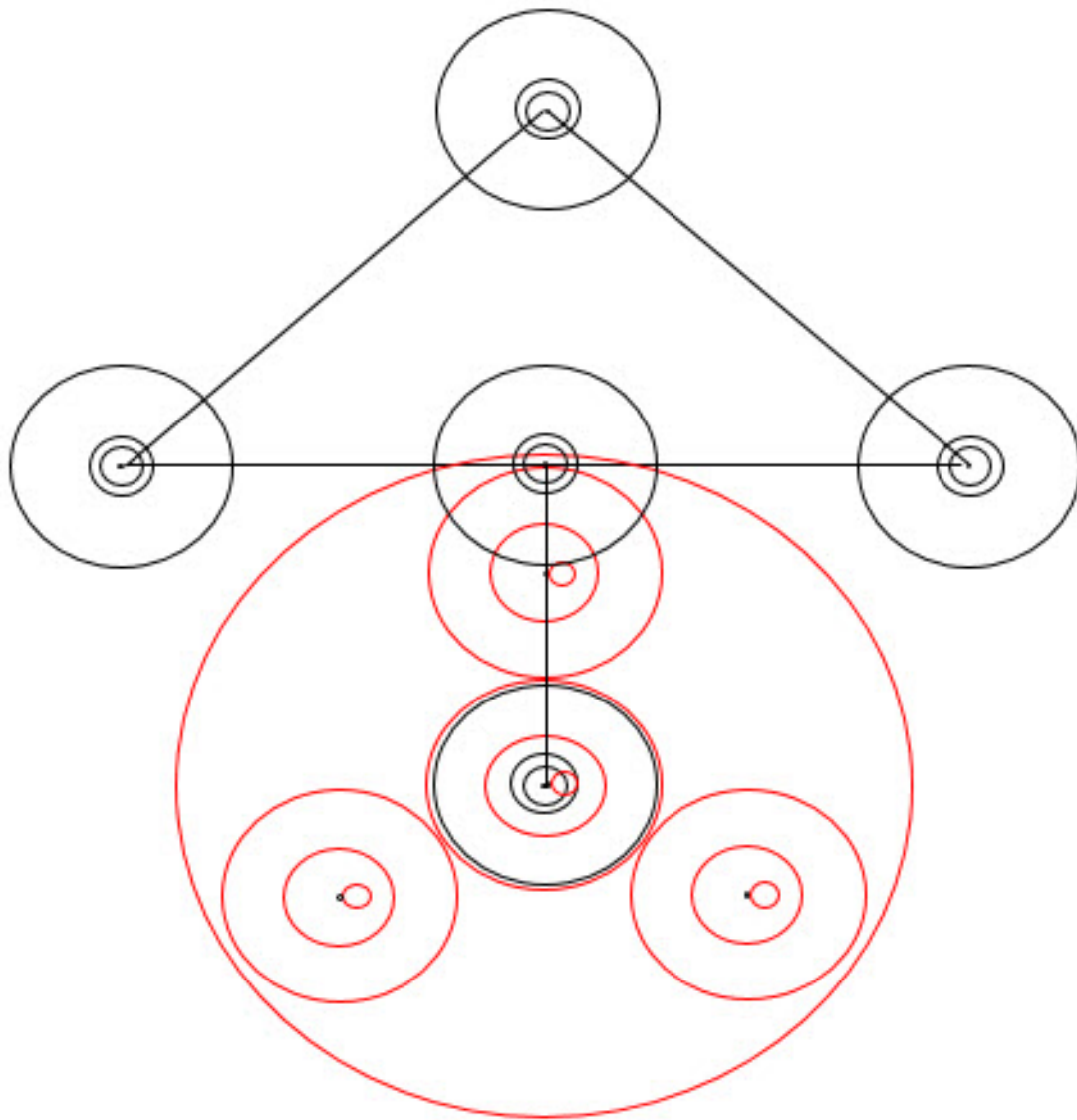


Figure 2 – Relationship of periodic (upper, black figure) and annual (lower, red figure) inventory plot designs. Note that only one subplot center overlaps for both designs.

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Appendix 2 – Additional summary data tables

The values presented here should not be directly compared to the previous report (Donnegan et al. 2008) or datasets to assess change in forest resources over the last five years; the data presented here are a continuation of the full 10-year cycle following publication of the first Oregon's Forest Resources report. The first 10-year cycle is now complete for all forested plots measured from 2001 to 2010. The following tables contain basic information about the forest resources of Oregon as they relate to the discussions of current forest issues and basic resource information presented in this report. These tables aggregate data to a variety of levels, including county, ecosection, owner group, and forest type, allowing Pacific Northwest Research Station Forest Inventory and Analysis (FIA) inventory results to be applied at various scales and used for various analyses. Data are also available for download in non-summarized form at www.fia.fs.fed.us.

The national FIA Web site (<http://www.fia.fs.fed.us/tools-data/default.asp>) contains a tool for querying the annual data from all states and generating custom tables or maps. Some of the tables in this appendix contain summaries of regional variables; data for regional variables are currently not included in the national FIA database (FIADB). Additional information on regional variables, field manuals, and local contact information is available at:

<http://www.fs.fed.us/pnw/rma/index.php>. 51 of the 2001-2010 tables were included in the main report. These additional 89 summary data tables are provided here as an online supplement.

Please note that information in the tables presented and in those generated from the FIADB may differ. As new data are added each year to FIADB, any tables generated from it will be based on the current full set of data in FIADB (e.g., 2003-2012, 2004-2013, etc.), whereas tables in this

publication contain data from only 2001-2010. The user can take a snapshot of data from FIADB by selecting the desired years and generating tables that are similar, but probably not identical, to those presented here owing to quality assurance updates.

List of Tables:

Area

Table A2-1—Number of Forest Inventory and Analysis plots measured in Oregon from 2001 to 2010, by sample status, land class, and ownership group

Table A2-2—Area of sampled land and water, by land status and ownership group, Oregon, 2001-2010

Table A2-3—Area of forest land, by ownership and land status, Oregon, 2001-2010

Table A2-4—Area of forest land, by forest type group and land status, Oregon, 2001-2010

Table A2-5—Area of forest land, by forest type group and site productivity class, Oregon, 2001-2010

Table A2-6—Area of forest land, by forest type group and stand size class, Oregon, 2001-2010

Table A2-7—Area of forest land by ecological section and land status, Oregon, 2001-2010

Table A2-8—Area of forest land, by forest type group and stand origin, Oregon, 2001-2010

Table A2-9—Area of timberland, by forest type group and stand size class, Oregon, 2001-2010

Number of live trees

Table A2-10—Number of dead trees on forest land, by county and land status, Oregon, 2001-2010

Table A2-11—Number of live trees on forest land, by county and broad species group, Oregon, 2001-2010

Table A2-12—Number of dead trees on forest land, by county and broad species group, Oregon, 2001-2010

Table A2-13—Number of live trees on forest land, by forest type group and ownership group, Oregon, 2001-2010

Table A2-14—Number of dead trees on forest land, by forest type group and ownership group, Oregon, 2001-2010

Table A2-15—Average number of live trees per acre on forest land, by forest type group and ownership group, Oregon, 2001-2010

Table A2-16—Average number of dead trees per acre on forest land, by forest type group and ownership group, Oregon, 2001-2010

Tree Volume

Table A2-17—Net cubic volume of dead trees on forest land, by county and land status, Oregon 2001-2010

Table A2-18—Net cubic volume of live trees on forest land, by county and broad species group, Oregon, 2001-2010

Table A2-19—Net volume of dead trees on forest land, by forest type group and stand size class, Oregon 2001-2010

Table A2-20—Net volume of dead trees on forest land, by forest type group and ownership group, Oregon 2001-2010

Table A2-21—Net volume of live trees on forest land, by species group and ownership group, Oregon, 2001-2010

Table A2-22—Net volume of dead trees on forest land, by species group and ownership group, Oregon 2001-2010

Table A2-23—Net volume of dead trees on forest land, by species group and diameter class, Oregon 2001-2010

Table A2-24—Net volume of live trees on forest land, by forest type group and stand origin, Oregon, 2001-2010

Table A2-25—Net volume of dead trees on forest land, by forest type group and stand origin, Oregon 2001-2010

Table A2-26—Net volume of live trees on forest land, by forest type group and stand age class, Oregon, 2001-2010

Table A2-27—Net volume of dead trees on forest land, by forest type group and stand age class, Oregon 2001-2010

Table A2-28—Average net volume per acre of live trees on forest land, by forest type group and stand age class, Oregon, 2001-2010

Table A2-29—Average net volume per acre of dead trees on forest land, by forest type group and stand age class, Oregon 2001-2010

Table A2-30—Average net volume of live trees on forest land, by forest type group and ownership group, Oregon, 2001-2010

Table A2-31—Average net volume per acre of dead trees on forest land, by forest type group and ownership group, Oregon 2001-2010

Table A2-32—Net cubic volume of sawtimber-sized trees on timberland, by species group and ownership group, Oregon, 2001-2010

Table A2-33—Net boardfoot volume (Scribner rule) of sawtimber trees on timberland, by county and ownership group, Oregon, 2001-2010

Table A2-34—Net boardfoot volume (Scribner rule) of sawtimber trees on timberland, by forest type group and ownership group, Oregon, 2001-2010

Table A2-35—Net boardfoot volume (Scribner rule) of sawtimber trees on timberland, by forest type group and stand size class, Oregon, 2000-2010

Table A2-36—Net boardfoot volume (Scribner rule) of sawtimber trees on timberland, by species group and diameter class, Oregon, 2001-2010

Table A2-37—Net boardfoot volume (International ¼-inch rule) of sawtimber trees on timberland, by species group and diameter class, Oregon, 2001-2010

Table A2-38—Net boardfoot volume (International ¼-inch rule) of sawtimber trees on timberland, by species group and ownership group, Oregon, 2001-2010

Table A2-39—Average net boardfoot volume per acre (Scribner rule) of sawtimber trees on timberland, by forest type group and ownership group, Oregon, 2001-2010

Table A2-40—Average net boardfoot volume per acre (Scribner rule) of sawtimber trees on timberland, by forest type group and stand size class, Oregon, 2001-2010

Biomass

Table A2-41—Aboveground biomass of live trees on forest land, by forest type group and ownership group, Oregon, 2001-2010

Table A2-42—Aboveground biomass of dead trees on forest land, by forest type group and ownership group, Oregon, 2001-2010

Table A2-43—Aboveground biomass of live trees on forest land, by forest type group and stand size class, Oregon, 2001-2010

Table A2-44—Aboveground biomass of dead trees on forest land, by forest type group and stand size class, Oregon, 2001-2010

Table A2-45—Aboveground biomass of live trees on forest land, by forest type group and stand age class, Oregon, 2001-2010

Table A2-46—Aboveground biomass of dead trees on forest land, by forest type group and stand age class, Oregon, 2001-2010

Table A2-47—Aboveground biomass of live trees on forest land, by species group and diameter class, Oregon, 2001-2010

Table A2-48—Aboveground biomass of dead trees on forest land, by species group and diameter class, Oregon, 2001-2010

Table A2-49—Aboveground green biomass of live trees on forest land, by ownership and land status, Oregon, 2001-2010

Table A2-50—Aboveground green biomass of live trees on forest land, by species group and diameter class, Oregon, 2001-2010

Table A2-51—Average aboveground biomass per acre of live trees on forest land, by forest type group and stand age class, Oregon, 2001-2010

Table A2-52—Average aboveground biomass per acre of dead trees on forest land, by forest type group and stand age class, Oregon, 2001-2010

Carbon

Table A2-53—Aboveground carbon mass of live trees on forest land, by forest type group and ownership group, Oregon, 2001-2010

Table A2-54—Aboveground carbon mass of dead trees on forest land, by forest type group and ownership group, Oregon, 2001-2010

Table A2-55 —Aboveground carbon mass of live trees on forest land, by forest type group and stand size class, Oregon, 2001-2010

Table A2-56—Aboveground carbon mass of dead trees on forest land, by forest type group and stand size class, Oregon, 2001-2010

Table A2-57—Aboveground carbon mass of live trees on forest land, by species group and diameter class, Oregon, 2001-2010

Table A2-58—Aboveground carbon mass of dead trees on forest land, by species group and diameter class, Oregon, 2001-2010

Table A2-59—Average aboveground carbon mass per hectare of live trees on forest land, by forest type group and stand size class, Oregon, 2001-2010

Table A2-60—Average aboveground carbon mass per hectare of dead trees on forest land, by forest type group and stand size class, Oregon, 2001-2010

Down Wood

Table A2-61—Biomass of down wood on forest land, by forest type group and down wood diameter class, Oregon, 2001-2010

Table A2-62—Carbon mass of down wood on forest land, by forest type group and down wood diameter class, Oregon, 2001-2010

Table A2-63—Number of pieces of down wood on forest land, by forest type group and down wood diameter class, Oregon, 2001-2010

Table A2-64—Carbon mass of down wood on forest land, by forest type group, ownership group, and land status, Oregon, 2001-2010

Table A2-65—Carbon mass of down wood on forest land, by county and land status, Oregon, 2001-2010

Table A2-66—Average biomass per acre of down wood on forest land, by forest type group and down wood diameter class, Oregon, 2001-2010

Table A2-67—Average carbon mass per hectare of down wood on forest land, by forest type group and down wood diameter class, Oregon, 2001-2010

Table A2-68—Average number of pieces per acre of down wood on forest land, by forest type group and down wood diameter class, Oregon, 2001-2010

Combined live and dead trees and dead wood (standing dead trees and down wood)

Table A2-69—Volume of live trees, dead trees, and down wood on forest land, by stand age class, Oregon, 2001-2010

Table A2-70—Biomass of live trees, dead trees, and down wood on forest land, by stand age class, Oregon, 2001-2010

Table A2-71—Carbon mass of live trees, dead trees and down wood on forest land, by stand age class, Oregon, 2001-2010

Table A2-72—Average volume per acre of live trees, dead trees, and down wood on forest land, by stand age class, Oregon, 2001-2010

Table A2-73—Average biomass per acre of live trees, dead trees, and down wood on forest land, by stand age class, Oregon, 2001-2010

Table A2-74—Average carbon mass per hectare of live trees, dead trees, and down wood on forest land, by stand age class, Oregon, 2001-2010

Table A2-75—Aboveground carbon mass of live trees on forest land, by national forest and land status, Oregon, 2001-2010

Table A2-76—Average aboveground carbon mass per hectare of live trees on forest land, by national forest and land status, Oregon, 2001-2010

Table A2-77—Average biomass per acre of down wood on forest land, by national forest and down wood diameter class, Oregon, 2001-2010

Tree damage

Table A2-78—Number of live trees with damage on forest land, by species and type of damage, Oregon, 2001-2010

Table A2-79—Gross volume of live trees with damage on forest land, by species and type of damage, Oregon, 2001-2010

Table A2-80—Area of forest land with more than 25 percent of basal area damaged, by forest type and type of damage, Oregon, 2001-2010

Nontimber forest products

Table A2-81—Percentage of forested plots with selected lichen nontimber forest products present, by species, Oregon, 2001-2005

Tree crowns

Table A2-82—Estimated mean crown density and other statistics for live trees on forest land, by species group, Oregon, 2001-2010

Table A2-83—Estimated mean foliage transparency and other statistics for live trees on forest land, by species group, Oregon, 2001-2010

Table A2-84—Estimated mean crown dieback and other statistics for live trees on forest land, by species group, Oregon, 2001-2010

Understory Vegetation

Table A2-85—Mean cover of understory vegetation on forest land, by forest type group and life form, Oregon 2001-2010

Table A2-86—Mean of understory vegetation by forest type class, age class group, and lifeform, Oregon 2001-2010

Lichens

Table A2-87--Summary of Forest Inventory and Analysis plots sampled for lichen community, air quality index information, western Pacific Northwest (PNW) and western Oregon, 1998–2001, 2003

Table A2-88--Summary of Forest Inventory and Analysis plots sampled for lichen community, climate index information, western Pacific Northwest (PNW) and western Oregon, 1998–2001, 2003

Ozone injury

Table A2-89—Ozone injury summary information from ozone biomonitoring plots, by year, Oregon, 2000-2009

Table A2-1-- Number of Forest Inventory and Analysis plots measured in Oregon from 2001 to 2010, by sample status, land class, and ownership group

Sampled status and land class	National Forest	Other Public	Private	Total
Sampled plots:				
Forest land plots:				
Softwood types	2,359	733	1,542	4,558
Hardwood types	161	132	388	677
Nonstocked	106	23	91	219
Total	2,534	850	1,896	5,180
Nonforest land plots	626	2,499	2,940	6,026
Unsampled plots:				
Denied access	19	13	315	347
Hazardous	101	32	53	186
Total	120	45	368	533
All plots	2,738	3,216	4,561	10,334

Note: Totals are not additive because one plot can contain more than one forest type, land class and sample status.

Table A2-2--Area of sampled land and water, by land status and ownership group, Oregon, 2001 - 2010

Land status	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private Noncorporate		All private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand acres</i>													
Unreserved forest land:														
Timberland	11,573.1	124.3	2,201.7	73.2	1,030.7	63.9	5,751.3	133.4	3,526.6	122.3	9,277.9	122.7	24,083.4	172.3
Other forest land	557.1	53.1	1,308.6	76.8	102.7	24.6	232.8	35.9	1,272.7	79.9	1,505.5	86.0	3,473.8	128.1
Total	12,130.1	119.3	3,510.3	101.0	1,133.4	68.6	5,984.1	135.4	4,799.2	139.1	10,783.4	129.8	27,557.2	184.6
Reserved forest land:														
Productive forest land	1,877.9	94.8	236.4	31.8	72.0	20.6	--	--	--	--	--	--	2,186.3	102.1
Other forest land	171.7	31.2	69.0	20.8	--	--	--	--	--	--	--	--	240.8	37.5
Total	2,049.6	98.6	305.5	37.3	72.0	20.6	--	--	--	--	--	--	2,427.0	107.3
All forest land	14,179.7	77.3	3,815.7	99.6	1,205.4	70.5	5,984.1	135.4	4,799.2	139.1	10,783.4	129.8	29,984.2	156.7
Nonforest land and water:														
Nonforest land	1,438.3	68.4	13,039.1	112.5	1,056.1	77.3	1,770.2	96.4	13,839.2	153.6	15,609.4	137.0	31,143.0	157.8
Noncensus water	21.8	9.6	28.7	13.1	32.0	12.9	15.9	8.2	49.4	15.6	65.2	17.6	147.7	27.1
Census water	85.4	20.9	101.5	24.4	1,278.0	48.9	11.3	4.1	212.6	34.7	223.9	34.9	1,688.7	50.4
Total	1,545.5	71.9	13,169.3	114.4	2,366.1	91.7	1,797.4	96.9	14,101.1	156.1	15,898.5	139.8	32,979.4	155.5
All sampled area	15,725.2	45.3	16,985.0	116.6	3,571.5	115.7	7,781.5	165.9	18,900.3	183.6	26,681.9	124.3	62,963.6	25.2

Table A2-2--Area of sampled land and water, by land status and ownership group, Oregon, 2001 - 2010 (continued- Western Oregon)

Western Oregon Land status	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Noncorporate		All private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand acres</i>													
Unreserved forest land:														
Timberland	4,493.6	77.1	1,952.5	65.7	919.8	58.7	4,129.1	109.4	2,090.2	94.5	6,219.3	93.4	13,585.2	120.2
Other forest land	136.6	27.3	74.8	20.8	6.5	5.7	95.9	22.3	176.8	29.8	272.7	36.7	490.6	50.8
Total	4,630.2	74.0	2,027.3	65.1	926.3	59.0	4,225.0	109.4	2,267.0	97.3	6,492.0	90.2	14,075.9	113.6
Reserved forest land:														
Productive forest land	850.0	62.6	82.7	21.7	72.0	20.6	--	--	--	--	--	--	1,004.7	69.3
Other forest land	84.2	22.0	12.7	9.0	--	--	--	--	--	--	--	--	96.9	23.7
Total	934.2	65.6	95.4	23.4	72.0	20.6	--	--	--	--	--	--	1,101.6	72.5
Total, forest land	5,564.4	38.8	2,122.7	63.7	998.3	61.2	4,225.0	109.4	2,267.0	97.3	6,492.0	90.2	15,177.5	90.0
Nonforest land and water:														
Nonforest land	194.4	25.4	148.3	25.1	299.2	38.5	463.3	44.6	2,766.5	77.5	3,229.8	74.1	3,871.7	78.7
Noncensus water	11.4	6.7	4.0	4.0	16.8	8.4	15.8	8.2	18.4	7.0	34.2	10.8	66.5	15.7
Census water	60.2	17.0	21.9	11.1	946.2	50.5	10.5	4.0	132.3	26.9	142.8	27.2	1,171.1	52.9
Total	266.0	31.0	174.2	27.7	1,262.3	63.4	489.6	45.6	2,917.2	81.0	3,406.8	78.2	5,109.2	90.5
All sampled area	5,830.4	36.6	2,296.9	69.0	2,260.6	88.0	4,714.6	118.3	5,184.2	119.9	9,898.8	84.7	20,286.7	71.8

Table A2-2--Area of sampled land and water, by land status and ownership group, Oregon, 2001 - 2010 (continued-Eastern Oregon)

Eastern Oregon Land status	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private Noncorporate		All private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand acres</i>													
Unreserved forest land:														
Timberland	7,079.5	99.2	249.2	35.9	110.9	25.5	1,622.3	78.4	1,436.3	77.7	3,058.6	82.7	10,498.2	131.2
Other forest land	420.5	45.5	1,233.8	74.0	96.2	24.0	136.9	28.1	1,095.9	74.2	1,232.7	77.8	2,983.2	117.7
Total	7,500.0	95.7	1,483.0	79.9	207.1	35.1	1,759.1	81.8	2,532.2	99.7	4,291.3	96.6	13,481.3	153.9
Reserved forest land:														
Productive forest land	1,027.8	71.3	153.7	23.2	--	--	--	--	--	--	--	--	1,181.6	75.0
Other forest land	87.5	22.2	56.3	18.8	--	--	--	--	--	--	--	--	143.8	29.1
Total	1,115.3	73.8	210.1	29.0	--	--	--	--	--	--	--	--	1,325.4	79.3
Total, forest land	8,615.3	70.8	1,693.0	79.6	207.1	35.1	1,759.1	81.8	2,532.2	99.7	4,291.3	96.6	14,806.7	138.8
Nonforest land and water:														
Nonforest land	1,243.9	63.6	12,890.8	109.9	756.9	67.0	1,307.0	85.5	11,072.7	132.6	12,379.6	115.4	27,271.2	137.6
Noncensus water	10.4	6.8	24.7	12.5	15.1	9.8	--	--	31.0	13.9	31.0	13.9	81.3	22.1
Census water	25.2	12.4	79.6	21.8	331.8	42.3	0.8	0.7	80.3	22.4	81.1	22.4	517.7	51.9
Total	1,279.5	65.1	12,995.2	111.2	1,103.8	79.8	1,307.8	85.5	11,183.9	133.8	12,491.7	116.5	27,870.2	142.4
All sampled area	9,894.8	38.1	14,688.2	98.5	1,310.9	87.6	3,066.9	118.1	13,716.1	139.9	16,783.0	98.0	42,676.9	70.4

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 acres was estimated.

Table A2-3--Area of forest land, by ownership and land status, Oregon, 2001 - 2010

Ownership	Land status												All forest land	
	Unreserved forests						Reserved forests							
	Timberland		Other forest		Total		Productive		Other forest		Total		Total	SE
Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	
<i>Thousand acres</i>														
USDA Forest Service:														
National Forest	11,573.1	124.3	507.1	51.1	12,080.2	119.7	1,877.9	94.8	171.7	31.2	2,049.6	98.6	14,129.8	78.0
National Grasslands	--	--	49.9	16.6	49.9	16.6	--	--	--	--	--	--	49.9	16.6
Total	11,573.1	124.3	557.1	53.1	12,130.1	119.3	1,877.9	94.8	171.7	31.2	2,049.6	98.6	14,179.7	77.3
Other federal government:														
Bureau of Land Management	2,188.4	72.7	1,308.6	76.8	3,497.0	100.7	74.5	20.6	49.3	17.6	123.7	27.1	3,620.7	100.1
Departments of Defense or Energy	0.1	0.1	--	--	0.1	0.1	--	--	--	--	--	--	0.1	0.1
National Park Service	--	--	--	--	--	--	146.0	22.1	19.5	11.0	165.5	23.7	165.5	23.7
U.S. Fish and Wildlife Service	--	--	--	--	--	--	10.0	7.4	0.2	0.3	10.2	7.4	10.2	7.4
Other federal	13.2	8.5	--	--	13.2	8.5	6.0	6.2	--	--	6.0	6.2	19.2	10.5
Total	2,201.7	73.2	1,308.6	76.8	3,510.3	101.0	236.4	31.8	69.0	20.8	305.5	37.3	3,815.7	99.6
State and local government:														
Local	134.7	28.1	28.6	12.6	163.3	31.2	17.8	10.6	--	--	17.8	10.6	181.1	32.9
State	891.1	57.7	74.1	21.1	965.1	61.4	54.2	17.6	--	--	54.2	17.6	1,019.3	62.7
Other public	5.0	5.1	--	--	5.0	5.1	--	--	--	--	--	--	5.0	5.1
Total	1,030.7	63.9	102.7	24.6	1,133.4	68.6	72.0	20.6	--	--	72.0	20.6	1,205.4	70.5
Corporate private	5,751.3	133.4	232.8	35.9	5,984.1	135.4	--	--	--	--	--	--	5,984.1	135.4
Noncorporate private:														
Nongovernmental conservation or natural resource organizations	320.3	43.2	--	--	320.3	43.2	--	--	--	--	--	--	320.3	43.2
Unincorporated partnerships, associations, or clubs	35.6	14.8	27.9	12.8	63.5	19.6	--	--	--	--	--	--	63.5	19.6
Native American	386.7	44.2	88.4	23.2	475.1	48.7	--	--	--	--	--	--	475.1	48.7
Individual	2,783.9	111.8	1,156.3	76.5	3,940.2	130.3	--	--	--	--	--	--	3,940.2	130.3
Total	3,526.6	122.3	1,272.7	79.9	4,799.2	139.1	--	--	--	--	--	--	4,799.2	139.1
All private	9,277.9	122.7	1,505.5	86.0	10,783.4	129.8	--	--	--	--	--	--	10,783.4	129.8
All owners	24,083.4	172.3	3,473.8	128.1	27,557.2	184.6	2,186.3	102.1	240.8	37.5	2,427.0	107.3	29,984.2	156.7

Table A2-3--Area of forest land, by ownership and land status, Oregon, 2001 - 2010 (continued-Western Oregon)

Western Oregon Ownership	Land status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand acres</i>														
USDA Forest Service:														
National Forest	4,493.6	77.1	136.6	27.3	4,630.2	74.0	850.0	62.6	84.2	22.0	934.2	65.6	5,564.4	38.8
Total	4,493.6	77.1	136.6	27.3	4,630.2	74.0	850.0	62.6	84.2	22.0	934.2	65.6	5,564.4	38.8
Other federal government:														
Bureau of Land Management	1,939.2	65.2	74.8	20.8	2,014.0	64.6	74.5	20.6	12.5	8.9	87.0	22.5	2,101.0	62.9
Departments of Defense or	0.1	0.1	--	--	0.1	0.1	--	--	--	--	--	--	0.1	0.1
U.S. Fish and Wildlife Service	--	--	--	--	--	--	2.2	2.3	0.2	0.3	2.5	2.3	2.5	2.3
Other federal	13.2	8.5	--	--	13.2	8.5	6.0	6.2	--	--	6.0	6.2	19.2	10.5
Total	1,952.5	65.7	74.8	20.8	2,027.3	65.1	82.7	21.7	12.7	9.0	95.4	23.4	2,122.7	63.7
State and local government:														
Local	115.1	26.3	5.7	5.6	120.9	27.0	17.8	10.6	--	--	17.8	10.6	138.6	29.0
State	799.7	52.8	0.8	0.7	800.5	52.9	54.2	17.6	--	--	54.2	17.6	854.7	54.4
Other public	5.0	5.1	--	--	5.0	5.1	--	--	--	--	--	--	5.0	5.1
Total	919.8	58.7	6.5	5.7	926.3	59.0	72.0	20.6	--	--	72.0	20.6	998.3	61.2
Corporate private	4,129.1	109.4	95.9	22.3	4,225.0	109.4	--	--	--	--	--	--	4,225.0	109.4
Noncorporate private:														
Nongovernmental conservation	308.8	42.6	--	--	308.8	42.6	--	--	--	--	--	--	308.8	42.6
or natural resource organizations														
Unicorporated partnerships,	18.1	10.8	2.8	2.9	20.8	11.1	--	--	--	--	--	--	20.8	11.1
associations, or clubs														
Native American	54.3	18.3	--	--	54.3	18.3	--	--	--	--	--	--	54.3	18.3
Individual	1,709.1	86.7	174.0	29.7	1,883.1	90.0	--	--	--	--	--	--	1,883.1	90.0
Total	2,090.2	94.5	176.8	29.8	2,267.0	97.3	--	--	--	--	--	--	2,267.0	97.3
All private	6,219.3	93.4	272.7	36.7	6,492.0	90.2	--	--	--	--	--	--	6,492.0	90.2
All owners	13,585.2	120.2	490.6	50.8	14,075.9	113.6	1,004.7	69.3	96.9	23.7	1,101.6	72.5	15,177.5	90.0

Table A2-3--Area of forest land, by ownership and land status, Oregon, 2001 - 2010 (continued-Eastern Oregon)

Eastern Oregon Ownership	Land status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total			
Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	
<i>Thousand acres</i>														
USDA Forest Service:														
National Forest	7,079.5	99.2	370.6	43.2	7,450.0	96.2	1,027.8	71.3	87.5	22.2	1,115.3	73.8	8,565.4	71.5
National Grasslands	--	--	49.9	16.6	49.9	16.6	--	--	--	--	--	--	49.9	16.6
Total	7,079.5	99.2	420.5	45.5	7,500.0	95.7	1,027.8	71.3	87.5	22.2	1,115.3	73.8	8,615.3	70.8
Other federal government:														
Bureau of Land Management	249.2	35.9	1,233.8	74.0	1,483.0	79.9	--	--	36.8	15.2	36.8	15.2	1,519.7	80.9
National Park Service	--	--	--	--	--	--	146.0	22.1	19.5	11.0	165.5	23.7	165.5	23.7
U.S. Fish and Wildlife Service	--	--	--	--	--	--	7.7	7.0	--	--	7.7	7.0	7.7	7.0
Total	249.2	35.9	1,233.8	74.0	1,483.0	79.9	153.7	23.2	56.3	18.8	210.1	29.0	1,693.0	79.6
State and local government:														
Local	19.6	10.0	22.9	11.3	42.5	15.6	--	--	--	--	--	--	42.5	15.6
State	91.4	23.5	73.3	21.1	164.6	31.5	--	--	--	--	--	--	164.6	31.5
Total	110.9	25.5	96.2	24.0	207.1	35.1	--	--	--	--	--	--	207.1	35.1
Corporate private	1,622.3	78.4	136.9	28.1	1,759.1	81.8	--	--	--	--	--	--	1,759.1	81.8
Noncorporate private:														
Nongovernmental conservation or natural resource organizations	11.5	7.6	--	--	11.5	7.6	--	--	--	--	--	--	11.5	7.6
Unincorporated partnerships, associations, or clubs	17.6	10.2	25.2	12.5	42.7	16.2	--	--	--	--	--	--	42.7	16.2
Native American	332.4	40.3	88.4	23.2	420.8	45.1	--	--	--	--	--	--	420.8	45.1
Individual	1,074.9	70.8	982.3	70.5	2,057.1	94.4	--	--	--	--	--	--	2,057.1	94.4
Total	1,436.3	77.7	1,095.9	74.2	2,532.2	99.7	--	--	--	--	--	--	2,532.2	99.7
All private	3,058.6	82.7	1,232.7	77.8	4,291.3	96.6	--	--	--	--	--	--	4,291.3	96.6
All owners	10,498.2	131.2	2,983.2	117.7	13,481.3	153.9	1,181.6	75.0	143.8	29.1	1,325.4	79.3	14,806.7	138.8

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 acres was estimated.

Table A2-4--Area of forest land, by forest type group and land status, Oregon, 2001 - 2010

Forest type group	Land status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand acres</i>														
Softwoods:														
Douglas-fir	10,186.2	167.3	52.6	16.8	10,238.8	167.4	603.4	56.2	11.9	8.4	615.3	56.8	10,854.1	167.7
Fir / spruce / mtn. hemlock	2,655.0	114.9	115.3	25.7	2,770.2	117.0	836.9	66.0	73.5	20.2	910.4	68.6	3,680.6	129.8
Hemlock / Sitka spruce	829.8	65.2	--	--	829.8	65.2	102.9	24.0	--	--	102.9	24.0	932.7	68.8
Lodgepole pine	1,690.7	90.5	73.6	20.9	1,764.2	92.3	225.5	35.5	35.1	14.3	260.6	38.2	2,024.8	98.8
Ponderosa pine	4,973.2	139.5	53.8	17.2	5,027.1	140.3	136.6	27.3	5.8	5.8	142.4	27.9	5,169.5	141.4
Western juniper	300.2	41.1	2,409.3	106.0	2,709.5	112.2	21.0	10.8	36.7	15.2	57.7	18.7	2,767.2	113.4
Western larch	140.1	27.2	5.9	5.9	146.0	27.8	51.0	17.1	--	--	51.0	17.1	197.0	32.5
Other western softwoods	32.6	12.5	30.7	13.0	63.3	18.0	19.3	10.9	12.2	8.5	31.4	13.9	94.7	22.7
Total	20,807.7	191.1	2,741.2	114.0	23,548.9	207.8	1,996.6	97.6	175.2	31.9	2,171.8	101.6	25,720.7	189.8
Hardwoods:														
Alder / maple	1,126.7	71.5	19.5	8.3	1,146.1	71.9	14.7	8.6	--	--	14.7	8.6	1,160.9	72.2
Aspen / birch	26.0	11.6	21.7	10.7	47.7	15.8	--	--	--	--	--	--	47.7	15.8
Elm / ash / cottonwood	58.1	18.0	12.4	5.9	70.5	18.9	4.2	4.4	0.2	0.3	4.5	4.4	74.9	19.4
Tanoak / laurel	473.5	50.0	22.9	11.3	496.4	50.9	76.8	20.4	29.3	13.0	106.0	24.0	602.4	55.3
Western oak	386.0	45.7	379.9	45.5	765.8	63.8	6.7	4.9	18.4	10.7	25.2	11.8	791.0	64.8
Woodland hardwoods	68.1	19.9	81.7	21.8	149.8	29.5	4.5	4.5	12.1	8.9	16.7	10.0	166.4	31.1
Other hardwoods	339.3	43.2	68.8	20.0	408.1	47.4	22.8	11.0	--	--	22.8	11.0	430.9	48.6
Total	2,477.6	105.1	606.8	57.0	3,084.4	116.0	129.8	25.9	60.1	19.1	189.9	31.9	3,274.3	119.0
Nonstocked	798.1	64.1	125.8	27.2	923.9	69.5	59.8	17.8	5.5	5.7	65.3	18.7	989.2	71.8
All forest types	24,083.4	172.3	3,473.8	128.1	27,557.2	184.6	2,186.3	102.1	240.8	37.5	2,427.0	107.3	29,984.2	156.7

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 acres was estimated.

Table A2-5--Area of forest land, by forest type group and site productivity class, Oregon, 2001 - 2010

Forest type group	Site productivity class (cubic feet / acre / year)														All classes	
	0-19		20-49		50-84		85-119		120-164		165-224		225+			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand acres</i>																
Softwoods:																
Douglas-fir	64.5	18.7	966.7	72.2	1,469.5	86.9	2,029.5	101.7	4,195.6	135.2	2,031.9	100.1	96.4	24.2	10,854.1	167.7
Fir / spruce / mtn.hemlock	188.8	32.6	854.2	68.3	1,276.7	82.2	759.9	64.9	522.4	54.1	72.4	20.2	6.2	6.3	3,680.6	129.8
Hemlock / Sitka spruce	--	--	40.5	15.4	69.2	19.5	133.2	26.6	296.6	39.9	222.9	35.6	170.3	31.0	932.7	68.8
Lodgepole pine	108.7	25.3	1,233.7	79.7	458.9	50.1	48.0	16.7	175.5	31.8	--	--	--	--	2,024.8	98.8
Ponderosa pine	59.6	18.2	2,085.6	101.1	2,292.0	105.8	542.8	54.7	189.5	32.2	--	--	--	--	5,169.5	141.4
Western juniper	2,446.0	106.8	214.8	34.6	61.2	18.3	18.2	10.5	26.9	13.1	--	--	--	--	2,767.2	113.4
Western larch	5.9	5.9	40.1	14.2	85.5	21.6	41.1	15.2	24.3	11.7	--	--	--	--	197.0	32.5
Other western softwoods	42.9	15.5	22.0	11.1	12.4	8.6	12.9	7.2	--	--	--	--	4.6	5.1	94.7	22.7
Total	2,916.4	117.9	5,457.5	149.3	5,725.5	155.2	3,585.6	134.1	5,431.0	153.0	2,327.3	105.9	277.5	39.7	25,720.7	189.8
Hardwoods:																
Alder / maple	19.5	8.3	17.5	9.6	37.4	12.0	130.3	26.2	550.8	52.9	328.9	40.2	76.5	20.5	1,160.9	72.2
Aspen / birch	21.7	10.7	5.9	5.9	19.3	9.9	--	--	0.8	0.8	--	--	--	--	47.7	15.8
Elm / ash / cottonwood	12.6	5.9	13.2	8.7	3.8	4.0	12.1	8.4	27.3	12.1	5.9	5.9	--	--	74.9	19.4
Tanoak / laurel	52.2	17.1	46.2	16.2	94.5	23.0	160.7	29.5	224.8	35.2	18.0	9.8	6.0	6.1	602.4	55.3
Western oak	398.3	46.7	96.5	23.6	176.4	31.6	62.3	18.4	53.2	16.4	4.4	4.5	--	--	791.0	64.8
Woodland hardwoods	93.8	23.5	46.0	16.6	24.2	11.8	--	--	2.4	2.3	--	--	--	--	166.4	31.1
Other hardwoods	68.8	20.0	65.0	19.0	119.0	25.8	84.0	22.3	89.0	22.6	5.1	3.1	--	--	430.9	48.6
Total	666.8	59.9	290.3	40.6	474.7	50.0	449.5	48.9	948.2	69.5	362.3	42.2	82.5	21.4	3,274.3	119.0
Nonstocked	131.4	27.8	233.7	35.4	182.5	31.3	82.9	20.1	254.1	36.7	90.6	22.0	14.1	7.5	989.2	71.8
All forest types	3,714.6	132.7	5,981.5	155.4	6,382.7	163.7	4,117.9	142.6	6,633.3	164.4	2,780.2	115.0	374.0	46.5	29,984.2	156.7

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 acres was estimated.

Table A2-6--Area of forest land, by forest type group and stand size class, Oregon, 2001 - 2010

Forest type group	Stand size class						All classes	
	Large-diameter stands		Medium-diameter stands		Small-diameter stands			
	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand acres</i>								
Softwoods:								
Douglas-fir	8,280.8	159.6	1,088.6	75.7	1,484.7	85.1	10,854.1	167.7
Fir / spruce / mtn. hemlock	3,100.0	119.5	182.5	32.2	398.1	46.9	3,680.6	129.8
Hemlock / Sitka spruce	816.0	64.6	37.1	13.5	79.5	20.0	932.7	68.8
Lodgepole pine	674.0	59.4	488.8	50.8	862.1	67.1	2,024.8	98.8
Ponderosa pine	4,336.8	132.6	298.9	40.2	533.8	53.5	5,169.5	141.4
Western juniper	1,936.2	97.6	248.4	36.7	582.5	58.5	2,767.2	113.4
Western larch	124.5	25.9	7.9	6.0	64.6	18.9	197.0	32.5
Other western softwoods	54.8	17.5	12.5	7.7	27.5	11.7	94.7	22.7
Total	19,323.1	202.6	2,364.7	110.4	4,032.9	140.1	25,720.7	189.8
Hardwoods:								
Alder / maple	725.5	58.4	297.8	38.0	137.6	27.4	1,160.9	72.2
Aspen / birch	2.9	2.9	15.0	8.0	29.8	13.3	47.7	15.8
Elm / ash / cottonwood	42.2	14.9	6.6	4.8	26.2	11.5	74.9	19.4
Tanoak / laurel	214.9	33.6	126.7	26.2	260.9	37.5	602.4	55.3
Western oak	283.0	39.2	324.4	42.2	183.6	31.4	791.0	64.8
Woodland hardwoods	115.7	25.7	13.6	8.8	37.2	14.7	166.4	31.1
Other hardwoods	128.5	27.0	139.7	28.4	162.6	29.9	430.9	48.6
Total	1,512.7	84.8	923.7	68.4	837.9	66.6	3,274.3	119.0
Nonstocked	--	--	--	--	--	--	989.2	71.8
All forest types	20,835.8	201.6	3,288.4	126.8	4,870.8	151.7	29,984.2	156.7

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 acres was estimated.

Table A2-7--Area of forest land by ecological section and land status, Oregon, 2001 - 2010

Ecological section	Land status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Unproductive		Total		Productive		Unproductive		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand acres</i>														
Blue Mountain Foothills	402.7	47.8	1,611.3	90.8	2,014.0	101.5	2.1	2.2	5.5	5.7	7.6	6.1	2,021.6	101.6
Blue Mountains	5,120.6	110.3	187.5	31.5	5,308.0	111.6	685.0	57.6	35.6	13.9	720.6	58.7	6,028.6	102.0
Columbia Basin	37.5	14.1	47.2	16.6	84.7	21.8	--	--	--	--	--	--	84.7	21.8
Eastern Cascades	3,474.3	104.2	199.2	33.5	3,673.5	106.6	95.3	23.4	17.4	10.1	112.7	25.4	3,786.2	106.6
Klamath Mountains	2,550.6	99.3	285.6	39.9	2,836.2	102.9	160.4	29.6	41.1	15.5	201.5	32.9	3,037.7	104.2
Modoc Plateau	818.5	65.2	336.4	44.7	1,154.9	77.8	--	--	--	--	--	--	1,154.9	77.8
Northern California Coast	12.2	8.5	--	--	12.2	8.5	--	--	--	--	--	--	12.2	8.5
Northwestern Basin and Range	30.4	13.3	517.8	55.3	548.2	56.9	--	--	48.9	17.6	48.9	17.6	597.1	59.3
Oregon and Washington Coast Ranges	5,088.9	134.1	36.4	13.9	5,125.2	134.6	116.4	25.8	6.2	6.0	122.6	26.5	5,247.8	135.6
Owyhee Uplands	--	--	6.0	6.1	6.0	6.1	--	--	--	--	--	--	6.0	6.1
Palouse Prairie	4.8	5.0	--	--	4.8	5.0	--	--	--	--	--	--	4.8	5.0
Southern Cascades	275.7	39.1	17.9	10.7	293.6	40.5	25.8	12.4	12.5	8.9	38.3	15.3	331.9	43.5
Western Cascades	5,355.3	137.3	164.2	30.1	5,519.5	139.4	1,089.9	70.9	73.6	20.6	1,163.6	73.1	6,683.1	139.6
Willamette Valley	912.1	67.3	64.3	16.6	976.4	68.4	11.4	7.6	--	--	11.4	7.6	987.8	68.8
Total	24,083.4	172.3	3,473.8	128.1	27,557.2	184.6	2,186.3	102.1	240.8	37.5	2,427.0	107.3	29,984.2	156.7

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 acres was estimated.

Table A2-8--Area of forest land, by forest type group and stand origin, Oregon, 2001 - 2010

Forest type group	Stand origin					
	Natural stands		Artificial regeneration		Total	
	Total	SE	Total	SE	Total	SE
<i>Thousand acres</i>						
Softwoods:						
Douglas-fir	6,800.7	155.5	4,053.4	127.8	10,854.1	167.7
Fir / spruce / mtn.hemlock	3,494.6	126.4	186.0	32.0	3,680.6	129.8
Hemlock / Sitka spruce	748.4	61.6	184.3	31.6	932.7	68.8
Lodgepole pine	1,893.3	96.3	131.6	25.1	2,024.8	98.8
Ponderosa pine	4,638.5	135.7	531.0	53.4	5,169.5	141.4
Western juniper	2,758.1	113.2	9.1	7.0	2,767.2	113.4
Western larch	161.1	29.4	36.0	14.0	197.0	32.5
Other western softwoods	85.0	21.9	9.7	6.0	94.7	22.7
Total	20,579.6	198.7	5,141.1	143.5	25,720.7	189.8
Hardwoods:						
Alder / maple	895.7	63.3	265.2	38.0	1,160.9	72.2
Aspen / birch	42.7	14.4	5.0	4.8	47.7	15.8
Elm / ash / cottonwood	56.3	16.4	18.6	10.4	74.9	19.4
Tanoak / laurel	471.5	49.2	131.0	26.7	602.4	55.3
Western oak	751.8	63.3	39.2	14.6	791.0	64.8
Woodland hardwoods	158.1	30.5	8.4	6.3	166.4	31.1
Other hardwoods	365.3	45.0	65.6	19.1	430.9	48.6
Total	2,741.4	110.6	532.8	53.4	3,274.3	119.0
Nonstocked	750.4	63.0	238.9	35.2	989.2	71.8
All forest types	24,071.4	195.7	5,912.8	149.7	29,984.2	156.7

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error.

Table A2-9--Area of timberland, by forest type group and stand size class, Oregon, 2001 - 2010

Forest type group	Stand size class						All classes	
	Large-diameter stands		Medium-diameter stands		Small-diameter stands			
	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand acres</i>								
Softwoods:								
Douglas-fir	7,668.2	158.4	1,067.9	75.0	1,450.1	84.0	10,186.2	167.3
Fir / spruce / mtn. hemlock	2,179.6	104.4	154.1	29.8	321.3	42.4	2,655.0	114.9
Hemlock / Sitka spruce	713.1	60.6	37.1	13.5	79.5	20.0	829.8	65.2
Lodgepole pine	549.7	53.4	380.9	44.9	760.1	63.0	1,690.7	90.5
Ponderosa pine	4,169.6	130.6	288.1	39.4	515.5	52.6	4,973.2	139.5
Western juniper	236.9	36.5	8.0	6.1	55.3	17.8	300.2	41.1
Western larch	79.1	20.3	2.0	1.3	59.0	18.1	140.1	27.2
Other western softwoods	9.4	6.6	7.1	5.3	16.1	8.3	32.6	12.5
Total	15,605.7	196.9	1,945.2	100.2	3,256.9	124.7	20,807.7	191.1
Hardwoods:								
Alder / maple	703.6	57.7	285.5	37.4	137.6	27.4	1,126.7	71.5
Aspen / birch	2.9	2.9	5.5	5.1	17.6	10.0	26.0	11.6
Elm / ash / cottonwood	35.7	14.1	3.8	4.0	18.6	10.4	58.1	18.0
Tanoak / laurel	193.8	32.1	104.7	24.0	175.0	30.8	473.5	50.0
Western oak	187.8	32.6	124.8	25.9	73.4	20.3	386.0	45.7
Woodland hardwoods	39.7	14.9	5.2	5.8	23.1	12.0	68.1	19.9
Other hardwoods	126.5	26.9	97.0	23.5	115.7	25.2	339.3	43.2
Total	1,290.0	78.8	626.6	56.2	561.0	55.2	2,477.6	105.1
Nonstocked	--	--	--	--	--	--	798.1	64.1
All forest types	16,895.7	196.8	2,571.8	112.7	3,817.9	133.7	24,083.4	172.3

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; — = less than 50 acres was estimated.

Table A2-10--Number of dead trees^o on forest land, by county and land status, Oregon, 2001 - 2010

County	Land status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand trees</i>														
Western Oregon:														
Benton	4,620.7	1,265.0	195.6	195.1	4,816.3	1,278.8	--	--	--	--	--	--	4,816.3	1,278.8
Clackamas	17,313.6	2,590.0	--	--	17,313.6	2,590.0	7,014.1	1,735.6	--	--	7,014.1	1,735.6	24,327.7	2,924.1
Clatsop	7,194.8	1,719.6	--	--	7,194.8	1,719.6	--	--	--	--	--	--	7,194.8	1,719.6
Columbia	1,987.2	487.1	45.5	45.2	2,032.7	497.4	--	--	--	--	--	--	2,032.7	497.4
Coos	10,976.3	1,632.9	117.1	87.0	11,093.4	1,634.0	389.5	277.2	--	--	389.5	277.2	11,482.9	1,655.9
Curry	20,223.2	2,734.6	3,770.3	2,752.6	23,993.6	3,758.5	6,960.4	2,049.2	2,198.4	1,093.0	9,158.8	2,309.9	33,152.4	4,315.4
Douglas	45,189.1	2,909.9	1,184.9	513.5	46,373.9	2,941.7	5,017.7	1,429.4	675.4	436.9	5,693.1	1,485.5	52,067.0	3,182.1
Hood River	3,640.7	917.1	35.6	37.0	3,676.3	917.9	8,451.1	3,379.6	--	--	8,451.1	3,379.6	12,127.4	3,461.3
Jackson	28,042.4	2,727.8	3,151.8	838.6	31,194.2	2,854.7	1,236.0	482.5	189.3	113.6	1,425.4	495.7	32,619.6	2,881.3
Josephine	21,787.7	3,512.9	2,506.0	1,718.4	24,293.7	3,896.2	2,480.5	1,284.7	533.1	534.7	3,013.6	1,390.8	27,307.3	4,111.7
Lane	42,403.0	3,362.1	1,248.2	659.2	43,651.2	3,399.1	9,955.4	2,122.4	697.0	721.6	10,652.4	2,226.0	54,303.6	3,837.9
Lincoln	8,362.7	1,294.7	--	--	8,362.7	1,294.7	351.1	333.3	--	--	351.1	333.3	8,713.8	1,334.5
Linn	24,261.5	3,392.1	54.8	46.8	24,316.3	3,392.4	5,607.5	2,194.7	--	--	5,607.5	2,194.7	29,923.8	3,946.8
Marion	5,270.3	1,195.9	201.8	142.2	5,472.1	1,203.3	4,671.3	1,667.7	35.2	35.4	4,706.5	1,672.0	10,178.6	2,011.5
Multnomah	1,328.5	766.6	--	--	1,328.5	766.6	2,268.2	884.9	--	--	2,268.2	884.9	3,596.8	1,160.9
Polk	3,301.3	907.6	157.3	110.6	3,458.6	913.4	--	--	--	--	--	--	3,458.6	913.4
Tillamook	12,516.8	1,882.2	--	--	12,516.8	1,882.2	265.7	275.9	--	--	265.7	275.9	12,782.5	1,900.5
Washington	5,144.9	1,417.2	--	--	5,144.9	1,417.2	69.3	72.8	--	--	69.3	72.8	5,214.2	1,418.7
Yamhill	2,981.0	770.5	--	--	2,981.0	770.5	--	--	--	--	--	--	2,981.0	770.5
Total	266,545.9	8,030.0	12,668.8	3,458.0	279,214.7	8,569.3	54,737.9	5,723.2	4,328.4	1,482.3	59,066.2	5,884.9	338,280.9	9,511.9

Table A2-10--Number of dead trees^a on forest land, by county and land status, Oregon, 2001 - 2010 (continued)

County	Land status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand trees</i>														
Eastern Oregon:														
Baker	9,382.5	1,835.7	511.2	409.7	9,893.7	1,876.5	1,344.0	887.5	--	--	1,344.0	887.5	11,237.7	2,060.0
Crook	5,907.4	1,192.3	1,442.5	379.0	7,349.8	1,253.6	1,145.4	705.8	--	--	1,145.4	705.8	8,495.2	1,433.6
Deschutes	12,876.3	2,510.2	1,921.6	849.3	14,797.8	2,638.8	3,842.6	1,353.6	2,563.9	1,521.4	6,406.5	2,025.4	21,204.3	3,278.0
Grant	31,545.8	3,354.5	676.9	468.9	32,222.8	3,377.0	8,683.3	2,169.1	523.2	306.9	9,206.5	2,188.4	41,429.3	3,938.8
Harney	4,299.1	1,137.9	1,539.2	492.6	5,838.3	1,256.8	--	--	--	--	--	--	5,838.3	1,256.8
Jefferson	10,806.8	2,766.9	1,461.0	852.3	12,267.8	2,885.4	2,777.6	1,601.2	--	--	2,777.6	1,601.2	15,045.4	3,292.8
Klamath	26,254.3	2,680.4	1,621.0	456.7	27,875.3	2,709.4	12,124.4	1,816.1	1,355.5	576.2	13,479.9	1,885.2	41,355.2	3,169.8
Lake	19,848.1	2,967.9	1,331.1	390.7	21,179.2	3,002.9	965.0	913.4	184.9	156.3	1,149.9	926.7	22,329.1	3,134.9
Malheur	116.2	117.8	716.7	392.2	832.9	409.5	--	--	--	--	--	--	832.9	409.5
Morrow	3,022.4	892.9	200.0	205.7	3,222.4	915.6	--	--	--	--	--	--	3,222.4	915.6
Umatilla	14,432.7	3,292.0	457.8	449.4	14,890.6	3,319.0	316.3	238.1	--	--	316.3	238.1	15,206.8	3,325.4
Union	12,590.7	1,991.2	33.3	34.3	12,624.1	1,991.3	3,291.0	1,035.3	--	--	3,291.0	1,035.3	15,915.1	2,220.6
Wallowa	10,370.7	1,914.2	46.6	44.3	10,417.3	1,914.7	13,944.8	2,475.1	692.9	426.7	14,637.7	2,508.3	25,055.0	3,107.6
Wasco	7,406.5	1,497.9	1,487.2	506.1	8,893.6	1,574.8	686.0	689.5	--	--	686.0	689.5	9,579.6	1,716.9
Wheeler	3,654.1	850.3	76.9	54.8	3,731.0	852.1	569.6	572.6	--	--	569.6	572.6	4,300.6	1,026.1
Total	172,513.8	7,603.5	13,522.8	1,790.9	186,036.6	7,737.4	49,690.0	4,643.4	5,320.4	1,712.0	55,010.4	4,908.7	241,046.9	8,579.5
All counties	439,059.6	11,044.6	26,191.6	3,894.0	465,251.2	11,529.8	104,427.9	7,369.9	9,648.8	2,264.5	114,076.6	7,663.4	579,327.9	12,794.1

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = fewer than 50 trees were estimated.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-11--Number of live trees^a on forest land, by county and broad species group, Oregon, 2001 - 2010

County	Broad species group					
	Softwood species		Hardwood species		All species	
	Total	SE	Total	SE	Total	SE
<i>Thousand trees</i>						
Western Oregon:						
Benton	32,950.0	6,367.8	32,989.0	9,252.2	65,939.0	12,352.4
Clackamas	319,863.7	34,552.2	43,662.8	17,960.2	363,526.5	40,937.6
Clatsop	116,238.3	18,263.5	40,885.9	8,918.2	157,124.2	22,817.7
Columbia	68,980.7	17,826.2	32,951.7	9,512.6	101,932.4	21,802.7
Coos	188,052.4	21,267.7	94,577.9	16,616.6	282,630.3	30,914.1
Curry	180,986.9	28,138.4	346,321.4	47,406.8	527,308.3	60,360.8
Douglas	812,708.4	47,309.8	225,103.7	22,935.4	1,037,812.2	56,173.5
Hood River	96,925.0	16,748.0	17,016.0	7,782.9	113,941.0	19,806.4
Jackson	388,515.2	35,302.8	199,364.5	22,525.1	587,879.7	46,387.2
Josephine	266,751.7	33,107.7	252,200.1	32,821.3	518,951.8	54,226.3
Lane	674,895.7	39,035.3	96,541.8	10,900.2	771,437.4	41,704.3
Lincoln	118,314.1	14,863.4	40,924.4	8,519.3	159,238.4	20,442.3
Linn	293,399.6	31,860.9	42,149.9	7,403.2	335,549.5	34,132.9
Marion	100,995.8	18,024.5	16,548.4	5,435.8	117,544.2	19,501.3
Multnomah	30,063.5	9,692.1	5,290.9	2,874.8	35,354.4	10,400.0
Polk	59,552.7	13,030.1	19,155.5	6,968.5	78,708.2	15,058.9
Tillamook	101,045.7	12,666.9	33,917.0	5,549.3	134,962.6	15,365.1
Washington	36,289.6	6,829.2	12,807.3	3,737.4	49,096.9	9,029.4
Yamhill	39,099.2	9,176.5	17,383.4	5,062.9	56,482.6	12,360.9
Total	3,925,628.3	88,380.6	1,569,791.5	69,356.0	5,495,419.7	112,640.9
Eastern Oregon:						
Baker	206,525.4	30,104.1	2,727.3	968.3	209,252.7	30,176.8
Crook	141,514.7	18,577.6	4,524.1	2,622.4	146,038.8	19,002.3
Deschutes	431,455.2	45,802.0	4,587.8	4,420.8	436,043.0	46,242.4
Grant	537,112.2	47,149.7	6,798.2	1,959.2	543,910.4	47,246.0
Harney	130,767.1	16,038.9	25,576.4	8,369.1	156,343.5	18,986.0
Jefferson	106,425.5	16,404.8	682.0	597.4	107,107.5	16,491.4
Klamath	1,235,787.0	79,756.5	13,632.2	3,485.7	1,249,419.2	79,849.3
Lake	388,306.6	38,706.6	23,581.1	7,414.9	411,887.7	39,570.1
Malheur	3,965.4	1,410.5	3,720.8	2,145.6	7,686.3	2,663.0
Morrow	47,130.4	10,009.9	33.3	34.3	47,163.7	10,012.8
Umatilla	157,984.1	26,992.9	70,484.3	29,564.2	228,468.4	41,921.6
Union	320,228.9	45,391.9	470.6	248.6	320,699.5	45,402.1
Wallowa	272,276.7	31,913.2	7,760.1	3,443.3	280,036.8	32,203.2
Wasco	137,837.3	22,772.7	46,068.8	10,992.5	183,906.2	25,606.6
Wheeler	85,328.1	15,159.9	3,824.8	2,151.0	89,152.9	15,440.3
Total	4,202,644.5	116,619.6	214,472.1	34,294.0	4,417,116.6	120,952.4
All counties	8,128,272.8	145,656.4	1,784,263.6	77,346.4	9,912,536.4	164,406.9

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error.

^a Includes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-12--Number of dead trees^a on forest land, by county and broad species group, Oregon, 2001 - 2010

County	Broad species groups					
	Softwood species		Hardwood species		All species	
	Total	SE	Total	SE	Total	SE
<i>Thousand trees</i>						
Western Oregon:						
Benton	3,419.5	1,014.1	1,396.8	450.5	4,816.3	1,278.8
Clackamas	22,867.8	2,875.4	1,459.9	524.3	24,327.7	2,924.1
Clatsop	6,136.1	1,617.8	1,058.7	338.2	7,194.8	1,719.6
Columbia	1,673.1	458.8	359.6	130.6	2,032.7	497.4
Coos	8,783.6	1,459.2	2,699.3	624.9	11,482.9	1,655.9
Curry	18,470.8	2,442.6	14,681.6	3,205.9	33,152.4	4,315.4
Douglas	41,097.2	2,759.7	10,969.7	1,364.3	52,067.0	3,182.1
Hood River	11,586.5	3,455.1	540.9	258.3	12,127.4	3,461.3
Jackson	23,263.2	2,194.7	9,356.4	1,454.9	32,619.6	2,881.3
Josephine	14,344.4	2,212.3	12,962.9	3,157.5	27,307.3	4,111.7
Lane	47,128.2	3,547.6	7,175.4	1,245.8	54,303.6	3,837.9
Lincoln	7,686.5	1,252.3	1,027.3	291.8	8,713.8	1,334.5
Linn	28,321.1	3,902.4	1,602.7	406.7	29,923.8	3,946.8
Marion	9,857.4	1,996.3	321.2	142.2	10,178.6	2,011.5
Multnomah	3,274.2	1,127.0	322.5	169.8	3,596.8	1,160.9
Polk	2,989.9	867.5	468.7	205.8	3,458.6	913.4
Tillamook	10,711.8	1,742.0	2,070.7	474.9	12,782.5	1,900.5
Washington	4,442.6	1,303.3	771.6	274.7	5,214.2	1,418.7
Yamhill	2,408.2	676.5	572.8	236.1	2,981.0	770.5
Total	268,461.9	8,011.2	69,819.0	5,098.7	338,280.9	9,511.9
Eastern Oregon:						
Baker	11,092.2	2,059.7	145.5	90.5	11,237.7	2,060.0
Crook	8,355.6	1,428.1	139.7	87.1	8,495.2	1,433.6
Deschutes	21,168.6	3,277.2	35.7	35.5	21,204.3	3,278.0
Grant	40,519.9	3,909.1	909.4	288.5	41,429.3	3,938.8
Harney	3,613.2	1,069.2	2,225.0	611.6	5,838.3	1,256.8
Jefferson	15,045.4	3,292.8	--	--	15,045.4	3,292.8
Klamath	39,995.3	3,133.2	1,359.8	356.1	41,355.2	3,169.8
Lake	20,111.3	3,046.0	2,217.7	672.4	22,329.1	3,134.9
Malheur	219.9	139.1	613.0	385.2	832.9	409.5
Morrow	3,222.4	915.6	--	--	3,222.4	915.6
Umatilla	15,097.3	3,324.7	109.5	82.5	15,206.8	3,325.4
Union	15,808.9	2,218.5	106.2	79.8	15,915.1	2,220.6
Wallowa	24,955.1	3,100.0	100.0	102.9	25,055.0	3,107.6
Wasco	8,561.2	1,686.5	1,018.4	298.1	9,579.6	1,716.9
Wheeler	4,090.0	1,000.0	210.6	124.9	4,300.6	1,026.1
Total	231,856.3	8,535.5	9,190.7	1,146.6	241,046.9	8,579.5
All counties	500,318.2	11,695.8	79,009.7	5,224.1	579,327.9	12,794.1

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = fewer than 50 trees were estimated.

^a Includes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-13--Number of live trees^o on forest land, by forest type group and ownership group, Oregon, 2001 - 2010

Forest type group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private		All Private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand trees</i>													
Softwoods:														
Douglas-fir	1,396,022.1	59,056.5	515,555.6	34,788.4	173,701.3	19,484.5	1,069,073.6	63,324.7	456,372.4	42,048.0	1,525,446.0	72,100.4	3,610,725.1	99,345.2
Fir / spruce / mtn. hemlock	1,305,095.9	72,352.2	84,139.6	17,838.2	12,902.0	7,375.5	146,532.7	22,490.9	76,837.1	17,574.5	223,369.8	28,030.5	1,625,507.4	79,814.8
Hemlock / Sitka spruce	141,916.4	23,769.5	22,894.8	9,117.6	14,673.6	4,998.4	97,900.9	15,408.5	37,945.2	15,456.9	135,846.1	21,579.4	315,330.8	33,719.0
Lodgepole pine	1,136,979.2	92,983.1	74,110.7	23,547.3	6,203.3	4,229.9	151,937.1	33,163.1	64,802.8	22,743.6	216,739.9	39,519.5	1,434,033.1	103,689.0
Ponderosa pine	812,323.0	43,993.8	56,884.0	15,392.3	7,756.5	3,051.9	205,231.9	25,299.0	168,421.2	21,185.1	373,653.1	32,104.1	1,250,616.7	56,524.9
Western juniper	39,999.6	6,530.2	87,897.3	9,159.1	6,026.8	2,325.3	15,577.5	5,273.3	86,423.4	10,494.1	102,000.9	11,584.6	235,924.6	16,235.4
Western larch	48,382.8	10,971.8	--	--	--	--	4,288.8	3,206.8	4,740.5	3,751.6	9,029.3	4,935.4	57,412.1	12,030.7
Other western softwoods	16,078.3	6,782.2	2,915.0	2,743.3	--	--	1,423.6	1,582.3	1,628.5	1,450.0	3,052.1	2,146.2	22,045.5	7,624.3
Total	4,896,797.4	119,296.4	844,397.0	46,023.4	221,263.6	21,751.2	1,691,966.0	77,180.7	897,171.2	56,745.4	2,589,137.2	88,654.9	8,551,595.2	154,349.8
Hardwoods:														
Alder / maple	38,991.3	9,049.7	14,650.0	6,960.3	39,151.5	9,263.9	148,609.5	22,279.2	128,928.9	25,200.0	277,538.4	33,054.9	370,331.3	36,090.6
Aspen / birch	3,776.3	2,287.3	7,913.7	5,446.2	--	--	5,622.0	5,414.4	2,926.3	2,157.6	8,548.2	5,828.4	20,238.2	8,298.3
Elm / ash / cottonwood	--	--	5.1	5.9	343.5	357.9	2,501.8	2,226.2	14,463.6	6,398.4	16,965.4	6,774.5	17,314.0	6,784.0
Tanoak / laurel	160,497.8	35,831.0	39,406.1	17,767.8	--	--	101,141.5	29,358.5	42,671.0	12,391.1	143,812.5	31,703.9	343,716.3	51,006.8
Western oak	60,906.1	19,655.4	82,666.1	19,855.5	10,851.2	5,681.2	48,085.2	13,176.6	100,775.2	18,347.3	148,860.4	22,432.9	303,283.9	36,255.1
Woodland hardwoods	12,576.3	5,040.9	7,784.5	4,080.5	--	--	2,784.4	1,705.3	45,547.4	25,369.6	48,331.8	25,425.9	68,692.5	26,240.0
Other hardwoods	17,405.7	7,897.7	65,213.1	21,877.8	19,803.9	9,316.2	37,757.1	12,349.7	82,858.0	21,060.4	120,615.1	24,301.6	223,037.9	34,748.8
Total	294,153.5	41,816.1	217,638.6	35,145.0	70,150.1	14,294.9	346,501.4	40,598.0	418,170.4	46,805.5	764,671.8	60,369.0	1,346,614.0	82,135.6
Nonstocked	7,660.8	2,016.3	392.0	274.0	900.9	609.4	2,717.5	970.1	2,655.9	1,074.8	5,373.4	1,441.2	14,327.2	2,565.1
All forest types	5,198,611.8	122,851.5	1,062,427.6	53,763.4	292,314.6	25,525.3	2,041,184.9	84,423.0	1,317,997.6	71,316.2	3,359,182.5	99,136.0	9,912,536.4	164,406.9

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = fewer than 50 trees were estimated.

^oIncludes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-14--Number of dead trees^a on forest land, by forest type group and ownership group, Oregon, 2001 - 2010

Forest type group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private		All Private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand trees</i>													
Softwoods:														
Douglas-fir	114,180.1	5,318.7	31,403.5	2,577.4	12,917.2	1,762.1	35,438.4	2,988.6	16,039.9	1,853.7	51,478.3	3,399.8	209,979.0	6,939.1
Fir / spruce / mtn. hemlock	117,763.8	7,368.1	4,316.7	923.3	517.5	326.3	4,183.3	804.9	5,171.3	1,747.2	9,354.6	1,908.6	131,952.5	7,670.4
Hemlock / Sitka spruce	12,178.4	1,784.6	1,913.2	660.8	1,743.9	788.7	9,274.6	2,293.5	1,771.3	617.0	11,045.9	2,365.7	26,881.3	3,140.3
Lodgepole pine	46,783.3	5,489.6	2,777.4	1,020.3	44.0	41.6	1,856.9	650.2	1,191.2	557.6	3,048.2	853.7	52,652.8	5,648.5
Ponderosa pine	36,438.1	3,307.2	2,635.2	799.0	319.2	289.1	5,373.3	1,008.8	7,702.9	1,504.4	13,076.2	1,776.8	52,468.7	3,844.6
Western juniper	1,798.8	478.2	3,783.3	719.9	--	--	132.7	71.6	1,502.8	385.6	1,635.4	392.0	7,217.5	948.9
Western larch	7,019.6	1,649.9	--	--	--	--	102.2	68.5	--	--	102.2	68.5	7,121.9	1,651.3
Other western softwoods	1,133.8	548.8	182.1	171.4	--	--	--	--	--	--	--	--	1,315.9	575.0
Total	337,295.8	9,852.8	47,011.3	2,983.7	15,541.7	1,955.0	56,361.4	3,922.4	33,379.5	3,005.9	89,740.8	4,738.2	489,589.6	11,397.1
Hardwoods:														
Alder / maple	3,507.5	892.4	521.6	286.8	4,080.1	912.2	5,790.9	987.6	4,964.9	887.4	10,755.7	1,294.4	18,865.0	1,835.8
Aspen / birch	273.2	199.7	74.9	75.5	--	--	--	--	294.2	238.2	294.2	238.2	642.3	319.5
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	310.5	181.6	310.5	181.6	310.5	181.6
Tanoak / laurel	22,386.9	4,810.2	1,889.7	1,181.4	--	--	1,560.0	475.4	897.9	354.3	2,457.9	588.8	26,734.5	4,987.9
Western oak	3,350.2	1,040.6	2,733.9	698.5	343.9	231.4	2,662.0	813.9	4,097.2	814.1	6,759.3	1,142.0	13,187.3	1,710.6
Woodland hardwoods	378.3	175.9	553.2	255.2	--	--	148.8	90.1	903.1	392.6	1,051.8	402.6	1,983.3	508.1
Other hardwoods	1,373.1	637.9	1,518.7	494.4	756.7	426.5	1,585.3	706.6	2,065.7	596.5	3,651.0	920.1	7,299.5	1,289.3
Total	31,269.3	4,985.6	7,291.9	1,629.6	5,180.7	1,032.8	11,746.9	1,513.2	13,533.6	1,444.2	25,280.4	2,011.9	69,022.4	5,702.5
Nonstocked	16,347.2	3,585.1	2,024.2	1,631.9	877.1	736.2	737.3	348.9	730.1	272.3	1,467.4	442.5	20,715.9	4,037.2
All forest types	384,912.3	11,129.5	56,327.4	3,669.0	21,599.5	2,260.2	68,845.5	4,145.0	47,643.1	3,298.8	116,488.7	4,976.5	579,327.9	12,794.1

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = fewer than 50 trees were estimated.

^a Includes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-15--Average number of live trees^a per acre on forest land, by forest type group and ownership group, Oregon, 2001 - 2010

Forest type group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Noncorporate		All Private		All owners	
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
<i>Number of trees per acre</i>														
Softwoods:														
Douglas-fir	333.41	11.37	324.83	17.29	263.23	19.26	354.08	16.52	325.83	22.72	345.13	13.36	332.66	7.51
Fir / spruce / mtn. hemlock	456.26	17.86	484.54	77.78	468.16	149.29	360.08	34.78	362.42	54.77	360.88	29.49	441.64	15.29
Hemlock / Sitka spruce	370.73	46.60	348.92	103.07	197.41	37.45	306.42	27.31	419.49	137.34	331.37	37.31	338.08	26.60
Lodgepole pine	751.89	44.19	673.58	144.69	289.97	110.61	520.50	87.05	725.31	168.32	568.49	78.19	708.22	37.37
Ponderosa pine	240.71	10.39	300.43	63.14	160.28	29.52	250.00	24.24	228.80	21.64	239.97	16.34	241.92	8.71
Western juniper	100.98	11.84	74.05	6.62	71.98	19.58	122.64	31.95	88.79	8.51	92.70	8.38	85.26	4.77
Western larch	300.46	41.65	--	--	--	--	215.55	108.95	294.46	142.04	250.84	88.83	291.40	37.85
Other western softwoods	240.85	79.67	385.36	385.36	--	--	310.88	310.88	102.75	96.93	149.41	94.87	232.67	62.32
Total	378.39	8.75	254.31	12.60	241.74	16.40	337.71	12.56	253.88	13.26	303.04	9.17	332.48	5.65
Hardwoods:														
Alder / maple	233.47	39.79	327.16	103.90	218.57	35.28	395.22	38.19	327.28	52.46	360.46	32.70	319.01	23.74
Aspen / birch	235.09	48.94	476.05	233.71	--	--	821.36	821.36	359.81	113.69	570.74	155.55	424.60	108.52
Elm / ash / cottonwood	--	--	21.26	21.26	81.57	81.57	208.18	144.70	249.06	81.65	242.05	71.98	231.06	67.94
Tanoak / laurel	482.80	92.30	720.73	250.46	--	--	847.28	158.78	444.67	69.92	667.87	99.23	570.54	66.70
Western oak	504.92	130.65	504.82	73.15	277.35	87.82	333.10	62.15	311.86	40.00	318.42	33.71	383.42	33.09
Woodland hardwoods	239.06	61.27	158.89	59.45	--	--	193.87	36.68	902.77	383.07	745.69	312.53	412.78	135.41
Other hardwoods	241.52	87.67	726.59	165.56	598.66	100.42	459.74	79.60	538.35	91.55	511.00	65.97	517.56	55.02
Total	386.44	47.81	519.65	61.84	274.52	37.22	458.88	38.22	385.91	34.14	415.88	25.59	411.27	20.13
Nonstocked	16.05	3.95	5.12	3.32	26.06	14.71	12.41	4.05	14.61	5.35	13.41	3.28	14.48	2.41
All forest types	366.62	8.48	278.43	13.22	242.51	15.08	341.10	11.74	274.63	12.64	311.52	8.61	330.59	5.38

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = fewer than 0.005 trees per acre were estimated; the average was calculated using a ratio of means formula across plots within forest type groups.

^a Includes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-16--Average number of dead trees^a per acre on forest land, by forest type group and ownership group, Oregon, 2001 - 2010

Forest type group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private Noncorporate		All Private		All owners	
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
	<i>Number of trees per acre</i>													
Softwoods:														
Douglas-fir	27.27	1.08	19.79	1.40	19.58	2.17	11.74	0.90	11.45	1.12	11.65	0.71	19.35	0.57
Fir / spruce / mtn. hemlock	41.17	2.01	24.86	3.97	18.78	7.83	10.28	1.54	24.39	7.14	15.11	2.74	35.85	1.69
Hemlock / Sitka spruce	31.81	2.99	29.16	5.35	23.46	8.45	29.03	6.11	19.58	4.51	26.94	4.88	28.82	2.58
Lodgepole pine	30.94	3.14	25.24	7.23	2.06	1.55	6.36	2.05	13.33	5.17	8.00	2.02	26.00	2.46
Ponderosa pine	10.80	0.91	13.92	3.48	6.60	5.45	6.55	1.11	10.46	1.84	8.40	1.05	10.15	0.69
Western juniper	4.54	1.09	3.19	0.57	--	--	1.04	0.53	1.54	0.38	1.49	0.34	2.61	0.33
Western larch	43.59	6.10	--	--	--	--	5.14	1.81	--	--	2.84	1.49	36.15	5.76
Other western softwoods	16.98	6.88	24.07	0.00	--	--	--	--	--	--	--	--	13.89	5.16
Total	26.06	0.75	14.16	0.84	16.98	1.83	11.25	0.73	9.45	0.78	10.50	0.54	19.03	0.44
Hardwoods:														
Alder / maple	21.00	4.24	11.65	4.69	22.78	3.06	15.40	1.95	12.60	1.71	13.97	1.29	16.25	1.19
Aspen / birch	17.01	7.64	4.50	3.37	--	--	--	--	36.18	19.93	19.64	14.32	13.48	5.44
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	5.35	2.78	4.43	2.33	4.14	2.20
Tanoak / laurel	67.34	11.80	34.56	18.94	--	--	13.07	2.89	9.36	2.85	11.41	2.05	44.38	7.23
Western oak	27.77	6.22	16.70	3.00	8.79	4.61	18.44	4.38	12.68	1.87	14.46	1.88	16.67	1.66
Woodland hardwoods	7.19	2.51	11.29	3.18	--	--	10.36	2.69	17.90	4.43	16.23	3.68	11.92	2.01
Other hardwoods	19.05	6.91	16.92	3.99	22.88	8.56	19.30	6.94	13.42	2.87	15.47	3.08	16.94	2.32
Total	41.08	5.73	17.41	3.37	20.27	2.67	15.56	1.57	12.49	1.02	13.75	0.88	21.08	1.56
Nonstocked	34.24	6.48	26.43	19.72	25.37	18.00	3.37	1.48	4.02	1.36	3.66	1.02	20.94	3.74
All forest types	27.15	0.78	14.76	0.92	17.92	1.59	11.50	0.65	9.93	0.63	10.80	0.45	19.32	0.43

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = fewer than 0.005 trees per acre were estimated; the average was calculated using a ratio of means formula across plots within forest type groups.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-17--Net cubic volume of dead trees^a on forest land, by county and land status, Oregon 2001-2010

County	Land Status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million cubic feet</i>														
Western Oregon:														
Benton	72.9	21.4	2.1	2.1	75.0	21.5	--	--	--	--	--	--	75.0	21.5
Clackamas	404.5	64.2	--	--	404.5	64.2	182.1	48.2	--	--	182.1	48.2	586.5	75.4
Clatsop	133.2	23.8	--	--	133.2	23.8	--	--	--	--	--	--	133.2	23.8
Columbia	34.4	9.1	0.7	0.7	35.1	9.3	--	--	--	--	--	--	35.1	9.3
Coos	226.3	43.7	0.9	0.7	227.2	43.7	2.3	2.0	--	--	2.3	2.0	229.6	43.8
Curry	320.3	58.8	40.9	28.3	361.2	64.3	91.3	30.2	33.9	17.8	125.2	34.9	486.4	72.0
Douglas	1,152.1	99.3	32.2	21.8	1,184.4	101.3	150.7	67.9	6.5	4.4	157.2	68.0	1,341.5	119.1
Hood River	105.0	34.7	0.1	0.1	105.1	34.7	108.5	42.5	--	--	108.5	42.5	213.6	54.1
Jackson	598.7	70.0	41.3	12.7	640.0	71.1	30.2	16.3	1.4	1.1	31.6	16.3	671.6	72.6
Josephine	536.8	100.8	20.5	10.8	557.3	101.2	34.1	16.3	3.1	3.1	37.2	16.6	594.5	102.3
Lane	1,204.0	111.4	22.2	10.9	1,226.2	111.5	270.6	51.2	5.4	5.6	276.0	51.4	1,502.2	116.1
Lincoln	185.4	30.8	--	--	185.4	30.8	21.3	17.1	--	--	21.3	17.1	206.7	35.0
Linn	611.3	81.0	0.1	0.0	611.3	81.0	64.3	24.6	--	--	64.3	24.6	675.6	83.3
Marion	141.4	32.2	10.4	7.4	151.8	32.9	119.2	46.3	0.1	0.1	119.2	46.3	271.1	55.5
Multnomah	46.3	35.4	--	--	46.3	35.4	104.0	44.4	--	--	104.0	44.4	150.4	56.4
Polk	70.1	32.9	0.9	0.8	71.1	32.9	--	--	--	--	--	--	71.1	32.9
Tillamook	299.0	45.8	--	--	299.0	45.8	1.6	1.7	--	--	1.6	1.7	300.6	45.8
Washington	52.4	13.5	--	--	52.4	13.5	0.6	0.7	--	--	0.6	0.7	53.1	13.5
Yamhill	63.3	17.9	--	--	63.3	17.9	--	--	--	--	--	--	63.3	17.9
Total	6,257.5	222.6	172.5	41.5	6,429.9	224.2	1,180.8	128.1	50.4	19.4	1,231.2	129.3	7,661.1	238.1

Table A2-17--Net cubic volume of dead trees^a on forest land, by county and land status, Oregon 2001-2010 (continued)

County	Land Status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million cubic feet</i>													
Eastern Oregon:														
Baker	124.8	22.7	15.5	12.3	140.3	25.7	39.6	27.2	--	--	39.6	27.2	179.9	37.0
Crook	129.3	30.1	7.4	2.2	136.7	30.1	54.8	34.3	--	--	54.8	34.3	191.5	45.5
Deschutes	194.9	40.9	34.6	19.2	229.5	45.0	53.4	19.0	29.6	18.2	83.0	26.2	312.6	51.4
Gilliam	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Grant	521.7	56.3	14.9	12.6	536.6	57.4	141.2	35.0	7.6	5.0	148.8	35.3	685.4	65.8
Harney	47.7	12.3	8.6	3.0	56.3	12.7	--	--	--	--	--	--	56.3	12.7
Jefferson	164.4	40.3	21.9	15.7	186.3	43.1	62.3	42.2	--	--	62.3	42.2	248.6	60.1
Klamath	407.8	56.0	19.4	7.1	427.3	56.3	289.3	48.4	30.9	15.2	320.2	50.0	747.4	74.1
Lake	274.6	42.9	17.8	6.1	292.3	43.7	15.8	11.2	1.6	1.2	17.3	11.3	309.7	45.0
Malheur	1.0	1.0	2.8	1.6	3.8	1.9	--	--	--	--	--	--	3.8	1.9
Morrow	67.9	29.0	4.9	5.0	72.8	29.4	--	--	--	--	--	--	72.8	29.4
Sherman	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Umatilla	242.6	50.0	9.4	8.7	252.0	50.7	7.8	6.3	--	--	7.8	6.3	259.8	51.0
Union	168.8	28.9	0.1	0.1	168.9	28.9	63.6	23.7	--	--	63.6	23.7	232.6	37.0
Wallowa	155.4	29.7	2.6	2.5	158.0	29.8	289.6	49.7	9.4	8.0	299.0	50.3	457.0	57.6
Wasco	124.9	28.4	8.2	3.6	133.1	28.6	13.2	13.2	--	--	13.2	13.2	146.2	31.5
Wheeler	69.7	20.0	0.6	0.6	70.3	20.0	15.6	15.7	--	--	15.6	15.7	85.9	25.4
Total	2,695.6	127.2	168.6	33.8	2,864.2	130.4	1,046.1	103.9	79.1	25.5	1,125.2	106.1	3,989.4	158.0
All counties	8,953.0	256.2	341.1	53.5	9,294.1	259.2	2,226.9	164.9	129.5	32.1	2,356.4	167.3	11,650.5	285.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-17--Net cubic volume of dead trees^a on forest land, by county and land status, Oregon 2001-2010

County	Land Status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total		Total	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million cubic feet</i>														
Western Oregon:														
Benton	72.9	21.4	2.1	2.1	75.0	21.5	--	--	--	--	--	--	75.0	21.5
Clackamas	404.5	64.2	--	--	404.5	64.2	182.1	48.2	--	--	182.1	48.2	586.5	75.4
Clatsop	133.2	23.8	--	--	133.2	23.8	--	--	--	--	--	--	133.2	23.8
Columbia	34.4	9.1	0.7	0.7	35.1	9.3	--	--	--	--	--	--	35.1	9.3
Coos	226.3	43.7	0.9	0.7	227.2	43.7	2.3	2.0	--	--	2.3	2.0	229.6	43.8
Curry	320.3	58.8	40.9	28.3	361.2	64.3	91.3	30.2	33.9	17.8	125.2	34.9	486.4	72.0
Douglas	1,152.1	99.3	32.2	21.8	1,184.4	101.3	150.7	67.9	6.5	4.4	157.2	68.0	1,341.5	119.1
Hood River	105.0	34.7	0.1	0.1	105.1	34.7	108.5	42.5	--	--	108.5	42.5	213.6	54.1
Jackson	598.7	70.0	41.3	12.7	640.0	71.1	30.2	16.3	1.4	1.1	31.6	16.3	671.6	72.6
Josephine	536.8	100.8	20.5	10.8	557.3	101.2	34.1	16.3	3.1	3.1	37.2	16.6	594.5	102.3
Lane	1,204.0	111.4	22.2	10.9	1,226.2	111.5	270.6	51.2	5.4	5.6	276.0	51.4	1,502.2	116.1
Lincoln	185.4	30.8	--	--	185.4	30.8	21.3	17.1	--	--	21.3	17.1	206.7	35.0
Linn	611.3	81.0	0.1	0.0	611.3	81.0	64.3	24.6	--	--	64.3	24.6	675.6	83.3
Marion	141.4	32.2	10.4	7.4	151.8	32.9	119.2	46.3	0.1	0.1	119.2	46.3	271.1	55.5
Multnomah	46.3	35.4	--	--	46.3	35.4	104.0	44.4	--	--	104.0	44.4	150.4	56.4
Polk	70.1	32.9	0.9	0.8	71.1	32.9	--	--	--	--	--	--	71.1	32.9
Tillamook	299.0	45.8	--	--	299.0	45.8	1.6	1.7	--	--	1.6	1.7	300.6	45.8
Washington	52.4	13.5	--	--	52.4	13.5	0.6	0.7	--	--	0.6	0.7	53.1	13.5
Yamhill	63.3	17.9	--	--	63.3	17.9	--	--	--	--	--	--	63.3	17.9
Total	6,257.5	222.6	172.5	41.5	6,429.9	224.2	1,180.8	128.1	50.4	19.4	1,231.2	129.3	7,661.1	238.1

Table A2-17--Net cubic volume of dead trees^a on forest land, by county and land status, Oregon 2001-2010 (continued)

County	Land Status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total		All forest land	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million cubic feet</i>													
Eastern Oregon:														
Baker	124.8	22.7	15.5	12.3	140.3	25.7	39.6	27.2	--	--	39.6	27.2	179.9	37.0
Crook	129.3	30.1	7.4	2.2	136.7	30.1	54.8	34.3	--	--	54.8	34.3	191.5	45.5
Deschutes	194.9	40.9	34.6	19.2	229.5	45.0	53.4	19.0	29.6	18.2	83.0	26.2	312.6	51.4
Gilliam	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Grant	521.7	56.3	14.9	12.6	536.6	57.4	141.2	35.0	7.6	5.0	148.8	35.3	685.4	65.8
Harney	47.7	12.3	8.6	3.0	56.3	12.7	--	--	--	--	--	--	56.3	12.7
Jefferson	164.4	40.3	21.9	15.7	186.3	43.1	62.3	42.2	--	--	62.3	42.2	248.6	60.1
Klamath	407.8	56.0	19.4	7.1	427.3	56.3	289.3	48.4	30.9	15.2	320.2	50.0	747.4	74.1
Lake	274.6	42.9	17.8	6.1	292.3	43.7	15.8	11.2	1.6	1.2	17.3	11.3	309.7	45.0
Malheur	1.0	1.0	2.8	1.6	3.8	1.9	--	--	--	--	--	--	3.8	1.9
Morrow	67.9	29.0	4.9	5.0	72.8	29.4	--	--	--	--	--	--	72.8	29.4
Sherman	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Umatilla	242.6	50.0	9.4	8.7	252.0	50.7	7.8	6.3	--	--	7.8	6.3	259.8	51.0
Union	168.8	28.9	0.1	0.1	168.9	28.9	63.6	23.7	--	--	63.6	23.7	232.6	37.0
Wallowa	155.4	29.7	2.6	2.5	158.0	29.8	289.6	49.7	9.4	8.0	299.0	50.3	457.0	57.6
Wasco	124.9	28.4	8.2	3.6	133.1	28.6	13.2	13.2	--	--	13.2	13.2	146.2	31.5
Wheeler	69.7	20.0	0.6	0.6	70.3	20.0	15.6	15.7	--	--	15.6	15.7	85.9	25.4
Total	2,695.6	127.2	168.6	33.8	2,864.2	130.4	1,046.1	103.9	79.1	25.5	1,125.2	106.1	3,989.4	158.0
All counties	8,953.0	256.2	341.1	53.5	9,294.1	259.2	2,226.9	164.9	129.5	32.1	2,356.4	167.3	11,650.5	285.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-18--Net volume of live trees^a on forest land, by county and broad species group, Oregon, 2001 - 2010

County	Broad species group					
	Softwood species		Hardwood species		All species groups	
	Total	SE	Total	SE	Total	SE
<i>Million cubic feet</i>						
Western Oregon:						
Benton	1,632.2	328.1	357.2	90.6	1,989.4	358.0
Clackamas	4,680.3	400.7	266.3	58.9	4,946.6	413.2
Clatsop	1,595.3	252.1	277.3	65.9	1,872.6	276.8
Columbia	796.3	170.6	201.7	49.7	998.0	199.8
Coos	3,224.7	412.3	480.3	77.7	3,705.0	440.5
Curry	3,424.0	359.1	946.2	117.6	4,370.2	418.8
Douglas	13,812.5	711.5	1,002.0	90.5	14,814.5	736.0
Hood River	1,222.9	207.5	19.4	8.7	1,242.3	209.1
Jackson	5,078.5	410.1	560.9	62.7	5,639.3	427.1
Josephine	2,649.5	282.2	632.1	78.2	3,281.6	327.1
Lane	15,350.5	729.6	745.9	92.5	16,096.3	751.1
Lincoln	3,001.3	444.5	311.5	67.2	3,312.8	464.0
Linn	5,239.3	504.8	244.8	49.5	5,484.2	514.6
Marion	1,966.7	313.9	154.0	44.3	2,120.7	328.8
Multnomah	754.4	208.0	69.3	35.9	823.7	217.6
Polk	1,052.9	251.5	112.5	46.1	1,165.4	259.4
Tillamook	2,806.6	315.3	600.6	89.9	3,407.2	349.4
Washington	1,074.6	207.1	136.4	41.0	1,211.0	221.0
Yamhill	1,010.0	227.2	214.4	65.7	1,224.4	250.8
Total	70,372.7	1,177.9	7,332.6	270.2	77,705.2	1,215.6
Eastern Oregon:						
Baker	1,287.2	155.4	5.2	2.5	1,292.5	155.6
Crook	841.0	104.8	2.3	1.1	843.3	105.0
Deschutes	2,058.4	206.7	4.4	4.4	2,062.8	206.8
Grant	3,272.8	199.3	10.2	2.7	3,283.0	199.5
Harney	897.2	109.4	37.3	12.8	934.5	113.4
Jefferson	731.9	124.7	0.6	0.4	732.5	124.8
Klamath	6,270.5	328.8	10.5	3.3	6,281.1	329.0
Lake	2,063.5	179.4	28.8	12.5	2,092.2	180.2
Malheur	26.1	8.6	8.5	5.9	34.7	11.2
Morrow	281.0	59.1	--	--	281.0	59.1
Umatilla	1,013.5	128.1	9.7	4.7	1,023.2	128.3
Union	1,595.5	169.2	1.6	1.1	1,597.2	169.3
Wallowa	2,150.8	208.2	2.4	1.1	2,153.1	208.3
Wasco	1,430.8	220.6	78.9	18.2	1,509.7	222.3
Wheeler	449.1	79.7	1.7	1.1	450.8	79.8
Total	24,369.5	484.6	202.3	27.5	24,571.8	485.4
All counties	94,742.2	1,269.8	7,534.9	271.5	102,277.0	1,304.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^a Includes all live trees >= 5 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-19--Net volume of dead trees^a on forest land, by forest type group and stand size class, Oregon 2001-2010

Forest type group	Stand size class							
	Large-diameter stands		Medium-diameter stands		Small-diameter stands		All classes	
	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million cubic feet</i>								
Softwoods:								
Douglas-fir	4,638.0	199.9	97.1	19.0	270.1	73.4	5,005.2	211.2
Fir / spruce / mtn.hemlock	2,623.2	151.4	32.9	10.1	185.3	49.4	2,841.4	158.5
Hemlock / Sitka spruce	772.9	96.6	7.7	5.0	14.6	6.4	795.2	97.1
Lodgepole pine	191.3	31.0	121.6	25.2	182.9	38.1	495.7	55.0
Ponderosa pine	724.1	61.2	16.4	4.8	73.5	21.7	814.0	64.9
Western juniper	47.4	8.0	4.3	2.1	4.4	1.8	56.1	8.4
Western larch	105.3	38.8	2.1	2.0	19.8	10.2	127.2	40.1
Other western softwoods	45.8	23.8	--	--	5.6	4.7	51.4	24.3
Total	9,148.2	253.0	282.0	33.9	756.1	99.2	10,186.3	265.2
Hardwoods:								
Alder / maple	263.6	39.8	47.4	11.9	32.7	20.4	343.8	46.1
Aspen / birch	2.0	2.0	1.5	1.1	0.9	0.6	4.4	2.4
Elm / ash / cottonwood	5.1	3.6	--	--	0.3	0.3	5.5	3.6
Tanoak / laurel	94.7	19.2	39.2	12.2	261.4	71.4	395.3	75.5
Western oak	54.5	12.5	69.7	17.8	49.4	20.8	173.6	29.9
Woodland hardwoods	15.0	5.7	0.9	0.8	5.9	4.3	21.9	7.2
Other hardwoods	35.5	14.7	28.1	8.7	49.2	21.7	112.8	27.5
Total	470.6	48.3	186.9	26.0	400.0	80.0	1,057.4	96.6
Nonstocked	--	--	--	--	--	--	406.7	91.8
All forest types	9,618.7	254.9	468.9	42.6	1,156.1	126.6	11,650.5	285.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-20--Net volume of dead trees^a on forest land, by forest type group and ownership group, Oregon 2001-2010

Forest type group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Noncorporate		All private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million cubic feet</i>													
Softwoods:														
Douglas-fir	3,366.9	188.4	801.7	80.7	249.4	35.2	378.1	35.3	209.2	28.8	587.3	44.5	5,005.2	211.2
Fir / spruce / mtn. hemlock	2,584.2	153.4	128.9	27.7	6.1	4.9	41.3	8.9	80.9	27.2	122.2	28.4	2,841.4	158.5
Hemlock / Sitka spruce	555.6	89.2	66.0	24.9	44.3	17.7	96.4	18.9	32.9	13.8	129.3	23.2	795.2	97.1
Lodgepole pine	442.3	52.5	33.3	15.5	0.1	0.1	11.8	5.1	8.2	2.9	20.0	5.9	495.7	55.0
Ponderosa pine	676.6	61.7	34.6	13.6	4.2	3.1	39.3	9.3	59.3	11.7	98.7	14.8	814.0	64.9
Western juniper	19.4	6.0	27.6	5.1	--	--	0.3	0.2	8.8	3.0	9.1	3.0	56.1	8.4
Western larch	125.6	40.1	--	--	--	--	1.6	1.3	--	--	1.6	1.3	127.2	40.1
Other western softwoods	48.4	24.1	3.0	2.8	--	--	--	--	--	--	--	--	51.4	24.3
Total	7,818.9	242.4	1,095.1	87.3	304.1	39.0	568.9	41.4	399.3	42.7	968.2	57.5	10,186.3	265.2
Hardwoods:														
Alder / maple	107.9	30.6	5.3	2.5	87.6	27.0	82.2	15.8	60.9	14.7	143.1	21.3	343.8	46.1
Aspen / birch	1.3	0.9	0.4	0.4	--	--	--	--	2.8	2.2	2.8	2.2	4.4	2.4
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	5.5	3.6	5.5	3.6	5.5	3.6
Tanoak / laurel	323.7	73.6	15.2	8.0	--	--	40.0	13.4	16.4	6.3	56.5	14.7	395.3	75.5
Western oak	59.2	22.4	47.4	15.5	1.5	1.0	23.2	7.3	42.3	10.1	65.5	12.3	173.6	29.9
Woodland hardwoods	6.2	3.7	3.3	1.8	--	--	1.0	0.8	11.4	5.8	12.4	5.8	21.9	7.2
Other hardwoods	40.2	21.0	28.2	14.0	7.8	5.9	12.0	4.8	24.6	8.0	36.6	9.3	112.8	27.5
Total	538.5	84.8	99.7	22.5	96.9	27.7	158.4	22.3	163.9	21.5	322.3	30.2	1,057.4	96.6
Nonstocked	374.6	91.1	11.1	8.8	8.3	6.2	8.2	2.9	4.5	2.0	12.7	3.6	406.7	91.8
All forest types	8,732.0	262.2	1,205.9	89.0	409.4	45.7	735.5	46.1	567.7	47.4	1,303.2	63.0	11,650.5	285.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^a Includes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-21--Net volume of live trees^a on forest land, by species group and ownership group, Oregon, 2001 - 2010

Species group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Noncorporate		All private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million cubic feet</i>													
Softwoods:														
Douglas-fir	26,905.5	792.2	9,643.0	529.1	3,673.1	352.4	8,432.8	440.4	4,590.9	356.7	13,023.7	522.5	53,245.3	1,075.9
Engelmann and other spruces	591.2	70.2	0.2	0.2	--	--	27.9	15.0	66.4	32.1	94.3	35.4	685.6	78.6
Incense-cedar	429.0	53.6	229.0	55.3	22.8	13.1	121.5	22.1	81.5	19.4	203.0	29.0	883.7	83.2
Lodgepole pine	2,093.4	119.7	206.0	51.2	49.0	23.6	177.3	31.2	128.7	40.4	306.0	50.2	2,654.4	141.8
Ponderosa and Jeffrey pines	6,563.8	226.9	496.0	73.1	140.6	45.8	749.3	67.5	1,056.4	94.0	1,805.7	108.2	9,006.0	264.7
Sitka spruce	448.0	165.8	20.8	18.6	304.4	145.7	315.3	89.3	119.3	42.0	434.5	98.6	1,207.7	247.4
Sugar pine	498.1	66.6	233.8	51.9	1.0	1.1	41.7	16.9	10.6	5.5	52.3	17.8	785.2	86.3
True fir	9,459.4	425.1	946.0	150.3	116.6	39.0	682.8	82.0	575.2	78.5	1,257.9	111.2	11,780.0	465.6
Western hemlock	3,971.0	259.2	881.3	118.2	520.7	109.9	1,980.5	223.5	448.1	87.6	2,428.6	236.6	7,801.5	384.0
Western juniper	132.6	15.3	260.4	23.7	18.4	6.3	30.2	6.6	205.5	19.8	235.7	20.7	647.1	35.3
Western larch	685.5	74.0	1.7	1.7	1.6	1.0	36.0	9.3	55.8	15.6	91.8	17.8	780.6	76.1
Western redcedar	1,078.2	125.7	172.7	40.7	45.3	20.0	233.7	49.5	189.0	50.3	422.7	70.1	1,718.8	151.2
Other western softwoods	3,033.2	261.9	330.5	76.1	7.9	8.1	45.5	19.8	129.0	48.4	174.5	52.3	3,546.1	277.8
Total	55,888.9	953.7	13,421.2	599.1	4,901.3	412.5	12,874.4	545.7	7,656.3	439.9	20,530.7	625.4	94,742.2	1,269.8
Hardwoods:														
Cottonwood and aspen	31.1	13.4	15.7	9.3	22.3	18.7	13.5	7.9	76.8	23.9	90.2	25.2	159.4	35.3
Oak	97.9	20.6	159.4	24.5	45.9	25.8	185.1	65.5	398.9	55.2	584.1	85.0	887.2	94.4
Red alder	512.5	71.5	196.4	40.1	636.6	84.7	939.8	98.2	568.5	77.3	1,508.3	119.1	2,853.8	165.2
Woodland hardwoods	39.8	5.9	18.1	8.9	0.4	0.3	2.3	1.4	18.1	6.8	20.4	7.0	78.7	12.8
Other western hardwoods	922.7	98.6	677.0	72.3	180.1	39.7	851.9	92.9	924.1	99.1	1,776.0	130.6	3,555.8	182.4
Total	1,604.1	127.7	1,066.6	88.8	885.2	103.8	1,992.6	160.8	1,986.3	149.6	3,979.0	203.6	7,534.9	271.5
All species groups	57,493.0	967.0	14,487.8	615.5	5,786.6	445.7	14,867.0	601.0	9,642.7	493.9	24,509.7	674.1	102,277.0	1,304.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^a Includes all live trees >= 5 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-22--Net volume of dead trees^a on forest land, by species group and ownership group, Oregon 2001-2010

Species group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Noncorporate		All private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million cubic feet</i>													
Softwoods:														
Douglas-fir	3,373.1	168.4	697.3	64.9	294.8	37.5	410.9	34.7	204.4	24.1	615.3	41.1	4,980.5	187.3
Engelmann and other spruces	124.2	26.9	--	--	--	--	--	--	5.1	3.4	5.1	3.4	129.3	27.1
Incense-cedar	47.2	9.4	9.9	3.9	--	--	9.0	4.3	4.2	2.0	13.2	4.7	70.4	11.2
Lodgepole pine	572.7	59.4	44.4	15.6	2.2	1.5	12.7	4.7	30.6	13.7	43.3	14.4	662.6	63.1
Ponderosa and Jeffrey pines	561.4	43.9	50.3	16.6	5.0	2.3	32.3	7.9	59.2	10.5	91.5	13.0	708.3	48.8
Sitka spruce	24.2	11.1	0.1	0.1	23.0	12.3	15.6	5.0	15.2	10.6	30.8	11.7	78.2	20.3
Sugar pine	233.7	44.8	50.6	17.4	--	--	1.1	0.9	4.1	2.8	5.2	2.9	289.6	48.1
True fir	2,071.3	117.6	111.7	25.5	7.5	3.6	57.9	10.4	65.8	14.7	123.7	17.8	2,314.1	121.7
Western hemlock	308.7	39.3	50.5	18.2	28.2	9.2	67.9	13.7	9.3	3.3	77.2	14.1	464.6	46.4
Western juniper	8.0	2.0	20.4	4.2	--	--	0.4	0.2	5.5	1.6	5.9	1.7	34.3	4.9
Western larch	189.5	24.8	1.9	2.0	0.9	0.9	4.0	1.7	7.0	3.4	11.0	3.8	203.3	25.2
Western redcedar	92.3	19.7	16.1	11.4	13.6	10.4	11.6	3.3	11.7	3.8	23.3	5.0	145.3	25.5
Other western softwoods	871.5	81.0	58.8	19.8	1.9	1.5	13.3	6.8	15.2	8.5	28.4	10.9	960.7	84.1
Total	8,478.0	258.0	1,112.0	87.9	377.1	43.6	636.7	43.0	437.3	43.8	1,074.0	59.2	11,041.1	280.6
Hardwoods:														
Cottonwood and aspen	4.3	1.9	1.7	1.4	--	--	0.1	0.1	3.6	2.3	3.7	2.3	9.7	3.3
Oak	27.6	14.5	13.9	5.4	0.3	0.2	12.6	4.0	33.7	8.3	46.4	9.2	88.2	18.0
Red alder	72.5	19.9	9.7	3.6	19.5	5.3	34.9	6.6	35.7	8.6	70.6	10.8	172.3	23.5
Woodland hardwoods	15.1	3.6	7.4	2.5	0.2	0.2	0.6	0.3	4.0	1.4	4.6	1.4	27.3	4.6
Other western hardwoods	134.6	23.4	61.1	11.6	12.3	6.7	50.5	10.0	53.5	9.2	104.0	13.4	312.0	30.0
Total	254.1	36.9	93.8	14.9	32.3	8.7	98.8	13.1	130.4	15.3	229.2	19.7	609.4	45.1
All species groups	8,732.0	262.2	1,205.9	89.0	409.4	45.7	735.5	46.1	567.7	47.4	1,303.2	63.0	11,650.5	285.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-23--Net volume of dead trees^a on forest land, by species group and diameter class, Oregon 2001-2010

Species group	Diameter class (inches)															
	5.0-6.9		7.0-8.9		9.0-10.9		11.0-12.9		13.0-14.9		15.0-16.9		17.0-18.9		19.0-20.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million cubic feet</i>																
Softwoods:																
Douglas-fir	126.0	6.4	203.9	11.4	230.5	14.8	197.3	13.6	196.2	15.5	204.4	18.2	212.7	21.2	223.8	23.0
Engelmann and other spruces	3.6	0.9	4.9	1.9	7.4	2.5	7.0	2.6	7.3	2.9	12.3	4.6	4.9	3.1	12.2	5.4
Incense-cedar	3.7	1.0	2.8	0.8	4.6	1.3	3.5	1.2	2.1	1.2	1.4	1.0	4.6	2.5	5.4	3.6
Lodgepole pine	67.6	5.8	117.8	10.3	155.2	15.7	121.3	19.5	90.8	14.3	47.5	11.0	25.7	7.7	7.8	4.1
Ponderosa and Jeffrey pines	18.3	2.0	23.4	2.5	30.3	4.1	40.6	6.6	37.9	6.0	36.7	8.7	27.0	6.0	42.3	10.1
Sitka spruce	3.3	1.0	3.9	1.2	10.4	5.2	7.6	3.5	5.8	2.6	3.5	2.4	--	--	2.4	1.8
Sugar pine	0.6	0.2	2.0	0.7	2.9	1.1	1.6	1.0	2.3	1.4	4.4	2.2	8.1	4.0	6.3	3.3
True fir	74.0	6.0	127.1	10.3	152.4	11.9	169.4	13.3	196.8	18.8	176.1	19.1	201.5	21.6	151.1	20.3
Western hemlock	20.9	3.4	27.8	4.8	33.0	4.7	30.7	5.3	16.3	4.0	27.4	7.1	26.2	6.7	28.5	8.3
Western juniper	1.7	0.3	3.3	0.6	4.2	1.4	2.4	0.7	4.5	1.3	4.5	1.7	2.3	1.2	2.4	1.5
Western larch	3.2	0.6	11.2	2.6	16.6	3.8	21.0	5.1	13.9	4.0	22.6	6.4	29.1	7.7	15.5	6.4
Western redcedar	1.6	0.4	2.7	0.7	2.7	0.9	2.9	1.5	3.2	2.2	3.8	1.8	4.3	2.7	6.1	3.1
Other western softwoods	19.3	2.3	36.3	4.6	50.9	6.9	66.0	8.5	71.5	10.6	82.4	14.2	80.0	14.3	86.3	16.6
Total	343.7	12.2	567.1	21.1	701.2	28.3	671.3	31.0	648.7	32.4	626.8	35.3	626.5	37.6	590.1	38.9
Hardwoods:																
Cottonwood and aspen	1.7	0.6	1.7	1.0	2.4	1.3	2.8	1.5	0.9	0.9	0.2	0.2	--	--	--	--
Oak	13.1	2.2	11.4	2.9	11.5	3.0	11.2	3.6	2.7	1.4	5.6	3.0	7.8	3.4	3.2	1.7
Red alder	14.6	1.9	23.7	3.2	18.2	3.0	21.6	4.6	17.6	5.2	19.7	5.8	7.0	3.6	12.2	5.0
Woodland hardwoods	4.8	0.8	6.6	1.3	4.7	1.2	5.9	1.5	2.6	1.2	2.7	1.6	--	--	--	--
Other western hardwoods	60.9	6.4	55.9	6.5	44.0	6.4	43.1	6.9	24.2	6.0	22.7	5.8	15.6	5.5	11.8	6.2
Total	95.1	7.5	99.3	8.0	80.8	8.1	84.5	9.5	47.9	8.2	51.0	9.1	30.5	7.4	27.1	8.2
All species groups	438.9	14.5	666.4	22.6	782.0	29.3	755.8	32.3	696.6	33.4	677.9	36.6	656.9	38.4	617.3	39.7

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-23--Net volume of dead trees^a on forest land, by species group and diameter class, Oregon 2001-2010 (Continued)

Species group	Diameter class (inches)															
	21.0-22.9		23.0-24.9		25.0-26.9		27.0-28.9		29.0-30.9		31.0-32.9		33.0-34.9		35.0-36.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million cubic feet</i>																
Softwoods:																
Douglas-fir	215.8	25.2	200.8	24.9	214.2	27.3	231.8	33.3	206.4	25.2	163.9	14.1	189.8	17.2	199.0	18.7
Engelmann and other spruces	13.9	6.9	11.0	6.0	12.7	5.5	13.4	6.3	4.5	2.1	3.9	2.3	5.0	3.3	3.3	2.4
Incense-cedar	5.8	3.0	3.7	2.9	7.0	4.0	0.8	0.6	7.4	3.9	2.1	1.0	4.8	2.1	0.9	0.9
Lodgepole pine	16.7	7.6	5.7	4.5	2.0	1.0	2.0	1.2	--	--	1.1	1.1	1.0	1.1	0.5	0.5
Ponderosa and Jeffrey pines	39.6	9.9	40.8	8.8	39.4	7.1	42.2	6.5	44.8	7.0	38.6	6.7	47.5	7.6	39.7	8.3
Sitka spruce	--	--	0.7	0.8	--	--	--	--	3.0	1.8	0.5	0.4	1.5	1.4	0.6	0.5
Sugar pine	7.8	4.4	17.7	8.9	1.2	0.9	7.9	5.6	6.5	5.5	7.7	3.4	9.3	4.0	10.1	4.3
True fir	186.9	25.9	140.8	22.3	87.3	14.6	93.2	16.3	93.9	16.6	72.7	10.0	70.9	10.7	54.5	9.4
Western hemlock	17.0	9.2	17.9	7.6	13.1	8.3	27.8	12.1	25.6	10.0	19.9	4.7	15.9	4.6	22.5	7.2
Western juniper	1.2	1.1	1.9	1.2	2.1	0.7	1.2	0.6	0.8	0.5	1.5	0.8	0.3	0.4	--	--
Western larch	10.9	5.7	11.3	5.0	11.2	3.1	8.4	3.1	6.7	3.0	4.6	2.2	4.5	2.3	2.7	1.9
Western redcedar	14.8	6.5	7.3	4.7	1.4	1.4	8.5	8.6	2.5	1.8	8.0	2.9	8.0	3.0	8.3	4.3
Other western softwoods	85.1	17.9	49.7	12.5	39.2	9.0	48.7	16.4	48.6	12.7	28.5	6.6	20.9	4.8	23.5	6.2
Total	615.5	46.0	509.2	40.4	430.8	35.2	486.1	46.1	450.7	35.8	353.1	20.9	379.4	24.2	365.6	27.0
Hardwoods:																
Cottonwood and aspen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oak	2.8	2.8	8.6	5.1	8.8	6.1	--	--	--	--	--	--	--	--	1.7	1.7
Red alder	3.7	2.2	7.9	5.2	8.0	4.9	12.0	7.0	3.7	3.4	--	--	--	--	--	--
Other western hardwoods	8.3	5.0	3.7	3.7	9.0	5.4	7.3	5.0	2.2	1.6	--	--	1.1	0.7	1.1	1.0
Total	14.8	6.2	20.2	8.2	25.7	9.5	19.3	8.6	5.9	3.7	--	--	1.1	0.7	2.8	2.0
All species groups	630.3	46.3	529.4	41.2	456.5	36.5	505.4	46.9	456.6	36.0	353.1	20.9	380.5	24.2	368.4	27.1

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-23--Net volume of dead trees^a on forest land, by species group and diameter class, Oregon 2001-2010 (Continued)

Species group	Diameter class (inches)														All classes	
	37.0-38.9		39.0-40.9		41.0-42.9		43.0-44.9		45.0-46.9		47.0-48.9		49.0 +		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million cubic feet</i>																
Softwoods:																
Douglas-fir	189.5	17.5	210.6	22.8	149.3	18.1	154.7	18.3	137.4	17.5	125.5	17.1	797.1	68.8	4,980.5	187.3
Engelmann and other spruces	--	--	--	--	--	--	--	--	2.0	2.0	--	--	--	--	129.3	27.1
Incense-cedar	0.1	0.1	2.0	1.6	--	--	3.2	2.5	1.8	1.9	2.4	2.4	--	--	70.4	11.2
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	662.6	63.1
Ponderosa and Jeffrey pines	20.4	6.0	25.2	7.2	8.0	3.8	8.5	4.8	8.2	5.1	22.5	8.9	26.3	11.3	708.3	48.8
Sitka spruce	--	--	0.7	0.4	--	--	--	--	1.1	0.8	--	--	32.9	13.4	78.2	20.3
Sugar pine	23.6	7.8	16.7	6.0	22.4	8.4	8.6	5.1	16.9	7.6	15.6	8.0	89.4	24.5	289.6	48.1
True fir	47.2	9.6	43.4	10.2	34.2	8.4	35.7	10.4	15.7	6.1	36.8	11.2	52.5	13.2	2,314.1	121.7
Western hemlock	14.9	5.6	5.8	3.2	17.0	6.0	10.7	6.1	1.2	0.7	4.8	3.1	39.8	11.9	464.6	46.4
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	34.3	4.9
Western larch	4.2	3.0	1.7	1.7	--	--	--	--	--	--	--	--	3.8	3.9	203.3	25.2
Western redcedar	2.1	1.2	2.8	2.0	3.5	2.3	2.2	1.1	10.7	4.5	2.6	2.7	35.4	15.6	145.3	25.5
Other western softwoods	29.3	9.1	12.0	4.8	13.4	6.3	10.9	4.5	6.6	4.1	2.4	2.4	49.2	20.0	960.7	84.1
Total	331.2	25.5	320.9	27.6	247.8	23.6	234.5	23.8	201.6	22.9	212.7	24.8	1,126.4	84.9	11,041.1	280.6
Hardwoods:																
Cottonwood and aspen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.7	3.3
Oak	--	--	--	--	--	--	--	--	--	--	--	--	--	--	88.2	18.0
Red alder	--	--	--	--	1.1	0.8	--	--	1.3	1.3	--	--	--	--	172.3	23.5
Other western hardwoods	--	--	--	--	--	--	--	--	--	--	1.0	0.9	--	--	312.0	30.0
Total	--	--	--	--	1.1	0.8	--	--	1.3	1.3	1.0	0.9	--	--	609.4	45.1
All species groups	331.2	25.5	320.9	27.6	248.9	23.6	234.5	23.8	202.9	23.0	213.6	24.9	1,126.4	84.9	11,650.5	285.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-24--Net volume of live trees^a on forest land, by forest type group and stand origin, Oregon, 2001 - 2010

Forest type group	Stand origin				Total	
	Natural Stands		Artificial regeneration			
	Total	SE	Total	SE	Total	SE
<i>Million cubic feet</i>						
Softwoods:						
Douglas-fir	47,591.5	1,320.3	11,603.4	585.9	59,195.0	1,318.0
Fir / spruce / mtn. hemlock	14,509.0	681.3	203.1	55.9	14,712.1	682.8
Hemlock / Sitka spruce	6,294.0	597.5	535.3	131.0	6,829.2	609.8
Lodgepole pine	2,522.5	179.3	27.0	7.3	2,549.5	179.4
Ponderosa pine	9,156.1	353.6	295.9	45.7	9,451.9	354.9
Western juniper	835.2	55.6	4.5	3.8	839.8	55.7
Western larch	468.7	107.5	10.2	6.3	478.9	107.6
Other western softwoods	89.0	35.8	5.8	6.2	94.8	36.4
Total	81,465.9	1,369.0	12,685.2	599.1	94,151.2	1,330.6
Hardwoods:						
Alder / maple	3,638.5	312.1	426.9	79.6	4,065.3	319.8
Aspen / birch	36.6	17.4	1.1	1.1	37.8	17.5
Elm / ash / cottonwood	151.2	63.2	3.6	2.2	154.8	63.2
Tanoak / laurel	1,588.5	229.8	86.3	39.9	1,674.8	232.8
Western oak	1,083.3	138.7	61.7	35.0	1,145.1	142.9
Woodland hardwoods	91.5	21.4	3.4	2.6	94.9	21.6
Other hardwoods	765.8	125.3	67.2	29.3	833.1	128.4
Total	7,355.6	420.5	650.2	99.6	8,005.8	427.4
Nonstocked	108.2	24.2	11.9	4.6	120.1	24.6
All forest types	88,929.7	1,370.0	13,347.3	601.8	102,277.0	1,304.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error.

^a Includes all live trees >= 5 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-25--Net volume of dead trees^a on forest land, by forest type group and stand origin, Oregon 2001-2010

Forest type group	Stand origin					
	Natural Stands		Artificial regeneration		Total	
	Total	SE	Total	SE	Total	SE
<i>Million cubic feet</i>						
Softwoods:						
Douglas-fir	4,434.7	209.5	570.5	45.8	5,005.2	211.2
Fir / spruce / mtn. hemlock	2,819.5	158.3	21.9	8.8	2,841.4	158.5
Hemlock / Sitka spruce	745.3	96.5	49.9	12.4	795.2	97.1
Lodgepole pine	485.1	54.7	10.6	6.6	495.7	55.0
Ponderosa pine	763.5	62.3	50.6	18.3	814.0	64.9
Western juniper	56.1	8.4	--	--	56.1	8.4
Western larch	118.8	39.6	8.4	6.6	127.2	40.1
Other western softwoods	51.4	24.3	--	--	51.4	24.3
Total	9,474.4	264.7	711.9	52.6	10,186.3	265.2
Hardwoods:						
Alder / maple	311.6	45.4	32.2	8.7	343.8	46.1
Aspen / birch	4.4	2.4	--	--	4.4	2.4
Elm / ash / cottonwood	5.1	3.6	0.3	0.3	5.5	3.6
Tanoak / laurel	370.1	74.8	25.3	10.7	395.3	75.5
Western oak	171.2	29.9	2.4	1.9	173.6	29.9
Woodland hardwoods	20.5	7.1	1.4	1.1	21.9	7.2
Other hardwoods	106.3	27.4	6.5	2.8	112.8	27.5
Total	989.3	95.8	68.1	14.3	1,057.4	96.6
Nonstocked	376.3	90.8	30.4	13.5	406.7	91.8
All forest types	10,840.0	285.6	810.5	55.8	11,650.5	285.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-26--Net volume of live trees^a on forest land, by forest type group and stand age class, Oregon, 2001 - 2010

Forest type group	Stand age class (years)													
	1-20		21-40		41-60		61-80		81-100		101-120		121-140	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million cubic feet</i>														
Softwoods:														
Douglas-fir	1,115.1	104.9	8,814.7	468.8	9,654.9	620.8	5,288.0	495.2	6,590.7	551.9	4,955.8	565.3	3,670.3	482.0
Fir / spruce / mtn. hemlock	67.4	20.3	337.8	79.6	725.5	147.5	1,504.8	194.8	2,675.1	328.7	1,303.3	192.0	1,318.4	224.1
Hemlock / Sitka spruce	79.8	27.5	1,072.0	190.8	1,474.3	275.4	680.7	196.0	651.6	241.7	485.9	162.7	207.5	138.2
Lodgepole pine	83.7	15.8	172.8	29.6	440.7	64.0	702.3	101.0	739.7	110.1	299.7	74.7	63.6	33.8
Ponderosa pine	68.4	15.2	324.8	50.2	1,058.5	99.8	2,499.7	190.9	2,521.8	202.5	825.7	129.3	496.1	111.0
Western juniper	2.5	1.3	14.2	4.7	134.3	21.6	285.8	34.8	168.9	26.8	72.5	17.0	25.8	10.1
Western larch	28.2	20.3	11.6	7.8	22.7	18.4	25.2	23.4	155.2	63.3	75.8	41.6	52.1	37.5
Other western softwoods	5.7	6.2	0.4	0.2	5.4	3.6	2.6	2.6	9.0	5.8	21.0	14.1	23.5	22.1
Total	1,450.9	114.0	10,748.3	504.4	13,516.2	690.8	10,989.1	599.6	13,512.1	709.9	8,039.7	631.7	5,857.2	556.4
Hardwoods:														
Alder / maple	252.0	54.3	1,170.7	162.9	1,399.0	193.7	708.8	165.8	138.2	49.5	101.1	63.4	45.2	29.4
Aspen / birch	1.4	1.1	0.9	0.7	7.6	7.6	6.8	5.5	20.6	14.7	--	--	--	--
Elm / ash / cottonwood	6.1	3.5	23.9	22.5	1.1	1.3	70.7	39.1	50.6	44.1	--	--	--	--
Tanoak / laurel	30.4	12.8	151.2	48.3	401.8	100.8	211.0	87.0	442.9	142.3	85.1	60.8	91.2	62.6
Western oak	11.5	5.7	70.2	35.3	323.2	70.9	257.5	53.4	313.0	84.3	53.6	24.9	93.8	62.3
Woodland hardwoods	0.5	0.5	7.8	4.9	9.6	5.4	20.0	10.8	48.2	16.2	4.3	4.6	3.7	3.7
Other hardwoods	28.8	16.4	190.9	68.7	210.9	61.2	218.7	67.4	138.8	56.4	31.5	17.6	9.0	9.3
Total	330.6	58.5	1,615.6	186.7	2,353.3	234.1	1,493.6	209.0	1,152.3	187.4	275.6	93.1	242.8	93.6
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--	--
All forest types	1,781.5	126.5	12,363.8	524.3	15,869.5	718.8	12,482.6	631.6	14,664.4	731.1	8,315.3	638.1	6,100.0	563.7

Table A2-26--Net volume of live trees^a on forest land, by forest type group and stand age class, Oregon, 2001 - 2010 (Continued)

Forest type group	Stand age class (years)										All classes	
	141-160		161-180		181-200		201 plus		Unknown		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE		
<i>Million cubic feet</i>												
Softwoods:												
Douglas-fir	3,518.2	471.1	2,029.4	404.0	2,323.8	373.3	11,231.1	850.2	2.9	2.9	59,195.0	1,318.0
Fir / spruce / mtn. hemlock	1,437.3	246.1	804.5	164.3	1,433.8	249.4	3,104.1	365.3	--	--	14,712.1	682.8
Hemlock / Sitka spruce	248.9	147.9	80.2	55.6	323.2	141.1	1,525.3	298.1	--	--	6,829.2	609.8
Lodgepole pine	23.9	16.9	10.0	10.1	13.2	12.3	--	--	--	--	2,549.5	179.4
Ponderosa pine	598.0	113.2	264.2	75.0	340.0	90.9	454.7	91.4	--	--	9,451.9	354.9
Western juniper	31.2	10.7	8.3	3.7	28.9	11.8	60.9	17.2	6.2	6.6	839.8	55.7
Western larch	28.1	18.9	--	--	16.6	16.5	63.5	51.5	--	--	478.9	107.6
Other western softwoods	--	--	4.1	4.1	--	--	23.2	22.9	--	--	94.8	36.4
Total	5,885.6	556.6	3,200.6	444.7	4,479.7	475.2	16,462.8	946.8	9.1	7.2	94,151.2	1,330.6
Hardwoods:												
Alder / maple	86.2	55.6	101.7	63.4	6.0	6.1	56.3	37.3	--	--	4,065.3	319.8
Aspen / birch	--	--	--	--	0.5	0.5	--	--	--	--	37.8	17.5
Elm / ash / cottonwood	2.4	2.2	--	--	--	--	--	--	--	--	154.8	63.2
Tanoak / laurel	10.9	10.9	48.6	47.4	--	--	201.7	82.5	--	--	1,674.8	232.8
Western oak	11.1	11.1	--	--	--	--	--	--	11.3	5.7	1,145.1	142.9
Woodland hardwoods	0.2	0.2	--	--	--	--	--	--	0.6	0.6	94.9	21.6
Other hardwoods	--	--	3.8	3.4	0.6	0.6	--	--	--	--	833.1	128.4
Total	110.8	57.8	154.1	79.2	7.1	6.1	258.0	90.1	11.9	5.8	8,005.8	427.4
Nonstocked	--	--	--	--	--	--	--	--	120.1	24.6	120.1	24.6
All forest types	5,996.4	559.4	3,354.8	451.1	4,486.8	475.2	16,720.9	950.1	141.1	26.3	102,277.0	1,304.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^a Includes all live trees >= 5 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-27--Net volume of dead trees^a on forest land, by forest type group and stand age class, Oregon 2001-2010

Forest type group	Stand age class (years)													
	1-20		21-40		41-60		61-80		81-100		101-120		121-140	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million cubic feet</i>														
Softwoods:														
Douglas-fir	216.4	38.8	285.2	27.9	439.5	41.7	373.6	50.2	590.6	69.4	410.3	58.1	413.2	70.5
Fir / spruce / mtn. hemlock	49.5	18.1	22.1	8.7	66.6	18.2	233.5	47.6	505.7	72.5	359.5	58.9	316.8	59.1
Hemlock / Sitka spruce	25.1	8.7	64.4	15.0	70.0	17.1	67.4	22.0	70.1	30.2	72.7	27.2	18.7	12.6
Lodgepole pine	131.6	35.4	24.7	10.5	98.7	27.5	110.9	24.8	83.3	15.7	32.3	9.9	5.5	3.5
Pinyon / juniper woodlands	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ponderosa pine	42.5	18.0	17.9	6.4	61.4	10.2	176.4	26.3	175.8	27.5	127.1	31.4	49.0	14.5
Western juniper	2.5	1.5	0.6	0.5	5.4	2.3	11.2	4.1	15.7	4.7	3.1	1.5	3.0	1.9
Western larch	23.7	12.8	0.3	0.3	3.0	3.1	1.2	1.2	13.8	6.7	21.4	13.9	18.7	15.4
Other western softwoods	--	--	--	--	--	--	4.3	3.6	12.6	12.0	10.1	6.3	3.0	2.8
Total	491.2	60.5	415.2	34.8	744.6	56.4	978.5	80.4	1,467.6	108.3	1,036.6	93.3	827.8	94.3
Hardwoods:														
Alder / maple	44.7	20.8	74.3	14.0	116.5	28.8	30.5	10.6	14.7	8.9	12.0	9.2	13.9	11.0
Aspen / birch	0.4	0.4	--	--	0.8	0.8	0.9	0.8	2.4	2.0	--	--	--	--
Elm / ash / cottonwood	--	--	1.0	0.7	--	--	3.8	3.4	0.7	0.6	--	--	--	--
Tanoak / laurel	247.0	71.1	20.7	8.6	49.5	16.0	18.2	7.0	30.2	10.3	7.2	5.4	5.8	5.1
Western oak	37.4	20.3	12.2	7.8	46.7	15.4	42.1	10.9	13.2	5.0	11.0	5.9	9.4	4.4
Woodland hardwoods	0.1	0.1	1.1	1.0	1.4	0.9	3.0	1.6	9.4	4.7	3.4	3.6	3.4	3.4
Other hardwoods	4.7	3.7	17.6	6.3	19.8	8.4	22.2	13.2	24.8	16.1	18.5	13.6	1.0	1.1
Total	334.3	76.7	126.9	19.2	234.6	37.1	120.8	21.6	95.4	22.2	52.1	18.6	33.6	13.4
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--	--
All forest types	825.5	97.2	542.2	39.2	979.2	66.5	1,099.3	83.1	1,563.0	110.4	1,088.6	95.1	861.4	95.2

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-27--Net volume of dead trees^a on forest land, by forest type group and stand age class, Oregon 2001-2010 (Continued)

Forest type group	Stand age class (years)											
	141-160		161-180		181-200		201 plus		Unknown		All classes	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million cubic feet</i>												
Softwoods:												
Douglas-fir	316.7	63.7	194.4	44.0	300.7	78.2	1,464.4	150.1	0.2	0.2	5,005.2	211.2
Fir / spruce / mtn. hemlock	259.1	48.8	190.1	43.2	304.8	57.5	533.8	72.3	--	--	2,841.4	158.5
Hemlock / Sitka spruce	19.3	9.8	10.9	8.0	61.9	33.2	314.6	74.0	--	--	795.2	97.1
Lodgepole pine	4.2	3.6	1.1	1.1	3.3	3.1	--	--	--	--	495.7	55.0
Ponderosa pine	77.5	29.3	31.8	13.4	30.4	14.4	24.4	8.8	--	--	814.0	64.9
Western juniper	2.3	1.4	1.1	0.7	4.5	3.3	6.8	2.8	--	--	56.1	8.4
Western larch	35.1	30.0	--	--	7.8	7.8	2.3	2.1	--	--	127.2	40.1
Other western softwoods	--	--	1.6	1.6	--	--	19.8	19.6	--	--	51.4	24.3
Total	714.1	90.4	431.1	63.4	713.4	103.5	2,366.1	178.8	0.2	0.2	10,186.3	265.2
Hardwoods:												
Alder / maple	12.2	9.7	20.4	15.5	4.5	4.5	--	--	--	--	343.8	46.1
Aspen / birch	--	--	--	--	--	--	--	--	--	--	4.4	2.4
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	5.5	3.6
Tanoak / laurel	1.6	1.6	4.6	4.5	--	--	10.5	4.7	--	--	395.3	75.5
Western oak	0.6	0.6	--	--	--	--	--	--	1.0	0.8	173.6	29.9
Woodland hardwoods	--	--	--	--	--	--	--	--	0.1	0.1	21.9	7.2
Other hardwoods	--	--	--	--	4.2	4.6	--	--	--	--	112.8	27.5
Total	14.5	9.9	25.1	16.1	8.7	6.5	10.5	4.7	1.0	0.8	1,057.4	96.6
Nonstocked	--	--	--	--	--	--	--	--	406.7	91.8	406.7	91.8
All forest types	728.5	90.9	456.2	65.4	722.1	103.7	2,376.6	178.9	408.0	91.8	11,650.5	285.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-28--Average net volume per acre of live trees^a on forest land, by forest type group and stand age class, Oregon, 2001 - 2010

Forest type group	Stand age class (years)													
	1-20		21-40		41-60		61-80		81-100		101-120		121-140	
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
	<i>Cubic feet per acre</i>													
Softwoods:														
Douglas-fir	560.19	45.26	3,723.06	106.79	6,282.78	194.27	5,652.59	308.09	5,525.98	292.28	8,594.20	510.83	8,891.44	565.64
Fir / spruce / mtn. hemlock	414.78	99.51	1,735.38	295.33	2,280.41	344.73	2,900.23	229.05	4,088.65	332.02	3,628.80	302.56	4,769.01	439.63
Hemlock / Sitka spruce	799.40	232.61	4,953.88	399.32	7,358.40	625.89	8,614.95	1,037.24	10,772.87	2,357.53	8,846.09	1,163.00	15,032.18	1,176.81
Lodgepole pine	224.25	32.96	522.37	58.18	1,163.70	89.64	1,687.73	146.40	2,105.07	171.86	2,563.73	302.04	2,297.91	682.84
Ponderosa pine	223.37	42.93	825.77	82.02	1,243.10	68.34	1,810.05	83.38	2,167.57	97.50	2,638.92	233.88	2,712.84	368.49
Western juniper	28.86	13.73	78.51	21.75	263.14	31.43	365.14	32.29	320.88	38.66	428.39	61.74	331.80	94.61
Western larch	621.48	384.95	672.86	303.37	1,659.19	796.80	2,991.70	1,022.70	3,641.11	768.99	3,187.83	914.61	4,563.64	70.31
Other western softwoods	701.78	402.17	28.97	13.22	614.04	234.99	318.81	109.90	474.79	297.56	1,116.51	515.94	3,110.77	0.00
Total	472.04	32.54	2,894.48	91.61	3,540.07	131.86	2,660.94	111.45	3,369.34	134.11	4,924.88	269.64	5,797.15	356.81
Hardwoods:														
Alder / maple	976.60	161.29	3,231.33	239.27	4,524.61	227.38	5,727.85	660.07	4,091.52	321.26	5,099.46	1,570.36	4,589.30	1,422.39
Aspen / birch	124.25	64.56	114.43	22.15	994.19	323.60	638.62	246.05	2,196.01	953.87	--	--	--	--
Elm / ash / cottonwood	297.01	119.79	1,726.05	1,172.30	421.51	525.07	3,454.87	859.56	5,753.07	3,553.40	--	--	--	--
Tanoak / laurel	149.88	58.23	1,707.32	313.64	3,251.99	447.06	3,967.74	1,036.67	6,285.78	966.41	7,518.49	979.59	7,133.99	277.02
Western oak	184.04	70.52	1,458.21	555.50	1,633.70	220.22	1,164.63	159.43	2,046.11	391.33	1,546.64	451.80	1,926.94	1,085.15
Woodland hardwoods	66.18	21.64	526.59	196.48	357.43	177.63	734.84	181.59	704.58	119.17	763.89	0.00	809.42	809.42
Other hardwoods	514.25	236.76	1,909.22	497.04	2,224.78	327.37	2,349.19	406.39	2,714.48	716.21	1,475.05	368.57	2,816.75	2,816.75
Total	535.19	81.28	2,542.37	187.23	3,085.80	176.16	2,717.81	277.66	2,917.74	345.53	2,970.25	688.06	3,073.00	875.22
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--	--
All forest types	482.61	30.25	2,843.03	82.78	3,464.44	113.79	2,667.62	103.37	3,328.85	125.77	4,819.76	259.04	5,599.55	340.64

Table A2-28--Average net volume per acre of live trees^a on forest land, by forest type group and stand age class, Oregon, 2001 - 2010 (Continued)

Forest type group	Stand age class (years)										Unknown		All classes	
	141-160		161-180		181-200		201 plus							
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE		
<i>Cubic feet per acre</i>														
Softwoods:														
Douglas-fir	9,249.28	623.66	11,489.97	1,168.85	9,120.13	688.92	10,989.02	362.31	373.33	113.04	5,453.70	99.27		
Fir / spruce / mtn. hemlock	5,237.05	470.72	4,466.60	440.92	5,181.11	498.39	6,673.06	316.99	--	--	3,997.18	123.96		
Hemlock / Sitka spruce	10,336.97	3,384.92	13,880.29	1,377.74	9,314.88	1,832.63	10,638.80	642.78	--	--	7,322.00	370.92		
Lodgepole pine	1,894.87	170.54	1,727.88	1,727.88	1,130.95	678.56	--	--	--	--	1,259.12	63.10		
Ponderosa pine	2,869.38	276.91	2,794.34	409.18	3,204.81	432.50	2,688.53	263.18	--	--	1,828.40	48.05		
Western juniper	350.74	86.07	183.70	52.05	282.05	92.80	329.53	73.10	625.03	476.08	303.47	16.04		
Western larch	1,622.28	552.40	--	--	2,800.68	2,800.68	5,597.50	2,100.36	--	--	2,430.53	371.15		
Other western softwoods	--	--	684.15	684.15	--	--	3,643.46	3,643.46	--	--	1,000.62	295.16		
Total	5,849.19	364.75	6,226.46	602.15	5,652.02	390.60	8,221.67	279.49	515.44	276.75	3,660.52	49.58		
Hardwoods:														
Alder / maple	7,047.07	1,679.37	5,999.76	1,080.70	1,785.42	1,140.18	4,873.59	469.24	--	--	3,501.97	168.73		
Aspen / birch	--	--	--	--	610.21	610.21	--	--	--	--	792.82	300.63		
Elm / ash / cottonwood	295.04	295.04	--	--	--	--	--	--	--	--	2,066.27	674.34		
Tanoak / laurel	2,460.81	0.00	7,730.98	0.00	--	--	6,867.86	1,191.74	--	--	2,780.01	296.93		
Western oak	2,394.53	142.93	--	--	686.07	0.00	--	--	548.93	194.99	1,447.61	136.28		
Woodland hardwoods	37.75	37.75	--	--	--	--	--	--	93.65	2.47	570.14	76.97		
Other hardwoods	--	--	511.91	511.91	149.02	0.00	--	--	--	--	1,933.21	200.99		
Total	3,186.62	1,298.43	5,030.60	1,319.11	878.94	691.68	6,304.61	909.35	429.09	159.43	2,445.07	99.69		
Nonstocked	--	--	--	--	--	--	--	--	121.42	23.20	121.42	23.20		
All forest types	5,760.24	357.08	6,159.19	573.31	5,603.84	387.86	8,183.27	274.82	136.36	23.50	3,411.03	44.24		

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 0.005 cubic feet per acre was estimated; the average was calculated using a ratio of means formula across plots within forest type groups.

^a Includes all live trees >= 5 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-29--Average net volume per acre of dead trees^a on forest land, by forest type group and stand age class, Oregon 2001-2010

Forest type group	Stand age class (years)													
	1-20		21-40		41-60		61-80		81-100		101-120		121-140	
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
<i>Cubic feet per acre</i>														
Softwoods:														
Douglas-fir	108.70	18.67	120.47	10.64	286.01	21.49	399.39	43.82	495.22	48.02	711.49	74.87	1,000.89	124.39
Fir / spruce / mtn. hemlock	304.34	96.62	113.69	41.50	209.22	49.63	450.08	79.31	772.88	84.72	1,000.94	113.00	1,145.84	138.98
Hemlock / Sitka spruce	251.45	73.15	297.62	49.21	349.55	60.91	852.59	166.55	1,158.82	357.34	1,324.41	276.64	1,354.00	204.85
Lodgepole pine	352.45	83.74	74.76	30.21	260.66	65.43	266.55	50.63	237.18	33.34	276.27	58.83	200.08	89.51
Ponderosa pine	138.71	56.27	45.43	15.35	72.16	10.74	127.72	17.47	151.11	21.17	406.28	84.98	267.71	62.94
Western juniper	28.27	14.71	3.08	2.95	10.50	4.35	14.35	5.11	29.86	8.41	18.58	8.01	38.45	22.77
Western larch	523.72	208.32	18.66	18.66	217.09	217.09	138.25	138.25	322.66	109.01	900.44	405.20	1,636.70	675.39
Other western softwoods	--	--	--	--	--	--	525.39	521.67	667.17	667.17	535.57	134.01	396.42	396.42
Total	159.82	18.52	111.82	8.58	195.02	12.97	236.93	17.64	365.97	23.91	634.97	45.48	819.28	71.89
Hardwoods:														
Alder / maple	173.39	76.69	205.19	29.87	376.62	75.56	246.34	67.79	436.70	205.36	604.38	349.36	1,413.55	778.66
Aspen / birch	33.32	33.32	--	--	99.41	99.41	86.94	48.15	253.74	165.63				
Elm / ash / cottonwood	--	--	71.77	23.55	--	--	186.66	186.66	74.68	74.68				
Tanoak / laurel	1,219.51	288.66	233.66	77.55	400.55	102.34	342.76	82.60	428.62	81.74	633.62	173.91	457.23	220.86
Western oak	598.77	263.07	254.03	130.66	235.87	66.16	190.45	38.01	86.56	27.12	316.80	137.56	193.30	59.80
Woodland hardwoods	14.82	14.82	73.33	73.33	52.97	19.22	109.43	27.97	137.15	52.93	612.26	612.26	756.37	756.37
Other hardwoods	83.91	59.20	175.91	47.00	208.98	72.48	238.93	127.30	484.52	270.01	864.60	442.02	320.49	320.49
Total	541.16	113.15	199.73	24.14	307.63	40.62	219.81	32.43	241.52	48.68	561.07	150.12	425.33	140.80
Nonstocked														
All forest types	223.64	24.93	124.67	8.21	213.77	12.80	234.92	16.02	354.81	22.24	631.00	43.83	790.70	67.97

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 0.005 cubic feet per acre was estimated; the average was calculated using a ratio of means formula across plots within forest type groups.

^a Includes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-29--Average net volume per acre of dead trees^a on forest land, by forest type group and stand age class, Oregon 2001-2010 (Continued)

Forest type group	Stand age class (years)											
	141-160		161-180		181-200		201 plus		Unknown		All classes	
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
<i>Cubic feet per acre</i>												
Softwoods:												
Douglas-fir	832.58	132.87	1,100.81	162.40	1,180.06	251.89	1,432.81	111.81	27.33	27.33	461.14	18.42
Fir / spruce / mtn. hemlock	944.12	113.87	1,055.47	145.32	1,101.30	134.71	1,147.55	94.94			772.00	34.08
Hemlock / Sitka spruce	799.76	70.39	1,893.04	424.46	1,785.13	610.97	2,194.53	345.18			852.55	85.23
Lodgepole pine	335.48	167.77	196.77	196.77	281.12	172.19					244.83	24.27
Ponderosa pine	371.65	127.23	336.15	116.34	286.26	118.04	144.08	45.61			157.47	11.82
Western juniper	25.42	13.73	24.41	11.91	43.62	30.69	36.63	13.72	--	--	20.27	2.94
Western larch	2,023.67	1,267.45			1,322.15	1,322.15	201.59	111.43			645.66	171.14
Other western softwoods			270.57	270.57			3,112.99	3,112.99			542.67	224.76
Total	709.66	73.23	838.65	89.02	900.07	107.13	1,181.64	71.99	11.90	11.90	396.04	10.29
Hardwoods:												
Alder / maple	997.45	560.08	1,205.38	553.39	1,331.23	1,331.23	--	--			296.16	34.74
Aspen / birch					--	--					93.27	42.96
Elm / ash / cottonwood	--	--							--	--	72.99	42.13
Tanoak / laurel	366.52	366.52	737.57	737.57			357.68	110.66			656.25	109.75
Western oak	137.17	137.17			--	--			46.69	40.10	219.52	33.04
Woodland hardwoods	--	--							8.80	8.80	131.60	35.29
Other hardwoods			--	--	1,068.38	1,068.38					261.80	56.46
Total	415.91	254.99	818.42	380.83	1,074.92	386.13	256.66	92.56	36.70	29.50	322.95	26.84
Nonstocked									411.15	87.52	411.15	87.52
All forest types	699.84	71.44	837.52	86.68	901.84	106.13	1,163.11	70.82	394.34	83.89	388.55	9.59

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 0.005 cubic feet per acre was estimated; the average was calculated using a ratio of means formula across plots within forest type groups.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-30--Average net volume of live trees^a on forest land, by forest type group and ownership group, Oregon, 2001 - 2010

Forest type group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private Noncorporate		All private		All owners	
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
	<i>Cubic feet per acre</i>													
Softwoods:														
Douglas-fir	7,177.69	183.87	6,957.45	269.28	6,033.89	378.03	3,040.84	135.04	3,523.82	212.20	3,193.89	113.86	5,453.70	99.27
Fir / spruce / mtn.hemlock	4,324.21	141.43	6,560.31	543.31	3,428.53	927.98	1,413.88	149.82	2,518.14	380.49	1,792.12	173.21	3,997.18	123.96
Hemlock / Sitka spruce	9,077.82	632.47	6,523.49	1,163.87	7,996.55	1,397.27	5,747.05	477.70	5,479.28	913.20	5,687.97	424.70	7,322.00	370.92
Lodgepole pine	1,315.98	70.45	2,037.19	411.18	1,411.07	564.30	608.98	74.73	1,426.37	394.23	800.53	112.98	1,259.12	63.10
Ponderosa pine	2,047.33	57.96	2,675.00	431.02	2,950.95	409.47	1,001.87	70.33	1,454.94	119.55	1,216.06	69.07	1,828.40	48.05
Western juniper	579.89	62.05	261.24	21.73	254.19	60.71	376.12	87.55	237.24	18.62	253.27	19.57	303.47	16.04
Western larch	2,916.82	394.19	--	--	--	--	85.96	45.25	464.17	136.95	255.11	102.55	2,430.53	371.15
Other western softwoods	971.51	327.19	3,110.77	3,110.77	--	--	1,222.78	1,222.78	51.91	14.59	314.39	255.46	1,000.62	295.16
Total	4,293.40	71.91	4,118.29	169.21	5,315.06	336.22	2,524.52	95.32	2,094.80	108.36	2,346.78	69.92	3,660.52	49.58
Hardwoods:														
Alder / maple	4,134.65	459.16	2,743.32	496.69	4,285.12	379.63	3,592.09	330.80	2,877.87	248.50	3,226.67	207.75	3,501.97	168.73
Aspen / birch	892.97	267.65	216.43	114.65	--	--	217.51	217.51	2,257.42	1,153.19	1,325.18	819.47	792.82	300.63
Elm / ash / cottonwood	--	--	4,711.29	4,711.29	5,604.69	5,604.69	360.88	195.09	2,165.66	809.00	1,856.22	681.39	2,066.27	674.34
Tanoak / laurel	2,731.57	453.42	2,817.14	931.41	--	--	3,128.02	569.64	2,493.76	468.82	2,845.37	382.41	2,780.01	296.93
Western oak	1,517.00	270.97	1,519.24	298.99	1,342.71	583.74	1,680.34	483.54	1,294.15	159.84	1,413.40	187.05	1,447.61	136.28
Woodland hardwoods	625.25	111.73	389.65	173.19	--	--	328.21	120.41	756.80	110.96	661.83	103.27	570.14	76.97
Other hardwoods	740.42	224.93	2,917.78	497.07	1,737.02	489.14	2,782.39	549.11	1,506.60	258.02	1,950.50	272.47	1,933.21	200.99
Total	2,472.65	244.91	1,937.24	232.25	3,526.51	351.25	2,921.09	229.67	2,035.23	132.54	2,399.02	124.28	2,445.07	99.69
Nonstocked	103.20	19.79	31.12	16.77	595.68	397.59	61.03	21.47	189.93	68.87	119.49	34.24	121.42	23.20
All forest types	4,054.59	67.98	3,796.86	152.17	4,800.56	274.38	2,484.41	86.03	2,009.22	85.42	2,272.92	59.42	3,411.03	44.24

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 0.005 cubic feet per acre was estimated; the average was calculated using a ratio of means formula across plots within forest type groups.

^aIncludes all live trees >= 5 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-31--Average net volume per acre of dead trees^a on forest land, by forest type group and ownership group, Oregon 2001-2010

Forest type group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private		All private		All owners	
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
	<i>Cubic feet per acre</i>													
Softwoods:														
Douglas-fir	804.11	40.96	505.09	47.29	377.92	43.38	125.22	10.89	149.35	18.62	132.87	9.49	461.14	18.42
Fir / spruce / mtn. hemlock	903.43	40.21	742.29	111.31	223.11	145.08	101.56	18.42	381.38	110.70	197.40	42.15	772.00	34.08
Hemlock / Sitka spruce	1,451.28	169.36	1,006.04	282.69	596.19	184.07	301.81	43.36	363.43	119.62	315.40	43.01	852.55	85.23
Lodgepole pine	292.48	30.28	302.73	121.10	4.80	4.80	40.57	16.64	91.81	25.44	52.57	14.28	244.83	24.27
Ponderosa pine	200.49	17.03	182.81	65.13	86.67	54.87	47.88	10.66	80.62	14.39	63.36	8.88	157.47	11.82
Western juniper	48.98	14.10	23.25	4.09	--	--	1.97	1.16	9.09	2.97	8.27	2.63	20.27	2.94
Western larch	779.83	199.20					82.26	42.65	--	--	45.47	29.39	645.66	171.14
Western white pine	825.24	564.31											825.24	564.31
Other western softwoods	651.75	314.39	396.42	396.42			--	--	--	--	--	--	422.31	192.48
Total	604.19	18.40	329.81	25.59	332.29	36.73	113.54	7.78	112.99	11.44	113.32	6.56	396.04	10.29
Hardwoods:														
Alder / maple	645.79	145.16	117.74	34.88	488.92	123.92	218.52	33.58	154.68	33.38	185.86	23.87	296.16	34.74
Aspen / birch	81.17	29.40	22.68	22.68			--	--	339.98	166.93	184.61	127.82	93.27	42.96
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	94.18	52.83	78.03	44.66	72.99	42.13
Tanoak / laurel	973.59	183.21	278.19	116.86			335.46	89.78	171.34	55.55	262.32	57.03	656.25	109.75
Western oak	491.06	152.56	289.24	78.90	39.29	18.95	160.82	38.26	130.87	25.55	140.12	21.33	219.52	33.04
Woodland hardwoods	118.36	62.93	66.69	28.03			71.78	29.84	225.47	80.72	191.42	66.08	131.60	35.29
Other hardwoods	557.65	240.87	314.62	132.43	236.45	151.46	145.51	50.20	159.98	41.57	154.94	32.32	261.80	56.46
Total	707.38	95.45	238.12	46.38	379.34	93.59	209.79	24.13	151.25	17.02	175.29	14.13	322.95	26.84
Nonstocked	784.79	170.95	144.50	105.80	240.43	151.49	37.45	11.68	24.85	10.49	31.74	8.04	411.15	87.52
All forest types	615.81	18.43	316.03	22.95	339.63	34.07	122.90	7.27	118.29	9.30	120.85	5.76	388.55	9.59

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 0.005 cubic feet per acre was estimated; the average was calculated using a ratio of means formula across plots within forest type groups.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-32--Net cubic volume of sawtimber-sized trees^a on timberland, by species group and ownership group, Oregon, 2001-2010

Species group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Noncorporate		All private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Million cubic feet</i>													
Softwoods:														
Douglas-fir	22,013.6	770.7	8,795.7	524.4	3,224.0	324.5	7,162.3	410.9	4,086.9	338.8	11,249.2	497.0	45,282.4	1,050.9
Engelmann and other spruces	389.3	57.6	--	--	--	--	21.5	11.8	62.3	31.0	83.8	33.2	473.1	66.5
Incense-cedar	338.1	45.8	208.0	54.0	22.1	12.8	98.0	20.5	58.3	15.7	156.3	25.5	724.6	76.2
Lodgepole pine	970.8	73.9	13.8	5.5	13.1	7.8	102.8	23.5	83.0	30.3	185.8	37.9	1,183.4	84.0
Ponderosa and Jeffrey pines	5,735.3	214.6	382.6	67.5	130.0	43.9	612.7	61.1	911.7	86.2	1,524.4	99.6	7,772.3	249.1
Sitka spruce	268.5	112.2	--	--	47.9	19.0	295.9	86.4	115.9	41.1	411.8	95.6	728.2	150.4
Sugar pine	436.1	63.4	209.8	50.8	1.0	1.1	38.1	15.8	10.0	5.5	48.1	16.7	694.9	83.0
True fir	6,243.5	355.4	537.0	130.6	86.3	30.4	546.5	72.0	487.3	70.1	1,033.9	98.8	7,900.7	392.2
Western hemlock	3,085.8	240.5	801.4	112.2	461.9	103.3	1,745.6	205.1	403.3	81.7	2,148.9	217.8	6,498.0	356.7
Western juniper	62.5	9.5	2.9	1.5	0.5	0.6	10.6	3.3	19.9	5.4	30.5	6.3	96.4	11.5
Western larch	457.8	56.7	1.7	1.7	0.8	0.6	29.5	8.2	47.8	14.7	77.3	16.5	537.5	59.1
Western redcedar	837.3	106.0	163.2	39.4	24.5	10.9	202.5	46.6	177.0	48.4	379.6	66.7	1,404.6	132.2
Other western softwoods	1,300.3	164.7	55.5	28.2	7.7	7.9	36.2	16.6	90.4	41.2	126.7	44.4	1,490.1	173.0
Total	42,138.9	982.8	11,171.5	595.0	4,019.6	350.6	10,902.2	507.7	6,554.0	413.5	17,456.2	593.7	74,786.2	1,277.8
Hardwoods:														
Cottonwood and aspen	19.5	10.2	9.3	8.8	5.2	5.7	12.6	7.7	62.2	20.8	74.9	22.2	108.9	26.6
Oak	17.8	4.8	39.7	10.0	16.3	13.0	35.3	11.8	64.4	12.2	99.7	16.7	173.6	23.9
Red alder	367.0	61.4	125.8	28.8	452.5	67.1	478.6	62.4	345.9	58.4	824.5	82.9	1,769.7	125.1
Other western hardwoods	449.3	67.5	284.5	39.4	67.9	22.6	396.3	59.0	456.9	57.2	853.1	80.2	1,654.7	114.7
Total	853.6	95.0	459.3	51.3	541.8	74.9	922.8	96.6	929.4	94.3	1,852.2	128.7	3,706.9	182.2
All species groups	42,992.5	995.1	11,630.8	606.2	4,561.5	372.0	11,825.0	535.0	7,483.4	444.1	19,308.4	622.7	78,493.1	1,304.0

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 cubic feet was estimated.

^a Includes sawtimber-sized trees that are >= 9 inches diameter at breast height for softwood species and >= 11 inches diameter at breast height for hardwood species.

Table A2-33--Net boardfoot volume (Scribner rule) of sawtimber trees^a on timberland, by county and ownership group, Oregon, 2001-2010

County	Ownership group									
	National forest		Other federal		State and local government		Private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million board feet, Scribner rule</i>										
Western Oregon:										
Benton	2,192.1	1,007.1	2,791.9	974.8	300.6	160.4	3,752.4	1,134.2	9,037.0	1,839.0
Clackamas	11,915.6	1,657.0	48.7	49.4	173.0	126.6	3,625.1	711.7	15,762.5	1,807.5
Clatsop	--	--	--	--	2,667.6	753.3	4,377.9	907.8	7,045.5	1,174.6
Columbia	--	--	245.3	272.7	379.8	359.3	3,078.3	762.9	3,703.4	879.0
Coos	3,218.6	1,271.7	4,732.2	1,312.9	1,758.0	716.0	5,918.7	1,064.2	15,627.6	2,213.1
Curry	10,992.5	1,604.8	647.5	362.8	--	--	2,992.3	536.0	14,632.2	1,730.2
Douglas	26,816.1	2,482.9	21,715.8	2,363.5	2,136.2	802.7	10,230.5	993.1	60,898.7	3,615.9
Hood River	2,669.6	684.0	--	--	205.4	128.3	285.4	131.8	3,160.4	708.2
Jackson	13,555.2	1,697.7	3,974.2	808.7	516.1	296.3	2,774.0	426.8	20,819.5	1,938.0
Josephine	4,525.9	974.0	5,031.2	853.1	299.6	161.8	1,377.5	295.4	11,234.3	1,336.1
Lane	46,162.3	3,380.7	7,154.6	1,154.3	1,423.5	627.0	9,279.4	1,210.7	64,019.8	3,792.7
Lincoln	8,827.5	2,020.3	928.0	670.8	653.9	430.9	3,919.1	868.9	14,328.5	2,339.6
Linn	13,290.1	2,082.9	2,931.1	959.4	407.6	352.8	6,149.1	1,010.8	22,777.8	2,524.7
Marion	3,800.0	1,074.9	146.6	148.7	274.6	194.3	2,365.1	643.8	6,586.3	1,279.9
Multnomah	1,043.9	659.5	1.8	1.9	--	--	413.1	337.5	1,458.8	740.8
Polk	--	--	2,230.6	1,141.3	109.6	82.9	2,458.9	692.8	4,799.1	1,337.6
Tillamook	3,379.4	1,023.4	829.3	463.7	7,644.9	1,046.8	2,845.6	702.4	14,699.2	1,651.4
Washington	--	--	102.3	94.8	2,301.1	694.8	2,439.7	636.1	4,843.1	941.4
Yamhill	1,084.9	624.9	2,283.0	927.1	11.2	11.2	1,854.2	617.2	5,233.3	1,264.5
Total	153,473.8	5,135.9	55,794.0	3,280.4	21,262.9	1,881.1	70,136.2	2,894.9	300,666.9	6,691.0
Eastern Oregon:										
Baker	5,104.8	735.4	11.5	8.9	14.6	13.4	253.9	90.3	5,384.8	741.5
Crook	2,595.6	446.9	49.5	50.2	--	--	306.2	88.8	2,951.3	458.4
Deschutes	6,484.9	907.0	50.0	30.0	--	--	344.0	101.6	6,878.9	915.1
Grant	11,079.2	854.5	145.2	74.3	203.3	138.3	860.2	177.4	12,287.9	886.3
Harney	3,316.3	524.6	238.0	138.8	--	--	70.1	46.4	3,624.4	545.2
Jefferson	926.1	315.8	--	--	--	--	1,649.1	436.4	2,575.3	538.7
Klamath	14,376.9	1,239.1	1,649.6	694.6	501.4	226.4	2,185.1	281.2	18,713.0	1,463.7
Lake	7,604.4	835.0	24.4	25.3	15.6	17.2	696.9	145.7	8,341.3	849.2
Malheur	--	--	24.1	19.7	--	--	--	--	24.1	19.7
Morrow	857.8	246.5	--	--	23.4	22.4	297.6	106.8	1,178.9	269.5
Umatilla	2,569.5	467.2	86.4	67.9	81.9	64.1	1,637.3	363.4	4,375.0	596.6
Union	4,309.1	660.7	15.5	14.3	72.5	73.2	1,505.4	313.7	5,902.5	736.0
Wallowa	3,203.6	557.8	25.8	26.9	37.0	36.8	1,736.8	358.6	5,003.2	664.6
Wasco	3,608.9	890.5	28.8	29.6	17.7	11.8	2,963.3	654.2	6,618.8	1,105.3
Wheeler	1,345.7	377.0	117.8	103.2	--	--	360.4	87.9	1,824.0	400.7
Total	67,382.9	2,121.3	2,466.7	722.7	967.4	286.7	14,866.3	942.2	85,683.3	2,436.4
All counties	220,856.6	5,553.1	58,260.7	3,354.0	22,230.3	1,902.4	85,002.6	3,043.2	386,350.2	7,110.0

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 board feet was estimated.

^aIncludes sawtimber-sized trees that are >= 9 inches diameter at breast height for softwood species and >= 11 inches diameter at breast height for hardwood species.

Table A2-34--Net boardfoot volume (Scribner rule) of sawtimber trees^a on timberland, by forest type group and ownership group, Oregon, 2001 - 2010

Forest type group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private Noncorporate		All private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million board feet, Scribner rule</i>														
Softwoods:														
Douglas-fir	125,567.2	5,188.1	49,539.3	3,310.4	16,139.5	1,822.7	31,646.7	2,137.4	19,473.6	1,892.5	51,120.3	2,719.8	242,366.4	6,732.0
Fir / spruce / mtn. hemlock	38,832.6	2,691.7	2,726.5	900.2	239.9	150.0	1,862.2	327.9	2,147.7	548.0	4,009.9	631.9	45,809.0	2,910.8
Hemlock / Sitka spruce	13,000.9	2,040.7	1,844.9	690.0	1,665.3	602.0	6,894.5	1,147.1	2,082.4	654.3	8,976.8	1,308.5	25,488.0	2,590.4
Lodgepole pine	4,814.8	476.2	54.9	24.9	10.6	6.9	488.1	112.6	411.6	163.4	899.7	196.1	5,780.0	519.7
Ponderosa pine	30,174.6	1,428.9	2,002.5	529.6	673.2	262.6	2,819.6	342.5	4,249.7	554.1	7,069.3	630.0	39,919.5	1,665.6
Western juniper	469.7	104.3	67.7	34.0	15.6	17.2	77.5	40.9	155.1	51.6	232.6	65.8	785.5	129.0
Western larch	1,287.2	384.9	--	--	--	--	6.2	4.7	18.3	15.3	24.5	16.0	1,311.7	385.2
Other western softwoods	180.5	134.8	--	--	--	--	10.0	11.1	--	--	10.0	11.1	190.6	135.2
Total	214,327.6	5,557.6	56,235.8	3,385.5	18,744.2	1,866.5	43,804.7	2,374.7	28,538.5	2,114.9	72,343.1	2,966.5	361,650.6	7,124.7
Hardwoods:														
Alder / maple	3,086.1	682.4	426.1	180.8	3,234.5	653.5	4,783.8	790.1	4,040.3	665.7	8,824.1	1,007.2	15,570.8	1,389.2
Aspen / birch	27.6	20.7	--	--	--	--	--	--	46.6	42.2	46.6	42.2	74.2	47.0
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	308.4	146.4	308.4	146.4	308.4	146.4
Tanoak / laurel	2,753.1	696.6	538.9	264.8	--	--	1,142.6	369.9	656.6	222.5	1,799.2	428.3	5,091.2	859.4
Western oak	383.1	126.7	481.5	183.5	66.6	47.7	288.7	138.0	303.5	90.2	592.2	164.3	1,523.4	281.0
Woodland hardwoods	45.7	22.4	3.7	3.8	--	--	2.5	2.8	84.5	41.3	87.1	41.4	136.5	47.2
Other hardwoods	56.8	26.8	571.5	206.4	75.6	40.7	507.4	173.3	333.9	96.1	841.4	197.4	1,545.3	288.8
Total	6,352.5	971.4	2,021.7	414.8	3,376.8	656.2	6,725.1	891.0	5,773.8	724.7	12,498.8	1,113.4	24,249.8	1,662.2
Nonstocked	176.5	53.4	3.2	2.8	109.4	95.2	43.9	20.7	116.8	43.6	160.6	48.2	449.8	119.4
All forest types	220,856.6	5,553.1	58,260.7	3,354.0	22,230.3	1,902.4	50,573.6	2,490.7	34,429.0	2,211.4	85,002.6	3,043.2	386,350.2	7,110.0

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 board feet was estimated.

^aIncludes sawtimber-sized trees that are >= 9 inches diameter at breast height for softwood species and >= 11 inches diameter at breast height for hardwood species.

Table A2-35--Net boardfoot volume (Scribner rule) of sawtimber trees^a on timberland, by forest type group and stand size class, Oregon, 2001 - 2010

Forest type group	Stand size class						All classes	
	Large-diameter stands		Medium-diameter stands		Small-diameter stands			
	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million board feet, Scribner rule</i>								
Softwoods:								
Douglas-fir	239,201.3	6,750.1	2,077.4	246.2	1,087.8	187.3	242,366.4	6,732.0
Fir / spruce / mtn. hemlock	44,869.2	2,909.1	404.4	120.8	535.3	116.5	45,809.0	2,910.8
Hemlock / Sitka spruce	25,227.4	2,584.7	181.9	74.1	78.6	49.7	25,488.0	2,590.4
Lodgepole pine	4,261.0	498.4	810.7	127.7	708.2	103.6	5,780.0	519.7
Ponderosa pine	38,920.4	1,666.6	343.2	63.3	655.9	128.7	39,919.5	1,665.6
Western juniper	717.0	126.4	5.6	4.6	62.9	25.9	785.5	129.0
Western larch	1,232.3	383.8	2.7	2.3	76.8	36.0	1,311.7	385.2
Other western softwoods	156.2	133.9	29.3	18.6	5.0	4.5	190.6	135.2
Total	354,584.9	7,159.7	3,855.3	317.0	3,210.5	280.9	361,650.6	7,124.7
Hardwoods:								
Alder / maple	14,194.7	1,376.9	1,252.8	233.1	123.3	70.6	15,570.8	1,389.2
Aspen / birch	41.5	41.8	5.1	5.4	27.6	20.7	74.2	47.0
Elm / ash / cottonwood	305.2	146.4	0.1	0.1	3.1	2.8	308.4	146.4
Tanoak / laurel	4,209.4	833.5	825.9	228.7	55.9	24.4	5,091.2	859.4
Western oak	1,263.8	273.2	205.4	65.0	54.2	26.9	1,523.4	281.0
Woodland hardwoods	94.0	37.0	2.5	2.8	40.0	29.2	136.5	47.2
Other hardwoods	866.2	224.1	474.7	165.6	204.5	82.1	1,545.3	288.8
Total	20,974.7	1,636.0	2,766.6	368.6	508.5	119.7	24,249.8	1,662.2
Nonstocked	--	--	--	--	--	--	449.8	119.4
All forest types	375,559.6	7,167.8	6,621.9	481.3	3,719.0	304.6	386,350.2	7,110.0

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; — = less than 50,000 board feet was estimated.

^a Includes sawtimber-sized trees that are >= 9 inches diameter at breast height for softwood species and >= 11 inches diameter at breast height for hardwood species.

Table A2-36--Net boardfoot volume (Scribner rule) of sawtimber trees on timberland, by species group and diameter class, Oregon, 2001 - 2010

Species group	Diameter class (inches)															
	9.0-10.9		11.0-12.9		13.0-14.9		15.0-16.9		17.0-18.9		19.0-20.9		21.0-22.9		23.0-24.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million board feet, Scribner rule</i>																
Softwoods:																
Douglas-fir	6,670.3	231.7	10,312.4	380.1	12,476.7	461.0	14,427.0	547.3	14,315.7	606.7	14,579.5	662.5	13,149.5	679.3	13,252.8	799.6
Engelmann and other spruces	98.5	18.2	170.3	31.7	237.3	52.8	337.0	76.8	290.7	64.5	202.4	64.5	333.1	91.7	229.7	77.4
Incense-cedar	72.1	9.3	75.6	10.6	134.6	21.2	100.4	21.2	111.4	24.8	137.4	28.2	108.1	27.4	94.8	35.4
Lodgepole pine	1,428.1	101.0	1,270.3	97.5	929.1	103.0	647.8	84.6	365.5	67.3	187.9	53.9	202.2	67.4	63.0	26.5
Ponderosa and Jeffrey pines	1,548.3	67.1	2,265.3	109.9	3,256.0	166.3	3,146.5	172.2	3,258.2	204.6	3,040.6	220.5	2,808.1	248.4	2,960.3	217.6
Sitka spruce	56.7	17.2	102.7	28.9	151.1	41.6	193.5	70.5	237.2	67.3	128.9	46.4	259.3	85.8	114.7	45.6
Sugar pine	20.2	7.4	21.8	7.7	34.1	10.8	69.2	26.2	48.7	18.2	88.3	33.4	31.2	20.4	194.7	60.5
True fir	1,757.0	94.7	2,652.3	145.3	3,187.7	181.3	3,334.8	211.9	3,858.1	280.1	3,543.8	302.5	3,125.4	313.2	3,042.4	301.1
Western hemlock	1,213.3	91.6	2,133.1	171.1	2,865.3	226.1	3,298.4	267.3	3,044.6	291.5	2,782.6	278.6	2,615.9	297.3	2,620.5	309.4
Western juniper	55.0	8.1	51.7	9.3	60.3	11.3	47.5	11.4	42.6	12.4	24.2	9.5	24.3	9.5	14.1	6.0
Western larch	137.4	22.1	235.7	34.5	247.7	48.7	425.8	67.7	310.0	65.9	398.4	89.6	163.6	52.5	276.5	82.7
Western redcedar	116.6	16.7	231.3	34.0	240.3	40.6	309.9	46.8	330.2	55.0	327.8	84.4	327.6	67.1	413.7	97.0
Other western softwoods	187.9	26.7	403.4	58.1	362.4	55.5	437.8	85.1	547.1	95.7	641.6	120.4	705.4	148.7	733.0	157.8
Total	13,361.4	298.1	19,925.7	475.6	24,182.8	588.4	26,775.6	701.2	26,760.0	792.5	26,083.5	835.4	23,853.8	877.0	24,010.2	964.1
Hardwoods:																
Cottonwood and aspen			33.0	19.5	44.4	23.5	39.0	29.4	48.2	30.6	56.7	37.0	71.7	46.7	30.1	29.4
Oak			93.1	16.8	87.2	18.6	60.1	13.0	49.2	13.5	48.8	15.6	11.7	7.8	6.9	6.5
Red alder			2,112.2	179.5	2,492.2	218.4	2,106.0	217.0	1,320.4	167.1	1,295.8	191.6	488.1	112.9	551.2	152.9
Other western hardwoods			1,285.3	112.4	1,040.1	93.3	911.3	109.1	762.3	105.6	364.8	71.2	726.1	125.9	392.1	98.4
Total			3,523.6	214.1	3,663.9	242.1	3,116.4	249.0	2,180.2	201.4	1,766.0	212.1	1,297.7	180.5	980.3	187.9
All species groups	13,361.4	298.1	23,449.3	517.7	27,846.7	639.4	29,892.0	739.8	28,940.2	826.6	27,849.5	875.0	25,151.5	893.5	24,990.4	978.2

Table A2-36--Net boardfoot volume (Scribner rule) of sawtimber trees on timberland, by species group and diameter class, Oregon, 2001 - 2010 (Continued)

Species group	Diameter class (inches)															
	25.0-26.9		27.0-28.9		29.0-30.9		31.0-32.9		33.0-34.9		35.0-36.9		37.0-38.9		39.0-40.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million board feet, Scribner rule</i>																
Softwoods:																
Douglas-fir	12,570.3	791.6	10,003.2	717.2	9,995.0	616.9	8,834.1	471.9	9,370.1	517.6	8,767.9	502.6	8,152.5	476.1	6,894.3	439.8
Engelmann and other spruces	110.2	27.1	68.4	23.3	95.6	37.0	81.9	39.2	66.8	29.2	88.4	49.8	44.9	26.0	16.3	17.3
Incense-cedar	112.3	39.9	158.5	53.1	58.8	28.3	123.2	24.7	106.2	23.1	106.5	25.4	131.0	34.3	116.8	31.3
Lodgepole pine	17.8	9.1	11.2	6.7	21.8	11.2	2.9	2.9	--	--	--	--	2.6	2.6	--	--
Ponderosa and Jeffrey pines	2,583.5	159.0	2,712.0	180.6	2,627.6	173.6	2,296.4	174.2	2,072.1	166.9	1,474.5	150.7	993.2	125.1	709.0	109.6
Sitka spruce	80.8	41.3	105.6	48.9	129.4	73.6	96.4	23.8	106.7	33.8	88.5	38.4	72.5	33.8	77.7	32.9
Sugar pine	158.7	59.1	185.4	80.8	195.4	78.7	143.8	43.0	200.7	50.8	196.2	51.9	159.1	46.3	137.4	51.1
True fir	2,713.5	281.0	2,391.2	302.5	2,363.2	288.4	1,500.7	168.9	1,329.2	158.4	1,246.4	157.2	1,013.9	159.4	642.4	114.6
Western hemlock	2,127.9	274.8	1,827.2	289.5	1,287.4	212.6	1,135.4	137.7	844.9	134.3	692.4	109.5	516.9	103.4	344.6	69.9
Western juniper	12.8	5.7	8.6	3.6	3.0	2.2	3.3	2.4	1.7	1.4	0.9	0.9	1.0	0.9	1.3	1.3
Western larch	179.5	42.8	104.8	24.4	102.5	31.5	128.2	42.8	12.2	12.6	21.9	18.5	9.7	10.2	24.7	18.3
Western redcedar	527.5	117.2	303.9	84.3	360.4	85.7	341.1	59.3	308.6	60.9	234.1	56.1	326.5	63.9	195.8	42.8
Other western softwoods	481.1	115.3	429.8	111.2	386.1	106.0	264.7	63.2	213.2	61.6	147.9	48.3	133.9	46.6	161.5	70.0
Total	21,675.8	921.6	18,309.9	871.4	17,626.1	789.9	14,952.3	573.9	14,632.5	599.9	13,065.6	581.8	11,557.7	547.6	9,321.6	491.7
Hardwoods:																
Cottonwood and aspen	2.2	2.0	154.7	87.4	64.4	60.7	15.7	11.7	54.4	35.8	--	--	11.9	12.5	30.8	28.6
Oak	40.2	24.9	25.9	18.7	24.4	18.3	18.9	8.7	5.5	5.1	3.3	3.7	9.4	8.0	2.5	2.5
Red alder	390.5	108.7	146.4	73.2	136.9	63.2	29.6	15.1	23.9	14.0	20.7	15.2	--	--	--	--
Other western hardwoods	291.9	79.1	230.2	75.0	190.8	81.0	143.3	34.7	47.7	18.9	123.8	33.7	104.4	34.4	50.1	25.2
Total	724.8	142.4	557.3	137.2	416.5	120.8	207.5	41.2	131.5	43.1	147.8	37.1	125.6	37.4	83.3	38.2
All species groups	22,400.7	934.1	18,867.1	883.3	18,042.7	797.6	15,159.9	576.0	14,764.0	601.7	13,213.4	583.1	11,683.3	549.0	9,405.0	492.8

Table A2-36--Net boardfoot volume (Scribner rule) of sawtimber trees on timberland, by species group and diameter class, Oregon, 2001 - 2010 (Continued)

Species group	Diameter class (inches)										All classes	
	41.0-42.9		43.0-44.9		45.0-46.9		47.0-48.9		49.0 +		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE		
<i>Million board feet, Scribner rule</i>												
Softwoods:												
Douglas-fir	6,678.5	458.5	6,058.3	423.1	5,240.0	413.5	5,710.8	444.9	25,738.7	1,847.6	223,197.7	5,741.4
Engelmann and other spruces	32.8	23.1	--	--	--	--	24.0	23.9	--	--	2,528.1	371.6
Incense-cedar	151.2	39.6	139.2	40.6	152.5	50.7	73.6	28.9	639.1	172.2	2,903.4	336.4
Lodgepole pine	--	--	--	--	--	--	--	--	23.4	23.4	5,173.6	387.7
Ponderosa and Jeffrey pines	545.3	104.1	276.3	71.5	235.3	75.8	111.2	50.7	557.5	210.1	39,477.3	1,335.0
Sitka spruce	176.1	66.4	190.6	85.2	137.0	51.3	135.3	82.3	820.1	440.0	3,460.6	814.1
Sugar pine	228.8	71.7	217.9	69.0	207.8	74.3	339.7	96.9	1,075.7	265.0	3,954.8	492.0
True fir	478.9	116.6	377.1	82.6	265.0	86.4	214.2	71.8	410.5	119.2	39,447.6	2,089.1
Western hemlock	409.4	87.8	267.9	69.6	182.5	61.2	167.0	59.7	230.3	72.6	30,607.5	1,763.5
Western juniper	--	--	--	--	--	--	--	--	--	--	352.4	42.4
Western larch	--	--	--	--	--	--	20.3	20.2	--	--	2,798.9	317.8
Western redcedar	237.0	58.8	104.3	35.9	198.4	50.2	80.3	35.0	662.1	160.0	6,177.5	601.2
Other western softwoods	150.0	74.9	71.3	41.0	66.8	44.5	183.6	88.9	386.9	140.9	7,095.4	907.0
Total	9,088.0	529.8	7,702.9	465.3	6,685.2	454.1	7,059.9	481.7	30,544.3	2,011.4	367,174.7	6,954.5
Hardwoods:												
Cottonwood and aspen	14.5	15.3	--	--	--	--	--	--	23.5	22.3	695.3	176.5
Oak	--	--	--	--	--	--	--	--	22.1	22.6	509.1	81.2
Red alder	--	--	--	--	--	--	--	--	18.5	10.8	11,132.5	796.9
Other western hardwoods	103.4	42.2	19.4	14.5	36.8	22.4	--	--	14.7	13.7	6,838.6	506.7
Total	118.0	44.8	19.4	14.5	36.8	22.4	--	--	78.9	36.1	19,175.6	1,014.7
All species groups	9,205.9	531.1	7,722.3	465.6	6,722.0	454.6	7,059.9	481.7	30,623.2	2,011.9	386,350.2	7,110.0

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 board feet was estimated.

^a Includes sawtimber-sized trees that are >= 9 inches diameter at breast height for softwood species and >= 11 inches diameter at breast height for hardwood species.

Table A2-37--Net boardfoot volume (International ¼-inch rule) of sawtimber trees^a on timberland, by species group and diameter class, Oregon, 2001 - 2010

Species group	Diameter class (inches)															
	9.0-10.9		11.0-12.9		13.0-14.9		15.0-16.9		17.0-18.9		19.0-20.9		21.0-22.9		23.0-24.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million board feet, International ¼-inch rule</i>																
Softwoods:																
Douglas-fir	11,414.5	393.4	16,225.2	592.5	18,568.5	681.2	20,656.2	776.8	19,948.8	838.6	19,745.4	885.7	17,557.7	896.2	17,298.2	1,031.2
Engelmann and other spruces	132.4	24.4	214.7	39.8	291.1	64.2	398.6	90.5	342.1	76.7	235.2	74.3	378.2	104.1	257.6	87.1
Incense-cedar	151.4	19.4	150.2	21.1	260.7	40.9	189.6	39.3	187.3	40.8	243.2	49.7	197.7	49.5	145.4	54.8
Lodgepole pine	1,959.3	139.1	1,645.6	126.9	1,158.9	126.9	787.7	102.7	434.4	79.4	218.7	62.6	231.6	76.5	71.1	29.7
Ponderosa and Jeffrey pines	2,124.6	91.2	2,961.6	142.1	4,103.8	208.2	3,893.4	212.7	3,955.4	246.2	3,643.0	261.8	3,299.9	289.0	3,431.2	252.0
Sitka spruce	105.4	31.5	175.7	47.4	250.6	65.6	299.4	103.3	356.7	97.4	185.2	65.2	377.1	118.6	179.9	69.8
Sugar pine	32.6	10.9	33.0	11.1	52.2	16.5	94.9	34.5	73.2	26.9	122.0	44.3	46.2	30.0	266.4	82.6
True fir	2,637.7	140.8	3,715.3	200.7	4,286.0	241.0	4,336.6	272.0	4,937.2	358.6	4,425.1	373.6	3,847.2	377.5	3,735.0	372.7
Western hemlock	2,081.3	151.7	3,353.4	261.3	4,230.3	328.2	4,702.6	376.3	4,195.6	392.7	3,757.0	369.5	3,467.9	388.5	3,416.6	398.2
Western juniper	74.2	10.9	67.4	12.1	76.7	14.3	60.2	14.5	53.4	15.5	30.3	11.8	30.8	12.0	18.0	7.7
Western larch	182.8	29.3	297.4	43.5	302.4	59.3	509.0	80.6	364.3	77.4	459.0	103.2	191.1	61.2	310.1	92.4
Western redcedar	217.1	29.9	396.3	54.7	395.9	64.0	491.2	73.2	507.9	83.2	487.4	121.6	496.3	99.8	584.0	134.3
Other western softwoods	335.0	46.6	652.6	91.1	568.4	84.5	619.5	113.2	729.9	121.9	859.6	156.8	923.9	194.1	941.2	199.1
Total	21,448.3	483.6	29,888.2	718.5	34,545.5	844.2	37,039.0	971.1	36,086.3	1,067.0	34,410.9	1,093.6	31,045.6	1,131.3	30,654.8	1,229.9
Hardwoods:																
Cottonwood and aspen			39.5	23.2	56.0	30.2	39.0	29.4	51.1	31.1	56.7	37.0	76.6	47.9	30.9	29.4
Oak			170.0	28.0	168.5	32.5	135.2	26.7	104.5	26.2	96.6	28.9	24.7	14.2	11.1	10.5
Red alder			2,117.0	179.5	2,498.3	218.5	2,125.6	218.1	1,324.1	167.3	1,313.3	194.1	488.1	112.9	551.2	152.9
Other western hardwoods			1,859.0	158.0	1,645.1	139.4	1,423.4	160.1	1,173.5	150.9	558.5	102.2	1,058.3	176.4	549.9	133.0
Total			4,185.5	242.5	4,367.9	266.3	3,723.2	278.5	2,653.2	230.3	2,025.1	228.8	1,647.8	220.9	1,143.1	209.7
All species groups	21,448.3	483.6	34,073.7	752.4	38,913.5	887.0	40,762.1	1,004.0	38,739.5	1,102.0	36,436.0	1,130.6	32,693.3	1,150.5	31,797.9	1,242.7

Table A2-37--Net boardfoot volume (International ¼-inch rule) of sawtimber trees^a on timberland, by species group and diameter class, Oregon, 2001 - 2010 (Continued)

Species group	Diameter class (inches)															
	25.0-26.9		27.0-28.9		29.0-30.9		31.0-32.9		33.0-34.9		35.0-36.9		37.0-38.9		39.0-40.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million board feet, International ¼-inch rule</i>																
Softwoods:																
Douglas-fir	16,257.1	1,013.4	12,858.1	910.4	12,684.5	778.6	11,130.3	587.2	11,718.8	636.4	10,900.7	616.0	10,102.0	584.7	8,497.2	533.2
Engelmann and other spruces	121.8	29.9	75.1	25.5	104.3	40.3	92.7	44.4	72.5	31.7	94.6	53.3	53.8	31.4	17.4	18.4
Incense-cedar	173.4	61.4	253.0	83.9	88.3	43.3	177.8	35.4	153.0	33.3	148.2	35.2	179.0	46.6	155.9	41.7
Lodgepole pine	20.7	10.6	12.8	7.6	24.8	12.6	3.3	3.4	--	--	--	--	3.3	3.3	--	--
Ponderosa and Jeffrey pines	2,936.3	183.0	3,072.9	208.6	2,947.9	196.7	2,544.1	192.2	2,293.6	184.3	1,624.5	166.2	1,090.9	137.0	777.7	120.0
Sitka spruce	124.3	62.5	153.5	70.2	162.5	91.2	136.6	32.6	140.3	43.9	113.7	47.2	93.8	42.8	103.7	43.3
Sugar pine	206.9	78.1	241.4	104.5	250.7	99.7	178.5	53.8	251.3	62.9	237.4	63.2	193.4	56.1	164.0	61.0
True fir	3,293.8	351.5	2,863.7	370.2	2,787.9	345.1	1,773.1	199.8	1,559.7	186.4	1,443.5	181.8	1,183.1	187.1	742.6	133.2
Western hemlock	2,738.9	350.5	2,309.0	363.8	1,613.5	264.3	1,397.3	167.6	1,045.9	166.4	838.9	131.7	632.3	126.1	426.6	85.3
Western juniper	15.8	7.0	10.9	4.6	3.9	2.8	4.1	3.0	2.3	1.9	1.2	1.2	1.3	1.3	1.8	1.8
Western larch	199.4	47.3	116.5	27.0	114.0	34.7	140.9	46.6	13.6	14.0	24.3	20.4	10.7	11.2	26.9	19.8
Western redcedar	755.5	166.9	437.8	120.0	491.8	115.6	468.1	81.2	421.9	83.6	319.2	76.3	437.4	84.0	267.7	58.2
Other western softwoods	593.8	142.7	540.7	139.7	479.4	136.5	319.0	77.1	264.4	75.1	174.1	55.8	159.2	54.5	189.7	78.1
Total	27,437.8	1,175.9	22,945.4	1,099.7	21,753.5	983.3	18,365.8	702.8	17,937.2	730.5	15,920.4	704.0	14,140.1	667.3	11,371.2	592.3
Hardwoods:																
Cottonwood and aspen	3.6	3.2	156.2	87.4	64.4	60.7	15.7	11.7	54.4	35.8	--	--	11.9	12.5	33.6	29.4
Oak	70.5	42.7	40.2	29.1	39.1	28.6	29.9	13.2	8.7	7.5	5.4	5.9	14.4	11.5	4.9	5.1
Red alder	390.5	108.7	146.4	73.2	136.9	63.2	29.6	15.1	23.9	14.0	20.7	15.2	--	--	--	--
Other western hardwoods	446.2	114.2	339.5	103.1	257.7	104.8	197.8	46.6	61.2	24.0	164.8	42.9	133.8	43.8	62.0	30.6
Total	910.8	169.9	682.3	155.9	498.2	139.6	273.0	53.3	148.2	45.9	190.9	45.9	160.1	46.9	100.5	42.7
All species groups	28,348.5	1,189.9	23,627.8	1,111.9	22,251.8	991.5	18,638.8	705.6	18,085.4	732.4	16,111.3	705.7	14,300.3	669.2	11,471.8	593.3

Table A2-37--Net boardfoot volume (International ¼-inch rule) of sawtimber trees on timberland, by species group and diameter class, Oregon, 2001 - 2010 (Continued)

Species group	Diameter class (inches)										All classes	
	41.0-42.9		43.0-44.9		45.0-46.9		47.0-48.9		49.0 +			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million board feet, International ¼-inch rule</i>												
Softwoods:												
Douglas-fir	8,207.5	554.8	7,432.9	513.4	6,411.4	499.1	6,945.3	535.9	31,446.6	2,223.6	296,006.9	7,208.9
Engelmann and other spruces	35.2	24.8	--	--	--	--	25.6	25.4	--	--	2,942.9	423.7
Incense-cedar	209.8	54.2	184.1	53.2	200.9	66.1	97.8	38.2	827.9	222.6	4,374.6	482.4
Lodgepole pine	--	--	--	--	--	--	--	--	39.2	39.3	6,611.3	485.5
Ponderosa and Jeffrey pines	598.9	114.2	296.9	76.3	255.3	82.3	122.0	55.9	615.7	233.4	46,589.8	1,548.6
Sitka spruce	217.7	80.4	227.3	101.1	168.9	63.0	164.2	99.8	988.3	520.5	4,724.8	1,026.7
Sugar pine	276.8	86.2	257.3	81.0	236.8	84.6	391.5	111.2	1,209.2	293.5	4,815.7	585.0
True fir	555.9	135.6	426.0	92.9	295.6	97.0	247.8	82.7	474.2	134.7	49,567.1	2,565.1
Western hemlock	497.8	106.1	333.5	86.0	221.5	74.1	208.2	73.3	285.8	88.5	41,754.0	2,339.4
Western juniper	--	--	--	--	--	--	--	--	--	--	452.2	54.2
Western larch	--	--	--	--	--	--	21.9	21.8	--	--	3,284.3	367.6
Western redcedar	314.3	75.6	141.9	48.2	261.6	65.4	108.8	46.6	862.3	210.4	8,864.2	845.3
Other western softwoods	176.6	86.0	80.4	46.2	74.2	49.5	205.3	97.8	458.2	166.4	9,345.1	1,113.6
Total	11,090.7	638.1	9,380.2	562.6	8,126.1	546.0	8,538.4	577.1	37,207.4	2,417.2	479,332.8	8,681.0
Hardwoods:												
Cottonwood and aspen	14.5	15.3	--	--	--	--	--	--	23.5	22.3	727.6	180.3
Oak	--	--	--	--	--	--	--	--	26.9	27.5	950.9	137.9
Red alder	--	--	--	--	--	--	--	--	18.5	10.8	11,184.2	798.5
Other western hardwoods	131.0	50.8	26.1	19.4	51.7	28.9	--	--	22.9	20.3	10,162.4	721.2
Total	145.5	53.0	26.1	19.4	51.7	28.9	--	--	91.8	42.1	23,025.1	1,157.3
All species groups	11,236.2	639.6	9,406.2	563.0	8,177.8	546.6	8,538.4	577.1	37,299.2	2,417.9	502,357.9	8,851.1

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 board feet was estimated.

^aIncludes sawtimber-sized trees that are >= 9 inches diameter at breast height for softwood species and >= 11 inches diameter at breast height for hardwood species.

Table A2-38--Net boardfoot volume (International ¼-inch rule) of sawtimber trees^a on timberland, by species group and ownership group, Oregon, 2001 - 2010

Species group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private Noncorporate		All private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Million board feet, International ¼-inch rule</i>														
Softwoods:														
Douglas-fir	147,605.6	5,364.2	58,527.7	3,643.3	20,821.1	2,154.9	43,570.3	2,606.6	25,482.2	2,219.7	69,052.5	3,213.6	296,006.9	7,208.9
Engelmann and other spruces	2,429.6	364.2	--	--	--	--	116.7	64.3	396.6	206.7	513.3	216.4	2,942.9	423.7
Incense-cedar	2,096.8	293.5	1,297.0	347.7	132.2	76.4	519.5	112.0	329.1	92.5	848.6	143.8	4,374.6	482.4
Lodgepole pine	5,435.4	427.8	74.6	29.9	73.3	45.4	559.6	131.6	468.4	176.8	1,028.0	217.9	6,611.3	485.5
Ponderosa and Jeffrey pines	34,906.5	1,346.1	2,384.9	438.3	771.4	262.5	3,334.7	350.7	5,192.3	504.6	8,527.0	582.0	46,589.8	1,548.6
Sitka spruce	1,837.4	795.4	--	--	292.7	112.8	1,836.8	564.0	757.9	272.4	2,594.7	625.8	4,724.8	1,026.7
Sugar pine	3,028.1	444.1	1,475.0	363.6	5.6	6.2	242.6	107.5	64.5	35.9	307.1	113.2	4,815.7	585.0
True fir	39,328.5	2,333.5	3,451.8	850.2	530.9	185.8	3,257.3	450.5	2,998.5	442.0	6,255.9	621.4	49,567.1	2,565.1
Western hemlock	20,325.1	1,619.4	5,182.8	743.2	2,972.0	679.0	10,746.9	1,290.6	2,527.3	525.1	13,274.2	1,375.2	41,754.0	2,339.4
Western juniper	293.5	44.9	13.0	6.8	2.0	2.2	49.1	15.0	94.5	25.6	143.6	29.5	452.2	54.2
Western larch	2,815.6	353.9	10.8	10.9	4.0	2.8	170.9	48.3	283.0	88.2	453.8	99.1	3,284.3	367.6
Western redcedar	5,330.8	679.6	1,047.0	256.2	155.2	70.3	1,241.0	294.9	1,090.2	303.4	2,331.2	420.5	8,864.2	845.3
Other western softwoods	8,191.1	1,060.4	377.5	207.6	47.1	48.1	204.1	98.7	525.3	246.1	729.3	265.0	9,345.1	1,113.6
Total	273,624.0	6,744.4	73,842.2	4,106.9	25,807.4	2,317.5	65,849.4	3,210.8	40,209.8	2,670.1	106,059.2	3,816.5	479,332.8	8,681.0
Hardwoods:														
Cottonwood and aspen	126.0	67.3	64.4	60.7	35.9	39.4	84.2	52.3	416.9	141.4	501.2	150.7	727.6	180.3
Oak	89.3	24.8	210.4	55.8	94.5	77.1	203.7	70.6	353.0	68.1	556.7	96.9	950.9	137.9
Red alder	2,323.6	392.5	796.5	182.4	2,879.4	428.8	3,009.6	396.8	2,175.2	372.9	5,184.8	528.3	11,184.2	798.5
Other western hardwoods	2,778.1	424.0	1,762.5	251.0	421.4	145.6	2,418.7	371.6	2,781.8	355.1	5,200.5	502.2	10,162.4	721.2
Total	5,317.0	601.8	2,833.8	325.5	3,431.1	478.0	5,716.2	611.6	5,726.9	597.6	11,443.1	817.2	23,025.1	1,157.3
All species groups	278,941.0	6,824.8	76,676.0	4,177.0	29,238.6	2,455.5	71,565.6	3,387.1	45,936.7	2,863.9	117,502.3	4,008.4	502,357.9	8,851.1

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50,000 board feet was estimated.

^aIncludes sawtimber-sized trees that are >= 9 inches diameter at breast height for softwood species and >= 11 inches diameter at breast height for hardwood species.

Table A2-39--Average net boardfoot volume per acre (Scribner rule) of sawtimber trees^a on timberland, by forest type group and ownership group, Oregon, 2001 - 2010

Forest type group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private		All private		All owners	
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
<i>Board feet per acre, Scribner rule</i>														
Softwoods:														
Douglas-fir	34,703.72	1,149.57	32,401.47	1,654.64	25,557.22	1,959.80	10,505.04	615.86	13,959.55	1,079.12	11,598.41	543.38	23,793.56	569.16
Fir / spruce / mtn. hemlock	19,754.45	956.36	38,755.14	5,938.77	11,006.01	3,643.73	4,575.98	597.82	11,297.64	2,044.58	6,716.18	839.05	17,254.06	809.79
Hemlock / Sitka spruce	42,776.99	3,814.58	30,942.10	7,199.56	29,601.33	4,884.88	21,579.03	2,262.15	23,021.08	4,598.45	21,897.22	2,039.54	30,717.31	1,995.42
Lodgepole pine	3,776.50	292.30	1,262.85	320.56	726.79	23.56	1,721.65	307.57	5,548.99	1,834.95	2,515.45	471.01	3,418.79	246.91
Ponderosa pine	9,355.09	315.09	11,610.01	2,240.35	13,910.27	2,152.21	3,505.72	327.73	5,881.05	594.22	4,629.86	338.34	8,026.88	253.51
Western juniper	2,930.41	397.81	2,430.27	322.68	2,981.24	2,981.24	3,055.53	762.08	1,903.61	358.18	2,177.00	343.41	2,616.77	250.80
Western larch	12,366.65	2,386.01	--	--	--	--	309.66	167.03	1,138.30	614.79	680.26	337.58	9,363.76	2,078.44
Other western softwoods	6,679.70	3,979.00	--	--	--	--	2,189.30	2,189.30	--	--	1,795.91	493.65	5,843.63	3,380.05
Total	20,068.58	467.80	29,556.27	1,441.25	24,099.60	1,701.83	8,982.67	433.51	11,100.45	680.13	9,713.74	365.61	17,380.61	314.50
Hardwoods:														
Alder / maple	19,433.93	2,819.38	10,013.55	2,383.46	18,830.04	1,908.53	12,991.75	1,523.29	10,485.38	1,296.37	11,710.12	1,001.13	13,820.22	871.92
Aspen / birch	2,570.43	897.99	--	--	--	--	--	--	6,075.28	4,516.49	3,209.89	2,766.03	2,852.96	1,566.04
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	5,504.61	1,996.93	5,306.11	1,930.69	5,306.11	1,930.69
Tanoak / laurel	13,531.71	2,755.05	9,855.85	3,508.26	--	--	9,571.72	2,364.58	6,842.42	1,699.95	8,355.43	1,529.84	10,753.06	1,441.53
Western oak	4,871.72	1,109.77	4,260.54	1,295.15	3,185.04	1,997.06	4,016.07	1,449.67	2,989.18	529.95	3,414.88	687.48	3,946.85	549.98
Woodland hardwoods	2,191.03	758.05	579.94	579.94	--	--	484.65	484.65	2,377.89	570.02	2,135.39	557.30	2,005.08	426.73
Other hardwoods	1,352.77	401.54	8,735.94	2,028.10	2,386.97	811.14	6,178.27	1,330.71	2,828.90	520.36	4,203.06	682.56	4,554.77	625.18
Total	12,346.87	1,536.99	7,147.34	1,109.02	15,049.78	1,860.09	10,255.23	1,031.63	7,216.40	725.61	8,585.20	615.74	9,787.64	536.26
Nonstocked	466.03	129.94	198.44	167.56	3,827.50	2,764.62	200.34	89.02	750.67	239.33	428.88	117.33	563.56	141.89
All forest types	19,083.66	440.91	26,461.86	1,306.15	21,567.51	1,393.13	8,793.37	390.45	9,762.78	530.79	9,161.85	311.79	16,042.19	279.54

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 0.005 board feet per acre was estimated; the average was calculated using a ratio of means formula across plots within forest type groups.

^aIncludes sawtimber-sized trees that are >= 9 inches diameter at breast height for softwood species and >= 11 inches diameter at breast height for hardwood species.

Table A2-40--Average net boardfoot volume per acre (Scribner rule) of sawtimber trees^a on timberland, by forest type group and stand size class, Oregon, 2001 - 2010

Forest type group	Stand size class						All classes	
	Large-diameter stands		Medium-diameter stands		Small-diameter stands			
	Mean	SE	Mean	SE	Mean	SE	Mean	SE
<i>Board feet per acre, Scribner rule</i>								
Softwoods:								
Douglas-fir	31,193.95	679.89	1,945.23	185.93	750.13	122.14	23,793.56	569.16
Fir / spruce / mtn. hemlock	20,585.62	901.56	2,624.71	687.25	1,666.36	293.75	17,254.06	809.79
Hemlock / Sitka spruce	35,377.17	2,119.39	4,898.92	1,452.79	987.87	585.26	30,717.31	1,995.42
Lodgepole pine	7,751.68	509.75	2,128.56	224.80	931.76	110.03	3,418.79	246.91
Ponderosa pine	9,334.25	281.08	1,191.42	158.02	1,272.33	215.91	8,026.88	253.51
Western juniper	3,026.06	277.70	702.96	167.00	1,138.19	308.15	2,616.77	250.80
Western larch	15,578.86	2,682.29	1,382.78	865.33	1,300.40	483.88	9,363.76	2,078.44
Other western softwoods	16,656.35	3,941.52	4,109.27	2,231.66	313.29	175.44	5,843.63	3,380.05
Total	22,721.53	387.19	1,981.98	130.59	985.76	77.69	17,380.61	314.50
Hardwoods:								
Alder / maple	20,175.24	1,036.00	4,388.13	599.91	895.97	504.25	13,820.22	871.92
Aspen / birch	14,225.96	14,225.96	929.21	192.19	1,569.85	886.57	2,852.96	1,566.04
Elm / ash / cottonwood	8,554.90	2,421.18	36.20	36.20	164.38	107.66	5,306.11	1,930.69
Tanoak / laurel	21,719.97	2,537.82	7,889.87	1,184.84	319.34	126.66	10,753.06	1,441.53
Western oak	6,730.54	863.50	1,645.35	380.85	738.80	296.28	3,946.85	549.98
Woodland hardwoods	2,365.03	499.59	484.65	484.65	1,729.83	842.79	2,005.08	426.73
Other hardwoods	6,845.84	1,088.68	4,893.06	1,202.84	1,766.79	591.12	4,554.77	625.18
Total	16,259.50	821.66	4,415.35	435.40	906.45	196.13	9,787.64	536.26
Nonstocked	--	--	--	--	--	--	563.56	141.89
All forest types	22,228.15	363.11	2,574.85	152.77	974.10	72.29	16,042.19	279.54

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; — = less than 0.005 board feet per acre was estimated; the average was calculated using a ratio of means formula across plots within forest type groups.

^a Includes sawtimber-sized trees that are \geq 9 inches diameter at breast height for softwood species and \geq 11 inches diameter at breast height for hardwood species.

Table A2-41--Aboveground biomass of live trees^a on forest land, by forest type group and ownership group, Oregon, 2001-2010

Forest type group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private		All private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand tons</i>														
Softwoods:														
Douglas-fir	603,190.4	19,606.3	221,813.0	12,152.8	77,528.3	7,758.9	189,236.1	10,016.9	101,645.2	8,165.8	290,881.3	11,957.0	1,193,413.0	25,835.2
Fir / spruce / mtn. hemlock	244,733.8	12,254.1	23,176.3	3,992.6	2,087.7	1,044.1	13,051.1	1,934.0	10,343.5	2,202.9	23,394.6	2,883.7	293,392.3	13,231.4
Hemlock / Sitka spruce	68,653.6	8,881.8	8,568.4	2,877.6	10,618.7	3,383.9	35,124.7	5,346.0	9,501.1	2,736.7	44,625.8	5,939.0	132,466.5	11,587.3
Lodgepole pine	50,886.9	3,559.9	4,569.2	1,247.4	562.9	376.8	5,150.7	875.2	3,038.6	908.4	8,189.3	1,234.4	64,208.2	3,996.3
Ponderosa pine	132,098.4	5,748.0	10,146.2	2,403.6	2,634.4	1,008.7	17,844.9	1,775.6	21,482.1	2,374.5	39,327.0	2,830.6	184,206.1	6,891.5
Western juniper	5,661.3	833.9	9,855.3	866.9	614.1	203.0	1,264.8	369.5	6,740.9	667.8	8,005.7	751.3	24,136.2	1,426.8
Western larch	9,386.9	2,056.9	--	--	--	--	141.4	102.6	246.9	157.2	388.3	187.7	9,775.3	2,065.4
Other western softwoods	1,394.9	544.0	446.6	420.3	--	--	111.4	123.8	41.2	26.0	152.6	126.5	1,994.1	699.0
Total	1,116,006.2	19,033.1	278,575.0	12,319.1	94,046.0	8,260.4	261,925.2	11,054.4	153,039.3	9,040.6	414,964.5	12,808.7	1,903,591.6	25,697.3
Hardwoods:														
Alder / maple	13,768.2	2,661.4	2,485.7	926.5	14,294.0	2,742.9	26,172.9	3,731.1	22,300.2	2,969.8	48,473.2	4,615.7	79,021.2	6,025.4
Aspen / birch	259.7	166.4	152.2	80.4	--	--	107.2	103.3	344.1	267.1	451.3	286.4	863.3	340.8
Elm / ash / cottonwood	--	--	18.4	21.1	456.5	475.8	135.0	93.4	2,818.5	1,273.5	2,953.5	1,276.9	3,428.4	1,362.8
Tanoak / laurel	23,485.6	4,511.2	3,881.5	1,794.8	--	--	10,132.9	2,697.5	6,024.9	1,827.1	16,157.8	3,224.3	43,524.8	5,851.1
Western oak	5,323.8	1,353.9	7,387.7	1,951.8	1,375.0	691.7	6,057.5	2,075.8	11,728.2	1,913.1	17,785.6	2,804.0	31,872.1	3,737.6
Woodland hardwoods	813.4	273.1	438.3	248.8	--	--	107.4	84.4	903.6	338.6	1,011.0	348.6	2,262.7	508.0
Other hardwoods	1,327.3	581.1	7,053.2	2,068.5	1,561.8	775.8	5,462.6	1,838.0	6,620.6	1,706.5	12,083.2	2,488.6	22,025.5	3,360.2
Total	44,978.0	5,263.5	21,417.0	3,391.2	17,687.4	2,941.8	48,175.6	5,258.9	50,740.0	4,381.1	98,915.6	6,516.9	182,998.0	9,432.0
Nonstocked	1,040.4	212.9	56.8	36.0	400.4	311.9	274.3	100.5	682.5	276.6	956.9	294.0	2,454.5	479.8
All forest types	1,162,024.6	18,751.0	300,048.8	12,015.2	112,133.7	8,392.0	310,375.1	11,745.2	204,461.9	9,748.5	514,837.0	12,951.4	2,089,044.2	25,080.2

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 bone-dry tons was estimated.

^a Includes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes. Aboveground biomass of the tree from ground to tip, includes stem wood, bark, and branches; calculated with regional biomass equations.

Table A2-42--Aboveground biomass of dead trees^a on forest land, by forest type group and ownership group, Oregon, 2001-2010

Forest type group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private		All private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand tons</i>														
Softwoods:														
Douglas-fir	66,416.5	3,663.0	16,541.8	1,642.3	5,253.5	739.3	8,270.7	753.7	4,350.1	572.1	12,620.7	923.0	100,832.5	4,152.0
Fir / spruce / mtn.hemlock	46,650.2	2,745.1	2,564.4	557.7	109.6	85.0	857.2	181.0	1,385.9	451.9	2,243.1	483.3	51,567.3	2,843.0
Hemlock / Sitka spruce	10,957.9	1,758.0	1,336.3	496.6	861.4	331.6	2,074.9	401.8	616.3	247.8	2,691.3	469.7	15,846.9	1,914.5
Lodgepole pine	7,742.2	910.6	523.6	238.1	2.5	2.4	210.2	84.3	147.4	54.4	357.6	100.1	8,625.8	946.5
Ponderosa pine	12,547.4	1,142.1	674.3	248.3	72.9	54.0	806.5	184.1	1,237.5	246.0	2,044.0	304.0	15,338.5	1,208.2
Western juniper	376.5	110.8	693.8	125.5	--	--	5.7	3.5	218.4	64.1	224.1	64.2	1,294.4	179.3
Western larch	2,318.8	704.9	--	--	--	--	30.8	23.1	--	--	30.8	23.1	2,349.6	705.3
Other western softwoods	733.1	355.3	48.9	46.0	--	--	--	--	--	--	--	--	782.0	358.3
Total	147,742.5	4,559.2	22,383.1	1,759.1	6,299.9	797.7	12,256.0	874.4	7,955.6	793.0	20,211.6	1,138.3	196,637.0	5,043.5
Hardwoods:														
Alder / maple	2,122.5	591.1	126.1	63.6	1,774.4	533.9	1,712.7	330.8	1,202.0	281.7	2,914.7	428.4	6,937.7	906.1
Aspen / birch	25.1	17.4	6.7	6.8	--	--	--	--	49.1	39.0	49.1	39.0	81.0	43.2
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	108.2	69.4	108.2	69.4	108.2	69.4
Tanoak / laurel	7,549.2	1,735.2	413.0	227.8	--	--	852.9	283.3	349.7	133.1	1,202.6	311.3	9,164.7	1,777.0
Western oak	1,176.0	433.1	998.1	296.2	35.1	23.2	507.4	154.3	972.8	225.7	1,480.3	271.8	3,689.5	591.2
Woodland hardwoods	112.8	65.0	71.0	40.2	--	--	20.2	15.7	195.7	96.7	216.0	98.0	399.8	124.3
Other hardwoods	735.9	378.6	617.5	283.3	186.0	143.6	266.5	107.3	558.0	167.6	824.4	198.2	2,363.8	530.7
Total	11,721.6	1,907.6	2,232.4	473.1	1,995.5	553.4	3,359.7	469.4	3,435.5	432.4	6,795.2	621.4	22,744.8	2,131.3
Nonstocked	7,119.6	1,735.0	247.6	189.0	175.7	131.3	182.1	65.2	99.6	43.3	281.8	78.2	7,824.7	1,752.0
All forest types	166,583.7	5,017.8	24,863.2	1,795.5	8,471.1	926.9	15,797.8	974.3	11,490.8	894.1	27,288.6	1,252.7	227,206.5	5,505.7

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 bone-dry tons was estimated.

^a Includes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory. Aboveground biomass is estimated from ground to actual height, includes stem wood, bark, and branches; calculated with regional biomass equations.

Table A2-43--Aboveground biomass of live trees^a on forest land, by forest type group and stand size class, Oregon, 2001-2010

Forest type group	Stand size class						All classes	
	Large-diameter stands		Medium-diameter stands		Small-diameter stands			
	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand tons</i>								
Softwoods:								
Douglas-fir	1,141,974.1	26,101.9	39,621.4	3,333.0	11,817.5	1,270.1	1,193,413.0	25,835.2
Fir / spruce / mtn. hemlock	281,993.6	13,176.3	6,326.7	1,319.5	5,071.9	789.8	293,392.3	13,231.4
Hemlock / Sitka spruce	129,891.8	11,549.3	1,789.1	680.6	785.6	304.6	132,466.5	11,587.3
Lodgepole pine	30,866.1	3,083.7	18,000.6	2,216.4	15,341.4	1,603.3	64,208.2	3,996.3
Ponderosa pine	174,165.7	6,871.5	4,770.8	766.2	5,269.6	782.7	184,206.1	6,891.5
Western juniper	21,460.9	1,408.1	1,160.3	245.5	1,515.0	215.8	24,136.2	1,426.8
Western larch	8,599.8	2,027.6	377.4	317.6	798.0	265.5	9,775.3	2,065.4
Other western softwoods	1,506.4	667.6	231.3	141.8	256.4	147.8	1,994.1	699.0
Total	1,790,458.5	26,352.2	72,277.7	4,326.2	40,855.4	2,333.0	1,903,591.6	25,697.3
Hardwoods:								
Alder / maple	63,820.6	5,754.5	13,689.7	2,024.5	1,510.9	425.8	79,021.2	6,025.4
Aspen / birch	242.7	244.9	315.5	178.1	305.1	156.5	863.3	340.8
Elm / ash / cottonwood	2,973.2	1,342.3	257.0	211.0	198.3	105.4	3,428.4	1,362.8
Tanoak / laurel	31,224.2	5,348.3	10,719.1	2,488.0	1,581.5	506.8	43,524.8	5,851.1
Western oak	20,345.9	3,433.0	9,481.1	1,475.2	2,045.1	499.7	31,872.1	3,737.6
Woodland hardwoods	1,958.6	486.4	52.8	41.7	251.3	140.9	2,262.7	508.0
Other hardwoods	10,442.4	2,424.9	9,784.9	2,335.7	1,798.3	467.3	22,025.5	3,360.2
Total	131,007.6	8,783.0	44,300.0	4,163.4	7,690.4	976.3	182,998.0	9,432.0
Nonstocked	--	--	--	--	--	--	2,454.5	479.8
All forest types	1,921,466.1	26,240.8	116,577.7	5,880.0	48,545.9	2,510.5	2,089,044.2	25,080.2

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 bone-dry tons was estimated.

^a Includes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes. Aboveground biomass of the tree from ground to tip, includes stem wood, bark, and branches; calculated with regional biomass equations.

Table A2-44--Aboveground biomass of dead trees^a on forest land, by forest type group and stand size class, Oregon, 2001-2010

Forest type group	Stand size class						All classes	
	Large-diameter stands		Medium-diameter stands		Small-diameter stands			
	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand tons</i>								
Softwoods:								
Douglas-fir	93,124.6	3,912.7	2,119.4	402.6	5,588.5	1,489.7	100,832.5	4,152.0
Fir / spruce / mtn. hemlock	47,733.0	2,735.2	604.3	176.5	3,230.0	820.6	51,567.3	2,843.0
Hemlock / Sitka spruce	15,395.2	1,904.0	148.3	92.9	303.4	130.1	15,846.9	1,914.5
Lodgepole pine	3,173.7	497.9	2,151.6	423.1	3,300.5	691.6	8,625.8	946.5
Ponderosa pine	13,534.1	1,132.4	363.0	108.7	1,441.5	419.6	15,338.5	1,208.2
Western juniper	1,073.3	166.4	103.9	47.7	117.2	48.1	1,294.4	179.3
Western larch	1,911.5	676.1	45.4	43.7	392.7	199.9	2,349.6	705.3
Other western softwoods	690.8	351.4	--	--	91.2	73.1	782.0	358.3
Total	176,636.2	4,811.0	5,535.8	627.4	14,465.0	1,893.8	196,637.0	5,043.5
Hardwoods:								
Alder / maple	5,323.9	792.6	986.7	244.5	627.1	376.0	6,937.7	906.1
Aspen / birch	36.2	36.5	27.6	20.6	17.2	10.5	81.0	43.2
Elm / ash / cottonwood	100.6	69.0	--	--	7.6	6.9	108.2	69.4
Tanoak / laurel	2,307.3	473.6	849.3	254.0	6,008.2	1,680.9	9,164.7	1,777.0
Western oak	1,214.6	264.3	1,466.3	346.2	1,008.6	405.3	3,689.5	591.2
Woodland hardwoods	290.4	104.6	18.0	15.3	91.4	65.3	399.8	124.3
Other hardwoods	806.4	308.2	648.5	191.6	908.9	389.0	2,363.8	530.7
Total	10,079.3	1,007.1	3,996.4	526.4	8,669.1	1,808.4	22,744.8	2,131.3
Nonstocked	--	--	--	--	--	--	7,824.7	1,752.0
All forest types	186,715.5	4,852.3	9,532.2	816.2	23,134.1	2,598.7	227,206.5	5,505.7

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 bone-dry tons was estimated.

^a Includes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory. Aboveground biomass is estimated from ground to actual height, includes stem wood, bark, and branches; calculated with regional biomass equations.

Table A2-45--Aboveground biomass of live trees^a on forest land, by forest type group and stand age class, Oregon, 2001-2010

Forest type group	Stand age class (years)													
	1-20		21-40		41-60		61-80		81-100		101-120		121-140	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand tons</i>													
Softwoods:														
Douglas-fir	30,120.3	2,428.6	182,032.2	9,402.0	187,526.8	11,830.5	105,218.3	9,590.2	132,307.7	10,780.2	96,436.4	10,872.1	71,386.3	9,347.9
Fir / spruce / mtn. hemlock	1,979.0	631.6	7,489.6	1,567.7	15,228.1	2,842.8	31,067.9	3,878.2	52,373.7	6,186.4	25,192.2	3,647.0	25,193.5	4,229.1
Hemlock / Sitka spruce	1,973.1	649.2	20,992.7	3,681.2	27,690.1	5,143.7	12,358.7	3,484.1	11,777.4	4,238.5	9,515.1	3,241.4	3,918.2	2,541.4
Lodgepole pine	5,325.1	909.4	6,534.8	1,035.5	11,100.3	1,569.7	16,157.9	2,155.6	15,878.0	2,233.8	7,017.3	1,665.4	1,196.1	630.5
Ponderosa pine	2,088.6	428.3	7,650.3	1,163.0	21,367.3	1,963.8	48,537.8	3,680.6	48,479.4	3,851.0	15,345.2	2,352.2	9,172.7	2,032.5
Western juniper	81.7	42.4	500.4	143.7	3,758.7	556.3	7,821.7	873.2	4,553.7	640.7	1,969.3	452.1	709.2	237.1
Western larch	768.7	436.7	376.6	232.9	459.8	372.7	462.4	426.5	3,111.7	1,204.9	1,550.9	805.0	880.4	634.3
Other western softwoods	129.7	125.3	17.4	12.1	141.7	83.4	110.6	110.9	186.6	119.5	503.6	325.9	446.6	420.3
Total	42,466.3	2,797.5	225,593.9	10,111.4	267,272.8	13,174.5	221,735.4	11,568.7	268,668.2	13,577.9	157,529.9	12,165.0	112,903.0	10,684.6
Hardwoods:														
Alder / maple	6,078.5	1,150.6	23,118.1	3,152.7	26,577.3	3,654.5	13,044.0	3,009.5	2,568.4	915.7	1,903.1	1,178.2	1,037.8	605.7
Aspen / birch	35.0	29.9	136.4	95.9	144.2	134.1	143.3	114.5	373.1	263.6	--	--	--	--
Elm / ash / cottonwood	194.6	106.3	462.6	405.5	18.4	21.1	1,472.8	791.1	1,174.0	1,022.9	--	--	--	--
Tanoak / laurel	1,005.1	377.1	4,525.7	1,393.1	10,335.7	2,577.9	5,358.7	2,133.8	11,367.1	3,569.6	2,072.1	1,471.6	2,094.8	1,441.0
Western oak	346.4	160.3	1,875.5	903.3	8,861.2	1,849.6	7,306.4	1,490.0	8,654.2	2,229.4	1,516.7	657.8	2,533.2	1,520.5
Woodland hardwoods	9.9	10.8	192.1	130.7	206.1	105.3	477.4	256.2	1,152.8	380.5	98.8	104.6	94.2	94.7
Other hardwoods	675.4	312.4	4,862.0	1,673.6	5,744.9	1,648.7	5,884.1	1,832.6	3,584.1	1,485.2	936.6	567.5	226.0	231.2
Total	8,344.9	1,262.2	35,172.5	3,922.4	51,887.9	5,017.2	33,686.8	4,430.8	28,873.7	4,671.1	6,527.3	2,078.3	5,986.0	2,193.7
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--	--
All forest types	50,811.2	3,025.6	260,766.3	10,552.5	319,160.8	13,856.1	255,422.2	12,302.8	297,541.9	14,279.3	164,057.2	12,334.5	118,889.1	10,893.3

Table A2-45--Aboveground biomass of live trees^a on forest land, by forest type group and stand age class, Oregon, 2001-2010 (Continued)

Forest type group	Stand age class (years)											
	141-160		161-180		181-200		201 plus		Unknown		All classes	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand tons</i>												
Softwoods:												
Douglas-fir	68,708.7	9,105.8	39,967.3	7,851.2	47,405.5	7,561.9	232,205.9	17,389.6	97.6	80.2	1,193,413.0	25,835.2
Fir / spruce / mtn. hemlock	28,644.9	4,905.1	15,503.5	3,162.3	28,851.9	4,991.6	61,868.0	7,225.3	--	--	293,392.3	13,231.4
Hemlock / Sitka spruce	4,485.0	2,660.0	1,741.8	1,217.3	6,853.5	2,939.4	31,160.8	6,009.8	--	--	132,466.5	11,587.3
Lodgepole pine	474.9	336.4	241.5	242.8	282.2	266.5	--	--	--	--	64,208.2	3,996.3
Ponderosa pine	11,400.7	2,236.4	5,090.9	1,529.4	6,768.1	2,066.1	8,305.1	1,672.9	--	--	184,206.1	6,891.5
Western juniper	975.0	307.7	343.1	136.8	934.8	317.3	2,336.2	570.9	152.5	156.5	24,136.2	1,426.8
Western larch	535.8	357.3	--	--	422.2	419.8	1,206.7	984.8	--	--	9,775.3	2,065.4
Other western softwoods	--	--	61.1	61.3	--	--	396.8	391.6	--	--	1,994.1	699.0
Total	115,225.1	10,789.3	62,949.1	8,660.8	91,518.2	9,667.4	337,479.5	19,271.5	250.1	175.8	1,903,591.6	25,697.3
Hardwoods:												
Alder / maple	1,527.4	970.3	1,936.7	1,192.8	126.2	126.6	1,103.6	730.3	--	--	79,021.2	6,025.4
Aspen / birch	--	--	--	--	31.2	34.0	--	--	--	--	863.3	340.8
Elm / ash / cottonwood	106.1	94.8	--	--	--	--	--	--	--	--	3,428.4	1,362.8
Tanoak / laurel	334.0	335.0	1,351.4	1,317.4	--	--	5,080.2	2,034.7	--	--	43,524.8	5,851.1
Western oak	329.3	330.5	--	--	10.8	10.4	--	--	438.3	230.7	31,872.1	3,737.6
Woodland hardwoods	16.9	17.8	--	--	--	--	--	--	14.4	13.1	2,262.7	508.0
Other hardwoods	--	--	102.9	92.0	9.4	10.4	--	--	--	--	22,025.5	3,360.2
Total	2,313.7	1,082.7	3,391.1	1,779.5	177.7	132.0	6,183.8	2,151.3	452.7	231.1	182,998.0	9,432.0
Nonstocked	--	--	--	--	--	--	--	--	2,454.5	479.8	2,454.5	479.8
All forest types	117,538.8	10,838.5	66,340.2	8,826.6	91,695.9	9,667.4	343,663.3	19,366.6	3,157.3	561.0	2,089,044.2	25,080.2

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 bone-dry tons was estimated.

^a Includes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes. Aboveground biomass of the tree from ground to tip, includes stem wood, bark, and branches; calculated with regional biomass equations.

Table A2-46--Aboveground biomass of dead trees^a on forest land, by forest type group and stand age class, Oregon, 2001-2010

Forest type group	Stand age class (years)													
	1-20		21-40		41-60		61-80		81-100		101-120		121-140	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand tons</i>													
Softwoods:														
Douglas-fir	4,593.7	804.4	6,189.3	578.3	9,343.5	869.9	7,671.3	1,031.7	11,770.6	1,365.5	8,230.2	1,150.0	8,003.6	1,317.7
Fir / spruce / mtn. hemlock	920.9	339.0	400.6	149.2	1,293.4	348.4	4,197.6	786.4	9,043.2	1,276.1	6,362.8	1,034.7	5,619.9	1,050.2
Hemlock / Sitka spruce	502.6	168.9	1,379.7	320.3	1,427.1	343.2	1,362.8	436.0	1,524.6	634.2	1,405.0	523.0	360.6	242.7
Lodgepole pine	2,390.9	648.9	444.1	179.3	1,627.2	438.3	1,863.4	403.6	1,416.4	256.4	625.1	190.0	102.1	63.6
Ponderosa pine	825.4	341.8	383.4	142.4	1,205.6	193.3	3,266.9	470.4	3,317.8	508.0	2,310.5	564.1	901.7	263.4
Western juniper	63.4	38.1	12.3	11.2	131.9	56.6	227.9	77.2	346.9	94.1	64.8	27.1	63.8	36.4
Western larch	437.2	232.6	6.7	6.4	63.4	65.2	24.2	24.1	252.3	119.2	367.3	228.3	346.0	292.6
Other western softwoods	--	--	--	--	--	--	73.8	59.4	193.0	183.6	154.0	96.0	48.9	46.0
Total	9,734.1	1,176.9	8,816.3	708.7	15,092.0	1,099.6	18,687.8	1,488.5	27,865.0	2,027.4	19,519.8	1,736.2	15,446.6	1,731.3
Hardwoods:														
Alder / maple	868.4	384.2	1,562.4	292.5	2,361.8	570.2	591.8	207.4	297.1	182.7	234.2	182.9	265.6	206.8
Aspen / birch	6.7	6.8	--	--	14.7	15.5	15.9	13.9	43.7	37.3	--	--	--	--
Elm / ash / cottonwood	--	--	18.1	12.7	--	--	73.7	66.4	16.4	15.5	--	--	--	--
Tanoak / laurel	5,665.6	1,670.6	439.1	176.5	1,134.3	378.7	454.5	183.0	725.0	250.6	190.1	142.2	178.4	156.9
Western oak	736.4	391.3	257.0	156.0	939.0	289.6	906.6	231.2	349.1	120.6	222.5	116.3	241.2	110.1
Woodland hardwoods	2.1	2.2	20.6	19.1	26.3	16.5	64.2	35.9	164.9	75.9	61.8	65.4	58.7	59.1
Other hardwoods	94.5	74.7	410.0	138.7	466.8	198.0	466.4	263.0	509.5	303.5	324.8	229.2	22.3	22.9
Total	7,373.6	1,756.4	2,707.3	399.3	4,942.9	764.4	2,573.1	451.5	2,105.8	458.1	1,033.3	352.2	766.3	288.9
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--	--
All forest types	17,107.7	2,104.7	11,523.5	801.4	20,034.9	1,318.3	21,260.9	1,550.6	29,970.8	2,075.0	20,553.1	1,771.5	16,212.9	1,754.4

Table A2-46--Aboveground biomass of dead trees^a on forest land, by forest type group and stand age class, Oregon, 2001-2010 (Continued)

Forest type group	Stand age class (years)										All classes	
	141-160		161-180		181-200		201 plus		Unknown		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE		
<i>Thousand tons</i>												
Softwoods:												
Douglas-fir	6,182.7	1,216.0	3,878.1	872.5	6,067.2	1,552.4	28,897.8	2,957.6	4.5	4.9	100,832.5	4,152.0
Fir / spruce / mtn. hemlock	4,893.9	936.9	3,395.7	777.8	5,656.9	1,066.9	9,782.4	1,310.7	--	--	51,567.3	2,843.0
Hemlock / Sitka spruce	349.5	176.0	218.2	158.8	1,205.1	654.2	6,111.7	1,441.4	--	--	15,846.9	1,914.5
Lodgepole pine	76.2	64.5	19.6	19.7	61.0	55.9	--	--	--	--	8,625.8	946.5
Ponderosa pine	1,419.4	542.9	606.7	259.7	619.5	322.4	481.5	174.9	--	--	15,338.5	1,208.2
Western juniper	62.0	37.5	32.0	19.5	102.7	69.7	186.6	75.2	--	--	1,294.4	179.3
Western larch	607.0	509.9	--	--	145.3	144.4	100.1	96.2	--	--	2,349.6	705.3
Other western softwoods	--	--	26.6	26.7	--	--	285.8	282.0	--	--	782.0	358.3
Total	13,590.6	1,702.3	8,176.8	1,204.2	13,857.6	2,018.4	45,845.9	3,469.9	4.5	4.9	196,637.0	5,043.5
Hardwoods:												
Alder / maple	245.1	200.5	422.2	313.3	89.0	89.4	--	--	--	--	6,937.7	906.1
Aspen / birch	--	--	--	--	--	--	--	--	--	--	81.0	43.2
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	108.2	69.4
Tanoak / laurel	34.4	34.5	106.2	103.5	--	--	237.2	100.1	--	--	9,164.7	1,777.0
Western oak	17.5	17.6	--	--	--	--	--	--	20.2	16.5	3,689.5	591.2
Woodland hardwoods	--	--	--	--	--	--	--	--	1.2	1.2	399.8	124.3
Other hardwoods	--	--	--	--	69.4	76.7	--	--	--	--	2,363.8	530.7
Total	297.0	204.2	528.4	330.0	158.4	117.8	237.2	100.1	21.4	16.6	22,744.8	2,131.3
Nonstocked	--	--	--	--	--	--	--	--	7,824.7	1,752.0	7,824.7	1,752.0
All forest types	13,887.6	1,714.2	8,705.3	1,248.0	14,016.0	2,021.3	46,083.1	3,471.1	7,850.6	1,752.1	227,206.5	5,505.7

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 bone-dry tons was estimated.

^a Includes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory. Aboveground biomass is estimated from ground to actual height, includes stem wood, bark, and branches; calculated with regional biomass equations.

Table A2-47--Aboveground biomass of live trees^a on forest land, by species group and diameter class, Oregon, 2001-2010

Species group	Diameter class (inches)											
	1.0-2.9		3.0-4.9		5.0-6.9		7.0-8.9		9.0-10.9		11.0-12.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand tons</i>											
Softwoods:												
Douglas-fir	4,843.7	320.9	8,666.6	486.7	21,523.0	720.9	38,816.2	1,282.2	54,712.4	1,767.6	64,242.8	2,177.3
Engelmann and other spruces	758.3	138.1	301.3	84.3	356.0	48.6	384.7	61.4	593.1	97.1	833.9	132.2
Incense-cedar	153.0	21.7	416.6	78.0	623.0	60.9	642.0	74.3	847.4	105.0	804.8	105.3
Lodgepole pine	12,111.4	1,033.8	6,354.6	518.5	8,471.5	562.7	9,945.3	602.0	9,525.2	585.2	6,996.1	492.1
Ponderosa and Jeffrey pines	1,173.8	83.8	3,003.8	235.3	5,155.5	251.0	7,877.5	337.0	11,527.6	476.3	12,699.3	581.4
Sitka spruce	106.5	31.8	106.8	46.2	218.4	36.7	343.1	80.0	527.0	135.5	824.6	202.3
Sugar pine	11.0	3.2	50.1	29.7	89.1	24.4	145.5	32.1	178.5	52.4	143.9	48.9
True fir	8,920.6	556.8	6,843.2	424.8	9,196.2	402.1	12,021.9	530.9	14,338.5	647.3	16,924.1	798.0
Western hemlock	724.5	90.1	1,908.2	193.4	4,112.1	248.8	7,243.7	444.7	9,562.0	640.2	13,017.9	932.9
Western juniper	271.6	32.2	827.2	107.7	1,482.8	93.7	2,172.5	136.2	2,563.3	179.6	2,397.3	176.4
Western larch	897.5	247.2	517.7	116.3	389.8	74.5	720.6	108.5	1,022.9	148.0	1,323.9	177.6
Western redcedar	399.9	54.7	403.1	78.3	616.1	65.8	814.1	90.7	927.8	115.7	1,322.3	170.5
Other western softwoods	1,433.1	136.0	1,405.8	173.2	2,217.4	169.8	2,967.0	247.6	3,970.7	363.6	5,325.9	503.9
Total	31,805.0	1,314.5	30,805.1	957.2	54,450.8	1,087.8	84,094.2	1,633.5	110,296.3	2,147.5	126,856.9	2,629.4
Hardwoods:												
Cottonwood and aspen	73.2	27.8	120.7	62.4	83.1	26.6	79.0	36.0	164.9	63.5	165.9	84.8
Oak	608.7	91.8	2,313.4	313.0	3,597.6	316.7	3,655.1	338.1	2,932.2	344.5	2,527.3	305.2
Red alder	433.1	56.8	1,323.9	175.5	3,197.9	247.2	5,284.1	392.4	7,096.3	518.4	8,066.6	649.6
Woodland hardwoods	104.6	34.4	135.3	33.1	202.2	29.0	322.7	46.6	279.5	53.8	245.9	49.0
Other western hardwoods	2,125.7	182.6	5,601.2	487.9	9,441.6	497.8	12,223.6	729.9	12,228.1	811.5	10,473.2	800.6
Total	3,345.4	219.7	9,494.5	617.1	16,522.3	652.6	21,564.5	902.7	22,701.1	1,019.0	21,478.9	1,071.7
All species groups	35,150.3	1,331.4	40,299.6	1,137.7	70,973.1	1,284.6	105,658.7	1,864.7	132,997.4	2,340.9	148,335.8	2,791.7

Table A2-47--Aboveground biomass of live trees^a on forest land, by species group and diameter class, Oregon, 2001-2010 (Continued)

Species group	Diameter class (inches)											
	13.0-14.9		15.0-16.9		17.0-18.9		19.0-20.9		21.0-22.9		23.0-24.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand tons</i>											
Softwoods:												
Douglas-fir	67,525.7	2,282.8	71,287.6	2,497.2	67,227.4	2,596.9	65,546.4	2,675.4	57,759.5	2,686.3	54,119.6	2,922.5
Engelmann and other spruces	856.4	163.7	1,208.0	229.8	954.4	183.4	738.2	186.8	1,136.3	300.2	672.4	195.7
Incense-cedar	1,131.6	164.3	799.4	154.6	750.8	154.7	1,007.6	206.5	809.0	187.5	525.8	185.0
Lodgepole pine	4,577.6	409.0	2,644.5	303.7	1,926.6	282.0	886.1	202.2	666.9	190.8	253.9	104.5
Ponderosa and Jeffrey pines	15,366.2	748.0	13,256.3	696.3	12,487.1	749.3	11,344.3	776.6	9,651.2	800.3	9,903.2	693.5
Sitka spruce	1,023.9	233.5	1,118.8	309.2	1,744.6	549.3	1,010.2	296.2	1,961.7	530.1	1,150.6	377.7
Sugar pine	212.3	62.9	395.3	134.4	317.2	104.6	495.5	165.5	156.7	101.5	959.8	276.6
True fir	17,376.9	859.4	16,565.4	907.3	17,729.2	1,093.1	15,881.7	1,127.0	14,848.0	1,221.2	13,853.6	1,126.1
Western hemlock	14,877.4	1,084.6	15,920.9	1,195.5	13,689.2	1,192.3	12,469.4	1,121.7	11,565.8	1,176.9	10,936.9	1,206.5
Western juniper	2,271.0	185.2	2,052.7	199.9	1,858.4	212.1	1,310.8	180.6	855.7	157.5	956.9	162.9
Western larch	1,353.5	229.0	1,888.0	275.0	1,636.1	309.7	1,861.1	366.2	975.7	281.5	1,190.0	298.3
Western redcedar	1,267.6	187.1	1,493.5	206.3	1,533.0	235.8	1,486.7	326.4	1,441.2	284.0	1,732.7	375.8
Other western softwoods	5,224.1	520.6	6,111.5	692.5	6,526.9	734.8	6,589.8	837.2	5,518.2	757.2	5,814.9	836.3
Total	133,064.1	2,827.0	134,741.9	3,109.8	128,381.1	3,320.5	120,627.9	3,347.1	107,345.9	3,423.4	102,070.2	3,554.4
Hardwoods:												
Cottonwood and aspen	188.8	89.0	139.8	79.1	183.6	84.5	231.2	108.7	195.4	117.0	92.1	72.6
Oak	2,334.9	339.3	2,442.4	385.0	1,813.9	503.3	1,438.0	316.6	1,443.8	520.7	328.6	171.7
Red alder	8,113.4	689.5	6,650.8	647.7	4,232.0	504.6	4,185.8	579.7	1,522.3	336.5	1,925.9	485.5
Woodland hardwoods	187.5	50.7	150.7	42.1	77.9	30.0	42.3	25.6	58.8	31.1	26.3	27.8
Other western hardwoods	8,756.5	655.0	7,178.2	726.3	5,868.3	660.3	2,897.2	450.8	4,823.2	724.4	2,334.2	498.9
Total	19,581.1	1,022.6	16,561.8	1,060.8	12,175.7	978.9	8,794.5	810.9	8,043.6	969.0	4,707.1	733.2
All species groups	152,645.2	2,984.6	151,303.7	3,242.5	140,556.9	3,472.0	129,422.4	3,470.4	115,389.6	3,537.0	106,777.3	3,612.7

Table A2-47--Aboveground biomass of live trees^a on forest land, by species group and diameter class, Oregon, 2001-2010 (Continued)

Species group	Diameter class (inches)											
	25.0-26.9		27.0-28.9		29.0-30.9		31.0-32.9		33.0-34.9		35.0-36.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand tons</i>											
Softwoods:												
Douglas-fir	52,014.7	2,896.1	42,660.9	2,863.5	39,713.7	2,240.5	35,522.4	1,767.4	35,674.4	1,753.6	34,027.5	1,756.1
Engelmann and other spruces	428.0	87.7	271.1	67.8	298.9	88.5	290.0	97.2	219.5	73.6	238.7	110.5
Incense-cedar	583.0	200.3	1,125.7	312.8	516.6	196.0	639.1	118.2	624.3	126.4	592.8	135.2
Lodgepole pine	60.8	28.0	46.3	23.2	68.0	34.9	13.0	13.0	--	--	15.7	14.9
Ponderosa and Jeffrey pines	8,168.3	480.8	8,481.9	539.3	7,910.3	496.9	6,639.5	475.8	5,964.3	447.9	4,247.6	401.6
Sitka spruce	1,297.8	641.1	1,177.2	448.6	786.1	323.8	494.5	143.1	566.2	162.1	303.3	114.0
Sugar pine	676.6	244.7	847.5	332.1	917.3	315.2	621.0	180.3	840.3	197.5	899.4	214.8
True fir	11,277.9	1,005.2	10,110.1	1,044.6	10,061.2	973.8	7,142.3	630.2	6,030.4	586.9	5,394.3	619.8
Western hemlock	9,679.2	1,112.1	7,895.3	1,151.6	5,498.5	814.7	4,801.2	538.4	3,680.7	548.7	2,773.0	404.1
Western juniper	566.8	73.6	470.7	64.2	364.6	58.2	258.1	52.4	268.2	57.0	156.2	46.0
Western larch	745.2	148.7	506.1	101.3	540.6	127.1	494.2	143.6	198.3	91.9	204.1	89.0
Western redcedar	2,197.8	463.0	1,535.3	389.6	1,533.6	315.5	1,470.9	231.5	1,322.4	231.8	1,157.0	228.5
Other western softwoods	3,471.4	530.8	3,165.1	538.7	3,002.1	529.7	1,630.6	248.2	1,513.5	271.7	969.3	247.1
Total	91,167.6	3,408.6	78,293.1	3,421.3	71,211.5	2,821.9	60,016.6	2,075.8	56,902.5	2,034.8	50,978.9	2,028.0
Hardwoods:												
Cottonwood and aspen	11.9	10.7	375.0	206.7	151.6	142.8	99.5	56.8	156.2	89.6	--	--
Oak	1,562.0	524.9	346.9	235.8	394.4	228.6	318.8	97.8	70.8	52.7	70.0	51.4
Red alder	1,598.7	415.3	550.8	244.6	481.1	215.3	120.7	54.1	109.3	55.2	95.9	56.0
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--
Other western hardwoods	2,343.5	528.1	1,894.2	469.9	1,076.0	336.3	1,016.4	205.0	280.9	107.2	708.1	160.4
Total	5,516.2	860.3	3,167.0	613.1	2,103.1	482.0	1,555.3	250.7	617.2	158.8	874.1	177.1
All species groups	96,683.7	3,509.7	81,460.1	3,474.4	73,314.6	2,858.3	61,572.0	2,091.9	57,519.7	2,043.5	51,853.0	2,036.0

Table A2-47--Aboveground biomass of live trees^a on forest land, by species group and diameter class, Oregon, 2001-2010 (Continued)

Species group	Diameter class (inches)														All classes	
	37.0-38.9		39.0-40.9		41.0-42.9		43.0-44.9		45.0-46.9		47.0-48.9		49.0 +			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand tons</i>																
Softwoods:																
Douglas-fir	31,987.1	1,660.1	27,247.5	1,521.8	25,649.5	1,599.3	23,624.4	1,491.3	20,509.0	1,470.8	22,026.4	1,557.6	105,846.0	6,937.8	1,072,774.3	20,752.0
Engelmann and other spruces	158.1	72.9	65.6	47.6	68.2	48.0	--	--	--	--	48.9	48.6	--	--	10,880.0	1,159.8
Incense-cedar	686.2	164.8	617.2	144.1	721.2	180.6	585.9	165.1	661.3	208.7	451.0	159.8	3,097.3	768.1	19,412.6	1,793.0
Lodgepole pine	9.5	9.5	--	--	--	--	--	--	--	--	--	--	151.2	112.2	64,724.1	3,124.6
Ponderosa and Jeffrey pines	3,044.3	346.6	2,139.0	290.4	1,536.7	271.3	808.6	190.6	682.7	193.4	310.2	128.2	1,307.4	470.7	164,686.8	4,669.8
Sitka spruce	421.6	150.3	372.7	132.9	640.7	232.1	625.8	241.4	391.8	145.9	411.7	232.2	2,387.1	1,201.7	20,012.5	4,000.8
Sugar pine	696.2	191.2	836.1	249.8	950.4	294.9	842.8	261.3	829.9	275.6	1,465.5	408.8	5,068.7	1,129.5	18,646.6	2,100.0
True fir	4,385.1	560.7	3,655.3	506.2	2,487.1	432.3	2,345.5	403.4	1,642.6	383.5	1,118.9	282.1	2,889.4	641.3	233,039.4	8,802.6
Western hemlock	2,365.3	419.0	1,437.0	270.8	1,819.0	368.7	1,415.0	313.7	1,030.7	356.1	845.3	268.9	1,702.0	388.7	160,970.3	7,747.8
Western juniper	82.2	29.2	28.2	19.6	9.9	10.4	29.7	21.4	60.8	36.6	12.7	12.8	13.8	14.5	21,341.8	1,104.1
Western larch	68.7	49.8	120.3	70.8	--	--	--	--	--	--	58.4	58.1	62.8	62.5	16,775.7	1,505.2
Western redcedar	1,340.1	229.6	1,001.8	195.3	1,231.4	247.6	745.0	241.1	884.4	201.6	477.7	182.4	3,995.5	850.7	32,331.0	2,757.2
Other western softwoods	854.1	205.0	680.1	220.8	420.1	178.9	215.3	131.9	191.8	131.4	605.1	305.5	1,498.1	533.1	71,322.1	5,487.7
Total	46,098.3	1,919.1	38,200.9	1,726.9	35,534.2	1,847.9	31,237.9	1,690.3	26,884.9	1,661.0	27,831.8	1,711.5	128,019.4	7,559.1	1,906,917.2	24,312.2
Hardwoods:																
Cottonwood and aspen	29.8	31.3	86.7	74.7	60.8	46.3	85.8	89.4	97.2	101.3	--	--	71.7	67.8	2,943.9	604.7
Oak	145.1	88.7	108.8	72.2	52.7	49.6	--	--	--	--	--	--	162.2	117.0	28,667.5	2,508.5
Red alder	--	--	--	--	--	--	--	--	--	--	--	--	364.6	220.9	55,353.3	3,035.7
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	11.1	11.4	--	--	1,844.7	287.0
Other western hardwoods	549.3	159.8	392.6	150.2	513.3	175.4	170.2	95.8	248.3	120.4	--	--	173.4	118.2	93,317.5	4,649.8
Total	724.2	185.4	588.1	182.6	626.8	188.0	256.0	131.1	345.5	157.3	11.1	11.4	771.9	283.8	182,126.9	6,211.4
All species groups	46,822.5	1,929.4	38,789.0	1,735.7	36,161.0	1,855.0	31,493.9	1,695.2	27,230.4	1,667.0	27,842.8	1,711.5	128,791.3	7,564.4	2,089,044.2	25,080.2

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 bone-dry tons was estimated.

^aIncludes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes. Aboveground biomass of the tree from ground to tip, includes stem wood, bark, and branches; calculated with regional biomass equations.

Table A2-48--Aboveground biomass of dead trees^a on forest land, by species group and diameter class, Oregon, 2001-2010

Species group	Diameter class (inches)															
	5.0-6.9		7.0-8.9		9.0-10.9		11.0-12.9		13.0-14.9		15.0-16.9		17.0-18.9		19.0-20.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand tons</i>																
Softwoods:																
Douglas-fir	3,542.9	175.8	4,512.1	248.5	4,770.1	303.4	3,996.8	272.0	3,946.4	306.9	4,078.7	356.5	4,237.9	413.0	4,480.3	451.1
Engelmann and other spruces	93.8	22.8	88.9	34.0	112.5	37.9	99.7	37.6	104.8	41.4	180.9	64.1	67.1	42.4	165.9	73.2
Incense-cedar	79.1	22.1	54.5	15.3	88.3	24.8	67.2	22.4	39.7	22.1	28.2	20.3	90.5	48.5	122.9	84.2
Lodgepole pine	1,569.8	134.7	2,026.7	177.5	2,439.1	246.1	1,837.0	293.2	1,360.1	211.8	701.5	161.7	376.3	112.0	115.9	60.6
Ponderosa and Jeffrey pines	520.3	58.7	521.4	55.9	611.2	82.5	770.2	125.6	696.3	108.8	658.7	153.3	493.7	106.7	717.9	170.8
Sitka spruce	82.8	26.2	72.4	22.5	173.3	85.8	123.3	56.5	95.7	43.2	56.9	38.5	--	--	40.1	28.9
Sugar pine	16.0	5.7	43.2	15.6	58.8	21.4	30.8	19.9	53.4	30.8	90.8	45.7	179.7	90.1	139.2	72.2
True fir	1,909.5	150.3	2,442.4	194.1	2,704.8	213.6	2,940.5	229.8	3,307.8	309.7	2,960.2	322.0	3,399.0	360.8	2,553.3	341.1
Western hemlock	513.0	79.6	569.5	98.7	650.2	92.0	589.4	101.2	315.2	75.5	531.2	136.1	515.3	129.8	562.8	161.5
Western juniper	63.1	10.4	101.2	19.7	114.5	33.6	67.3	20.7	123.4	35.7	118.8	45.1	62.3	32.4	64.2	38.8
Western larch	113.3	22.2	261.8	61.1	341.1	78.6	412.4	100.1	268.0	76.7	427.5	119.9	548.4	145.3	288.8	118.4
Western redcedar	31.1	8.2	44.0	11.8	42.1	14.4	44.4	22.2	49.5	34.1	60.4	28.8	66.9	42.2	100.6	49.6
Other western softwoods	506.9	57.7	731.7	91.6	939.7	125.7	1,141.2	147.2	1,258.7	186.7	1,374.7	233.2	1,384.5	249.0	1,454.0	272.1
Total	9,041.6	312.4	11,469.5	412.3	13,045.8	512.6	12,119.9	533.0	11,618.8	558.3	11,268.3	619.1	11,421.6	676.8	10,805.8	697.9
Hardwoods:																
Cottonwood and aspen	34.7	12.9	30.3	17.9	39.8	21.6	46.6	24.5	15.3	15.2	7.0	7.0	--	--	--	--
Oak	419.8	77.7	346.3	95.9	350.1	98.4	328.6	110.9	72.7	36.7	169.6	95.2	191.7	83.7	83.5	46.1
Red alder	313.9	39.1	431.0	56.6	324.1	52.2	382.8	80.2	311.5	88.9	353.6	103.5	130.0	64.3	218.9	89.6
Woodland hardwoods	85.4	14.7	137.1	27.5	103.5	26.4	130.4	32.9	58.1	27.5	61.5	36.8	--	--	--	--
Other western hardwoods	1,665.8	189.0	1,507.9	192.2	1,140.3	176.1	1,080.9	174.0	618.7	158.3	556.4	138.0	330.1	114.2	299.6	157.8
Total	2,519.7	221.2	2,452.5	229.3	1,957.8	220.5	1,969.3	236.6	1,076.2	187.6	1,148.1	211.2	651.8	155.3	602.1	187.1
All species groups	11,561.3	388.7	13,922.0	473.8	15,003.6	553.5	14,089.3	581.9	12,695.0	587.8	12,416.4	656.9	12,073.4	696.3	11,407.9	722.5

Table A2-48--Aboveground biomass of dead trees^a on forest land, by species group and diameter class, Oregon, 2001-2010 (Continued)

Species group	Diameter class (inches)															
	21.0-22.9		23.0-24.9		25.0-26.9		27.0-28.9		29.0-30.9		31.0-32.9		33.0-34.9		35.0-36.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand tons</i>																
Softwoods:																
Douglas-fir	4,343.1	497.4	4,053.6	485.2	4,252.1	524.2	4,661.7	637.9	4,097.8	489.5	3,267.0	273.2	3,807.6	334.1	4,001.5	366.3
Engelmann and other spruces	188.7	93.1	149.0	80.6	172.9	75.2	181.5	85.5	62.0	28.5	52.2	30.6	68.4	44.5	45.0	31.8
Incense-cedar	117.2	60.9	75.0	57.3	144.6	81.7	17.9	13.3	158.6	80.4	53.0	26.9	98.6	42.9	19.8	19.8
Lodgepole pine	242.9	111.2	82.7	64.8	28.8	15.0	29.7	18.3	--	--	15.6	15.6	15.3	15.7	7.6	8.0
Ponderosa and Jeffrey pines	680.2	167.8	700.3	148.0	661.3	115.7	699.3	106.4	732.8	112.4	624.6	107.5	762.0	121.0	634.5	131.4
Sitka spruce	--	--	13.9	14.0	--	--	--	--	56.9	33.4	10.0	7.1	24.9	23.1	11.2	8.8
Sugar pine	174.2	97.0	348.0	175.0	27.7	20.6	185.4	131.7	155.0	131.2	180.9	79.5	204.5	86.9	230.4	97.2
True fir	3,233.8	443.7	2,327.5	365.3	1,561.1	256.3	1,656.6	293.7	1,698.0	296.3	1,279.1	174.7	1,256.6	187.7	1,008.1	176.3
Western hemlock	335.7	178.2	355.1	149.2	257.2	161.6	550.2	238.9	527.3	201.5	410.5	95.5	333.7	94.5	468.9	145.2
Western juniper	31.3	29.9	51.7	32.5	57.3	20.0	33.2	15.3	23.1	13.8	48.7	23.8	9.7	10.2	--	--
Western larch	255.4	118.1	212.2	93.0	208.8	58.4	156.4	56.8	124.3	56.5	86.6	41.4	83.3	43.2	50.7	35.8
Western redcedar	236.3	102.3	118.6	75.8	25.0	25.5	138.1	139.0	43.4	31.5	140.0	48.6	136.7	50.3	139.8	71.1
Other western softwoods	1,404.6	288.0	803.4	198.6	761.6	172.4	779.4	239.8	857.8	217.8	506.4	112.5	379.5	85.6	431.2	111.6
Total	11,243.6	817.3	9,290.9	722.6	8,158.5	659.2	9,089.5	843.7	8,537.0	676.3	6,674.4	388.2	7,180.7	449.4	7,048.6	513.9
Hardwoods:																
Cottonwood and aspen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oak	87.2	87.4	230.3	139.9	198.3	136.3	--	--	--	--	--	--	--	--	34.6	35.3
Red alder	72.4	43.4	152.5	100.2	158.2	97.3	246.4	144.2	79.7	71.8	--	--	--	--	--	--
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western hardwoods	196.1	121.7	89.2	89.5	212.2	128.7	174.7	119.1	38.8	27.9	--	--	26.1	15.7	17.7	16.0
Total	355.8	156.0	472.1	194.0	568.7	211.2	421.1	187.0	118.5	77.0	--	--	26.1	15.7	52.3	38.8
All species groups	11,599.3	830.6	9,762.9	746.8	8,727.2	691.7	9,510.6	863.8	8,655.4	680.6	6,674.4	388.2	7,206.8	449.7	7,100.9	515.3

Table A2-48--Aboveground biomass of dead trees^a on forest land, by species group and diameter class, Oregon, 2001-2010 (Continued)

Species group	Diameter class (inches)														All classes	
	37.0-38.9		39.0-40.9		41.0-42.9		43.0-44.9		45.0-46.9		47.0-48.9		49.0 +			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand tons</i>																
Softwoods:																
Douglas-fir	3,825.0	342.2	4,259.9	444.4	3,046.8	358.0	3,115.0	362.1	2,783.7	348.4	2,617.7	351.3	16,603.7	1,392.7	102,301.3	3,720.8
Engelmann and other spruces	--	--	--	--	--	--	--	--	27.8	28.0	--	--	--	--	1,861.0	379.0
Incense-cedar	10.7	10.1	41.8	32.5	--	--	68.1	51.1	39.6	39.8	50.8	49.5	--	--	1,465.8	234.9
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10,849.0	987.2
Ponderosa and Jeffrey pines	320.7	94.4	394.3	111.8	127.2	58.8	132.5	74.3	126.7	77.3	343.3	135.5	434.2	174.4	12,363.4	824.1
Sitka spruce	--	--	15.2	8.5	--	--	--	--	20.8	14.5	--	--	619.5	252.1	1,416.8	362.8
Sugar pine	534.2	175.3	400.2	143.1	542.1	202.5	203.9	119.7	420.9	188.2	368.3	188.7	2,410.7	667.9	6,998.3	1,179.7
True fir	871.0	174.5	776.1	177.6	660.4	162.4	674.8	187.0	318.8	122.0	720.8	211.2	1,076.6	266.1	41,337.0	2,155.7
Western hemlock	308.7	115.5	123.7	66.3	361.5	125.0	227.8	128.3	31.2	18.8	111.2	70.3	1,025.9	306.1	9,675.2	950.6
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	969.8	135.1
Western larch	78.3	56.2	31.5	31.7	--	--	--	--	--	--	--	--	72.3	74.4	4,020.9	485.4
Western redcedar	39.2	22.1	48.9	33.5	60.6	40.1	42.9	21.2	186.7	77.9	45.2	46.3	723.4	328.3	2,563.8	465.5
Other western softwoods	512.5	155.0	218.3	86.7	249.3	116.8	205.0	84.3	125.3	76.0	44.5	44.7	825.2	312.7	16,895.3	1,462.6
Total	6,500.4	489.0	6,309.9	528.1	5,047.9	476.6	4,670.1	463.2	4,081.5	461.7	4,301.8	495.1	23,791.6	1,775.4	212,717.5	5,331.2
Hardwoods:																
Cottonwood and aspen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	173.7	58.9
Oak	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,512.7	551.5
Red alder	--	--	--	--	29.3	22.7	--	--	34.7	34.6	--	--	--	--	3,239.0	444.6
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	576.1	99.4
Other western hardwoods	--	--	--	--	--	--	--	--	--	--	32.9	30.5	--	--	7,987.4	814.1
Total	--	--	--	--	29.3	22.7	--	--	34.7	34.6	32.9	30.5	--	--	14,489.0	1,182.6
All species groups	6,500.4	489.0	6,309.9	528.1	5,077.2	477.1	4,670.1	463.2	4,116.2	462.8	4,334.7	498.3	23,791.6	1,775.4	227,206.5	5,505.7

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 bone-dry tons was estimated.

^aIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory. Aboveground biomass is estimated from ground to actual height, includes stem wood, bark, and branches; calculated with regional biomass equations.

Table A2-49--Aboveground green biomass of live trees^a on forest land, by ownership and land status, Oregon, 2001-2010

Ownership	Land status												All forest land	
	Unreserved forests						Reserved forests							
	Timberland		Other forest		Total		Productive		Other forest		Total		Total	SE
Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	
<i>Thousand tons, green weight</i>														
USDA Forest Service:														
National Forest	1,652,087.2	36,208.3	23,038.4	3,675.5	1,675,125.6	36,012.5	347,396.6	23,352.4	13,204.2	3,618.4	360,600.8	23,553.3	2,035,726.3	34,095.3
National Grasslands	--	--	180.0	99.0	180.0	99.0	--	--	--	--	--	--	180.0	99.0
Total	1,652,087.2	36,208.3	23,218.4	3,676.4	1,675,305.6	36,011.5	347,396.6	23,352.4	13,204.2	3,618.4	360,600.8	23,553.3	2,035,906.4	34,094.2
Other federal government:														
Bureau of Land Management	477,077.0	22,452.7	20,913.8	2,532.7	497,990.8	22,372.7	14,224.6	4,542.9	938.5	439.3	15,163.2	4,564.0	513,153.9	22,058.1
National Park Service	--	--	--	--	--	--	23,206.2	3,911.3	2,752.4	2,366.9	25,958.6	4,192.4	25,958.6	4,192.4
U.S. Fish and Wildlife Service	--	--	--	--	--	--	607.4	428.2	36.7	42.2	644.1	430.2	644.1	430.2
Other federal	1,923.8	1,397.7	--	--	1,923.8	1,397.7	908.3	941.0	--	--	908.3	941.0	2,832.1	1,684.9
Total	479,000.8	22,494.7	20,913.8	2,532.7	499,914.6	22,414.8	38,946.5	6,083.2	3,727.7	2,407.7	42,674.1	6,283.0	542,588.7	22,160.4
State and local government:														
Local	15,146.7	4,416.2	456.8	255.3	15,603.5	4,424.9	4,295.9	2,786.0	--	--	4,295.9	2,786.0	19,899.4	5,222.6
State	166,882.4	13,341.0	1,261.6	597.9	168,144.0	13,354.2	16,766.5	6,717.0	--	--	16,766.5	6,717.0	184,910.6	14,572.2
Other public	32.0	32.7	--	--	32.0	32.7	--	--	--	--	--	--	32.0	32.7
Total	182,061.0	13,998.4	1,718.4	650.1	183,779.5	14,012.8	21,062.5	7,271.8	--	--	21,062.5	7,271.8	204,842.0	15,426.1
Corporate private	553,535.8	21,571.6	7,765.1	2,662.6	561,300.8	21,648.5	--	--	--	--	--	--	561,300.8	21,648.5
Noncorporate private:														
Nongovernmental conservation or natural resource organizations	33,098.7	6,505.1	--	--	33,098.7	6,505.1	--	--	--	--	--	--	33,098.7	6,505.1
Unincorporated partnerships, associations, clubs	4,771.5	2,621.2	196.4	131.7	4,967.9	2,624.5	--	--	--	--	--	--	4,967.9	2,624.5
Native American	37,425.0	6,152.2	2,519.9	1,257.3	39,944.9	6,223.8	--	--	--	--	--	--	39,944.9	6,223.8
Individual	259,480.7	15,365.7	22,527.0	2,716.2	282,007.7	15,478.5	--	--	--	--	--	--	282,007.7	15,478.5
Total	334,775.9	17,580.5	25,243.3	2,989.7	360,019.3	17,676.6	--	--	--	--	--	--	360,019.3	17,676.6
All private	888,311.7	23,879.4	33,008.4	3,981.6	921,320.1	23,812.7	--	--	--	--	--	--	921,320.1	23,812.7
All owners	3,201,460.7	47,727.1	78,859.0	6,011.3	3,280,319.8	47,465.7	407,405.6	25,182.5	16,931.8	4,346.3	424,337.4	25,417.1	3,704,657.2	45,887.6

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 bone-dry tons was estimated.

^a Includes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes. Aboveground biomass of the tree from ground to tip, includes stem wood, bark, and branches; calculated with regional biomass equations.

Table A2-50--Aboveground green biomass of live trees^o on forest land, by species group and diameter class, Oregon, 2001-2010

Species group	Diameter class (inches)											
	1.0-2.9		3.0-4.9		5.0-6.9		7.0-8.9		9.0-10.9		11.0-12.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand tons, green weight</i>												
Softwoods:												
Douglas-fir	9,013.1	597.2	16,126.6	905.6	40,049.6	1,341.4	72,228.6	2,386.0	101,808.0	3,289.2	119,541.9	4,051.5
Engelmann and other spruces	1,336.2	243.4	531.0	148.6	627.2	85.6	677.9	108.1	1,045.1	171.1	1,469.5	233.0
Incense-cedar	205.1	29.1	558.4	104.6	834.9	81.6	860.4	99.5	1,135.7	140.8	1,078.6	141.1
Lodgepole pine	19,920.1	1,700.3	10,451.7	852.9	13,933.3	925.4	16,357.4	990.2	15,666.5	962.6	11,506.8	809.4
Ponderosa and Jeffrey pines	1,619.9	115.6	4,146.0	324.8	7,114.9	346.5	10,871.5	465.1	15,908.2	657.3	17,525.5	802.3
Sitka spruce	186.9	55.7	187.4	81.1	383.3	64.4	602.1	140.4	924.8	237.7	1,447.0	355.1
Sugar pine	20.9	6.1	95.3	56.5	169.6	46.4	276.8	61.0	339.7	99.8	273.9	93.1
True fir	14,382.9	897.3	11,037.1	685.5	14,829.5	648.8	19,376.3	856.6	23,123.1	1,044.7	27,283.9	1,287.3
Western hemlock	1,428.1	177.6	3,761.3	381.3	8,105.4	490.3	14,278.1	876.5	18,847.7	1,261.8	25,659.7	1,838.9
Western juniper	433.8	51.4	1,321.1	172.0	2,368.2	149.6	3,469.7	217.5	4,094.0	286.8	3,828.7	281.7
Western larch	1,506.7	415.0	869.1	195.3	654.4	125.0	1,209.8	182.1	1,717.2	248.5	2,222.4	298.2
Western redcedar	618.0	84.5	622.9	121.0	952.1	101.8	1,258.2	140.1	1,433.8	178.7	2,043.5	263.4
Other western softwoods	2,641.4	249.0	2,561.3	299.2	4,124.7	315.1	5,527.7	460.9	7,435.4	682.3	9,998.0	954.4
Total	53,312.9	2,184.5	52,269.2	1,633.1	94,147.1	1,914.3	146,994.4	2,948.9	193,478.9	3,907.6	223,879.4	4,817.6
Hardwoods:												
Cottonwood and aspen	146.0	55.4	240.6	124.4	165.5	52.9	157.5	71.8	328.7	126.7	330.8	168.9
Oak	1,107.1	167.4	4,153.6	560.6	6,376.9	549.0	6,500.6	594.1	5,233.9	621.6	4,509.1	543.0
Red alder	744.9	97.7	2,277.0	301.8	5,500.2	425.1	9,088.3	674.9	12,205.4	891.6	13,874.2	1,117.3
Woodland hardwoods	194.8	64.6	245.5	59.8	365.1	52.2	582.5	83.8	503.7	96.7	444.2	88.4
Other western hardwoods	3,690.0	315.7	9,609.4	821.7	16,390.1	841.6	21,184.3	1,232.1	21,106.7	1,355.4	18,302.6	1,361.5
Total	5,882.8	386.0	16,526.1	1,061.3	28,797.9	1,117.2	37,513.2	1,541.6	39,378.4	1,734.1	37,460.8	1,843.5
All species groups	59,195.8	2,216.3	68,795.3	1,947.4	122,945.0	2,249.9	184,507.7	3,328.3	232,857.3	4,213.7	261,340.1	5,078.1

Table A2-50--Aboveground green biomass of live trees^a on forest land, by species group and diameter class, Oregon, 2001-2010 (Continued)

Species group	Diameter class (inches)											
	13.0-14.9		15.0-16.9		17.0-18.9		19.0-20.9		21.0-22.9		23.0-24.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand tons, green weight</i>												
Softwoods:												
Douglas-fir	125,650.6	4,247.8	132,650.7	4,646.7	125,095.6	4,832.3	121,967.6	4,978.4	107,478.0	4,998.7	100,704.7	5,438.2
Engelmann and other spruces	1,509.0	288.5	2,128.7	404.9	1,681.8	323.3	1,300.9	329.2	2,002.3	528.9	1,184.8	344.9
Incense-cedar	1,516.6	220.2	1,071.3	207.2	1,006.3	207.3	1,350.4	276.8	1,084.2	251.3	704.7	247.9
Lodgepole pine	7,529.0	672.7	4,349.4	499.5	3,168.8	463.9	1,457.4	332.5	1,096.9	313.7	417.5	171.8
Ponderosa and Jeffrey pines	21,206.6	1,032.3	18,295.1	960.9	17,233.0	1,034.1	15,655.6	1,071.7	13,319.0	1,104.4	13,666.4	957.1
Sitka spruce	1,796.8	409.8	1,963.4	542.7	3,061.6	964.0	1,772.9	519.7	3,442.6	930.3	2,019.3	662.9
Sugar pine	404.0	119.6	752.3	255.7	603.6	199.0	942.8	315.0	298.2	193.2	1,826.4	526.3
True fir	28,000.3	1,385.9	26,729.6	1,464.8	28,524.3	1,756.6	25,575.6	1,818.3	23,938.2	1,970.1	22,274.8	1,811.3
Western hemlock	29,325.0	2,137.9	31,381.7	2,356.4	26,982.9	2,350.2	24,578.5	2,210.9	22,797.4	2,319.9	21,557.7	2,378.1
Western juniper	3,627.0	295.8	3,278.5	319.3	2,968.1	338.8	2,093.4	288.4	1,366.7	251.6	1,528.2	260.2
Western larch	2,272.2	384.5	3,169.6	461.7	2,746.7	520.0	3,124.4	614.7	1,637.9	472.6	1,997.7	500.8
Western redcedar	1,959.0	289.2	2,307.9	318.9	2,369.1	364.4	2,297.6	504.4	2,227.2	438.9	2,677.7	580.7
Other western softwoods	9,803.9	983.5	11,566.3	1,314.8	12,297.3	1,392.8	12,448.7	1,589.6	10,437.7	1,436.3	10,996.2	1,587.4
Total	234,599.9	5,166.4	239,644.5	5,713.7	227,739.2	6,059.5	214,565.8	6,093.0	191,126.2	6,214.0	181,556.2	6,504.6
Hardwoods:												
Cottonwood and aspen	376.3	177.5	278.7	157.7	366.0	168.5	461.1	216.7	389.7	233.3	183.6	144.9
Oak	4,136.9	598.8	4,312.9	675.9	3,216.4	859.4	2,568.6	568.3	2,457.8	869.8	574.3	304.0
Red alder	13,954.8	1,186.0	11,439.0	1,114.0	7,278.8	867.8	7,199.4	997.1	2,618.3	578.7	3,312.5	835.0
Woodland hardwoods	338.8	91.3	271.9	75.9	141.7	54.4	76.0	46.1	105.8	56.0	49.5	52.4
Other western hardwoods	15,537.9	1,135.7	12,993.3	1,304.2	10,765.3	1,205.2	5,196.8	800.0	8,816.5	1,313.4	4,304.3	919.6
Total	34,344.6	1,776.9	29,295.9	1,873.8	21,768.2	1,731.8	15,501.9	1,425.8	14,388.1	1,712.2	8,424.2	1,312.8
All species groups	268,944.5	5,426.4	268,940.4	5,938.2	249,507.4	6,328.5	230,067.7	6,305.2	205,514.3	6,410.0	189,980.5	6,605.4

Table A2-50--Aboveground green biomass of live trees on forest land, by species group and diameter class, Oregon, 2001-2010 (Continued)

Species group	Diameter class (inches)											
	25.0-26.9		27.0-28.9		29.0-30.9		31.0-32.9		33.0-34.9		35.0-36.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand tons, green weight</i>												
Softwoods:												
Douglas-fir	96,788.1	5,389.0	79,382.6	5,328.4	73,898.6	4,169.0	66,099.4	3,288.8	66,382.3	3,263.1	63,317.8	3,267.8
Engelmann and other spruces	754.2	154.5	477.7	119.5	526.7	155.9	510.9	171.3	386.8	129.7	420.6	194.7
Incense-cedar	781.4	268.4	1,508.7	419.3	692.4	262.7	856.6	158.4	836.6	169.4	794.4	181.2
Lodgepole pine	99.9	46.0	76.1	38.1	111.8	57.4	21.3	21.5	--	--	25.8	24.5
Ponderosa and Jeffrey pines	11,272.2	663.5	11,704.9	744.2	10,916.5	685.8	9,162.5	656.6	8,232.1	618.3	5,861.7	554.3
Sitka spruce	2,277.5	1,125.1	2,065.9	787.2	1,379.5	568.2	867.7	251.2	993.5	284.5	532.3	200.0
Sugar pine	1,287.5	465.6	1,612.6	631.9	1,745.5	599.7	1,181.6	343.2	1,599.1	375.9	1,711.5	408.7
True fir	18,150.7	1,618.2	16,318.2	1,691.9	16,210.4	1,571.7	11,479.7	1,012.7	9,668.9	943.2	8,684.0	999.0
Western hemlock	19,078.7	2,192.0	15,562.5	2,270.0	10,838.1	1,605.8	9,463.6	1,061.2	7,255.0	1,081.6	5,465.9	796.5
Western juniper	905.2	117.5	751.7	102.5	582.4	93.0	412.2	83.6	428.4	91.0	249.4	73.4
Western larch	1,251.0	249.7	849.7	170.1	907.6	213.4	829.6	241.0	332.8	154.2	342.7	149.4
Western redcedar	3,396.4	715.4	2,372.6	602.0	2,370.0	487.6	2,273.1	357.7	2,043.6	358.3	1,788.0	353.2
Other western softwoods	6,561.6	1,005.9	5,916.8	1,005.6	5,603.9	990.2	3,051.7	467.9	2,844.9	514.4	1,818.2	467.5
Total	162,604.6	6,250.6	138,600.0	6,275.4	125,783.4	5,132.3	106,210.1	3,774.4	101,004.2	3,707.9	91,012.2	3,688.0
Hardwoods:												
Cottonwood and aspen	23.8	21.3	747.9	412.2	302.3	284.8	198.4	113.3	311.4	178.7	--	--
Oak	2,713.4	897.4	614.8	417.1	695.9	397.7	572.2	174.5	123.8	90.2	124.1	89.8
Red alder	2,749.8	714.3	947.4	420.7	827.4	370.3	207.5	93.1	188.1	94.9	165.0	96.2
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--
Other western hardwoods	4,414.1	1,000.0	3,472.7	866.2	2,106.8	683.3	1,852.2	371.4	487.7	185.5	1,377.7	312.1
Total	9,901.0	1,538.6	5,782.8	1,122.7	3,932.4	918.9	2,830.3	453.4	1,111.0	288.1	1,666.9	338.1
All species groups	172,505.6	6,424.6	144,382.7	6,371.6	129,715.8	5,205.0	109,040.5	3,804.4	102,115.2	3,723.9	92,679.0	3,703.7

Table A2-50--Aboveground green biomass of live trees on forest land, by species group and diameter class, Oregon, 2001-2010 (Continued)

Species group	Diameter class (inches)														All classes	
	37.0-38.9		39.0-40.9		41.0-42.9		43.0-44.9		45.0-46.9		47.0-48.9		49.0 +		Total	SE
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand tons, green weight</i>																
Softwoods:																
Douglas-fir	59,521.0	3,089.1	50,701.7	2,831.7	47,728.1	2,976.0	43,959.9	2,775.0	38,162.8	2,736.8	40,986.3	2,898.3	196,956.4	12,909.8	1,996,199.9	38,615.0
Engelmann and other spruces	278.7	128.4	115.5	84.0	120.3	84.6	--	--	--	--	86.1	85.6	--	--	19,171.9	2,043.7
Incense-cedar	919.6	220.9	827.2	193.1	966.6	242.0	785.2	221.3	886.2	279.8	604.4	214.2	4,151.0	1,029.4	26,017.2	2,403.1
Lodgepole pine	15.6	15.7	--	--	--	--	--	--	--	--	--	--	248.7	184.6	106,454.1	5,139.2
Ponderosa and Jeffrey pines	4,201.7	478.5	2,951.9	400.8	2,121.0	374.4	1,115.9	263.0	942.1	267.0	428.1	177.0	1,804.3	649.5	227,276.5	6,444.4
Sitka spruce	739.8	263.7	654.0	233.2	1,124.4	407.2	1,098.2	423.7	687.5	256.0	722.6	407.5	4,189.1	2,108.9	35,120.0	7,021.0
Sugar pine	1,324.7	363.9	1,590.9	475.4	1,808.5	561.2	1,603.7	497.3	1,579.2	524.5	2,788.7	777.9	9,645.1	2,149.4	35,482.3	3,996.0
True fir	6,951.9	883.2	5,837.8	808.3	3,950.3	687.1	3,762.7	648.2	2,646.8	618.0	1,803.7	454.8	4,623.1	1,029.5	375,163.7	14,184.9
Western hemlock	4,662.3	825.9	2,832.5	533.7	3,585.4	726.8	2,789.1	618.4	2,031.7	702.0	1,666.1	530.1	3,354.9	766.3	317,289.3	15,271.7
Western juniper	131.2	46.6	45.1	31.3	15.7	16.7	47.4	34.2	97.2	58.4	20.3	20.5	22.0	23.2	34,085.5	1,763.4
Western larch	115.3	83.7	202.0	118.9	--	--	--	--	--	--	98.1	97.5	105.5	104.9	28,162.4	2,526.9
Western redcedar	2,070.9	354.8	1,548.1	301.9	1,902.9	382.7	1,151.4	372.5	1,366.7	311.5	738.2	281.9	6,174.5	1,314.6	49,963.3	4,261.0
Other western softwoods	1,544.6	371.2	1,234.8	411.4	760.1	323.8	399.7	247.2	357.0	246.1	1,072.0	564.8	2,556.9	920.1	133,560.8	10,381.7
Total	82,477.3	3,483.8	68,541.6	3,146.6	64,083.4	3,380.3	56,713.1	3,094.2	48,757.2	3,041.1	51,014.6	3,162.1	233,831.5	13,921.8	3,383,946.8	44,572.0
Hardwoods:																
Cottonwood and aspen	59.4	62.4	172.8	149.0	121.3	92.3	171.1	178.3	193.9	202.1	--	--	142.9	135.2	5,869.8	1,205.7
Oak	239.2	146.3	208.8	138.5	101.1	95.2	--	--	--	--	--	--	291.6	212.9	50,832.9	4,335.9
Red alder	--	--	--	--	--	--	--	--	--	--	--	--	627.2	380.0	95,205.3	5,221.4
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	19.9	20.5	--	--	3,339.3	517.2
Other western hardwoods	1,034.4	297.5	692.9	263.9	909.4	302.9	359.5	202.4	524.4	254.2	--	--	333.9	232.7	165,463.0	7,993.3
Total	1,333.0	337.3	1,074.6	333.2	1,131.8	330.4	530.6	269.7	718.3	324.7	19.9	20.5	1,395.5	510.3	320,710.3	10,761.4
All species groups	83,810.3	3,503.9	69,616.2	3,162.8	65,215.1	3,392.7	57,243.7	3,105.6	49,475.5	3,055.3	51,034.6	3,162.1	235,227.0	13,931.0	3,704,657.2	45,887.6

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 bone-dry tons was estimated.

^aIncludes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes. Aboveground biomass of the tree from ground to tip, includes stem wood, bark, and branches; calculated with regional biomass equations.

Table A2-51--Average aboveground biomass per acre of live trees on forest land, by forest type group and stand age class, Oregon, 2001 - 2010

Forest type group	Stand age class (years)													
	1-20		21-40		41-60		61-80		81-100		101-120		121-140	
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
	<i>Tons per acre</i>													
Softwoods:														
Douglas-fir	15.13	0.97	76.88	1.97	122.03	3.44	112.47	5.66	110.93	5.45	167.24	9.52	172.94	10.78
Fir / spruce / mtn. hemlock	12.17	3.15	38.47	5.02	47.87	6.10	59.88	4.27	80.05	5.92	70.14	5.48	91.13	8.03
Hemlock / Sitka spruce	19.77	5.22	97.01	7.24	138.21	11.37	156.41	16.96	194.72	39.14	173.22	24.45	283.91	10.84
Lodgepole pine	14.27	1.77	19.76	1.79	29.31	2.06	38.83	2.63	45.19	2.92	60.04	5.26	43.25	12.18
Ponderosa pine	6.82	1.15	19.45	1.84	25.09	1.27	35.15	1.58	41.67	1.81	49.04	4.04	50.16	6.67
Western juniper	0.93	0.44	2.76	0.61	7.37	0.75	9.99	0.74	8.65	0.82	11.63	1.59	9.11	1.83
Western larch	16.97	7.43	21.90	7.12	33.57	16.26	54.93	18.22	73.00	13.21	65.25	14.30	77.16	3.07
Western white pine	--	--	7.00	7.00	--	--	18.71	18.71	--	--	10.04	10.04	--	--
Other western softwoods	23.24	1.37	0.56	0.22	16.25	5.55	--	--	9.87	5.80	34.37	12.66	59.05	59.05
Total	13.82	0.74	60.75	1.72	70.00	2.43	53.69	2.08	66.99	2.49	96.50	5.09	111.75	6.81
Hardwoods:														
Alder / maple	23.56	3.02	63.81	4.35	85.95	4.24	105.41	11.37	76.06	5.05	96.00	27.60	105.46	11.65
Aspen / birch	3.09	1.86	17.32	7.82	18.82	4.35	13.42	5.10	39.81	17.17	--	--	--	--
Elm / ash / cottonwood	9.47	3.24	33.42	19.51	6.85	8.54	71.98	16.46	133.44	82.48	--	--	--	--
Tanoak / laurel	4.96	1.66	51.12	8.45	83.64	11.03	100.78	23.95	161.32	22.61	183.06	16.83	163.89	1.37
Western oak	5.54	1.97	38.97	13.81	44.79	5.26	33.05	4.34	56.57	10.02	43.80	9.63	52.05	25.57
Woodland hardwoods	1.45	0.47	13.01	4.86	7.67	3.37	17.50	4.23	16.85	2.69	17.55	17.55	20.84	20.84
Other hardwoods	12.06	3.83	48.61	11.52	60.60	8.56	63.20	11.31	70.11	19.22	43.80	15.70	70.38	70.38
Total	13.51	1.63	55.35	3.66	68.04	3.50	61.30	5.48	73.11	8.53	70.35	14.33	75.75	19.65
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--	--
All forest types	13.76	0.67	59.96	1.56	69.68	2.10	54.59	1.94	67.54	2.38	95.09	4.89	109.13	6.51

Table A2-51--Average aboveground biomass per acre of live trees^a on forest land, by forest type group and stand age class, Oregon, 2001-2010 (Continued)

Forest type group	Stand age class (years)											
	141-160		161-180		181-200		201 plus		Unknown		All classes	
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
<i>Tons per acre</i>												
Softwoods:												
Douglas-fir	180.63	11.67	226.29	21.51	186.05	13.45	227.20	7.11	12.76	0.83	109.95	1.90
Fir / spruce / mtn. hemlock	104.37	9.34	86.08	8.54	104.26	9.95	133.00	6.11	--	--	79.71	2.31
Hemlock / Sitka spruce	186.28	60.69	301.57	36.99	197.54	35.88	217.35	12.41	--	--	142.02	6.83
Lodgepole pine	37.68	3.73	41.66	41.66	24.11	15.13	--	--	--	--	31.71	1.20
Ponderosa pine	54.70	5.95	53.84	9.46	63.80	12.64	49.10	4.84	--	--	35.63	0.92
Western juniper	10.96	2.23	7.58	1.47	9.11	2.15	12.63	2.17	15.36	10.85	8.72	0.38
Western larch	30.92	10.17	--	--	71.19	71.19	106.45	41.07	--	--	49.61	6.62
Western white pine	--	--	10.30	10.30	--	--	62.26	62.26	--	--	22.60	9.84
Other western softwoods	--	--	--	--	--	--	--	--	--	--	20.39	6.30
Total	114.51	6.96	122.46	11.59	115.47	7.90	168.54	5.63	14.23	6.18	74.01	0.95
Hardwoods:												
Alder / maple	124.82	26.36	114.22	18.41	37.30	23.82	95.47	8.70	--	--	68.07	3.00
Aspen / birch	--	--	--	--	41.52	41.52	--	--	--	--	18.11	5.05
Elm / ash / cottonwood	13.00	13.00	--	--	--	--	--	--	--	--	45.75	14.42
Tanoak / laurel	75.35	75.35	214.85	214.85	--	--	172.97	21.09	--	--	72.25	7.25
Western oak	71.19	4.25	--	--	352.20	352.20	--	--	21.38	7.15	40.29	3.41
Woodland hardwoods	3.18	3.18	--	--	--	--	--	--	2.13	0.04	13.60	1.75
Other hardwoods	--	--	13.92	13.92	2.41	2.41	--	--	--	--	51.11	5.19
Total	66.53	21.92	110.67	31.28	21.99	15.62	151.08	19.62	16.34	6.20	55.89	2.14
Nonstocked	--	--	--	--	--	--	--	--	2.48	0.45	2.48	0.45
All forest types	112.91	6.80	121.80	11.08	114.53	7.84	168.19	5.53	3.05	0.50	69.67	0.85

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 0.005 bone-dry tons per acre was estimated; the average was calculated using a ratio of means formula across plots within forest type groups.

^a Includes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes. Aboveground biomass of the tree from ground to tip, includes stem wood, bark, and branches; calculated with regional biomass equations.

Table A2-52--Average aboveground biomass per acre of dead trees on forest land, by forest type group and stand age class, Oregon, 2001-2010

Forest type group	Stand age class (years)													
	1-20		21-40		41-60		61-80		81-100		101-120		121-140	
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
	<i>Tons per acre</i>													
Softwoods:														
Douglas-fir	2.31	0.39	2.61	0.22	6.08	0.44	8.20	0.90	9.87	0.94	14.27	1.46	19.39	2.24
Fir / spruce / mtn. hemlock	5.66	1.81	2.06	0.70	4.07	0.95	8.09	1.27	13.82	1.47	17.72	1.96	20.33	2.47
Hemlock / Sitka spruce	5.04	1.41	6.38	1.04	7.12	1.20	17.25	3.11	25.21	7.17	25.58	5.27	26.13	3.90
Lodgepole pine	6.41	1.54	1.34	0.51	4.30	1.03	4.48	0.81	4.03	0.53	5.35	1.12	3.69	1.57
Ponderosa pine	2.69	1.07	0.97	0.34	1.42	0.20	2.37	0.31	2.85	0.39	7.38	1.52	4.93	1.13
Western juniper	0.72	0.38	0.07	0.06	0.26	0.11	0.29	0.10	0.66	0.16	0.38	0.14	0.82	0.41
Western larch	9.65	3.72	0.39	0.27	4.63	3.76	2.88	1.26	5.92	1.86	15.45	6.37	30.32	13.63
Other western softwoods	--	--	--	--	--	--	9.09	8.33	10.21	8.99	8.17	2.10	6.46	0.00
Total	3.17	0.36	2.37	0.17	3.95	0.25	4.53	0.32	6.95	0.45	11.96	0.84	15.29	1.30
Hardwoods:														
Alder / maple	3.37	1.41	4.31	0.62	7.64	1.48	4.78	1.34	8.80	4.23	11.81	6.97	26.99	14.27
Aspen / birch	0.59	0.37	--	--	1.91	0.79	1.48	0.79	4.67	2.97	--	--	--	--
Elm / ash / cottonwood	--	--	1.31	0.28	--	--	3.60	2.40	1.87	1.37	--	--	--	--
Tanoak / laurel	27.98	6.86	4.96	1.55	9.18	2.48	8.55	2.33	10.29	2.07	16.79	4.63	13.95	7.06
Western oak	11.78	5.05	5.34	2.55	4.75	1.21	4.10	0.81	2.28	0.63	6.42	2.62	4.96	1.45
Woodland hardwoods	0.30	0.10	1.40	1.35	0.98	0.36	2.36	0.65	2.41	0.82	10.97	0.00	12.99	12.99
Other hardwoods	1.69	1.21	4.10	1.00	4.92	1.71	5.01	2.50	9.97	4.97	15.19	7.18	6.96	6.96
Total	11.94	2.61	4.26	0.49	6.48	0.83	4.68	0.67	5.33	0.98	11.14	2.72	9.70	2.85
Nonstocked	--	--	--	--	--	--	--	--	--	--	--	--	--	--
All forest types	4.63	0.54	2.65	0.17	4.37	0.25	4.54	0.30	6.80	0.41	11.91	0.81	14.88	1.23

**Table A2-52--Average aboveground biomass per acre of dead trees^a on forest land, by forest type group and stand age class, Oregon, 2001-2010
(Continued)**

Forest type group	Stand age class (years)										All classes	
	141-160		161-180		181-200		201 plus		Unknown			
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
<i>Tons per acre</i>												
Softwoods:												
Douglas-fir	16.25	2.50	21.96	3.18	23.81	4.96	28.27	2.20	0.58	0.70	9.29	0.36
Fir / spruce / mtn. hemlock	17.83	2.23	18.85	2.65	20.44	2.51	21.03	1.69	--	--	14.01	0.61
Hemlock / Sitka spruce	14.52	0.87	37.78	8.45	34.73	12.24	42.63	6.80	--	--	16.99	1.67
Lodgepole pine	6.04	2.87	3.37	3.37	5.21	2.99	--	--	--	--	4.26	0.42
Ponderosa pine	6.81	2.37	6.42	2.27	5.84	2.71	2.85	0.90	--	--	2.97	0.22
Western juniper	0.70	0.38	0.71	0.33	1.00	0.64	1.01	0.36	--	--	0.47	0.06
Western larch	35.03	21.19	--	--	24.49	24.49	8.83	5.63	--	--	11.93	2.94
Other western softwoods	--	--	4.48	4.48	--	--	44.84	0.00	--	--	8.25	3.30
Total	13.51	1.37	15.91	1.69	17.48	2.09	22.90	1.40	0.25	0.29	7.65	0.20
Hardwoods:												
Alder / maple	20.03	11.74	24.90	10.75	26.32	16.81	--	--	--	--	5.98	0.68
Aspen / birch	--	--	--	--	--	--	--	--	--	--	1.70	0.78
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	1.44	0.82
Tanoak / laurel	7.76	7.76	16.88	16.88	--	--	8.08	2.12	--	--	15.21	2.60
Western oak	3.79	0.23	--	--	--	--	--	--	0.99	0.81	4.66	0.64
Woodland hardwoods	--	--	--	--	--	--	--	--	0.17	0.02	2.40	0.60
Other hardwoods	--	--	--	--	17.71	17.71	--	--	--	--	5.49	1.06
Total	8.54	5.26	17.25	7.56	19.60	7.81	5.80	1.88	0.77	0.60	6.95	0.60
Nonstocked	--	--	--	--	--	--	--	--	7.91	1.67	7.91	1.67
All forest types	13.34	1.34	15.98	1.66	17.51	2.07	22.55	1.38	7.59	1.60	7.58	0.18

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 0.005 bone-dry tons per acre was estimated; the average was calculated using a ratio of means formula across plots within forest type groups.

^a Includes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory. Aboveground biomass is estimated from ground to actual height, includes stem wood, bark, and branches; calculated with regional biomass equations.

Table A2-53--Aboveground carbon mass^a of live trees^b on forest land, by forest type group and ownership group, Oregon, 2001-2010

Forest type group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private Noncorporate		All private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand megagrams</i>													
Softwoods:														
Douglas-fir	273,607.2	8,893.4	100,614.4	5,512.5	35,166.8	3,519.4	85,837.5	4,543.7	46,106.3	3,704.0	131,943.7	5,423.7	541,332.1	11,718.9
Fir / spruce / mtn. hemlock	111,011.2	5,558.4	10,512.8	1,811.1	947.0	473.6	5,920.0	877.3	4,691.8	999.2	10,611.8	1,308.1	133,082.8	6,001.8
Hemlock / Sitka spruce	31,141.3	4,028.8	3,886.6	1,305.3	4,816.6	1,534.9	15,932.6	2,425.0	4,309.7	1,241.4	20,242.3	2,693.9	60,086.8	5,256.0
Lodgepole pine	23,082.3	1,614.7	2,072.6	565.8	255.3	170.9	2,336.4	397.0	1,378.3	412.0	3,714.7	559.9	29,124.8	1,812.7
Ponderosa pine	59,919.8	2,607.3	4,602.3	1,090.3	1,195.0	457.5	8,094.5	805.4	9,744.3	1,077.1	17,838.7	1,283.9	83,555.9	3,126.0
Western juniper	2,568.0	378.3	4,470.3	393.2	278.5	92.1	573.7	167.6	3,057.7	302.9	3,631.4	340.8	10,948.2	647.2
Western larch	4,257.9	933.0	--	--	--	--	64.2	46.6	112.0	71.3	176.1	85.1	4,434.1	936.9
Other western softwoods	632.7	246.8	202.6	190.7	--	--	50.5	56.2	18.7	11.8	69.2	57.4	904.5	317.1
Total	506,220.4	8,633.4	126,361.6	5,587.9	42,659.3	3,746.9	118,809.3	5,014.3	69,418.6	4,100.8	188,227.9	5,810.0	863,469.2	11,656.3
Hardwoods:														
Alder / maple	6,245.3	1,207.2	1,127.5	420.3	6,483.8	1,244.2	11,872.0	1,692.4	10,115.4	1,347.1	21,987.4	2,093.7	35,844.0	2,733.1
Aspen / birch	117.8	75.5	69.0	36.5	--	--	48.6	46.8	156.1	121.2	204.7	129.9	391.6	154.6
Elm / ash / cottonwood	--	--	8.3	9.6	207.1	215.8	61.2	42.3	1,278.5	577.7	1,339.7	579.2	1,555.1	618.2
Tanoak / laurel	10,653.1	2,046.3	1,760.6	814.1	--	--	4,596.3	1,223.6	2,732.9	828.8	7,329.2	1,462.5	19,742.9	2,654.0
Western oak	2,414.9	614.1	3,351.1	885.3	623.7	313.8	2,747.7	941.6	5,319.9	867.8	8,067.6	1,271.9	14,457.2	1,695.4
Woodland hardwoods	369.0	123.9	198.8	112.9	--	--	48.7	38.3	409.9	153.6	458.6	158.1	1,026.4	230.4
Other hardwoods	602.1	263.6	3,199.3	938.3	708.4	351.9	2,477.8	833.7	3,003.1	774.1	5,480.9	1,128.8	9,990.8	1,524.2
Total	20,402.0	2,387.5	9,714.7	1,538.3	8,023.0	1,334.4	21,852.4	2,385.5	23,015.7	1,987.3	44,868.1	2,956.0	83,007.9	4,278.3
Nonstocked	471.9	96.6	25.8	16.3	181.6	141.5	124.4	45.6	309.6	125.4	434.0	133.4	1,113.4	217.6
All forest types	527,094.4	8,505.5	136,102.1	5,450.1	50,863.9	3,806.6	140,786.1	5,327.6	92,743.9	4,421.9	233,530.0	5,874.7	947,590.4	11,376.4

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 megagrams was estimated.

^aTotal aboveground carbon mass of the tree from ground to tip, includes stem wood, bark, and branches; calculated by applying a factor of 0.5 to aboveground biomass estimated from regional biomass equations, and converting to metric units. Convert megagrams of carbon to tons of biomass by multiplying by 2.204586. The result will be approximate due to rounding.

^bIncludes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-54--Aboveground carbon mass^a of dead trees^b on forest land, by forest type group and ownership group, Oregon, 2001-2010

Forest type group	Ownership group													
	USDA Forest Service		Other federal		State and local government		Corporate		Private Noncorporate		All private		All owners	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
	Thousand megagrams													
Softwoods:														
Douglas-fir	30,126.5	1,661.6	7,503.3	744.9	2,383.0	335.4	3,751.6	341.9	1,973.2	259.5	5,724.8	418.7	45,737.6	1,883.3
Fir / spruce / mtn. hemlock	21,160.5	1,245.2	1,163.2	253.0	49.7	38.6	388.8	82.1	628.6	205.0	1,017.5	219.2	23,390.9	1,289.6
Hemlock / Sitka spruce	4,970.5	797.4	606.2	225.3	390.7	150.4	941.2	182.3	279.6	112.4	1,220.8	213.0	7,188.2	868.4
Lodgepole pine	3,511.8	413.0	237.5	108.0	1.1	1.1	95.4	38.2	66.8	24.7	162.2	45.4	3,912.7	429.3
Ponderosa pine	5,691.5	518.1	305.9	112.6	33.1	24.5	365.8	83.5	561.3	111.6	927.2	137.9	6,957.5	548.1
Western juniper	170.8	50.3	314.7	56.9	--	--	2.6	1.6	99.1	29.1	101.6	29.1	587.1	81.3
Western larch	1,051.8	319.7	--	--	--	--	14.0	10.5	--	--	14.0	10.5	1,065.8	319.9
Other western softwoods	332.5	161.2	22.2	20.9	--	--	--	--	--	--	--	--	354.7	162.5
Total	67,016.0	2,068.1	10,153.0	797.9	2,857.6	361.9	5,559.3	396.6	3,608.7	359.7	9,168.0	516.3	89,194.6	2,287.7
Hardwoods:														
Alder / maple	962.8	268.1	57.2	28.8	804.9	242.2	776.9	150.0	545.2	127.8	1,322.1	194.3	3,147.0	411.0
Aspen / birch	11.4	7.9	3.0	3.1	--	--	--	--	22.3	17.7	22.3	17.7	36.7	19.6
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	49.1	31.5	49.1	31.5	49.1	31.5
Tanoak / laurel	3,424.3	787.1	187.3	103.3	--	--	386.9	128.5	158.6	60.4	545.5	141.2	4,157.1	806.1
Western oak	533.4	196.4	452.7	134.3	15.9	10.5	230.2	70.0	441.3	102.4	671.5	123.3	1,673.6	268.2
Woodland hardwoods	51.2	29.5	32.2	18.2	--	--	9.2	7.1	88.8	43.9	98.0	44.4	181.4	56.4
Other hardwoods	333.8	171.7	280.1	128.5	84.4	65.1	120.9	48.7	253.1	76.0	374.0	89.9	1,072.2	240.7
Total	5,316.9	865.3	1,012.6	214.6	905.2	251.0	1,524.0	212.9	1,558.4	196.1	3,082.3	281.9	10,317.0	966.8
Nonstocked	3,229.4	787.0	112.3	85.7	79.7	59.6	82.6	29.6	45.2	19.6	127.8	35.5	3,549.3	794.7
All forest types	75,562.4	2,276.1	11,277.9	814.5	3,842.5	420.5	7,165.9	441.9	5,212.2	405.6	12,378.1	568.2	103,060.9	2,497.4

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 megagrams was estimated.

^aTotal aboveground carbon mass of the tree from ground to tip, includes stem wood, bark, and branches; calculated by applying a factor of 0.5 to aboveground biomass estimated from regional biomass equations, and converting to metric units. Convert megagrams of carbon to tons of biomass by multiplying by 2.204586. The result will be approximate due to rounding.

^bIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-55--Aboveground carbon mass^a of live trees^b on forest land, by forest type group and stand size class, Oregon, 2001-2010

Forest type group	Stand size class						All classes	
	Large-diameter stands		Medium-diameter stands		Small-diameter stands			
	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand megagrams</i>								
Softwoods:								
Douglas-fir	517,999.5	11,839.8	17,972.3	1,511.8	5,360.4	576.1	541,332.1	11,718.9
Fir / spruce / mtn. hemlock	127,912.3	5,976.8	2,869.8	598.5	2,300.6	358.3	133,082.8	6,001.8
Hemlock / Sitka spruce	58,918.9	5,238.7	811.5	308.7	356.3	138.2	60,086.8	5,256.0
Lodgepole pine	14,000.9	1,398.8	8,165.1	1,005.3	6,958.9	727.3	29,124.8	1,812.7
Ponderosa pine	79,001.5	3,116.9	2,164.0	347.5	2,390.3	355.0	83,555.9	3,126.0
Western juniper	9,734.7	638.7	526.3	111.4	687.2	97.9	10,948.2	647.2
Western larch	3,900.9	919.7	171.2	144.1	362.0	120.4	4,434.1	936.9
Other western softwoods	683.3	302.8	104.9	64.3	116.3	67.0	904.5	317.1
Total	812,152.0	11,953.4	32,785.2	1,962.4	18,532.0	1,058.2	863,469.2	11,656.3
Hardwoods:								
Alder / maple	28,949.0	2,610.2	6,209.7	918.3	685.3	193.1	35,844.0	2,733.1
Aspen / birch	110.1	111.1	143.1	80.8	138.4	71.0	391.6	154.6
Elm / ash / cottonwood	1,348.6	608.9	116.6	95.7	89.9	47.8	1,555.1	618.2
Tanoak / laurel	14,163.3	2,426.0	4,862.2	1,128.6	717.4	229.9	19,742.9	2,654.0
Western oak	9,228.9	1,557.2	4,300.6	669.1	927.6	226.7	14,457.2	1,695.4
Woodland hardwoods	888.4	220.6	23.9	18.9	114.0	63.9	1,026.4	230.4
Other hardwoods	4,736.7	1,099.9	4,438.4	1,059.5	815.7	212.0	9,990.8	1,524.2
Total	59,425.0	3,984.0	20,094.5	1,888.5	3,488.4	442.9	83,007.9	4,278.3
Nonstocked	--	--	--	--	--	--	1,113.4	217.6
All forest types	871,577.0	11,902.8	52,879.6	2,667.2	22,020.4	1,138.8	947,590.4	11,376.4

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 megagrams was estimated.

^aTotal aboveground carbon mass of the tree from ground to tip, includes stem wood, bark, and branches; calculated by applying a factor of 0.5 to aboveground biomass estimated from regional biomass equations, and converting to metric units. Convert megagrams of carbon to tons of biomass by multiplying by 2.204586. The result will be approximate due to rounding.

^bIncludes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-56--Aboveground carbon mass^a of dead trees^b on forest land, by forest type group and stand size class, Oregon, 2001-2010

Forest type group	Stand size class						All classes	
	Large-diameter stands		Medium-diameter stands		Small-diameter stands			
	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand megagrams</i>								
Softwoods:								
Douglas-fir	42,241.3	1,774.8	961.4	182.6	2,535.0	675.7	45,737.6	1,883.3
Fir / spruce / mtn. hemlock	21,651.7	1,240.7	274.1	80.1	1,465.1	372.2	23,390.9	1,289.6
Hemlock / Sitka spruce	6,983.3	863.6	67.3	42.1	137.6	59.0	7,188.2	868.4
Lodgepole pine	1,439.6	225.8	976.0	191.9	1,497.1	313.7	3,912.7	429.3
Ponderosa pine	6,139.1	513.7	164.7	49.3	653.8	190.3	6,957.5	548.1
Western juniper	486.9	75.5	47.1	21.6	53.2	21.8	587.1	81.3
Western larch	867.0	306.7	20.6	19.8	178.1	90.7	1,065.8	319.9
Other western softwoods	313.3	159.4	--	--	41.4	33.1	354.7	162.5
Total	80,122.2	2,182.3	2,511.0	284.6	6,561.3	859.0	89,194.6	2,287.7
Hardwoods:								
Alder / maple	2,414.9	359.5	447.6	110.9	284.5	170.5	3,147.0	411.0
Aspen / birch	16.4	16.6	12.5	9.3	7.8	4.8	36.7	19.6
Elm / ash / cottonwood	45.6	31.3	--	--	3.5	3.1	49.1	31.5
Tanoak / laurel	1,046.6	214.8	385.2	115.2	2,725.3	762.5	4,157.1	806.1
Western oak	550.9	119.9	665.1	157.0	457.5	183.8	1,673.6	268.2
Woodland hardwoods	131.7	47.5	8.2	6.9	41.5	29.6	181.4	56.4
Other hardwoods	365.8	139.8	294.2	86.9	412.3	176.5	1,072.2	240.7
Total	4,572.0	456.8	1,812.8	238.8	3,932.3	820.3	10,317.0	966.8
Nonstocked	--	--	--	--	--	--	3,549.3	794.7
All forest types	84,694.2	2,201.0	4,323.8	370.2	10,493.6	1,178.8	103,060.9	2,497.4

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 megagrams was estimated.

^aTotal aboveground carbon mass of the tree from ground to tip, includes stem wood, bark, and branches; calculated by applying a factor of 0.5 to aboveground biomass estimated from regional biomass equations, and converting to metric units. Convert megagrams of carbon to tons of biomass by multiplying by 2.204586. The result will be approximate due to rounding.

^bIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-57--Aboveground carbon mass^a of live trees^b on forest land, by species group and diameter class, Oregon, 2001-2010

Species group	Diameter class (inches)													
	1.0-2.9		3.0-4.9		5.0-6.9		7.0-8.9		9.0-10.9		11.0-12.9		13.0-14.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand megagrams</i>														
Softwoods:														
Douglas-fir	2,197.1	145.6	3,931.2	220.7	9,762.8	327.0	17,607.0	581.6	24,817.6	801.8	29,140.5	987.6	30,629.6	1,035.5
Engelmann and other spruces	344.0	62.7	136.7	38.2	161.5	22.0	174.5	27.8	269.0	44.0	378.3	60.0	388.4	74.3
Incense-cedar	69.4	9.9	189.0	35.4	282.6	27.6	291.2	33.7	384.4	47.6	365.1	47.8	513.3	74.5
Lodgepole pine	5,493.7	468.9	2,882.5	235.2	3,842.7	255.2	4,511.2	273.1	4,320.6	265.5	3,173.4	223.2	2,076.4	185.5
Ponderosa and Jeffrey pines	532.4	38.0	1,362.5	106.8	2,338.5	113.9	3,573.3	152.9	5,228.9	216.1	5,760.4	263.7	6,970.1	339.3
Sitka spruce	48.3	14.4	48.4	21.0	99.1	16.6	155.6	36.3	239.0	61.4	374.0	91.8	464.4	105.9
Sugar pine	5.0	1.4	22.7	13.5	40.4	11.1	66.0	14.5	81.0	23.8	65.3	22.2	96.3	28.5
True fir	4,046.4	252.5	3,104.1	192.7	4,171.4	182.4	5,453.1	240.8	6,503.9	293.6	7,676.8	362.0	7,882.1	389.8
Western hemlock	328.6	40.9	865.6	87.7	1,865.2	112.8	3,285.7	201.7	4,337.3	290.4	5,904.9	423.2	6,748.4	492.0
Western juniper	123.2	14.6	375.2	48.8	672.6	42.5	985.4	61.8	1,162.7	81.5	1,087.4	80.0	1,030.1	84.0
Western larch	407.1	112.1	234.8	52.8	176.8	33.8	326.9	49.2	464.0	67.2	600.5	80.6	613.9	103.9
Western redcedar	181.4	24.8	182.8	35.5	279.5	29.9	369.3	41.1	420.9	52.5	599.8	77.3	575.0	84.9
Other western softwoods	650.1	61.7	637.7	78.6	1,005.8	77.0	1,345.8	112.3	1,801.1	164.9	2,415.8	228.6	2,369.7	236.1
Total	14,426.7	596.2	13,973.2	434.2	24,698.9	493.4	38,145.1	741.0	50,030.4	974.1	57,542.3	1,192.7	60,357.9	1,282.3
Hardwoods:														
Cottonwood and aspen	33.2	12.6	54.8	28.3	37.7	12.0	35.9	16.3	74.8	28.8	75.3	38.4	85.6	40.4
Oak	276.1	41.6	1,049.3	142.0	1,631.9	143.7	1,658.0	153.4	1,330.0	156.3	1,146.4	138.4	1,059.1	153.9
Red alder	196.5	25.8	600.5	79.6	1,450.6	112.1	2,396.8	178.0	3,218.9	235.1	3,659.0	294.7	3,680.3	312.8
Woodland hardwoods	47.4	15.6	61.4	15.0	91.7	13.1	146.4	21.1	126.8	24.4	111.6	22.2	85.1	23.0
Other western hardwoods	964.2	82.8	2,540.7	221.3	4,282.7	225.8	5,544.6	331.1	5,546.7	368.1	4,750.6	363.1	3,972.0	297.1
Total	1,517.5	99.6	4,306.7	279.9	7,494.5	296.0	9,781.6	409.5	10,297.2	462.2	9,742.8	486.1	8,882.0	463.9
All species groups	15,944.2	603.9	18,279.9	516.1	32,193.4	582.7	47,926.8	845.8	60,327.6	1,061.8	67,285.1	1,266.3	69,239.9	1,353.8

Table A2-57--Aboveground carbon mass^a of live trees^b on forest land, by species group and diameter class, Oregon, 2001-2010 (Continued)

Species group	Diameter class (inches)													
	15.0-16.9		17.0-18.9		19.0-20.9		21.0-22.9		23.0-24.9		25.0-26.9		27.0-28.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand megagrams</i>														
Softwoods:														
Douglas-fir	32,336.0	1,132.7	30,494.4	1,178.0	29,731.8	1,213.6	26,199.7	1,218.5	24,548.6	1,325.7	23,593.9	1,313.7	19,351.0	1,298.9
Engelmann and other spruces	548.0	104.2	432.9	83.2	334.9	84.7	515.4	136.1	305.0	88.8	194.1	39.8	123.0	30.8
Incense-cedar	362.6	70.1	340.6	70.2	457.0	93.7	366.9	85.1	238.5	83.9	264.5	90.9	510.6	141.9
Lodgepole pine	1,199.5	137.7	873.9	127.9	401.9	91.7	302.5	86.5	115.2	47.4	27.6	12.7	21.0	10.5
Ponderosa and Jeffrey pines	6,013.1	315.8	5,664.2	339.9	5,145.8	352.2	4,377.8	363.0	4,492.1	314.6	3,705.1	218.1	3,847.4	244.6
Sitka spruce	507.5	140.3	791.3	249.2	458.2	134.3	889.8	240.4	521.9	171.3	588.7	290.8	534.0	203.5
Sugar pine	179.3	60.9	143.9	47.4	224.8	75.1	71.1	46.1	435.4	125.5	306.9	111.0	384.4	150.6
True fir	7,514.1	411.6	8,042.0	495.8	7,203.9	511.2	6,735.1	553.9	6,284.0	510.8	5,115.7	456.0	4,586.0	473.8
Western hemlock	7,221.7	542.3	6,209.4	540.8	5,656.1	508.8	5,246.2	533.9	4,961.0	547.3	4,390.5	504.4	3,581.3	522.4
Western juniper	931.1	90.7	843.0	96.2	594.6	81.9	388.1	71.4	434.0	73.9	257.1	33.4	213.5	29.1
Western larch	856.4	124.7	742.1	140.5	844.2	166.1	442.6	127.7	539.8	135.3	338.0	67.5	229.6	45.9
Western redcedar	677.4	93.6	695.4	107.0	674.4	148.1	653.7	128.8	786.0	170.5	996.9	210.0	696.4	176.7
Other western softwoods	2,772.2	314.1	2,960.6	333.3	2,989.1	379.7	2,503.1	343.4	2,637.6	379.3	1,574.6	240.8	1,435.7	244.4
Total	61,118.9	1,410.6	58,233.7	1,506.2	54,716.8	1,518.2	48,692.1	1,552.9	46,299.1	1,612.3	41,353.6	1,546.2	35,513.8	1,551.9
Hardwoods:														
Cottonwood and aspen	63.4	35.9	83.3	38.3	104.9	49.3	88.6	53.1	41.8	32.9	5.4	4.8	170.1	93.8
Oak	1,107.9	174.6	822.8	228.3	652.3	143.6	654.9	236.2	149.1	77.9	708.5	238.1	157.4	107.0
Red alder	3,016.8	293.8	1,919.6	228.9	1,898.7	263.0	690.5	152.6	873.6	220.2	725.2	188.4	249.9	110.9
Woodland hardwoods	68.4	19.1	35.4	13.6	19.2	11.6	26.7	14.1	11.9	12.6	--	--	--	--
Other western hardwoods	3,256.0	329.5	2,661.9	299.5	1,314.2	204.5	2,187.8	328.6	1,058.8	226.3	1,063.0	239.6	859.2	213.2
Total	7,512.4	481.2	5,522.9	444.0	3,989.2	367.8	3,648.6	439.5	2,135.1	332.6	2,502.1	390.2	1,436.5	278.1
All species groups	68,631.3	1,470.8	63,756.6	1,574.9	58,706.0	1,574.2	52,340.7	1,604.4	48,434.2	1,638.7	43,855.7	1,592.0	36,950.3	1,576.0

Table A2-57--Aboveground carbon mass^a of live trees^b on forest land, by species group and diameter class, Oregon, 2001-2010 (Continued)

Species group	Diameter class (inches)													
	29.0-30.9		31.0-32.9		33.0-34.9		35.0-36.9		37.0-38.9		39.0-40.9		41.0-42.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand megagrams</i>														
Softwoods:														
Douglas-fir	18,014.1	1,016.3	16,113.0	801.7	16,181.9	795.4	15,434.9	796.6	14,509.3	753.0	12,359.5	690.3	11,634.6	725.4
Engelmann and other spruces	135.6	40.1	131.5	44.1	99.6	33.4	108.3	50.1	71.7	33.1	29.7	21.6	31.0	21.8
Incense-cedar	234.4	88.9	289.9	53.6	283.2	57.3	268.9	61.3	311.2	74.7	280.0	65.4	327.1	81.9
Lodgepole pine	30.8	15.8	5.9	5.9	--	--	7.1	6.8	4.3	4.3	--	--	--	--
Ponderosa and Jeffrey pines	3,588.1	225.4	3,011.7	215.8	2,705.4	203.2	1,926.7	182.2	1,380.9	157.2	970.3	131.7	697.1	123.1
Sitka spruce	356.6	146.9	224.3	64.9	256.8	73.5	137.6	51.7	191.2	68.2	169.1	60.3	290.6	105.3
Sugar pine	416.1	143.0	281.7	81.8	381.2	89.6	408.0	97.4	315.8	86.7	379.2	113.3	431.1	133.8
True fir	4,563.7	441.7	3,239.7	285.8	2,735.4	266.2	2,446.9	281.1	1,989.1	254.3	1,658.0	229.6	1,128.1	196.1
Western hemlock	2,494.1	369.5	2,177.8	244.2	1,669.6	248.9	1,257.8	183.3	1,072.9	190.1	651.8	122.8	825.1	167.3
Western juniper	165.4	26.4	117.1	23.8	121.7	25.8	70.8	20.9	37.3	13.2	12.8	8.9	4.5	4.7
Western larch	245.2	57.7	224.2	65.1	89.9	41.7	92.6	40.4	31.1	22.6	54.6	32.1	--	--
Western redcedar	695.6	143.1	667.2	105.0	599.8	105.2	524.8	103.7	607.9	104.1	454.4	88.6	558.5	112.3
Other western softwoods	1,361.7	240.3	739.6	112.6	686.5	123.3	439.7	112.1	387.4	93.0	308.5	100.1	190.6	81.2
Total	32,301.6	1,280.0	27,223.5	941.6	25,811.0	923.0	23,124.0	919.9	20,910.2	870.5	17,327.9	783.3	16,118.3	838.2
Hardwoods:														
Cottonwood and aspen	68.8	64.8	45.1	25.8	70.8	40.7	--	--	13.5	14.2	39.3	33.9	27.6	21.0
Oak	178.9	103.7	144.6	44.4	32.1	23.9	31.8	23.3	65.8	40.2	49.3	32.7	23.9	22.5
Red alder	218.2	97.6	54.7	24.6	49.6	25.0	43.5	25.4	--	--	--	--	--	--
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western hardwoods	488.1	152.5	461.0	93.0	127.4	48.6	321.2	72.8	249.2	72.5	178.1	68.1	232.8	79.6
Total	954.0	218.6	705.5	113.7	280.0	72.0	396.5	80.3	328.5	84.1	266.7	82.8	284.3	85.3
All species groups	33,255.5	1,296.5	27,929.0	948.9	26,091.0	926.9	23,520.5	923.5	21,238.7	875.2	17,594.7	787.3	16,402.6	841.4

Table A2-57--Aboveground carbon mass^a of live trees^b on forest land, by species group and diameter class, Oregon, 2001-2010 (Continued)

Species group	Diameter class (inches)								All classes	
	43.0-44.9		45.0-46.9		47.0-48.9		49.0 +			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand megagrams</i>										
Softwoods:										
Douglas-fir	10,716.0	676.4	9,302.9	667.2	9,991.2	706.5	48,011.7	3,147.0	486,610.4	9,413.1
Engelmann and other spruces	--	--	--	--	22.2	22.0	--	--	4,935.2	526.1
Incense-cedar	265.7	74.9	299.9	94.7	204.6	72.5	1,404.9	348.4	8,805.6	813.3
Lodgepole pine	--	--	--	--	--	--	68.6	50.9	29,358.8	1,417.3
Ponderosa and Jeffrey pines	366.8	86.5	309.7	87.7	140.7	58.2	593.1	213.5	74,701.9	2,118.2
Sitka spruce	283.9	109.5	177.7	66.2	186.8	105.3	1,082.8	545.1	9,077.7	1,814.7
Sugar pine	382.3	118.5	376.4	125.0	664.8	185.4	2,299.2	512.4	8,458.1	952.5
True fir	1,063.9	183.0	745.1	174.0	507.5	128.0	1,310.6	290.9	105,706.7	3,992.9
Western hemlock	641.8	142.3	467.5	161.5	383.4	122.0	772.0	176.3	73,016.1	3,514.4
Western juniper	13.5	9.7	27.6	16.6	5.8	5.8	6.3	6.6	9,680.6	500.8
Western larch	--	--	--	--	26.5	26.3	28.5	28.3	7,609.5	682.8
Western redcedar	337.9	109.3	401.1	91.4	216.7	82.8	1,812.4	385.9	14,665.3	1,250.7
Other western softwoods	97.6	59.8	87.0	59.6	274.5	138.6	679.6	241.8	32,351.7	2,489.2
Total	14,169.5	766.7	12,195.0	753.4	12,624.5	776.3	58,069.6	3,428.8	864,977.7	11,028.0
Hardwoods:										
Cottonwood and aspen	38.9	40.6	44.1	46.0	--	--	32.5	30.8	1,335.4	274.3
Oak	--	--	--	--	--	--	73.6	53.1	13,003.6	1,137.9
Red alder	--	--	--	--	--	--	165.4	100.2	25,108.2	1,377.0
Woodland hardwoods	--	--	--	--	5.0	5.2	--	--	836.8	130.2
Other western hardwoods	77.2	43.5	112.6	54.6	--	--	78.7	53.6	42,328.8	2,109.1
Total	116.1	59.5	156.7	71.4	5.0	5.2	350.1	128.7	82,612.8	2,817.5
All species groups	14,285.6	768.9	12,351.7	756.1	12,629.5	776.4	58,419.7	3,431.2	947,590.4	11,376.4

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 megagrams was estimated.

^aTotal aboveground carbon mass of the tree from ground to tip, includes stem wood, bark, and branches; calculated by applying a factor of 0.5 to aboveground biomass estimated from regional biomass equations, and converting to metric units. Convert megagrams of carbon to tons of biomass by multiplying by 2.204586. The result will be approximate due to rounding.

^bIncludes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-58--Aboveground carbon mass^a of dead trees^b on forest land, by species group and diameter class, Oregon, 2001-2010

Species group	Diameter class (inches)															
	5.0-6.9		7.0-8.9		9.0-10.9		11.0-12.9		13.0-14.9		15.0-16.9		17.0-18.9		19.0-20.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand megagrams</i>																
Softwoods:																
Douglas-fir	1,607.0	79.8	2,046.7	112.7	2,163.7	137.6	1,812.9	123.4	1,790.1	139.2	1,850.1	161.7	1,922.3	187.3	2,032.3	204.6
Engelmann and other spruces	42.6	10.4	40.3	15.4	51.0	17.2	45.2	17.1	47.5	18.8	82.1	29.1	30.4	19.2	75.2	33.2
Incense-cedar	35.9	10.0	24.7	6.9	40.0	11.2	30.5	10.1	18.0	10.0	12.8	9.2	41.1	22.0	55.7	38.2
Lodgepole pine	712.1	61.1	919.3	80.5	1,106.4	111.6	833.3	133.0	616.9	96.1	318.2	73.3	170.7	50.8	52.6	27.5
Ponderosa and Jeffrey pines	236.0	26.6	236.5	25.4	277.2	37.4	349.4	57.0	315.8	49.3	298.8	69.5	223.9	48.4	325.6	77.5
Sitka spruce	37.6	11.9	32.8	10.2	78.6	38.9	55.9	25.6	43.4	19.6	25.8	17.5	--	--	18.2	13.1
Sugar pine	7.3	2.6	19.6	7.1	26.7	9.7	14.0	9.0	24.2	14.0	41.2	20.7	81.5	40.9	63.1	32.7
True fir	866.2	68.2	1,107.9	88.1	1,226.9	96.9	1,333.8	104.2	1,500.4	140.5	1,342.7	146.0	1,541.8	163.7	1,158.2	154.7
Western hemlock	232.7	36.1	258.3	44.8	295.0	41.7	267.3	45.9	143.0	34.3	240.9	61.7	233.8	58.9	255.3	73.3
Western juniper	28.6	4.7	45.9	8.9	51.9	15.3	30.5	9.4	56.0	16.2	53.9	20.4	28.2	14.7	29.1	17.6
Western larch	51.4	10.1	118.7	27.7	154.7	35.6	187.1	45.4	121.6	34.8	193.9	54.4	248.7	65.9	131.0	53.7
Western redcedar	14.1	3.7	19.9	5.4	19.1	6.5	20.1	10.1	22.4	15.5	27.4	13.1	30.4	19.1	45.6	22.5
Other western softwoods	229.9	26.2	331.9	41.6	426.2	57.0	517.6	66.8	570.9	84.7	623.6	105.8	628.0	113.0	659.6	123.4
Total	4,101.3	141.7	5,202.6	187.0	5,917.6	232.5	5,497.6	241.8	5,270.3	253.2	5,111.3	280.8	5,180.8	307.0	4,901.5	316.5
Hardwoods:																
Cottonwood and aspen	15.8	5.8	13.7	8.1	18.1	9.8	21.1	11.1	6.9	6.9	3.2	3.2	--	--	--	--
Oak	190.4	35.2	157.1	43.5	158.8	44.6	149.1	50.3	33.0	16.6	76.9	43.2	87.0	38.0	37.9	20.9
Red alder	142.4	17.7	195.5	25.7	147.0	23.7	173.6	36.4	141.3	40.3	160.4	46.9	59.0	29.2	99.3	40.7
Woodland hardwoods	38.7	6.7	62.2	12.5	47.0	12.0	59.2	14.9	26.4	12.5	27.9	16.7	--	--	--	--
Other western hardwoods	755.6	85.7	684.0	87.2	517.2	79.9	490.3	78.9	280.6	71.8	252.4	62.6	149.7	51.8	135.9	71.6
Total	1,142.9	100.4	1,112.4	104.0	888.1	100.0	893.3	107.3	488.2	85.1	520.8	95.8	295.7	70.4	273.1	84.9
All species groups	5,244.2	176.3	6,315.0	214.9	6,805.6	251.1	6,390.9	263.9	5,758.5	266.6	5,632.1	298.0	5,476.5	315.8	5,174.6	327.7

Table A2-58--Aboveground carbon mass^a of dead trees^b on forest land, by species group and diameter class, Oregon, 2001-2010 (Continued)

Species group	Diameter class (inches)															
	21.0-22.9		23.0-24.9		25.0-26.9		27.0-28.9		29.0-30.9		31.0-32.9		33.0-34.9		35.0-36.9	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand megagrams</i>																
Softwoods:																
Douglas-fir	1,970.0	225.6	1,838.7	220.1	1,928.8	237.8	2,114.6	289.3	1,858.8	222.0	1,481.9	123.9	1,727.1	151.5	1,815.1	166.1
Engelmann and other spruces	85.6	42.2	67.6	36.5	78.4	34.1	82.3	38.8	28.1	12.9	23.7	13.9	31.0	20.2	20.4	14.4
Incense-cedar	53.2	27.6	34.0	26.0	65.6	37.1	8.1	6.0	71.9	36.5	24.0	12.2	44.7	19.5	9.0	9.0
Lodgepole pine	110.2	50.4	37.5	29.4	13.1	6.8	13.5	8.3	--	--	7.1	7.1	6.9	7.1	3.4	3.6
Ponderosa and Jeffrey pines	308.5	76.1	317.7	67.2	300.0	52.5	317.2	48.3	332.4	51.0	283.3	48.7	345.6	54.9	287.8	59.6
Sitka spruce	--	--	6.3	6.4	--	--	--	--	25.8	15.1	4.5	3.2	11.3	10.5	5.1	4.0
Sugar pine	79.0	44.0	157.8	79.4	12.6	9.4	84.1	59.8	70.3	59.5	82.1	36.1	92.8	39.4	104.5	44.1
True fir	1,466.9	201.3	1,055.8	165.7	708.1	116.2	751.4	133.2	770.2	134.4	580.2	79.2	570.0	85.1	457.3	80.0
Western hemlock	152.3	80.8	161.1	67.7	116.7	73.3	249.6	108.4	239.2	91.4	186.2	43.3	151.3	42.9	212.7	65.9
Western juniper	14.2	13.6	23.4	14.7	26.0	9.1	15.1	7.0	10.5	6.3	22.1	10.8	4.4	4.6	--	--
Western larch	115.9	53.6	96.3	42.2	94.7	26.5	70.9	25.8	56.4	25.6	39.3	18.8	37.8	19.6	23.0	16.3
Western redcedar	107.2	46.4	53.8	34.4	11.3	11.6	62.6	63.0	19.7	14.3	63.5	22.1	62.0	22.8	63.4	32.3
Other western softwoods	637.1	130.6	364.4	90.1	345.4	78.2	353.5	108.8	389.1	98.8	229.7	51.0	172.2	38.8	195.6	50.6
Total	5,100.1	370.7	4,214.3	327.8	3,700.7	299.0	4,123.0	382.7	3,872.4	306.8	3,027.5	176.1	3,257.2	203.9	3,197.3	233.1
Hardwoods:																
Cottonwood and aspen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oak	39.5	39.7	104.5	63.5	90.0	61.8	--	--	--	--	--	--	--	--	15.7	16.0
Red alder	32.9	19.7	69.2	45.5	71.8	44.1	111.7	65.4	36.1	32.6	--	--	--	--	--	--
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other western hardwoods	89.0	55.2	40.5	40.6	96.3	58.4	79.3	54.0	17.6	12.6	--	--	11.8	7.1	8.0	7.2
Total	161.4	70.8	214.1	88.0	258.0	95.8	191.0	84.8	53.7	34.9	--	--	11.8	7.1	23.7	17.6
All species groups	5,261.5	376.8	4,428.5	338.8	3,958.6	313.7	4,314.0	391.8	3,926.1	308.7	3,027.5	176.1	3,269.0	204.0	3,221.0	233.8

Table A2-58--Aboveground carbon mass^a of dead trees^b on forest land, by species group and diameter class, Oregon, 2001-2010 (Continued)

Species group	Diameter class (inches)														All classes	
	37.0-38.9		39.0-40.9		41.0-42.9		43.0-44.9		45.0-46.9		47.0-48.9		49.0 +			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand megagrams</i>																
Softwoods:																
Douglas-fir	1,735.0	155.2	1,932.3	201.6	1,382.0	162.4	1,413.0	164.3	1,262.7	158.0	1,187.4	159.3	7,531.5	631.7	46,403.8	1,687.7
Engelmann and other spruces	--	--	--	--	--	--	--	--	12.6	12.7	--	--	--	--	844.1	171.9
Incense-cedar	4.9	4.6	18.9	14.7	--	--	30.9	23.2	17.9	18.0	23.1	22.4	--	--	664.9	106.6
Lodgepole pine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,921.1	447.8
Ponderosa and Jeffrey pines	145.5	42.8	178.8	50.7	57.7	26.7	60.1	33.7	57.5	35.1	155.7	61.5	196.9	79.1	5,608.0	373.8
Sitka spruce	--	--	6.9	3.9	--	--	--	--	9.4	6.6	--	--	281.0	114.4	642.7	164.6
Sugar pine	242.3	79.5	181.5	64.9	245.9	91.8	92.5	54.3	190.9	85.4	167.1	85.6	1,093.5	302.9	3,174.4	535.1
True fir	395.1	79.1	352.1	80.6	299.6	73.7	306.1	84.8	144.6	55.3	327.0	95.8	488.4	120.7	18,750.5	977.8
Western hemlock	140.0	52.4	56.1	30.1	164.0	56.7	103.3	58.2	14.1	8.5	50.4	31.9	465.3	138.8	4,388.7	431.2
Western juniper	--	--	--	--	--	--	--	--	--	--	--	--	--	--	439.9	61.3
Western larch	35.5	25.5	14.3	14.4	--	--	--	--	--	--	--	--	32.8	33.7	1,823.9	220.2
Western redcedar	17.8	10.0	22.2	15.2	27.5	18.2	19.5	9.6	84.7	35.3	20.5	21.0	328.2	148.9	1,162.9	211.2
Other western softwoods	232.4	70.3	99.0	39.3	113.1	53.0	93.0	38.2	56.8	34.5	20.2	20.3	374.3	141.8	7,663.7	663.5
Total	2,948.6	221.8	2,862.2	239.5	2,289.7	216.2	2,118.3	210.1	1,851.4	209.4	1,951.3	224.6	10,791.9	805.3	96,488.7	2,418.2
Hardwoods:																
Cottonwood and aspen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	78.8	26.7
Oak	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,139.8	250.1
Red alder	--	--	--	--	13.3	10.3	--	--	15.7	15.7	--	--	--	--	1,469.2	201.7
Woodland hardwoods	--	--	--	--	--	--	--	--	--	--	--	--	--	--	261.3	45.1
Other western hardwoods	--	--	--	--	--	--	--	--	--	--	14.9	13.9	--	--	3,623.1	369.3
Total	--	--	--	--	13.3	10.3	--	--	15.7	15.7	14.9	13.9	--	--	6,572.2	536.4
All species groups	2,948.6	221.8	2,862.2	239.5	2,303.0	216.4	2,118.3	210.1	1,867.1	209.9	1,966.2	226.0	10,791.9	805.3	103,060.9	2,497.4

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 megagrams was estimated.

^aTotal aboveground carbon mass of the tree from ground to tip, includes stem wood, bark, and branches; calculated by applying a factor of 0.5 to aboveground biomass estimated from regional biomass equations, and converting to metric units. Convert megagrams of carbon to tons of biomass by multiplying by 2.204586. The result will be approximate due to rounding.

^bIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-59--Average aboveground carbon mass^a per hectare of live trees^b on forest land, by forest type group and stand size class, Oregon, 2001-2010

Forest type group	Stand size class						All size classes	
	Large-diameter stands		Medium-diameter stands		Small-diameter stands			
	Mean	SE	Mean	SE	Mean	SE	Mean	SE
<i>Kilograms per hectare</i>								
Softwoods:								
Douglas-fir	154,575.23	2,411.33	40,794.65	1,842.22	8,921.61	809.60	123,240.02	2,131.22
Fir / spruce / mtn. hemlock	101,961.21	2,758.78	38,858.21	5,234.11	14,279.10	1,459.24	89,347.76	2,591.81
Hemlock / Sitka spruce	178,411.70	7,765.98	53,994.19	8,816.39	11,073.10	3,503.99	159,190.73	7,652.57
Lodgepole pine	51,330.91	2,369.94	41,278.33	2,526.07	19,947.37	1,344.64	35,543.03	1,343.23
Ponderosa pine	45,013.75	1,143.36	17,892.23	1,675.45	11,065.08	1,227.86	39,940.23	1,032.82
Western juniper	12,423.66	541.30	5,234.86	811.83	2,915.04	296.64	9,776.51	430.38
Western larch	77,420.46	8,609.01	53,664.80	7,041.00	13,838.25	2,330.29	55,611.35	7,421.92
Other western softwoods	30,830.46	9,131.93	20,813.29	10,371.10	10,441.43	3,707.73	23,590.21	5,971.10
Total	103,858.47	1,299.69	34,259.64	1,269.74	11,354.99	518.02	82,955.55	1,061.62
Hardwoods:								
Alder / maple	98,599.84	3,852.56	51,530.60	3,766.07	12,308.04	2,811.96	76,298.22	3,358.24
Aspen / birch	93,316.71	93,316.71	23,634.41	2,426.20	11,479.51	3,177.83	20,300.00	5,659.99
Elm / ash / cottonwood	79,017.24	25,243.33	43,901.41	10,531.56	8,482.52	2,260.04	51,282.79	16,161.14
Tanoak / laurel	162,847.52	12,341.72	94,856.82	9,135.43	6,795.39	1,922.99	80,980.38	8,128.92
Western oak	80,595.13	7,592.23	32,755.93	2,888.78	12,484.69	2,242.44	45,163.88	3,821.77
Woodland hardwoods	18,974.85	2,318.93	4,361.97	3,432.38	7,580.33	2,701.09	15,240.17	1,960.55
Other hardwoods	91,053.89	9,255.99	78,482.87	9,535.42	12,392.79	2,240.91	57,288.40	5,817.46
Total	97,072.35	3,689.24	53,756.63	3,098.44	10,288.12	1,032.20	62,645.33	2,395.97
Nonstocked	--	--	--	--	--	--	2,781.08	504.51
All forest types	103,365.79	1,226.21	39,736.24	1,304.30	11,171.47	464.59	78,092.55	951.50

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 0.005 kilograms per hectare was estimated; the average was calculated using a ratio of means formula across plots within forest type groups.

^aTotal aboveground carbon mass of the tree from ground to tip, includes stem wood, bark, and branches; calculated by applying a factor of 0.5 to aboveground biomass estimated from regional biomass equations, and converting to metric units. Convert kilograms per hectare of carbon to tons per acre of biomass by multiplying by .00089. The result will be approximate due to rounding.

^bIncludes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-60--Average aboveground carbon mass^a per hectare of dead trees^b on forest land, by forest type group and stand size class, Oregon, 2001-2010

Forest type group	Stand size class						All size classes	
	Large-diameter stands		Medium-diameter stands		Small-diameter stands			
	Mean	SE	Mean	SE	Mean	SE	Mean	SE
<i>Kilograms per hectare</i>								
Softwoods:								
Douglas-fir	12,605.15	488.18	2,182.16	384.24	4,219.08	1,094.76	10,412.66	404.43
Fir / spruce / mountain hemlock	17,258.94	743.11	3,711.69	904.09	9,093.52	2,054.43	15,703.97	679.87
Hemlock / Sitka spruce	21,146.00	2,078.91	4,474.98	2,417.31	4,276.51	1,564.02	19,043.93	1,870.14
Lodgepole pine	5,277.99	688.32	4,933.91	809.87	4,291.42	829.81	4,774.91	466.01
Ponderosa pine	3,497.93	273.25	1,361.33	368.92	3,026.76	827.66	3,325.75	245.77
Western juniper	621.35	91.29	468.58	202.26	225.48	89.55	524.30	69.51
Western larch	17,208.27	4,818.71	6,452.60	1,693.14	6,809.75	2,818.97	13,366.60	3,300.68
Other western softwoods	14,138.36	6,014.92	--	--	3,714.17	2,305.75	9,251.18	3,694.68
Total	10,246.07	272.36	2,623.97	270.37	4,020.27	506.44	8,569.14	218.94
Hardwoods:								
Alder / maple	8,225.21	1,013.00	3,714.18	779.45	5,108.45	2,874.64	6,698.67	759.12
Aspen / birch	13,920.69	13,920.69	2,064.78	623.69	647.08	292.13	1,903.88	872.47
Elm / ash / cottonwood	2,672.79	1,498.40	--	--	326.45	233.44	1,618.47	914.02
Tanoak / laurel	12,033.40	1,667.82	7,515.54	1,715.64	25,815.84	6,204.56	17,051.47	2,911.01
Western oak	4,811.24	805.70	5,065.93	964.55	6,157.41	2,237.75	5,228.17	715.11
Woodland hardwoods	2,813.24	811.72	1,489.29	654.40	2,757.66	1,549.38	2,692.98	667.19
Other hardwoods	7,031.41	2,269.01	5,201.51	1,094.41	6,263.82	2,422.10	6,148.30	1,192.72
Total	7,468.44	616.99	4,849.49	518.30	11,597.36	2,238.03	7,786.17	667.05
Nonstocked	--	--	--	--	--	--	8,865.81	1,871.13
All forest types	10,044.41	255.85	3,249.11	247.14	5,323.66	573.37	8,493.42	207.13

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 0.005 kilograms per hectare was estimated; the average was calculated using a ratio of means formula across plots within forest type groups.

^aTotal aboveground carbon mass of the tree from ground to tip, includes stem wood, bark, and branches; calculated by applying a factor of 0.5 to aboveground biomass estimated from regional biomass equations, and converting to metric units. Convert kilograms per hectare of carbon to tons per acre of biomass by multiplying by .00089. The result will be approximate due to rounding.

^bIncludes all dead trees >= 5 inches in diameter at breast height; smaller dead trees were not measured in this inventory.

Table A2-61--Biomass of down wood on forest land, by forest type group and down wood diameter class, Oregon, 2001-2010

Forest type group	Down wood diameter class (inches)													
	Fine-wood size class ^a						Coarse-wood size class ^b						All down wood	
	0.1 - .24		0.25 - 0.9		1.0 - 2.9		3.0 - 9.0		10.0 - 19.0		≥ 20.0			
Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	
<i>Thousand tons</i>														
Softwoods:														
Douglas-fir	1,456.2	36.8	8,103.7	205.4	25,147.6	845.5	19,680.1	547.5	38,716.0	1,054.4	77,635.1	2,897.9	170,738.6	4,159.2
Fir / spruce / mtn. hemlock	316.7	15.4	2,360.5	110.1	7,673.0	364.7	10,415.5	549.4	20,706.0	1,055.5	18,387.6	1,289.5	59,859.4	2,675.2
Hemlock / Sitka spruce	124.5	12.5	845.2	138.5	1,990.2	222.6	2,409.3	245.2	6,118.3	564.6	15,531.6	2,033.1	27,019.0	2,709.4
Lodgepole pine	107.8	7.2	1,097.6	72.3	4,091.0	276.4	9,453.1	692.6	7,969.7	660.3	1,974.6	254.1	24,693.8	1,545.5
Ponderosa pine	129.1	6.1	1,895.8	76.0	6,653.2	280.9	7,631.8	339.8	9,034.4	473.3	9,207.6	691.2	34,551.8	1,420.0
Western juniper	45.0	3.2	470.2	35.6	1,601.0	438.9	471.1	59.1	939.4	124.1	735.6	181.6	4,262.4	592.3
Western larch	11.1	2.8	124.3	26.9	454.7	96.6	1,008.3	212.1	1,225.2	282.3	305.2	99.2	3,128.8	622.2
Other western softwoods	2.3	1.1	22.3	6.4	55.6	18.1	69.1	22.5	157.9	69.9	405.2	265.6	712.3	343.9
Total	2,192.6	38.6	14,919.5	259.3	47,666.3	1,026.3	51,138.3	998.5	84,866.9	1,561.7	124,182.4	3,608.0	324,966.0	5,104.4
Hardwoods:														
Alder / maple	91.6	8.0	800.3	75.6	2,048.4	188.0	1,522.6	139.8	3,154.6	310.6	8,257.4	1,117.5	15,874.8	1,502.6
Aspen / birch	1.2	0.5	17.3	6.7	70.9	32.1	83.7	32.6	97.9	44.5	24.6	17.6	295.6	111.1
Elm / ash / cottonwood	7.0	2.8	60.9	32.2	61.5	29.3	41.9	15.6	61.9	27.0	7.4	7.4	240.6	81.3
Tanoak / laurel	78.9	10.3	532.6	100.9	1,419.8	202.8	1,113.4	175.3	1,580.0	238.3	2,903.0	626.2	7,627.7	1,044.2
Western oak	49.2	6.2	340.7	42.0	1,155.3	179.2	698.4	85.1	1,016.2	153.1	881.6	200.2	4,141.3	508.4
Woodland hardwoods	7.2	1.8	68.3	16.4	222.9	54.8	129.3	38.0	268.3	113.8	199.6	95.6	895.5	222.6
Other hardwoods	36.2	6.1	246.3	35.4	852.1	149.1	739.6	143.1	792.1	127.5	985.0	262.1	3,651.4	568.2
Total	271.4	15.4	2,066.3	139.3	5,830.8	356.4	4,328.8	284.7	6,971.0	446.2	13,258.5	1,316.0	32,726.8	1,970.7
Nonstocked	64.5	12.2	761.6	252.1	2,431.5	346.4	1,863.2	210.0	2,601.5	324.5	2,196.2	378.8	9,918.4	1,131.4
All forest types	2,528.5	39.7	17,747.4	365.2	55,928.5	1,069.7	57,330.2	1,015.8	94,439.5	1,583.9	139,637.1	3,751.3	367,611.2	5,154.8

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; for details on DWM biomass calculation see FIA Methods and Design Supplement.

^aThe diameter of each piece was visually estimated before being counted within each size class. Counts were used as input to volume equations for fine-wood.

^bDiameter classes are based on the diameter at the large end of the piece for decay classes less than 5, and based on the transect diameter for decay class 5 pieces. The diameter of each piece was measured and recorded to the nearest inch. Because of this, class breakpoints for 9, 10, 19 and 20 actually represent .4 inches above and below the value. For example, 9 represents 8.6 to 9.4 inches.

Table A2-62--Carbon mass of down wood on forest land, by forest type group and down wood diameter class, Oregon, 2001-2010

Forest type group	Down wood diameter class (inches)													
	Fine-wood size class ^a						Coarse-wood size class ^b						All down wood	
	0.1 - .24		0.25 - 0.9		1.0 - 2.9		3.0 - 9.0		10.0 - 19.0		≥ 20.0			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand megagrams</i>														
Softwoods:														
Douglas-fir	660.5	16.7	3,675.8	93.2	11,406.9	383.5	9,227.4	257.2	18,178.5	495.3	36,589.1	1,366.9	79,738.4	1,950.1
Fir / spruce / mtn. hemlock	143.7	7.0	1,070.7	49.9	3,480.5	165.4	4,917.2	259.4	9,772.6	498.4	8,675.9	608.8	28,060.6	1,256.8
Hemlock / Sitka spruce	56.5	5.7	383.4	62.8	902.7	101.0	1,134.5	115.6	2,881.6	266.0	7,331.6	960.2	12,690.2	1,275.0
Lodgepole pine	48.9	3.3	497.9	32.8	1,855.7	125.4	4,466.1	327.3	3,762.5	311.8	931.7	119.9	11,562.7	725.2
Ponderosa pine	58.5	2.8	859.9	34.5	3,017.9	127.4	3,601.6	160.5	4,259.5	223.2	4,340.8	325.8	16,138.2	665.2
Western juniper	20.4	1.4	213.3	16.1	726.2	199.1	220.8	27.7	442.9	58.5	347.7	85.8	1,971.3	272.3
Western larch	5.0	1.3	56.4	12.2	206.2	43.8	476.5	100.2	578.8	133.3	144.2	46.9	1,467.2	292.1
Other western softwoods	1.0	0.5	10.1	2.9	25.2	8.2	32.6	10.6	74.5	33.0	191.5	125.6	335.0	162.2
Total	994.6	17.5	6,767.5	117.6	21,621.4	465.5	24,076.7	471.1	39,951.0	735.9	58,552.5	1,702.8	151,963.7	2,397.7
Hardwoods:														
Alder / maple	41.5	3.6	363.0	34.3	929.1	85.3	698.2	64.4	1,460.6	144.4	3,868.1	520.1	7,360.6	697.8
Aspen / birch	0.6	0.2	7.8	3.0	32.2	14.5	38.7	15.2	45.0	20.6	11.4	8.2	135.7	51.3
Elm / ash / cottonwood	3.2	1.3	27.6	14.6	27.9	13.3	19.1	7.2	28.3	12.3	3.3	3.3	109.4	36.9
Tanoak / laurel	35.8	4.7	241.6	45.8	644.0	92.0	507.5	79.2	727.7	109.0	1,367.2	295.6	3,523.8	484.3
Western oak	22.3	2.8	154.5	19.0	524.0	81.3	320.1	39.1	470.2	70.8	409.5	93.0	1,900.7	233.6
Woodland hardwoods	3.3	0.8	31.0	7.4	101.1	24.9	59.8	17.5	126.5	53.8	94.3	45.2	415.9	104.0
Other hardwoods	16.4	2.8	111.7	16.0	386.5	67.6	342.5	66.4	369.7	59.6	464.4	123.8	1,691.3	264.2
Total	123.1	7.0	937.3	63.2	2,644.8	161.6	1,985.9	130.3	3,227.9	206.7	6,218.3	614.8	15,137.3	914.5
Nonstocked	29.2	5.5	345.4	114.4	1,102.9	157.1	874.5	98.5	1,224.1	152.8	1,036.5	178.7	4,612.8	525.2
All forest types	1,146.9	18.0	8,050.2	165.6	25,369.2	485.2	26,937.2	478.5	44,403.0	745.8	65,807.3	1,768.6	171,713.7	2,420.1

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; for details on DWM biomass calculation see FIA Methods and Design Supplement.

^aThe diameter of each piece was visually estimated before being counted within each size class. Counts were used as input to volume equations for fine-wood.

^bDiameter classes are based on the diameter at the large end of the piece for decay classes less than 5, and based on the transect diameter for decay class 5 pieces. The diameter of each piece was measured and recorded to the nearest inch. Because of this, class breakpoints for 9, 10, 19 and 20 actually represent .4 inches above and below the value. For example, 9 represents 8.6 to 9.4 inches.

Table A2-63--Number of pieces of down wood^a on forest land, by forest type group and down wood diameter class, Oregon, 2001-2010

Forest type group	Down wood diameter class (inches) ^b						All classes	
	3.0 - 9.0		10.0 - 19.0		≥ 20.0		Total	SE
	Total	SE	Total	SE	Total	SE		
<i>Thousand pieces</i>								
Softwoods:								
Douglas-fir	1,956,122.5	50,279.7	573,997.9	15,863.5	174,253.7	6,409.0	2,704,374.1	63,070.9
Fir / spruce / mtn. hemlock	884,286.6	39,992.2	210,311.3	10,659.5	39,141.3	2,692.0	1,133,739.3	48,707.6
Hemlock / Sitka spruce	245,899.7	25,024.2	87,817.9	8,146.0	29,533.2	3,331.6	363,250.8	32,859.1
Lodgepole pine	611,958.0	38,478.5	66,643.7	5,082.6	4,546.2	689.3	683,147.9	41,810.0
Ponderosa pine	870,240.8	35,688.0	121,159.5	6,246.7	21,157.2	1,747.2	1,012,557.5	40,039.9
Western juniper	58,398.7	6,819.1	12,527.0	1,622.6	1,982.9	422.5	72,908.7	7,934.3
Western larch	71,773.4	13,903.5	12,247.9	2,808.4	718.2	325.3	84,739.5	16,096.6
Other western softwoods	7,162.5	2,110.4	2,105.5	921.5	696.1	343.6	9,964.2	2,927.7
Total	4,705,842.3	72,626.9	1,086,810.7	19,723.1	272,028.9	7,446.2	6,064,681.9	84,947.3
Hardwoods:								
Alder / maple	156,259.5	13,221.3	50,983.6	4,906.5	18,868.6	2,395.9	226,111.7	17,729.1
Aspen / birch	11,382.9	4,348.1	1,616.5	754.8	106.3	81.4	13,105.7	4,996.8
Elm / ash / cottonwood	5,441.1	2,151.9	922.1	386.3	18.5	18.5	6,381.7	2,331.9
Tanoak / laurel	107,690.9	14,153.1	19,322.5	2,973.2	5,630.7	1,098.0	132,644.2	17,053.7
Western oak	75,226.2	9,109.3	14,479.1	2,264.3	2,622.2	808.6	92,327.4	11,165.1
Woodland hardwoods	18,453.5	4,777.6	4,799.8	2,027.2	201.4	85.6	23,454.7	6,380.9
Other hardwoods	74,958.6	12,916.0	13,306.0	2,241.1	2,343.4	639.4	90,608.0	15,172.3
Total	449,412.7	25,259.9	105,429.7	6,776.8	29,791.1	2,806.8	584,633.4	31,173.7
Nonstocked	173,271.2	18,397.4	31,814.2	3,799.7	6,565.4	1,385.1	211,650.8	21,965.8
All forest types	5,328,526.2	73,171.7	1,224,054.5	19,999.7	308,385.4	7,796.2	6,860,966.1	84,692.8

Note: Data subject to sampling error; SE = standard error.

^a Includes down wood pieces ≥ 3 inches in diameter at the transect intersection. Number of pieces can not be estimated for down wood with smaller diameters (fine woody material) because pieces were not individually measured.

^b Diameter classes are based on the diameter at the large end of the piece for decay classes less than 5, and based on the transect diameter for decay class 5 pieces. The diameter of each piece was measured and recorded to the nearest inch. Because of this, class breakpoints for 9, 10, 19 and 20 actually represent .4 inches above and below the value. For example, 9 represents 8.6 to 9.4 inches.

Table A2-64--Carbon mass of down wood^a on forest land, by forest type group, ownership group, and land status, Oregon, 2001-2010

Forest type group	Ownership group and land status																	
	U.S. Forest Service				Other Federal				State and local government				Private				All forest land	
	Timberland		Other forest land		Timberland		Other forest land		Timberland		Other forest land		Timberland		Other forest land			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand megagrams</i>																		
Softwoods:																		
Douglas-fir	29,585.3	1,249.7	4,066.0	545.8	12,195.8	808.2	200.3	77.9	6,198.2	754.6	268.9	130.1	27,140.3	1,102.2	83.7	76.0	79,738.4	1,950.1
Fir / spruce / mtn. hemlock	16,198.7	987.8	6,609.8	655.2	577.9	184.4	678.9	178.6	211.0	122.4	23.7	24.9	3,629.9	435.5	130.8	100.0	28,060.6	1,256.8
Hemlock / Sitka spruce	5,086.8	906.2	1,400.7	471.8	812.4	269.3	10.9	11.3	1,062.5	414.3	60.9	40.8	4,256.0	613.2	--	--	12,690.2	1,275.0
Lodgepole pine	8,023.3	613.7	1,435.1	262.5	105.3	47.4	358.9	122.5	36.4	23.9	0.9	0.9	1,537.7	272.4	65.2	34.2	11,562.7	725.2
Ponderosa pine	10,984.4	574.8	433.6	109.9	531.6	124.8	48.4	37.5	131.3	55.3	--	--	3,891.4	290.3	117.4	61.3	16,138.2	665.2
Western juniper	264.6	68.3	216.8	94.8	94.2	55.7	782.0	224.1	5.0	5.5	17.3	8.6	135.0	45.0	456.4	75.4	1,971.3	272.3
Western larch	827.4	224.5	449.0	154.1	--	--	--	--	--	--	--	--	190.8	109.9	--	--	1,467.2	292.1
Other western softwoods	220.5	153.4	37.3	18.0	--	--	39.7	37.4	--	--	--	--	30.1	32.2	7.4	4.6	335.0	162.2
Total	71,191.0	1,758.1	14,648.3	1,005.4	14,317.1	836.5	2,119.1	301.3	7,644.5	824.8	371.6	138.6	40,811.2	1,262.6	860.8	161.4	151,963.7	2,397.7
Hardwoods:																		
Alder / maple	1,411.5	317.6	31.8	22.8	291.8	115.5	0.9	0.9	1,605.7	370.2	18.1	17.5	3,952.2	486.9	48.6	28.8	7,360.6	697.8
Aspen / birch	36.9	30.5	1.2	1.3	--	--	49.1	25.2	--	--	--	--	48.4	32.6	--	--	135.7	51.3
Elm / ash / cottonwood	--	--	--	--	--	--	--	--	--	--	9.1	9.4	79.5	30.8	20.8	18.0	109.4	36.9
Tanoak / laurel	1,432.9	342.9	221.4	57.3	487.2	218.8	--	--	--	--	--	--	1,382.3	259.4	--	--	3,523.8	484.3
Western oak	218.8	80.2	111.1	50.8	339.3	90.4	82.5	39.8	33.7	20.7	37.2	27.5	596.0	153.6	482.1	108.9	1,900.7	233.6
Woodland hardwoods	69.5	35.2	88.2	45.0	5.8	5.9	75.5	41.8	--	--	--	--	134.0	71.1	42.9	27.2	415.9	104.0
Other hardwoods	178.5	75.5	65.3	31.9	362.4	133.6	34.9	21.3	111.6	55.0	--	--	901.1	204.7	37.5	18.9	1,691.3	264.2
Total	3,348.2	474.9	519.0	95.8	1,486.5	293.8	242.9	67.3	1,750.9	374.7	64.4	34.0	7,093.5	613.1	632.0	117.9	15,137.3	914.5
Nonstocked	1,282.0	212.6	566.4	194.7	2.1	1.3	134.3	66.7	201.1	109.0	--	--	2,406.9	421.6	19.9	13.8	4,612.8	525.2
All forest types	75,821.2	1,770.9	15,733.8	1,025.5	15,805.8	852.2	2,496.4	314.1	9,596.5	866.7	436.0	142.9	50,311.5	1,337.6	1,512.6	200.5	171,713.7	2,420.1

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 megagrams was estimated; for details on DWM biomass calculation see FIA Methods and Design Supplement.

^a Includes down wood with diameters >= 0.1 inch.

Table A2-65--Carbon mass of down wood^a on forest land, by county and land status, Oregon, 2001-2010

County	Land status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand megagrams</i>														
Western Oregon:														
Benton	1,903.3	341.0	58.7	58.6	1,962.1	345.4	--	--	--	--	--	--	1,962.1	345.4
Clackamas	6,313.1	710.3	--	--	6,313.1	710.3	1,416.0	422.7	--	--	1,416.0	422.7	7,729.0	783.7
Clatsop	4,252.6	610.2	1.4	1.3	4,254.0	610.2	0.9	0.9	--	--	0.9	0.9	4,254.9	610.2
Columbia	1,766.5	302.3	7.2	5.9	1,773.7	303.5	--	--	--	--	--	--	1,773.7	303.5
Coos	6,030.8	653.1	36.2	25.5	6,067.0	653.3	16.3	12.4	--	--	16.3	12.4	6,083.3	653.2
Curry	3,707.4	420.4	36.3	21.6	3,743.7	420.2	446.8	116.6	46.3	23.4	493.1	118.5	4,236.8	429.7
Douglas	19,415.2	1,044.3	243.8	101.9	19,659.0	1,045.8	874.4	231.3	86.9	46.3	961.3	234.4	20,620.3	1,051.8
Hood River	1,883.7	662.5	7.7	6.8	1,891.5	662.5	593.4	218.5	1.8	1.3	595.2	218.5	2,486.7	693.4
Jackson	6,890.0	573.4	405.9	99.4	7,295.9	580.2	264.2	97.8	25.8	15.7	290.0	99.1	7,585.9	585.4
Josephine	4,330.8	494.4	54.1	25.6	4,384.9	494.7	172.7	75.1	0.2	0.2	172.9	75.1	4,557.8	499.0
Lane	19,900.9	1,124.8	218.5	87.4	20,119.4	1,123.6	1,613.7	291.1	18.4	19.1	1,632.1	291.3	21,751.5	1,114.5
Lincoln	4,259.2	523.9	11.3	11.3	4,270.5	523.8	104.2	88.8	--	--	104.2	88.8	4,374.8	530.2
Linn	9,062.3	870.9	4.7	3.9	9,067.0	870.9	419.3	155.7	--	--	419.3	155.7	9,486.3	878.5
Marion	1,917.6	358.8	52.9	38.9	1,970.5	360.4	495.9	168.6	2.4	2.4	498.3	168.8	2,468.8	391.2
Multnomah	488.4	226.3	1.1	1.0	489.5	226.3	1,379.6	528.9	--	--	1,379.6	528.9	1,869.1	571.5
Polk	1,770.3	332.2	22.0	15.7	1,792.3	332.4	--	--	--	--	--	--	1,792.3	332.4
Tillamook	6,960.5	750.2	--	--	6,960.5	750.2	19.4	20.1	--	--	19.4	20.1	6,979.9	750.3
Washington	1,646.2	446.0	--	--	1,646.2	446.0	23.7	24.9	--	--	23.7	24.9	1,669.9	446.6
Yamhill	1,468.7	299.9	20.2	20.8	1,488.9	300.3	9.1	9.4	--	--	9.1	9.4	1,498.0	300.5
Total	103,967.5	2,128.0	1,182.0	187.2	105,149.5	2,117.3	7,849.5	821.5	181.9	57.4	8,031.5	822.5	113,181.0	2,114.1

Table A2-65--Carbon mass of down wood^a on forest land, by county and land status, Oregon, 2001-2010

County	Land status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total			
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand megagrams</i>														
Eastern Oregon:														
Baker	2,333.0	290.5	87.5	41.5	2,420.5	293.2	120.8	64.0	--	--	120.8	64.0	2,541.3	299.2
Crook	1,826.3	293.0	282.4	46.7	2,108.7	298.1	222.6	139.6	--	--	222.6	139.6	2,331.3	328.2
Deschutes	4,172.4	468.3	243.5	81.8	4,415.9	473.7	716.4	215.8	62.9	36.6	779.3	218.4	5,195.2	513.5
Grant	7,391.9	541.3	147.9	59.7	7,539.7	542.8	1,314.1	278.3	91.8	60.3	1,406.0	284.1	8,945.7	588.0
Harney	1,480.8	195.6	367.3	87.6	1,848.1	215.6	--	--	4.4	3.4	4.4	3.4	1,852.5	215.6
Jefferson	1,474.2	299.2	208.6	92.3	1,682.8	311.3	284.5	135.4	--	--	284.5	135.4	1,967.3	339.0
Klamath	9,424.2	554.9	836.2	256.5	10,260.4	603.9	2,249.9	339.5	251.7	133.7	2,501.5	355.9	12,761.9	664.4
Lake	5,194.7	459.2	365.8	103.2	5,560.5	469.2	64.1	46.3	24.5	17.2	88.6	49.4	5,649.2	471.0
Malheur	53.3	45.5	68.4	31.0	121.7	55.1	--	--	--	--	--	--	121.7	55.1
Morrow	1,047.2	257.4	19.4	19.9	1,066.6	258.1	--	--	--	--	--	--	1,066.6	258.1
Umatilla	2,843.1	378.1	82.3	65.4	2,925.4	383.2	103.0	73.2	--	--	103.0	73.2	3,028.4	389.6
Union	3,914.0	456.4	42.2	37.3	3,956.2	457.6	282.6	89.0	0.2	0.2	282.8	89.0	4,239.0	463.7
Wallowa	2,524.5	337.5	18.5	17.6	2,543.0	337.9	1,919.7	302.8	32.5	18.8	1,952.2	303.2	4,495.2	446.7
Wasco	2,508.8	375.1	240.0	98.0	2,748.8	384.4	57.2	57.5	--	--	57.2	57.5	2,806.0	388.6
Wheeler	1,379.1	328.0	40.1	14.5	1,419.2	328.3	112.3	112.9	--	--	112.3	112.9	1,531.5	346.9
Total	47,567.5	1,166.7	3,050.1	348.9	50,617.6	1,187.7	7,447.2	619.6	467.9	153.2	7,915.1	631.0	58,532.7	1,208.7
All counties	151,535.0	2,413.5	4,232.2	395.9	155,767.1	2,413.5	15,296.7	1,028.9	649.9	163.6	15,946.6	1,036.6	171,713.7	2,420.1

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 megagrams was estimated; for details on DWM biomass calculation see FIA Methods and Design Supplement.

^a Includes down wood with diameters >= 0.1 inch.

Table A2-66--Average biomass per acre of down wood on forest land, by forest type group and down wood diameter class, Oregon, 2001-2010

Forest type group	Down wood diameter class (inches)												All down wood	
	Fine-wood size class ^a						Coarse-wood size class ^b							
	0.1 - .24		0.25 - 0.9		1.0 - 2.9		3.0 - 9.0		10.0 - 19.0		≥ 20.0		Mean	SE
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
<i>Tons per acre</i>														
Softwoods:														
Douglas-fir	0.134	0.003	0.747	0.015	2.317	0.069	1.813	0.041	3.567	0.082	7.153	0.249	15.730	0.309
Fir / spruce / mtn. hemlock	0.086	0.003	0.641	0.020	2.085	0.066	2.830	0.114	5.626	0.212	4.996	0.302	16.263	0.455
Hemlock / Sitka spruce	0.133	0.009	0.906	0.131	2.134	0.178	2.583	0.176	6.560	0.377	16.652	1.786	28.969	1.944
Lodgepole pine	0.053	0.002	0.542	0.024	2.020	0.093	4.669	0.253	3.936	0.265	0.975	0.117	12.195	0.479
Ponderosa pine	0.025	0.001	0.367	0.011	1.287	0.041	1.476	0.052	1.748	0.078	1.781	0.125	6.684	0.206
Western juniper	0.016	0.001	0.170	0.011	0.579	0.157	0.170	0.020	0.339	0.043	0.266	0.065	1.540	0.204
Western larch	0.056	0.011	0.631	0.088	2.308	0.304	5.118	0.660	6.219	0.971	1.549	0.431	15.880	1.699
Other western softwoods	0.024	0.009	0.235	0.045	0.587	0.143	0.729	0.224	1.666	0.637	4.276	2.599	7.518	3.200
Total	0.085	0.001	0.580	0.009	1.853	0.038	1.988	0.037	3.300	0.059	4.828	0.138	12.634	0.187
Hardwoods:														
Alder / maple	0.079	0.005	0.689	0.047	1.765	0.115	1.312	0.086	2.717	0.204	7.113	0.848	13.675	0.954
Aspen / birch	0.026	0.006	0.362	0.087	1.488	0.491	1.756	0.302	2.053	0.754	0.516	0.343	6.201	1.365
Elm / ash / cottonwood	0.094	0.029	0.813	0.400	0.820	0.343	0.559	0.142	0.827	0.278	0.098	0.098	3.211	0.764
Tanoak / laurel	0.131	0.012	0.884	0.146	2.357	0.264	1.848	0.235	2.623	0.312	4.819	0.943	12.661	1.294
Western oak	0.062	0.006	0.431	0.041	1.461	0.194	0.883	0.080	1.285	0.160	1.115	0.235	5.235	0.476
Woodland hardwoods	0.043	0.007	0.410	0.067	1.339	0.236	0.777	0.190	1.612	0.607	1.199	0.544	5.381	0.951
Other hardwoods	0.084	0.010	0.572	0.053	1.977	0.266	1.716	0.267	1.838	0.205	2.286	0.546	8.473	0.891
Total	0.083	0.004	0.631	0.036	1.781	0.088	1.322	0.072	2.129	0.112	4.049	0.375	9.995	0.481
Nonstocked	0.065	0.011	0.770	0.249	2.458	0.301	1.883	0.162	2.630	0.267	2.220	0.352	10.026	0.891
All forest types	0.084	0.001	0.592	0.012	1.865	0.035	1.912	0.033	3.150	0.053	4.657	0.125	12.260	0.170

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; the average was calculated using a ratio of means formula across plots within forest type groups; for details on DWM biomass calculation see FIA Methods and Design Supplement.

^aThe diameter of each piece was visually estimated before being counted within each size class. Counts were used as input to volume equations for fine-wood.

^bDiameter classes are based on the diameter at the large end of the piece for decay classes less than 5, and based on the transect diameter for decay class 5 pieces. The diameter of each piece was measured and recorded to the nearest inch. Because of this, class breakpoints for 9, 10, 19 and 20 actually represent .4 inches above and below the value. For example, 9 represents 8.6 to 9.4 inches.

Table A2-67--Average carbon mass per hectare of down wood on forest land, by forest type group and down wood diameter class, Oregon, 2001-2010

Forest type group	Down wood diameter class (inches)												All down wood	
	Fine-wood size class ^a						Coarse-wood size class ^b							
	0.1 - .24		0.25 - 0.9		1.0 - 2.9		3.0 - 9.0		10.0 - 19.0		≥ 20.0			
Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	
<i>Kilograms per hectare</i>														
Softwoods:														
Douglas-fir	150.37	3.17	836.84	17.24	2,596.91	77.75	2,100.72	47.92	4,138.54	94.98	8,329.90	290.22	18,153.29	358.86
Fir / spruce / mtn. hemlock	96.45	3.29	718.84	22.36	2,336.70	74.14	3,301.28	133.53	6,561.05	247.26	5,824.72	351.87	18,839.04	530.25
Hemlock / Sitka spruce	149.62	10.09	1,015.71	147.04	2,391.65	199.10	3,005.56	204.94	7,634.24	438.79	19,424.07	2,084.75	33,620.85	2,265.83
Lodgepole pine	59.67	2.68	607.60	27.23	2,264.60	104.49	5,450.33	295.02	4,591.65	309.08	1,136.96	136.94	14,110.81	557.79
Ponderosa pine	27.99	1.07	411.05	12.07	1,442.57	46.02	1,721.57	60.73	2,036.06	91.16	2,074.91	145.75	7,714.15	239.49
Western juniper	18.24	1.04	190.45	12.15	648.48	175.84	197.15	23.33	395.54	49.57	310.47	75.43	1,760.33	231.97
Western larch	62.89	11.98	707.36	98.47	2,586.69	341.27	5,975.95	770.86	7,259.33	1,133.50	1,808.96	502.89	18,401.17	1,975.63
Other western softwoods	27.33	10.52	263.21	50.06	658.04	160.57	851.50	261.34	1,943.09	743.56	4,994.30	3,035.38	8,737.49	3,733.16
Total	95.55	1.58	650.17	10.56	2,077.22	42.61	2,313.11	43.56	3,838.18	68.45	5,625.28	160.93	14,599.51	216.73
Hardwoods:														
Alder / maple	88.43	5.37	772.71	53.05	1,977.79	129.41	1,486.10	98.79	3,109.11	235.42	8,233.71	974.15	15,667.86	1,096.73
Aspen / birch	28.93	6.82	405.58	97.50	1,668.20	550.61	2,008.55	351.00	2,332.90	859.00	590.12	395.45	7,034.29	1,553.09
Elm / ash / cottonwood	105.17	32.92	910.85	448.70	919.55	384.07	631.39	162.98	932.31	312.30	108.15	107.71	3,607.43	854.87
Tanoak / laurel	146.86	13.99	990.99	164.05	2,641.55	295.57	2,081.53	261.38	2,984.84	350.97	5,608.04	1,100.78	14,453.82	1,487.10
Western oak	69.74	6.76	482.75	45.87	1,637.04	217.15	1,000.08	90.80	1,468.81	182.01	1,279.36	270.18	5,937.77	541.11
Woodland hardwoods	48.44	7.55	459.72	74.88	1,501.10	264.34	887.41	215.47	1,878.13	709.43	1,400.51	634.81	6,175.31	1,104.02
Other hardwoods	94.15	11.77	640.70	59.36	2,216.31	297.97	1,963.94	306.41	2,119.75	237.39	2,663.12	638.00	9,697.97	1,028.56
Total	92.90	4.13	707.36	40.43	1,996.04	98.81	1,498.75	81.08	2,436.09	127.83	4,692.88	432.23	11,424.01	552.24
Nonstocked	73.04	12.83	862.88	279.35	2,754.98	337.48	2,184.46	187.59	3,057.75	310.48	2,589.12	409.93	11,522.24	1,021.39
All forest types	94.52	1.48	663.43	13.56	2,090.72	39.43	2,219.94	38.93	3,659.33	61.21	5,423.29	145.76	14,151.22	197.62

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; the average was calculated using a ratio of means formula across plots within forest type groups; for details on DWM biomass calculation see FIA Methods and Design Supplement.

^aThe diameter of each piece was visually estimated before being counted within each size class. Counts were used as input to volume equations for fine-wood.

^bDiameter classes are based on the diameter at the large end of the piece for decay classes less than 5, and based on the transect diameter for decay class 5 pieces. The diameter of each piece was measured and recorded to the nearest inch. Because of this, class breakpoints for 9, 10, 19 and 20 actually represent .4 inches above and below the value. For example, 9 represents 8.6 to 9.4 inches.

Table A2-68--Average number of pieces per acre of down wood^a on forest land, by forest type group and down wood diameter class, Oregon, 2001-2010

Forest type group	Down wood diameter class (inches)						All classes	
	3.0 - 9.0		10.0 - 19.0		≥ 20.0		Mean	SE
	Mean	SE	Mean	SE	Mean	SE		
<i>Pieces per acre</i>								
Softwoods:								
Douglas-fir	180.2	3.6	52.9	1.2	16.1	0.5	249.2	4.3
Fir / spruce / mtn. hemlock	240.3	7.0	57.1	2.1	10.6	0.6	308.0	7.8
Hemlock / Sitka spruce	263.6	18.0	94.2	5.4	31.7	2.7	389.5	19.8
Lodgepole pine	302.2	11.9	32.9	1.9	2.2	0.3	337.4	12.4
Ponderosa pine	168.3	5.2	23.4	1.0	4.1	0.3	195.9	5.7
Western juniper	21.1	2.3	4.5	0.6	0.7	0.1	26.3	2.7
Western larch	364.3	37.7	62.2	9.7	3.6	1.5	430.1	40.8
Other western softwoods	75.6	19.0	22.2	8.4	7.3	3.3	105.2	25.0
Total	183.0	2.6	42.3	0.7	10.6	0.3	235.8	3.0
Hardwoods:								
Alder / maple	134.6	7.6	43.9	3.2	16.3	1.8	194.8	9.1
Aspen / birch	238.8	49.3	33.9	12.1	2.2	1.7	275.0	58.0
Elm / ash / cottonwood	72.6	19.8	12.3	3.9	0.2	0.2	85.2	19.6
Tanoak / laurel	178.8	16.8	32.1	3.9	9.3	1.6	220.2	19.7
Western oak	95.1	8.5	18.3	2.4	3.3	1.0	116.7	10.4
Woodland hardwoods	110.9	23.1	28.8	10.8	1.2	0.5	140.9	30.6
Other hardwoods	173.9	22.2	30.9	3.7	5.4	1.3	210.3	25.4
Total	137.3	5.9	32.2	1.7	9.1	0.8	178.6	7.0
Nonstocked	175.2	13.6	32.2	3.1	6.6	1.3	214.0	16.0
All forest types	177.7	2.4	40.8	0.7	10.3	0.3	228.8	2.7

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; the average was calculated using a ratio of means formula across plots within forest type groups.

^a Includes down wood pieces ≥ 3 inches in diameter at the transect intersection. Number of pieces can not be estimated for down wood with smaller diameters (fine woody material) because pieces were not individually measured.

Table A2-69--Volume of live trees, dead trees^a, and down wood on forest land, by stand age class, Oregon, 2001-2010

Stand age class	Live trees		Dead trees		Down wood		All volume
	Total	SE	Total	SE	Total	SE	
<i>Million cubic feet</i>							
Classes in years:							
1 - 20	2,449.4	154.7	1,682.0	158.6	6,361.3	329.8	10,492.7
21-40	14,147.7	581.8	1,623.2	134.8	8,195.4	405.9	23,966.4
41-60	17,757.2	781.1	2,177.4	151.2	7,304.8	392.1	27,239.4
61-80	14,183.9	693.9	2,016.4	168.2	5,089.4	264.8	21,289.7
81-100	16,545.1	805.4	2,564.2	186.0	5,446.5	288.1	24,555.8
101-120	9,212.9	695.6	1,727.1	152.6	2,790.5	214.0	13,730.4
121-140	6,693.1	612.7	1,421.7	161.6	1,994.8	188.8	10,109.6
141-160	6,578.5	606.8	1,161.6	139.5	2,017.2	198.9	9,757.2
161-180	3,725.1	496.0	774.9	116.6	1,111.4	151.2	5,611.3
181-200	5,066.2	532.0	1,118.3	157.0	1,893.9	269.7	8,078.3
201 plus	18,957.6	1,070.6	3,711.3	263.0	6,235.3	407.2	28,904.2
Unknown	174.3	31.5	573.4	111.2	1,109.0	126.4	1,856.7
All classes	115,491.0	1,417.8	20,551.5	465.3	49,549.4	734.2	185,591.9

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error.

^a Live and dead tree volume is aboveground volume of the tree from ground to tip (live trees) and to actual height (dead trees), including stem volume and stem bark.

Table A2-70--Biomass of live trees, dead trees^a, and down wood on forest land, by stand age class, Oregon, 2001-2010

Stand age class	Live trees		Dead trees		Down wood		All biomass
	Total	SE	Total	SE	Total	SE	
<i>Thousand tons</i>							
Classes in years:							
1 - 20	50,811.2	3,025.6	17,107.7	2,104.7	48,753.1	2,417.1	116,672.0
21-40	260,766.3	10,552.5	11,523.5	801.4	55,977.3	2,752.3	328,267.1
41-60	319,160.8	13,856.1	20,034.9	1,318.3	51,842.2	2,603.9	391,037.9
61-80	255,422.2	12,302.8	21,260.9	1,550.6	40,187.7	1,977.6	316,870.8
81-100	297,541.9	14,279.3	29,970.8	2,075.0	42,976.1	2,178.2	370,488.8
101-120	164,057.2	12,334.5	20,553.1	1,771.5	21,502.3	1,606.5	206,112.6
121-140	118,889.1	10,893.3	16,212.9	1,754.4	15,414.8	1,431.8	150,516.8
141-160	117,538.8	10,838.5	13,887.6	1,714.2	14,484.0	1,379.0	145,910.4
161-180	66,340.2	8,826.6	8,705.3	1,248.0	7,979.0	1,059.1	83,024.5
181-200	91,695.9	9,667.4	14,016.0	2,021.3	14,026.1	1,936.1	119,738.0
201 plus	343,663.3	19,366.6	46,083.1	3,471.1	44,456.7	2,860.8	434,203.1
Unknown	3,157.3	561.0	7,850.6	1,752.1	10,011.8	1,132.0	21,019.7
All classes	2,089,044.2	25,080.2	227,206.5	5,505.7	367,611.2	5,154.8	2,683,861.9

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; for details on DWM biomass calculation see FIA Methods and Design Supplement.

^a Live and dead tree biomass is total aboveground biomass of the tree from ground to tip (live trees) and to actual height (dead trees), including stem wood, bark, and branches.

Table A2-71--Carbon mass of live trees, dead trees^a, and down wood on forest land, by stand age class, Oregon, 2001-2010

Stand age class	Live trees		Dead trees		Down wood		All carbon mass
	Total	SE	Total	SE	Total	SE	
<i>Thousand megagrams</i>							
Classes in years:							
1 - 20	23,048.0	1,372.4	7,760.0	954.7	22,744.2	1,130.2	53,552.2
21-40	118,283.6	4,786.6	5,227.1	363.5	26,109.3	1,285.3	149,620.0
41-60	144,771.3	6,285.1	9,087.9	598.0	24,162.9	1,219.2	178,022.1
61-80	115,859.5	5,580.6	9,644.0	703.4	18,738.3	925.5	144,241.8
81-100	134,965.0	6,477.1	13,594.7	941.2	20,075.2	1,021.3	168,634.9
101-120	74,416.3	5,595.0	9,322.9	803.6	10,048.9	751.7	93,788.1
121-140	53,928.1	4,941.2	7,354.2	795.8	7,207.3	670.8	68,489.6
141-160	53,315.6	4,916.3	6,299.4	777.5	6,783.1	647.0	66,398.1
161-180	30,091.9	4,003.7	3,948.7	566.1	3,739.8	497.0	37,780.4
181-200	41,593.3	4,385.1	6,357.7	916.9	6,583.2	912.0	54,534.2
201 plus	155,885.7	8,784.7	20,903.3	1,574.5	20,866.4	1,344.7	197,655.4
Unknown	1,432.2	254.5	3,561.0	794.7	4,655.0	525.5	9,648.2
All classes	947,590.4	11,376.4	103,060.9	2,497.4	171,713.7	2,420.1	1,222,365.0

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; for details on DWM biomass calculation see FIA Methods and Design Supplement.

^a Live and dead tree carbon mass is total aboveground carbon mass of the tree from ground to tip (live trees) and to actual height (dead trees), including stem wood, bark, and branches.

Table A2-72--Average volume per acre of live trees, dead trees^a, and down wood on forest land, by stand age class, Oregon, 2001-2010

Stand age class	Live trees		Dead trees		Down wood		All volume
	Total	SE	Total	SE	Total	SE	
<i>Cubic feet per acre</i>							
Classes in years:							
1 - 20	663.56	35.51	455.67	39.57	1,723.28	65.43	2,842.5
21-40	3,253.23	88.22	373.26	28.93	1,884.52	71.47	5,511.0
41-60	3,876.53	120.17	475.35	29.32	1,594.70	68.77	5,946.6
61-80	3,031.19	110.82	430.92	32.98	1,087.63	44.55	4,549.7
81-100	3,755.79	135.93	582.07	37.67	1,236.37	51.98	5,574.2
101-120	5,340.04	277.33	1,001.06	70.35	1,617.44	87.82	7,958.5
121-140	6,143.99	366.05	1,305.06	117.19	1,831.14	117.72	9,280.2
141-160	6,319.35	380.86	1,115.85	107.68	1,937.71	134.02	9,372.9
161-180	6,839.06	622.68	1,422.60	160.17	2,040.50	189.91	10,302.2
181-200	6,327.52	429.77	1,396.70	158.87	2,365.39	277.30	10,089.6
201 plus	9,277.91	306.11	1,816.34	100.91	3,051.56	140.42	14,145.8
Unknown	168.47	28.07	554.22	99.64	1,072.01	97.80	1,794.7
All classes	3,851.73	48.03	685.41	15.60	1,652.52	24.33	6,189.7

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; the average was calculated using a ratio of means formula across plots.

^a Live and dead tree volume is aboveground volume of the tree from ground to tip (live trees) and to actual height (dead trees), including stem volume and stem bark.

Table A2-73--Average biomass per acre of live trees, dead trees^a, and down wood on forest land, by stand age class, Oregon, 2001-2010

Stand age class	Live trees		Dead trees		Down wood		All biomass
	Total	SE	Total	SE	Total	SE	
<i>Tons per acre</i>							
Classes in years:							
1 - 20	13.76	0.67	4.63	0.54	13.21	0.46	31.6
21-40	59.96	1.56	2.65	0.17	12.87	0.48	75.5
41-60	69.68	2.10	4.37	0.25	11.32	0.44	85.4
61-80	54.59	1.94	4.54	0.30	8.59	0.32	67.7
81-100	67.54	2.38	6.80	0.41	9.76	0.38	84.1
101-120	95.09	4.89	11.91	0.81	12.46	0.64	119.5
121-140	109.13	6.51	14.88	1.23	14.15	0.88	138.2
141-160	112.91	6.80	13.34	1.34	13.91	0.89	140.2
161-180	121.80	11.08	15.98	1.66	14.65	1.29	152.4
181-200	114.53	7.84	17.51	2.07	17.52	1.96	149.5
201 plus	168.19	5.53	22.55	1.38	21.76	0.97	212.5
Unknown	3.05	0.50	7.59	1.60	9.68	0.86	20.3
All classes	69.67	0.85	7.58	0.18	12.26	0.17	89.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; the average was calculated using a ratio of means formula across plots; for details on DWM biomass calculation see FIA Methods and Design Supplement.

^a Live and dead tree biomass is total aboveground biomass of the tree from ground to tip (live trees) and to actual height (dead trees), including stem wood, bark, and branches.

Table A2-74--Average carbon mass per hectare of live trees, dead trees^a, and down wood on forest land, by stand age class, Oregon, 2001-2010

Stand age class	Live trees		Dead trees		Down wood		All carbon mass
	Total	SE	Total	SE	Total	SE	
<i>Kilograms per hectare</i>							
Classes in years:							
1 - 20	15,428.65	752.62	5,194.69	607.64	15,225.33	531.88	35,848.7
21-40	67,210.09	1,745.90	2,970.08	186.37	14,835.58	554.43	85,015.8
41-60	78,096.80	2,355.66	4,902.44	281.62	13,034.68	508.10	96,033.9
61-80	61,182.91	2,175.12	5,092.76	332.14	9,895.30	373.64	76,171.0
81-100	75,706.74	2,668.58	7,625.78	465.13	11,260.92	444.88	94,593.4
101-120	106,585.76	5,476.47	13,353.10	904.12	14,392.97	740.17	134,331.8
121-140	122,325.91	7,293.46	16,681.62	1,379.46	16,348.38	1,016.15	155,355.9
141-160	126,556.11	7,625.10	14,953.07	1,501.65	16,101.07	1,037.49	157,610.3
161-180	136,519.08	12,413.63	17,914.23	1,855.36	16,966.65	1,496.34	171,400.0
181-200	128,368.23	8,790.74	19,621.53	2,324.61	20,317.64	2,288.07	168,307.4
201 plus	188,519.04	6,198.77	25,279.23	1,541.88	25,234.65	1,126.92	239,032.9
Unknown	3,420.80	560.15	8,505.76	1,793.68	11,118.79	986.64	23,045.4
All classes	78,092.55	951.50	8,493.42	207.13	14,151.22	197.62	100,737.2

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; the average was calculated using a ratio of means formula across plots; for details on DWM biomass calculation see FIA Methods and Design Supplement.

^a Live and dead tree carbon mass is total aboveground carbon mass of the tree from ground to tip (live trees) and to actual height (dead trees), including stem wood, bark, and branches.

Table A2-75--Aboveground carbon mass^a of live trees^b on forest land, by national forest and land status, Oregon, 2001-2010

National forest	Land status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total			
Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE	
<i>Thousand megagrams</i>														
Deschutes	21,040.6	1,903.2	1,225.6	523.4	22,266.2	1,955.4	6,285.6	1,350.4	1,014.3	531.5	7,300.0	1,441.9	29,566.2	2,326.1
Fremont	17,574.3	1,621.5	537.4	185.2	18,111.7	1,627.2	1,402.5	674.4	--	--	1,402.5	674.4	19,514.2	1,742.1
Klamath	912.6	445.7	--	--	912.6	445.7	--	--	--	--	--	--	912.6	445.7
Malheur	21,241.2	1,514.9	500.6	203.5	21,741.7	1,521.8	1,655.4	592.2	297.0	189.6	1,952.4	620.7	23,694.1	1,606.5
Mt. Hood	42,256.8	3,561.5	195.0	185.6	42,451.9	3,565.7	19,522.5	2,819.2	--	--	19,522.5	2,819.2	61,974.3	3,506.7
Ochoco	9,867.2	1,090.6	321.9	144.0	10,189.1	1,099.6	766.9	419.3	--	--	766.9	419.3	10,955.9	1,172.0
Rogue River	28,583.0	3,155.0	339.3	177.9	28,922.3	3,161.5	2,369.8	895.1	214.5	211.7	2,584.3	919.8	31,506.6	3,276.9
Siskyou	41,319.0	4,106.7	469.2	308.0	41,788.2	4,095.8	7,229.4	1,856.3	117.1	68.1	7,346.4	1,856.2	49,134.6	4,306.2
Sisuslaw	43,818.6	4,731.0	--	--	43,818.6	4,731.0	3,664.6	1,699.6	60.0	60.2	3,724.5	1,700.5	47,543.1	4,964.3
Umatilla	13,731.2	1,398.1	339.5	223.2	14,070.7	1,412.2	3,650.5	766.3	--	--	3,650.5	766.3	17,721.2	1,572.3
Umpqua	57,725.1	5,122.7	343.7	270.5	58,068.8	5,124.6	4,791.6	1,382.0	655.7	456.2	5,447.4	1,442.9	63,516.1	5,137.4
Wallowa-Whitman	22,897.6	1,728.6	480.6	177.2	23,378.3	1,732.0	10,135.3	1,461.3	187.5	100.0	10,322.8	1,463.5	33,701.1	2,128.6
Willamette	85,664.9	5,553.0	894.2	401.8	86,559.0	5,540.0	23,725.9	3,591.6	301.0	289.1	24,027.0	3,596.1	110,586.0	5,768.1
Winema	22,061.3	1,997.7	485.8	288.1	22,547.1	2,012.8	3,689.8	1,090.9	480.2	347.3	4,170.0	1,141.4	26,717.1	2,265.9
Crooked River	--	--	51.1	28.1	51.1	28.1	--	--	--	--	--	--	51.1	28.1
National Grassland														
All national forests	428,693.4	9,046.9	6,183.9	959.9	434,877.3	8,992.4	88,889.8	5,887.2	3,327.2	889.5	92,217.1	5,934.0	527,094.4	8,505.5

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 megagrams was estimated.

^aTotal aboveground carbon mass of the tree from ground to tip, includes stem wood, bark, and branches; calculated by applying a factor of 0.5 to aboveground biomass estimated from regional biomass equations, and converting to metric units. Convert megagrams of carbon to tons of biomass by multiplying by 2.204586. The result will be approximate due to rounding.

^bIncludes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-76--Average aboveground carbon mass^a per hectare of live trees^b on forest land, by national forest and land status, Oregon, 2001-2010

National forest	Land status													
	Unreserved forests						Reserved forests						All forest land	
	Timberland		Other forest		Total		Productive		Other forest		Total			
Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	
	<i>Kilograms per hectare</i>													
Deschutes	43,343.06	2,924.61	61,641.54	16,878.18	44,063.02	2,889.08	86,191.24	10,655.06	86,480.48	23,597.14	86,231.31	9,743.63	50,113.70	2,973.23
Fremont	46,076.17	2,857.36	13,797.37	3,452.46	43,085.33	2,682.04	116,185.80	23,482.75	--	--	116,185.80	23,482.75	45,125.93	2,821.06
Klamath	94,512.95	15,163.38	--	--	94,512.95	15,163.38	--	--	--	--	--	--	94,512.95	15,163.38
Malheur	43,805.07	1,886.14	22,836.48	5,823.19	42,898.20	1,837.61	59,010.14	12,724.16	48,898.12	9,021.59	57,210.44	10,619.03	43,801.10	1,859.31
Mt. Hood	137,039.94	8,082.38	73,199.43	73,199.43	136,493.08	8,018.42	187,384.32	12,582.00	--	--	183,189.20	12,973.00	148,410.08	6,854.72
Ochoco	37,624.25	2,527.58	11,375.65	4,068.86	35,067.92	2,401.29	46,305.47	18,329.59	--	--	46,305.47	18,329.59	35,673.89	2,485.95
Rogue River	133,388.74	8,168.59	34,840.85	10,981.40	129,104.28	8,039.28	121,001.41	21,188.15	83,152.29	83,152.29	116,596.65	19,085.60	127,978.22	7,494.43
Siskiyou	138,001.17	9,819.99	20,341.80	11,669.77	129,585.72	9,520.92	111,383.74	19,898.47	7,036.34	3,078.75	90,095.00	17,454.10	121,615.49	8,455.03
Siuslaw	178,819.25	11,279.64	--	--	178,819.25	11,279.64	248,171.22	55,656.76	24,989.21	24,989.21	216,975.76	56,261.52	181,317.18	11,166.57
Umatilla	44,853.24	2,903.48	47,694.89	14,712.03	44,917.80	2,856.30	57,732.50	5,706.02	--	--	57,732.50	5,706.02	47,070.07	2,589.25
Umpqua	172,763.60	9,215.25	46,147.61	24,790.50	170,002.65	9,139.65	143,111.66	18,495.41	91,397.66	35,704.01	133,985.66	17,170.58	166,171.68	8,434.42
Wallowa-Whitman	47,012.53	2,190.56	22,194.63	3,701.63	45,956.07	2,117.34	59,551.98	5,675.46	17,726.31	5,821.17	57,105.07	5,458.86	48,879.14	2,111.64
Willamette	178,634.46	7,928.49	64,805.26	12,055.40	175,451.00	7,816.21	184,103.16	16,091.72	103,661.42	23,403.36	182,330.59	15,848.60	176,901.22	6,989.85
Winema	57,179.80	3,451.46	45,420.72	15,713.15	56,862.59	3,386.07	118,584.07	16,438.73	68,231.15	29,578.69	109,296.21	15,181.93	61,464.91	3,539.86
Crooked River	--	--	2,530.47	1,092.85	2,530.47	1,092.85	--	--	--	--	--	--	2,530.47	1,092.85
National Grassland														
All national forests	91,533.41	1,699.36	27,430.62	3,255.61	88,589.53	1,637.26	116,968.50	5,193.02	47,877.54	9,324.57	111,179.72	4,912.29	91,854.80	1,474.84

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 0.005 kilograms per hectare was estimated; the average was calculated using a ratio of means formula across plots.

^aTotal aboveground carbon mass of the tree from ground to tip, includes stem wood, bark, and branches; calculated by applying a factor of 0.5 to aboveground biomass estimated from regional biomass equations, and converting to metric units. Convert kilograms per hectare of carbon to tons per acre of biomass by multiplying by .00089. The result will be approximate due to rounding.

^bIncludes all live trees >= 1 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-77--Average biomass per acre of down wood on forest land, by national forest and down wood diameter class, Oregon, 2001-2010

National forest	Down wood diameter class (inches)													
	Fine-wood size class ^a						Coarse-wood size class ^b						All down wood	
	0.1 - .24		0.25 - 0.9		1.0 - 2.9		3.0 - 9.0		10.0 - 19.0		≥ 20.0		Mean	SE
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
	<i>Tons per acre</i>													
Deschutes	0.046	0.003	0.507	0.031	1.521	0.094	2.663	0.193	3.838	0.340	2.441	0.278	11.015	0.625
Fremont	0.033	0.003	0.411	0.025	1.428	0.098	1.977	0.160	3.042	0.270	2.754	0.335	9.645	0.597
Klamath	0.116	0.049	0.503	0.066	1.733	0.100	0.962	0.252	0.938	0.527	0.497	0.399	4.750	0.899
Malheur	0.035	0.003	0.484	0.028	1.539	0.084	2.335	0.196	2.877	0.240	2.280	0.234	9.549	0.511
Mt. Hood	0.147	0.011	0.664	0.035	1.777	0.126	2.269	0.178	6.501	0.425	11.866	1.643	23.224	1.853
Ochoco	0.023	0.002	0.373	0.029	1.353	0.119	1.578	0.146	2.487	0.310	3.952	0.658	9.766	0.999
Rogue River	0.101	0.009	0.617	0.039	2.064	0.138	1.540	0.143	3.927	0.371	5.703	0.757	13.952	1.056
Siskyou	0.130	0.009	0.595	0.042	1.730	0.124	1.251	0.103	2.415	0.218	4.835	0.719	10.956	0.883
Sisuslaw	0.126	0.011	0.723	0.065	1.168	0.122	1.231	0.100	4.043	0.361	11.988	1.242	19.279	1.450
Umatilla	0.045	0.004	0.510	0.036	1.803	0.158	4.499	0.431	5.405	0.449	2.280	0.281	14.542	0.896
Umpqua	0.116	0.007	0.675	0.036	1.949	0.105	2.291	0.174	4.748	0.306	8.537	0.799	18.316	0.921
Wallowa-Whitman	0.047	0.003	0.494	0.035	1.572	0.092	3.053	0.213	3.678	0.263	1.918	0.203	10.763	0.529
Willamette	0.127	0.008	0.685	0.036	1.730	0.115	1.916	0.105	6.041	0.305	10.705	0.852	21.202	1.018
Winema	0.058	0.004	0.511	0.028	1.746	0.102	2.321	0.164	3.246	0.324	2.383	0.390	10.264	0.681
Crooked River National Grassland	0.013	0.003	0.150	0.050	0.182	0.078	0.029	0.029	0.263	0.183	--	--	0.636	0.191
All national forests	0.076	0.002	0.551	0.010	1.636	0.031	2.304	0.057	4.044	0.091	5.178	0.195	13.788	0.260

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 0.0005 bone-dry tons per acre was estimated; the average was calculated using a ratio of means formula across plots; for details on DWM biomass calculation see FIA Methods and Design Supplement.

^a The diameter of each piece was visually estimated before being counted within each size class. Counts were used as input to volume equations for fine-wood.

^b Diameter classes are based on the diameter at the large end of the piece for decay classes less than 5, and based on the transect diameter for decay class 5 pieces. The diameter of each piece was measured and recorded to the nearest inch. Because of this, class breakpoints for 9, 10, 19 and 20 actually represent .4 inches above and below the value. For example, 9 represents 8.6 to 9.4 inches.

Table A2-78--Number of live trees^a with damage on forest land, by species and type of damage, Oregon, 2001-2010

Species	Total number of live trees		Number of live trees with damage		Type of damage					
	Total	SE	Total	SE	Animal		Bark beetle		Cankers	
					Total	SE	Total	SE	Total	SE
<i>Thousand trees</i>										
Softwoods:										
Alaska yellow-cedar	1,201.3	879.5	619.5	446.4	41.2	38.2	--	--	--	--
Bishop pine	206.0	191.1	41.2	38.2	--	--	--	--	--	--
California red fir	3,596.1	2,093.6	863.2	533.6	--	--	--	--	398.7	284.0
Douglas-fir	2,394,993.3	57,369.1	401,785.5	15,804.0	9,590.1	1,784.2	4,072.5	830.4	26,752.7	3,636.7
Engelmann spruce	63,231.2	7,958.6	24,237.9	4,174.3	898.8	615.3	217.2	132.4	2,024.4	883.5
Grand fir	482,914.6	32,121.3	153,411.3	14,436.5	1,971.1	1,058.0	3,890.4	1,162.5	4,882.0	1,893.8
Incense cedar	138,783.9	13,766.3	16,483.1	3,390.8	75.7	49.9	35.5	35.6	117.6	65.9
Jeffrey pine	6,639.2	3,120.3	420.8	219.8	36.0	37.3	--	--	72.0	74.6
Knobcone pine	3,745.4	1,912.2	3,274.9	1,720.6	--	--	--	--	1,576.0	1,164.9
Lodgepole pine	1,441,215.6	94,304.9	828,457.8	58,660.9	10,487.0	2,388.8	23,310.7	3,929.1	294,863.2	31,934.1
Mountain hemlock	281,320.3	26,413.1	103,744.1	12,590.1	336.6	110.2	75.6	49.8	824.8	255.3
Noble fir	53,139.4	8,825.3	10,852.7	2,468.4	364.1	174.5	77.3	71.2	478.2	470.4
Pacific silver fir	267,619.9	28,556.8	88,598.6	12,633.9	111.7	61.5	607.1	249.6	4,053.8	2,978.6
Pacific yew	38,361.3	7,515.5	12,195.0	2,868.4	--	--	--	--	35.6	35.7
Ponderosa pine	984,417.3	39,812.6	328,987.4	18,415.5	9,673.2	1,396.2	17,461.9	2,837.0	28,296.8	6,473.8
Port-Orford cedar	33,683.3	8,684.4	10,613.0	4,254.4	286.2	220.4	35.6	35.7	621.6	500.7
Redwood	16,943.5	16,633.8	136.2	138.7	5.9	5.9	--	--	--	--
Shasta red fir	107,584.1	25,885.3	27,242.7	8,913.5	--	--	361.1	215.9	1,692.1	792.8
Sitka spruce	33,649.3	4,858.7	5,359.9	1,149.0	115.5	86.9	--	--	137.7	89.5
Subalpine fir	174,920.2	23,709.5	81,283.7	12,763.6	287.3	133.0	171.6	94.0	3,736.7	1,362.8
Sugar pine	22,218.4	3,620.6	2,655.8	557.2	5.9	5.9	94.3	54.9	212.1	94.8
Western hemlock	648,668.1	39,921.6	146,326.6	12,248.4	4,046.9	1,350.1	374.2	173.8	2,004.4	687.5
Western juniper	240,773.0	14,732.3	47,766.8	5,135.3	1,375.6	555.6	--	--	474.7	250.7
Western larch	71,081.8	10,650.4	28,059.1	3,957.3	1,743.3	1,064.6	301.7	124.9	1,077.8	887.0
Western redcedar	133,561.6	12,658.4	26,118.8	4,032.2	274.5	95.8	41.5	41.7	5.8	5.9
Western white pine	37,424.2	6,188.4	14,167.9	3,029.2	34.9	35.1	259.8	183.2	4,859.2	2,365.2
White fir	422,778.4	33,314.0	126,563.6	11,757.0	637.9	452.3	1,411.8	371.3	7,824.8	2,016.9
Whitebark pine	22,907.0	5,906.9	11,460.4	3,625.6	655.9	491.7	413.1	204.4	193.7	85.9
Total	8,128,272.8	145,656.4	2,501,891.0	72,315.4	43,120.7	4,051.9	53,212.9	5,156.9	387,216.5	33,495.7
Hardwoods:										
Bigleaf maple	145,679.0	19,567.8	16,403.7	2,320.7	103.3	60.0	--	--	180.8	134.9
Bitter cherry	37,834.8	8,560.9	2,673.1	1,037.6	44.0	41.6	658.8	611.0	--	--
Black cottonwood	2,867.1	905.0	472.1	210.0	61.2	45.6	--	--	--	--
Black Willow	36.0	37.3	--	--	--	--	--	--	--	--
California black oak	46,003.3	6,785.0	15,774.8	2,999.4	--	--	--	--	37.0	37.8
California white oak	86.7	81.7	86.7	81.7	--	--	--	--	--	--
California-laurel	54,815.8	13,910.4	7,797.2	1,936.2	110.3	84.0	--	--	731.8	536.0
Canyon live oak	116,482.8	19,755.4	26,622.6	6,391.4	--	--	--	--	--	--
Cherry and plum Spp.	12,263.1	9,309.5	33.2	34.4	--	--	--	--	--	--
Chokecherry	11,485.3	4,298.5	590.2	437.4	--	--	--	--	34.8	36.6
Mountain mahogany	54,178.3	9,023.2	4,299.3	1,308.6	183.7	133.7	--	--	--	--
Giant chinkapin	150,035.7	23,349.0	21,992.7	5,264.9	314.1	132.8	--	--	1,298.0	1,362.6
California black walnut	5.2	5.7	5.2	5.7	--	--	--	--	--	--
Oregon ash	23,527.2	7,780.5	2,020.2	810.7	88.0	83.2	--	--	--	--
Oregon crab apple	429.8	178.7	272.4	151.7	--	--	--	--	--	--
Oregon white oak	136,009.3	18,679.8	30,867.3	7,118.5	170.8	148.1	--	--	697.3	490.0
Pacific dogwood	32,573.3	6,553.1	5,794.1	2,011.8	--	--	--	--	--	--
Pacific madrone	194,467.1	17,879.8	50,486.7	6,375.7	84.3	57.1	--	--	500.5	299.7
Paper birch	35.7	35.5	35.7	35.5	--	--	--	--	--	--
Quaking aspen	21,294.4	7,683.2	8,062.6	3,785.6	444.5	441.9	--	--	4,917.0	3,284.0
Red alder	324,555.0	21,272.1	39,799.8	5,315.8	4,186.6	1,965.9	--	--	607.3	443.3
Rocky Mtn. maple	73,002.9	29,012.2	2,126.4	1,077.2	106.9	107.2	--	--	--	--
Tanoak	336,551.1	41,312.8	73,670.4	12,764.3	635.3	472.6	--	--	74.0	53.3
White alder	6,248.5	3,506.2	72.4	52.0	--	--	--	--	--	--
Willow spp.	269.1	171.8	74.5	51.3	41.2	38.2	--	--	--	--
Total	1,783,521.4	77,343.4	310,033.2	20,469.0	6,574.2	2,091.7	658.8	611.0	9,078.5	3,770.8
Unknown species	742.2	668.4	--	--	--	--	--	--	--	--
Total, all species	9,912,536.4	164,406.9	2,811,924.1	75,085.3	49,694.8	4,556.8	53,871.7	5,198.8	396,295.0	33,708.3

Table A2-78--Number of live trees^a with damage on forest land, by species and type of damage, Oregon, 2001-2010 (Continued)

Species	Type of damage									
	Defoliators		Dwarf mistletoe		Leafy mistletoe		Foliage diseases		Stem decay	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand trees</i>										
Softwoods:										
Alaska yellow-cedar	--	--	--	--	--	--	--	--	5.5	5.7
California red fir	--	--	17.7	13.2	--	--	--	--	55.0	39.9
Douglas-fir	8,287.0	1,936.9	34,965.5	3,634.1	--	--	19,925.1	6,651.2	19,992.6	1,678.0
Engelmann spruce	988.6	885.8	486.1	443.7	--	--	178.4	117.4	173.5	72.0
Grand fir	20,770.6	7,304.2	2,812.4	1,544.7	--	--	4,526.3	2,534.9	4,643.4	773.5
Incense cedar	74.7	50.5	--	--	17.0	10.2	1,044.6	927.5	783.5	182.6
Knobcone pine	--	--	498.6	384.3	--	--	--	--	73.5	51.4
Lodgepole pine	2,061.2	944.2	344,306.0	37,735.7	--	--	2,151.9	961.5	4,938.2	912.3
Mountain hemlock	673.3	454.8	32,323.9	6,460.9	--	--	66.4	48.5	2,406.2	415.0
Noble fir	788.0	552.7	402.7	244.8	--	--	620.5	558.2	197.3	68.4
Pacific silver fir	1,762.2	1,051.4	12,112.7	3,473.9	--	--	1,724.0	1,363.6	1,809.8	507.3
Pacific yew	--	--	--	--	--	--	--	--	794.3	243.0
Ponderosa pine	8,916.2	3,078.5	94,630.8	11,509.2	--	--	3,547.5	899.4	2,825.2	719.9
Port-Orford cedar	36.0	37.3	6.3	6.1	--	--	--	--	155.9	70.4
Shasta red fir	181.1	147.2	886.2	513.6	--	--	477.8	471.6	767.4	200.6
Sitka spruce	130.0	122.5	--	--	--	--	34.7	36.4	211.5	86.1
Subalpine fir	733.4	351.2	3,594.7	1,443.3	--	--	1,070.5	795.9	1,204.8	289.1
Sugar pine	6.4	6.4	--	--	--	--	8.1	7.2	246.1	78.2
Western hemlock	237.5	121.2	50,740.8	7,559.7	--	--	1,115.1	714.3	8,140.4	1,045.3
Western juniper	962.3	379.9	--	--	469.1	179.5	19,787.8	4,427.4	5,723.8	971.9
Western larch	6,130.2	2,313.2	5,528.5	835.7	--	--	193.6	151.6	335.3	116.0
Western redcedar	--	--	--	--	--	--	--	--	4,639.0	877.2
Western white pine	44.6	45.2	41.0	36.1	--	--	70.4	50.0	886.5	460.4
White fir	5,990.8	2,638.0	17,227.6	3,946.9	--	--	389.8	287.5	3,426.0	475.4
Whitebark pine	34.9	35.1	--	--	--	--	34.9	35.1	155.2	85.9
Total	58,809.1	9,427.6	600,581.5	40,874.3	486.1	179.8	56,967.4	8,919.3	64,590.2	2,987.4
Hardwoods:										
Bigleaf maple	--	--	--	--	--	--	--	--	3,063.9	659.1
Bitter cherry	--	--	--	--	--	--	--	--	124.4	88.5
Black cottonwood	--	--	--	--	--	--	--	--	188.3	127.1
California black oak	1,648.1	1,187.0	--	--	--	--	--	--	1,553.0	329.6
California-laurel	--	--	--	--	--	--	--	--	2,099.8	805.0
Canyon live oak	4,205.8	3,210.2	--	--	--	--	--	--	2,649.1	798.0
Chokecherry	--	--	--	--	--	--	--	--	34.7	36.4
Mountain mahogany	--	--	--	--	--	--	--	--	423.9	150.8
Giant chinkapin	3,726.6	3,740.3	--	--	--	--	1,774.3	1,780.8	1,896.4	404.0
California black walnut	--	--	--	--	--	--	--	--	5.2	5.7
Oregon ash	--	--	--	--	--	--	--	--	387.1	199.9
Oregon crab apple	--	--	--	--	--	--	--	--	235.4	147.0
Oregon white oak	343.2	183.8	--	--	1,566.5	667.0	--	--	2,907.5	745.9
Pacific dogwood	--	--	--	--	--	--	37.4	37.8	37.9	36.9
Pacific madrone	4,484.7	3,471.3	--	--	--	--	463.8	278.7	7,045.6	1,000.0
Paper birch	--	--	--	--	--	--	--	--	35.7	35.5
Quaking aspen	--	--	--	--	--	--	--	--	569.0	232.3
Red alder	5,813.4	3,649.5	485.9	483.4	--	--	671.4	478.4	4,813.1	832.7
Tanoak	3,680.3	3,157.8	--	--	--	--	6,568.6	4,695.0	6,653.5	1,292.3
Willow spp.	--	--	--	--	--	--	--	--	33.3	34.3
Total	23,902.1	7,854.2	485.9	483.4	1,566.5	667.0	9,515.5	5,051.5	34,756.6	2,666.3
Total, all species	82,711.2	12,269.3	601,067.5	40,876.2	2,052.6	690.6	66,482.9	10,249.2	99,346.8	4,021.8

Table A2-78--Number of live trees^a with damage on forest land, by species and type of damage, Oregon, 2001-2010 (Continued)

Species	Type of damage							
	Other insects		Physical injury and defects		Root disease		Weather	
	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand trees</i>								
Softwoods:								
Alaska yellow-cedar	--	--	614.0	446.4	--	--	--	--
Bishop pine	--	--	41.2	38.2	--	--	--	--
California red fir	--	--	210.6	107.3	693.8	507.0	--	--
Douglas-fir	1,869.4	904.7	258,188.7	10,607.0	60,678.7	7,142.9	5,678.3	1,257.6
Engelmann spruce	2,847.8	1,689.5	14,286.4	2,684.8	2,563.5	1,210.3	1,471.9	990.3
Grand fir	2,797.9	1,750.2	92,968.3	9,209.1	36,875.6	7,244.6	5,361.8	2,056.5
Incense cedar	--	--	14,043.1	3,236.3	828.1	322.9	635.0	521.8
Jeffrey pine	--	--	348.8	161.4	--	--	--	--
Knobcone pine	--	--	2,776.3	1,402.6	--	--	--	--
Lodgepole pine	3,239.7	1,163.9	364,932.4	29,197.8	29,054.3	7,052.0	16,715.8	4,781.0
Mountain hemlock	143.0	87.8	44,375.1	5,749.1	36,044.9	8,489.1	11,935.9	3,124.3
Noble fir	--	--	4,255.3	1,238.3	3,736.0	1,531.3	869.0	873.5
Pacific silver fir	1,595.3	1,144.2	38,943.2	5,392.7	34,787.2	9,434.4	6,606.0	3,056.4
Pacific yew	--	--	11,227.4	2,762.5	651.1	606.3	64.3	48.8
Ponderosa pine	714.4	336.9	201,989.3	10,640.9	18,207.4	4,844.2	1,035.9	235.3
Port-Orford cedar	--	--	7,599.5	2,570.3	5,397.3	3,909.8	--	--
Redwood	--	--	136.2	138.7	--	--	--	--
Shasta red fir	493.6	469.7	11,904.5	2,806.9	15,243.7	8,518.6	2,252.1	1,186.3
Sitka spruce	318.1	215.5	4,293.4	993.1	602.5	504.7	--	--
Subalpine fir	2,289.5	1,809.1	63,894.3	9,699.5	12,058.3	5,799.1	9,807.6	5,073.0
Sugar pine	--	--	2,225.5	513.0	174.6	137.3	84.3	57.1
Western hemlock	47.9	43.2	69,123.4	5,786.2	33,973.5	7,324.9	4,257.7	1,579.5
Western juniper	46.8	37.3	24,913.5	2,494.5	32.3	35.1	337.0	193.8
Western larch	108.5	62.8	16,821.9	2,830.0	2,823.7	1,499.4	158.1	111.5
Western redcedar	104.3	79.1	21,508.4	3,615.5	2,492.7	1,668.3	669.8	457.9
Western white pine	--	--	8,695.7	1,820.4	2,528.4	986.6	476.0	438.2
White fir	539.0	495.2	62,555.0	6,165.3	42,557.8	7,828.1	5,379.5	1,503.7
Whitebark pine	--	--	7,291.9	2,212.0	6.4	6.4	4,156.3	2,689.5
Total	17,155.0	3,721.3	1,350,326.3	39,106.0	342,011.7	30,360.1	77,952.1	9,806.2
Hardwoods:								
Bigleaf maple	--	--	14,057.1	2,063.6	147.0	91.7	33.2	34.5
Bitter cherry	--	--	1,847.4	832.9	41.2	38.2	36.8	37.8
Black cottonwood	--	--	410.8	189.6	--	--	--	--
California black oak	--	--	13,399.1	2,708.2	54.1	45.7	448.7	464.9
California white oak	--	--	86.7	81.7	--	--	--	--
California-laurel	--	--	6,317.8	1,755.9	--	--	--	--
Canyon live oak	1,136.5	1,140.6	23,165.0	5,143.1	--	--	35.6	35.7
Cherry and plum Spp.	--	--	33.2	34.4	--	--	--	--
Chokecherry	--	--	520.8	434.4	--	--	--	--
Mountain mahogany	--	--	3,727.5	1,290.3	--	--	--	--
Giant chinkapin	--	--	14,024.6	2,555.7	604.8	464.4	35.6	35.7
Oregon ash	--	--	1,676.2	718.8	--	--	--	--
Oregon crab apple	--	--	235.4	147.0	--	--	37.0	37.8
Oregon white oak	721.4	583.8	25,706.6	6,738.4	--	--	--	--
Pacific dogwood	--	--	5,717.0	2,011.1	39.6	37.7	--	--
Pacific madrone	--	--	41,881.1	5,201.0	54.1	45.7	72.6	52.0
Paper birch	--	--	35.7	35.5	--	--	--	--
Quaking aspen	--	--	2,380.0	967.8	--	--	--	--
Red alder	34.7	36.4	26,784.9	3,151.8	569.2	343.3	183.3	83.1
Rocky Mtn. maple	--	--	2,056.6	1,074.9	69.8	70.1	--	--
Tanoak	35.5	35.6	59,933.7	11,215.7	--	--	854.8	533.3
White alder	--	--	72.4	52.0	--	--	--	--
Willow spp.	--	--	33.3	34.3	--	--	--	--
Total	1,928.1	1,282.4	244,102.7	17,194.5	1,579.9	641.3	1,737.7	720.4
Total, all species	19,083.1	3,956.6	1,594,429.0	42,655.3	343,591.6	30,393.5	79,689.7	9,826.1

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = fewer than 50 trees were estimated.

^aIncludes number of live trees >= 1 inch diameter at breast height with one or more types of damage recorded.

Table A2-79--Gross volume of live trees^a with damage on forest land, by species and type of damage, Oregon, 2001-2010

Species	Total gross volume ¹		Gross volume of live trees with damage ²		Type of damage					
	Total	SE	Total	SE	Animal		Bark beetle		Cankers	
					Total	SE	Total	SE	Total	SE
<i>Thousand cubic feet</i>										
Softwoods:										
Alaska yellow-cedar	17,740.5	9,980.0	14,418.8	8,961.7	3,650.4	3,386.1	--	--	--	--
Bishop pine	4,169.7	3,867.8	820.3	760.9	--	--	--	--	--	--
California red fir	117,399.6	46,657.9	52,254.1	29,306.5	--	--	--	--	14,630.4	11,267.1
Douglas-fir	54,834,602.2	1,115,479.6	14,970,808.8	473,911.7	150,668.5	25,893.1	189,211.5	36,992.8	441,082.7	49,143.3
Engelmann spruce	692,241.9	79,055.0	168,147.5	25,175.7	1,081.1	1,036.1	4,230.7	2,776.2	2,925.9	1,486.1
Grand fir	3,876,403.0	218,758.8	1,641,474.5	118,375.9	5,265.5	2,562.5	63,972.5	18,719.0	11,940.1	4,223.3
Incense cedar	939,087.2	87,145.0	357,539.3	43,772.6	1,941.0	1,205.8	355.1	356.1	3,170.3	1,999.1
Jeffrey pine	46,108.5	15,863.3	6,889.9	3,108.6	967.8	1,002.7	--	--	159.0	164.7
Knobcone pine	22,951.0	11,595.7	19,939.1	10,425.0	--	--	--	--	8,018.2	4,333.5
Lodgepole pine	2,728,115.7	145,449.3	1,880,686.0	103,417.2	18,245.8	4,459.9	203,110.2	27,544.5	608,575.9	46,073.9
Mountain hemlock	2,959,097.7	278,680.0	1,246,717.7	145,002.1	20,193.0	8,086.5	2,396.8	1,522.6	28,901.9	10,178.3
Noble fir	1,150,026.5	171,893.7	304,473.0	58,536.6	4,830.7	2,658.6	3,063.1	2,703.3	4,423.6	3,792.5
Pacific silver fir	1,859,198.7	202,677.1	866,911.0	113,138.4	5,625.5	4,453.7	21,957.5	16,988.8	19,495.1	12,548.1
Pacific yew	27,530.6	5,316.6	12,039.1	2,932.3	--	--	--	--	195.1	195.8
Ponderosa pine	9,113,075.9	268,502.7	3,937,018.2	146,106.3	121,021.5	18,841.8	282,711.7	31,829.6	131,661.4	20,414.2
Port-Orford cedar	190,668.5	42,530.8	92,676.8	25,749.2	3,485.3	2,396.3	189.0	189.7	979.6	645.6
Redwood	18,937.9	15,413.9	3,999.0	3,387.2	1,817.8	1,824.5	--	--	--	--
Shasta red fir	1,141,848.6	165,913.5	483,080.2	92,968.2	--	--	6,281.2	3,480.5	13,627.2	6,014.1
Sitka spruce	1,218,657.5	249,381.2	196,872.6	47,217.4	2,681.6	2,624.0	--	--	1,291.5	859.9
Subalpine fir	436,605.0	55,908.9	226,787.4	33,031.6	3,901.3	2,753.6	783.9	450.6	5,978.7	2,860.1
Sugar pine	815,271.2	90,575.3	323,945.3	44,910.6	6,176.2	6,194.6	13,931.5	9,532.2	19,517.6	8,337.5
Western hemlock	8,121,976.0	397,775.9	3,086,923.9	201,332.0	82,678.3	21,894.5	10,377.4	4,728.9	33,641.6	10,298.7
Western juniper	707,854.9	38,431.9	257,133.6	19,085.0	8,178.7	2,350.3	--	--	3,322.6	1,458.9
Western larch	794,935.6	77,235.9	399,157.3	44,853.9	77.3	77.7	18,666.7	10,687.2	10,413.1	4,986.5
Western redcedar	1,935,637.3	168,375.8	872,095.3	99,523.6	21,257.8	7,981.3	4,123.2	4,138.3	1,758.4	1,769.5
Western white pine	400,180.9	58,976.4	213,134.5	36,754.2	34.9	35.0	7,778.0	3,767.6	64,810.8	22,638.9
White fir	3,703,623.8	273,499.1	1,778,399.6	150,790.6	3,289.2	1,758.9	36,600.9	9,417.7	76,447.2	21,746.1
Whitebark pine	74,784.2	16,260.6	46,693.7	10,459.6	1,923.1	1,150.8	7,462.1	4,950.3	1,753.5	1,135.8
Total	97,950,600.6	1,321,458.0	33,462,491.9	661,891.5	469,678.0	43,698.3	877,203.1	65,315.4	1,508,721.6	85,909.3
Hardwoods:										
Bigleaf maple	1,394,680.4	107,375.6	333,745.5	40,023.5	5,675.0	4,735.7	--	--	9,384.3	7,525.4
Bitter cherry	29,130.1	5,681.4	4,722.6	1,831.4	49.1	46.5	174.1	161.5	--	--
Black cottonwood	128,684.8	32,845.2	21,363.3	8,957.2	6,537.2	4,540.6	--	--	--	--
Black Willow	178.0	184.4	--	--	--	--	--	--	--	--
California black oak	271,048.2	37,397.4	134,494.7	22,142.4	--	--	--	--	2,057.2	2,103.8
California white oak	396.9	374.0	396.9	374.0	--	--	--	--	--	--
California-laurel	130,082.7	33,483.2	60,623.9	19,182.4	678.6	504.7	--	--	706.4	731.8
Canyon live oak	151,917.7	24,754.1	63,804.4	15,685.7	--	--	--	--	--	--
Cherry and plum Spp.	4,790.9	2,407.3	199.9	207.0	--	--	--	--	--	--
Chokecherry	3,999.5	1,716.0	1,024.9	662.4	--	--	--	--	87.4	92.0
Mountain mahogany	67,024.1	12,372.0	8,835.0	2,082.7	381.4	272.2	--	--	--	--
Giant chinkapin	304,545.3	36,863.0	88,203.4	15,287.8	2,321.5	1,239.3	--	--	775.5	616.6
California black walnut	890.4	989.6	890.4	989.6	--	--	--	--	--	--
Oregon ash	145,815.2	53,598.6	36,156.1	22,030.4	719.2	680.3	--	--	--	--
Oregon crab apple	3,624.7	2,228.7	2,956.5	2,181.1	--	--	--	--	--	--
Oregon white oak	547,688.0	87,264.2	133,766.9	26,281.8	1,630.1	1,534.9	--	--	1,828.6	1,323.9
Pacific dogwood	6,362.1	1,435.5	3,485.0	1,109.9	--	--	--	--	--	--
Pacific madrone	1,089,948.2	89,223.1	458,393.9	47,069.2	2,991.2	2,613.6	--	--	7,594.5	4,335.6
Paper birch	75.1	74.6	75.1	74.6	--	--	--	--	--	--
Quaking aspen	38,056.1	14,852.5	15,533.5	6,364.0	--	--	--	--	4,819.4	2,967.5
Red alder	2,914,626.6	167,023.6	443,154.2	48,284.8	3,584.8	1,381.3	--	--	1,323.8	739.6
Rocky Mtn. maple	11,897.3	3,332.1	1,443.7	902.4	858.4	861.5	--	--	--	--
Tanoak	623,151.2	87,881.3	260,344.9	46,452.8	380.1	276.7	--	--	1,562.0	1,545.4
White alder	16,122.2	5,935.0	414.1	303.1	--	--	--	--	--	--
Willow spp.	1,568.1	1,003.2	320.8	246.7	256.2	237.6	--	--	--	--
Total	7,897,372.8	282,002.2	2,074,349.5	110,167.0	26,062.9	7,575.1	174.1	161.5	30,139.0	10,567.9
Unknown species	2,020.3	1,819.3	--	--	--	--	--	--	--	--
Total, all species	105,849,993.6	1,357,428.8	35,536,841.4	672,846.7	495,740.9	44,350.8	877,377.2	65,325.0	1,538,860.6	86,633.6

Table A2-79--Gross volume of live trees^a with damage on forest land, by species and type of damage, Oregon, 2001-2010 (Continued)

Species	Type of damage							
	Defoliators		Dwarf mistletoe		Leafy mistletoe		Foliage diseases	
	Total	SE	Total	SE	Total	SE	Total	SE
	<i>Thousand cubic feet</i>							
Softwoods:								
California red fir	--	--	7,290.8	5,541.5	--	--	--	--
Douglas-fir	133,613.6	29,378.5	1,424,933.4	142,132.0	--	--	210,338.4	45,791.5
Engelmann spruce	6,113.2	4,044.4	1,388.9	1,380.8	--	--	4,993.7	3,111.0
Grand fir	116,758.4	34,120.1	67,465.1	25,041.9	--	--	25,278.5	10,364.2
Incense cedar	2,537.5	1,647.3	--	--	4,655.8	3,399.4	3,255.0	2,009.3
Knobcone pine	--	--	7,169.7	6,635.0	--	--	--	--
Lodgepole pine	20,943.9	10,486.2	669,465.8	62,363.0	--	--	9,804.7	5,496.6
Mountain hemlock	8,786.4	4,333.5	372,269.2	76,214.5	--	--	189.9	159.0
Noble fir	6,329.4	4,519.2	27,622.4	14,319.5	--	--	--	--
Pacific silver fir	18,478.6	11,334.7	124,637.4	36,309.7	--	--	2,307.1	2,271.7
Ponderosa pine	130,605.0	37,318.5	776,451.6	71,986.0	--	--	77,599.5	19,809.6
Port-Orford cedar	110.3	114.3	1,947.1	1,898.0	--	--	--	--
Shasta red fir	4,101.3	2,911.2	36,911.6	26,142.2	--	--	--	--
Sitka spruce	1,682.2	1,585.1	--	--	--	--	40.1	42.2
Subalpine fir	13,486.7	7,957.2	11,672.0	6,254.0	--	--	9,904.3	7,532.8
Sugar pine	7,418.8	7,517.2	--	--	--	--	5,077.3	4,516.0
Western hemlock	4,881.4	3,042.4	1,071,925.8	133,869.1	--	--	7,164.8	3,944.5
Western juniper	5,616.1	2,501.6	--	--	3,276.8	1,207.7	55,466.2	8,423.2
Western larch	12,355.6	5,176.2	219,752.0	35,753.8	--	--	344.5	269.6
Western white pine	3,080.1	3,120.9	6,841.6	6,966.5	--	--	412.0	391.1
White fir	64,998.3	36,922.4	284,569.5	59,022.4	--	--	5,873.9	4,120.4
Whitebark pine	308.2	309.9	--	--	--	--	139.9	140.6
Total	562,205.1	83,564.1	5,112,314.0	249,983.7	7,932.6	3,607.6	418,189.8	55,589.9
Hardwoods:								
California black oak	1,623.7	1,682.2	--	--	--	--	--	--
Canyon live oak	472.2	473.9	--	--	--	--	--	--
Giant chinkapin	686.9	689.4	--	--	--	--	--	--
Oregon white oak	891.9	511.5	--	--	11,149.0	5,324.2	--	--
Pacific dogwood	--	--	--	--	--	--	209.6	211.5
Pacific madrone	4,745.5	3,462.0	--	--	--	--	2,620.4	1,334.1
Red alder	31,169.7	22,156.8	--	--	--	--	9,467.1	5,911.6
Tanoak	33.9	34.0	--	--	--	--	--	--
Total	39,623.7	22,534.4	--	--	11,149.0	5,324.2	12,297.1	6,063.9
Total, all species	601,828.9	86,547.1	5,112,314.0	249,983.7	19,081.6	6,428.2	430,486.8	55,917.6

Table A2-79--Gross volume of live trees^a with damage on forest land, by species and type of damage, Oregon, 2001-2010 (Continued)

Species	Type of damage									
	Stem decay		Other insects		Physical injury and defects		Root disease		Weather	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand cubic feet</i>										
Softwoods:										
Alaska yellow-cedar	949.7	986.2	--	--	13,469.1	8,907.3	--	--	--	--
Bishop pine	--	--	--	--	820.3	760.9	--	--	--	--
California red fir	9,684.5	6,305.6	--	--	15,862.2	10,895.8	32,989.8	25,492.9	--	--
Douglas-fir	3,276,220.3	208,361.9	32,559.9	13,580.9	9,465,366.7	328,067.6	2,348,975.5	250,805.4	125,884.7	20,719.3
Engelmann spruce	8,146.6	3,284.8	1,843.4	1,179.8	120,462.2	19,204.8	32,845.0	13,334.2	9,119.6	5,565.6
Grand fir	296,163.0	37,005.5	17,128.4	10,568.1	1,093,968.3	78,198.4	291,541.0	66,080.8	62,177.8	13,503.0
Incense cedar	87,714.0	18,477.2	--	--	298,727.8	41,321.9	16,956.6	6,144.5	534.4	462.5
Jeffrey pine	--	--	--	--	5,866.6	2,840.8	--	--	--	--
Knobcone pine	1,091.7	921.6	--	--	14,287.8	6,681.6	--	--	--	--
Lodgepole pine	68,275.1	13,485.6	4,618.9	2,617.9	996,602.8	63,516.9	106,276.0	22,341.6	11,920.0	3,308.4
Mountain hemlock	236,416.2	52,146.3	11,890.2	8,717.5	588,809.4	75,790.9	340,896.6	79,047.6	47,590.7	30,564.9
Noble fir	50,166.2	19,093.9	--	--	153,242.4	32,349.2	91,636.4	41,705.0	--	--
Pacific silver fir	71,072.3	20,222.8	4,814.4	2,330.7	512,179.1	70,845.7	290,562.0	78,243.5	13,153.1	7,939.3
Pacific yew	3,993.0	1,455.8	--	--	9,364.0	1,997.6	1,485.5	1,197.8	728.1	736.6
Ponderosa pine	192,352.4	22,746.9	11,783.6	5,694.5	2,839,970.5	113,091.7	219,538.2	46,291.3	28,186.6	6,549.6
Port-Orford cedar	8,331.5	3,465.2	--	--	87,936.8	25,436.6	4,587.5	4,155.8	--	--
Redwood	--	--	--	--	3,999.0	3,387.2	--	--	--	--
Shasta red fir	102,442.7	27,891.8	--	--	253,339.6	45,618.5	167,980.1	68,295.0	12,311.8	6,712.4
Sitka spruce	20,248.5	8,851.3	3,183.6	3,109.7	150,147.1	37,098.2	25,712.8	23,097.8	--	--
Subalpine fir	23,257.7	6,246.2	4,184.2	2,547.2	186,116.0	29,744.1	20,835.2	7,192.4	9,198.1	5,400.0
Sugar pine	72,691.4	18,285.4	--	--	274,838.6	40,718.3	15,168.8	8,583.0	1,695.9	1,584.4
Western hemlock	606,421.8	66,411.5	7,794.4	7,019.2	1,749,068.0	124,589.7	483,122.7	81,233.5	38,191.6	13,506.3
Western juniper	69,251.4	9,161.0	587.7	466.5	168,235.5	14,389.1	256.8	279.6	4,219.1	1,984.2
Western larch	28,058.0	10,351.5	293.0	237.0	225,770.2	30,691.7	26,836.4	12,418.3	5,651.3	2,543.3
Western redcedar	377,196.9	57,926.2	4,637.6	3,373.4	730,854.2	90,699.1	27,488.9	11,681.8	8,509.2	5,894.7
Western white pine	32,266.5	9,777.5	--	--	156,443.2	27,897.1	33,581.3	18,398.3	1,984.8	1,937.4
White fir	349,738.7	53,529.6	309.5	214.5	962,979.2	87,256.7	515,525.2	83,367.9	39,517.3	14,532.0
Whitebark pine	3,724.6	2,053.5	--	--	37,463.1	8,934.4	1,142.8	1,158.0	1,723.4	1,117.1
Total	5,995,874.8	261,802.9	105,628.9	22,639.3	21,117,645.5	458,684.1	5,095,941.1	387,595.1	422,297.2	48,805.7
Hardwoods:										
Bigleaf maple	131,107.0	25,336.6	--	--	251,132.3	34,559.9	1,391.6	888.7	496.2	515.3
Bitter cherry	2,292.2	1,608.7	--	--	2,594.7	1,025.2	171.4	159.0	203.9	209.5
Black cottonwood	6,538.4	5,440.3	--	--	14,826.1	5,820.1	--	--	--	--
California black oak	68,072.2	16,210.6	--	--	102,353.0	16,837.7	201.1	169.7	--	--
California white oak	--	--	--	--	396.9	374.0	--	--	--	--
California-laurel	19,151.2	7,727.3	--	--	46,131.0	15,282.2	--	--	--	--
Canyon live oak	31,189.2	13,527.9	497.7	499.5	55,069.4	14,381.6	--	--	122.0	122.4
Cherry and plum Spp.	--	--	--	--	199.9	207.0	--	--	--	--
Chokecherry	150.4	158.1	--	--	787.0	636.7	--	--	--	--
Mountain mahogany	996.0	402.4	--	--	7,508.8	2,021.7	--	--	--	--
Giant chinkapin	27,824.4	8,060.6	--	--	70,310.3	13,616.3	1,240.1	1,046.5	99.9	100.3
California black walnut	890.4	989.6	--	--	--	--	--	--	--	--
Oregon ash	18,501.2	14,448.2	--	--	17,320.4	7,908.9	--	--	--	--
Oregon crab apple	2,737.6	2,169.6	--	--	2,909.2	2,180.6	--	--	218.9	223.8
Oregon white oak	48,021.4	11,795.7	47.8	48.3	86,034.1	22,896.8	--	--	--	--
Pacific dogwood	52.0	50.7	--	--	3,210.9	1,087.9	64.5	61.4	--	--
Pacific madrone	151,069.4	22,938.7	--	--	383,092.2	43,498.2	212.5	179.3	905.7	701.0
Paper birch	75.1	74.6	--	--	75.1	74.6	--	--	--	--
Quaking aspen	10,344.0	5,568.3	--	--	3,666.3	1,874.6	--	--	--	--
Red alder	101,347.0	16,923.0	115.6	121.5	353,942.8	39,490.8	7,024.1	4,203.5	1,596.9	792.8
Rocky Mtn. maple	--	--	--	--	1,247.6	880.6	196.1	197.1	--	--
Tanoak	104,798.1	25,315.0	210.1	210.8	218,888.5	41,171.7	--	--	3,742.4	2,892.7
White alder	--	--	--	--	414.1	303.1	--	--	--	--
Willow spp.	64.6	66.4	--	--	64.6	66.4	--	--	--	--
Total	725,221.8	59,055.6	871.2	557.7	1,622,175.2	94,068.1	10,501.3	4,909.3	7,385.9	3,140.0
Total, all species	6,721,096.5	272,220.4	106,500.2	22,647.1	22,739,820.7	472,150.9	5,106,442.3	387,968.4	429,683.1	48,917.6

Note: Totals may be off because of rounding; data subject to sampling error; SE = standard error; -- = less than 50 cubic feet was estimated.

^aIncludes gross volume of live trees >= 5 inches diameter at breast height with one or more damages recorded. Gross volume includes rotten, missing, and form cull volume.

Table A2-80--Area of forest land with more than 25 percent of basal area damaged, by forest type and type of damage, Oregon, 2001-2010

Forest type	Total forest land		Forest land with damage		Type of damage					
	Total	SE	Total	SE	Animal		Bark beetle		Cankers	
					Total	SE	Total	SE	Total	SE
<i>Thousand acres</i>										
Softwoods:										
Douglas-fir	10,830	168	4,057	132	41	15	39	15	48	15
Engelmann spruce / subalpine fir	191	33	141	28	--	--	--	--	--	--
Engelmann spruce	118	26	72	20	--	--	6	6	--	--
Grand fir	956	70	750	62	1	1	31	13	7	7
Incense-cedar	81	21	45	15	--	--	6	6	--	--
Jeffrey pine	33	14	16	9	--	--	--	--	--	--
Juniper woodland	20	11	--	--	--	--	--	--	--	--
Lodgepole pine	2,025	99	1,737	92	9	7	101	24	672	60
Misc. western softwoods	5	2	1	1	--	--	--	--	--	--
Mountain hemlock	561	55	392	46	--	--	--	--	--	--
Noble fir	136	27	56	18	--	--	--	--	--	--
Pacific silver fir	287	40	215	34	--	--	--	--	6	6
Ponderosa pine	5,003	139	3,328	121	63	18	164	30	124	27
Port-Orford-cedar	25	10	10	6	--	--	--	--	--	--
Red fir	187	32	123	26	--	--	--	--	--	--
Redwood	5	5	--	--	--	--	--	--	--	--
Sitka spruce	111	25	39	15	--	--	--	--	--	--
Subalpine fir	132	26	99	23	--	--	--	--	--	--
Sugar pine	53	17	36	14	--	--	--	--	--	--
Western hemlock	712	60	374	44	--	--	--	--	10	7
Western juniper	2,767	113	1,311	83	35	15	7	7	6	6
Western larch	197	32	142	28	--	--	--	--	6	6
Western redcedar	110	24	70	19	4	4	--	--	--	--
Western white pine	28	12	18	10	--	--	--	--	18	10
White fir	1,112	77	814	67	6	6	7	6	12	9
Whitebark pine	36	15	23	11	--	--	6	6	--	--
Total	25,721	190	13,872	197	157	29	367	45	910	70
Hardwoods:										
Aspen	48	16	38	14	--	--	--	--	19	9
Bigleaf maple	205	32	55	15	7	6	--	--	--	--
California black oak	124	26	69	20	--	--	--	--	5	6
California laurel	74	20	38	15	--	--	--	--	--	--
Canyon live oak	138	27	97	23	--	--	--	--	5	5
Cottonwood	27	12	12	9	8	7	--	--	--	--
Cottonwood / willow	11	8	5	5	--	--	--	--	--	--
Giant chinkapin	103	24	49	16	--	--	--	--	10	8
Intermountain maple	30	13	10	7	--	--	--	--	--	--
Mountain brush woodland	137	28	44	16	--	--	--	--	--	--
Oregon ash	37	13	4	4	--	--	--	--	--	--
Oregon white oak	529	54	276	39	--	--	--	--	4	4
Pacific madrone	298	41	159	30	--	--	--	--	--	--
Red alder	956	66	269	37	6	4	--	--	--	--
Tanoak	425	47	216	34	--	--	6	6	--	--
Other hardwoods	133	26	75	20	7	5	--	--	4	4
Total	3,274	119	1,416	83	28	12	6	6	49	16
Nonstocked	989	72	245	36	7	5	21	10	7	4
Total	29,984	157	15,534	204	192	32	395	47	966	72

Table A2-80--Area of forest land with more than 25 percent of basal area damaged, by forest type and type of damage, Oregon, 2001-2010 (Continued)

Forest type	Type of damage									
	Defoliators		Dwarf mistletoe		Leafy mistletoe		Foliar pathogen		Stem decay	
	Total	SE	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand acres</i>										
Softwoods:										
Douglas-fir	31	13	455	49	--	--	77	21	338	43
Engelmann spruce / subalpine fir	--	--	6	6	--	--	--	--	4	4
Engelmann spruce	--	--	--	--	--	--	--	--	--	--
Grand fir	33	14	47	16	--	--	6	6	33	13
Incense-cedar	--	--	--	--	--	--	--	--	--	--
Jeffrey pine	--	--	--	--	--	--	--	--	--	--
Juniper woodland	--	--	--	--	--	--	--	--	--	--
Lodgepole pine	--	--	722	61	--	--	12	8	27	12
Misc. western softwoods	--	--	1	1	--	--	--	--	--	--
Mountain hemlock	6	6	120	26	--	--	--	--	24	11
Noble fir	6	6	7	6	--	--	--	--	--	--
Pacific silver fir	--	--	42	15	--	--	2	1	8	6
Ponderosa pine	89	22	796	65	--	--	47	16	57	17
Port-Orford-cedar	1	1	--	--	--	--	--	--	1	1
Red fir	--	--	23	12	--	--	--	--	7	6
Redwood	--	--	--	--	--	--	--	--	--	--
Sitka spruce	--	--	--	--	--	--	--	--	--	--
Subalpine fir	--	--	--	--	--	--	4	4	4	4
Sugar pine	--	--	--	--	--	--	--	--	--	--
Western hemlock	--	--	116	25	--	--	--	--	30	12
Western juniper	35	15	15	9	9	7	243	38	317	43
Western larch	--	--	59	18	--	--	--	--	10	7
Western redcedar	--	--	16	9	--	--	--	--	--	--
Western white pine	--	--	--	--	--	--	--	--	4	4
White fir	31	13	103	24	--	--	--	--	65	19
Whitebark pine	--	--	--	--	--	--	--	--	--	--
Total	231	36	2,528	110	9	7	390	47	929	71
Hardwoods:										
Aspen	--	--	--	--	--	--	--	--	2	2
Bigleaf maple	--	--	3	3	--	--	6	6	13	7
California black oak	--	--	--	--	--	--	--	--	11	8
California laurel	--	--	--	--	--	--	--	--	--	--
Canyon live oak	3	3	11	8	--	--	--	--	14	8
Cottonwood	--	--	--	--	--	--	--	--	8	7
Cottonwood / willow	--	--	--	--	--	--	--	--	--	--
Giant chinkapin	4	4	2	2	--	--	--	--	4	4
Intermountain maple	--	--	--	--	--	--	--	--	--	--
Mountain brush woodland	--	--	6	6	--	--	6	6	--	--
Oregon ash	--	--	--	--	--	--	--	--	4	4
Oregon white oak	--	--	--	--	11	7	--	--	28	12
Pacific madrone	--	--	--	--	--	--	--	--	29	13
Red alder	14	9	16	10	--	--	4	4	21	10
Tanoak	6	6	7	6	--	--	--	--	45	16
Other hardwoods	--	--	10	8	--	--	6	5	--	--
Total	27	12	55	17	11	7	22	11	179	30
Nonstocked	3	3	31	13	--	--	--	--	12	8
Total	261	38	2,613	112	20	10	412	49	1,120	77

Table A2-80--Area of forest land with more than 25 percent of basal area damaged, by forest type and type of damage, Oregon, 2001-2010 (Continued)

Forest type	Type of damage							
	Other insects		Physical injury and defects		Root disease		Weather	
	Total	SE	Total	SE	Total	SE	Total	SE
<i>Thousand acres</i>								
Softwoods:								
Douglas-fir	5	5	2,552	110	448	49	10	7
Engelmann spruce / subalpine fir	--	--	123	26	12	8	--	--
Engelmann spruce	--	--	48	16	17	9	--	--
Grand fir	8	7	564	55	108	25	2	2
Incense-cedar	--	--	29	13	3	2	6	6
Jeffrey pine	--	--	10	7	--	--	--	--
Juniper woodland	--	--	--	--	--	--	--	--
Lodgepole pine	2	2	1,127	76	45	16	5	5
Misc. western softwoods	--	--	1	1	--	--	--	--
Mountain hemlock	2	2	190	32	126	27	13	8
Noble fir	--	--	25	12	17	10	--	--
Pacific silver fir	--	--	138	28	58	18	--	--
Ponderosa pine	10	7	2,291	105	123	27	--	--
Port-Orford-cedar	--	--	10	6	--	--	--	--
Red fir	--	--	66	19	35	14	--	--
Redwood	--	--	--	--	--	--	--	--
Sitka spruce	--	--	22	11	11	9	--	--
Subalpine fir	--	--	94	22	16	9	15	9
Sugar pine	--	--	18	10	--	--	--	--
Western hemlock	--	--	212	33	49	16	--	--
Western juniper	--	--	914	70	--	--	6	6
Western larch	--	--	100	23	6	6	--	--
Western redcedar	--	--	52	17	1	1	--	--
Western white pine	--	--	18	10	6	6	--	--
White fir	--	--	443	50	187	33	4	4
Whitebark pine	--	--	17	9	--	--	7	6
Total	26	12	9,065	184	1,268	82	67	19
Hardwoods:								
Aspen	--	--	12	9	--	--	--	--
Bigleaf maple	--	--	42	13	--	--	--	--
California black oak	--	--	50	16	--	--	--	--
California laurel	--	--	29	13	--	--	--	--
Canyon live oak	3	3	71	19	--	--	--	--
Cottonwood	--	--	8	7	--	--	--	--
Cottonwood / willow	--	--	5	5	--	--	--	--
Giant chinkapin	--	--	32	13	--	--	--	--
Intermountain maple	--	--	6	6	--	--	--	--
Mountain brush woodland	--	--	27	12	--	--	--	--
Oregon ash	--	--	--	--	--	--	--	--
Oregon white oak	3	3	191	33	--	--	--	--
Pacific madrone	--	--	136	28	--	--	--	--
Red alder	--	--	195	31	9	7	--	--
Tanoak	--	--	191	32	--	--	--	--
Other hardwoods	--	--	62	19	3	3	--	--
Total	6	4	1,057	73	12	7	--	--
Nonstocked	3	3	220	34	6	6	6	6
Total	35	13	10,343	193	1,286	83	73	20

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

Table A2-81--Percent of forested plots with selected lichen non-timber forest products present, by species, Oregon 2001-2005

Scientific name	Common name	Percent
<i>Alectoria sarmentosa</i>	Witch's hair lichen	34.25
<i>Bryoria fremontii</i>	Old man's beard	34.25
<i>Letharia vulpina</i>	Wolf lichen	56.85
<i>Lobaria pulmonaria</i>	Lungwort	16.44
<i>Parmelia saxatilis</i>	Crottle	2.05
<i>Usnea</i>	Beard lichens	56.51
<i>Usnea hirta</i>	Beard lichen	0.34
<i>Vulpicida canadensis</i>	Brown-eyed sunshine lichen	20.21

Note: Data subject to sampling error; 292 forested plots were sampled.

Table A2-82--Estimated mean crown density and other statistics for live trees^a on forest land, by species group, Oregon, 2001-2010

Species group	Plots	Trees	Crown density		
			Mean	Minimum	Maximum
	----- Number -----		----- Percent -----		
Softwoods:					
Douglas-fir	172	2144	41.9	5	95
Engelmann and other spruces	10	49	44.5	10	80
Incense-cedar	17	56	43.4	20	95
Lodgepole pine	50	550	35.2	5	85
Ponderosa and Jeffrey pines	85	778	35.1	5	95
Sitka spruce	8	84	43.9	10	75
Sugar pine	8	30	33.5	5	60
True fir	82	814	42.0	5	99
Western hemlock	54	402	42.4	5	90
Western larch	11	26	40.8	5	75
Western redcedar	15	49	34.2	10	65
Western white pine	9	14	39.3	10	70
Other western softwoods	67	520	40.6	5	85
Total	588	5516			
Hardwoods:					
Cottonwood and aspen	2	13	38.8	25	55
Oak	23	136	35.0	0	80
Red alder	39	314	38.1	0	80
Woodland hardwoods	7	25	24.4	5	70
Other western hardwoods	56	356	35.1	0	80
Total	127	844			
All species	715	6360			

Note: Data subject to sampling error.

^a Includes all live trees \geq 5 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-83--Estimated mean foliage transparency and other statistics for live trees^a on forest land, by species group, Oregon, 2001-2010

Species group	Plots	Trees	Foliage transparency		
			Mean	Minimum	Maximum
	----- Number -----		----- Percent -----		
Softwoods:					
Douglas-fir	172	2144	21.4	0	85
Engelmann and other spruces	10	49	14.1	5	25
Incense-cedar	17	56	17.5	10	80
Lodgepole pine	50	550	22.1	5	90
Ponderosa and Jeffrey pines	85	778	23.8	0	90
Sitka spruce	8	84	16.7	10	40
Sugar pine	8	30	20.7	10	40
True fir	82	814	16.9	5	90
Western hemlock	54	402	18.3	10	60
Western larch	11	26	23.1	15	40
Western redcedar	15	49	22.7	15	50
Western white pine	9	14	20.0	10	45
Other western softwoods	67	520	16.2	5	75
Total	588	5516			
Hardwoods:					
Cottonwood and aspen	2	13	17.7	5	25
Oak	23	136	25.7	15	99
Red alder	39	314	30.9	5	99
Woodland hardwoods	7	25	35.6	10	75
Other western hardwoods	56	356	26.6	5	99
Total	127	844			
All species	715	6360			

Note: Data subject to sampling error.

^a Includes all live trees ≥ 5 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-84--Estimated mean crown dieback and other statistics for live trees^a on forest land, by species group, Oregon, 2001-2010

Species group	Plots	Trees	Crown dieback		
			Mean	Minimum	Maximum
	----- Number -----		----- Percent -----		
Softwoods:					
Douglas-fir	172	2144	1.1	0	95
Engelmann and other spruces	10	49	1.2	0	30
Incense-cedar	17	56	1.7	0	20
Lodgepole pine	50	550	2.7	0	80
Ponderosa and Jeffrey pines	85	778	1.8	0	60
Sitka spruce	8	84	1.0	0	20
Sugar pine	8	30	2.0	0	20
True fir	82	814	2.3	0	95
Western hemlock	54	402	0.8	0	95
Western larch	11	26	5.0	0	95
Western redcedar	15	49	0.1	0	5
Western white pine	9	14	1.8	0	15
Other western softwoods	67	520	2.6	0	90
Total	588	5516			
Hardwoods:					
Cottonwood and aspen	2	13	1.2	0	5
Oak	23	136	3.1	0	95
Red alder	39	314	3.1	0	99
Woodland hardwoods	7	25	14.6	0	95
Other western hardwoods	56	356	3.9	0	99
Total	127	844			
All species	715	6360			

Note: Data subject to sampling error.

^a Includes all live trees >= 5 inches in diameter at breast height, consisting of growing stock, rough cull, and rotten cull tree classes.

Table A2-85--Mean cover of understory vegetation, by forest type group and lifeform , Oregon 2001-2010

Forest type group	Lifeform											
	Seedlings and saplings		Shrubs		Forbs		Graminoids		All understory plants		Bare soil	
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
	Percent											
Softwoods:												
Douglas-fir	4.0	0.1	37.0	0.6	19.8	0.4	5.3	0.2	59.4	0.6	2.3	0.1
Fir / spruce / mountain hemlock	6.7	0.3	20.3	0.8	13.8	0.6	8.0	0.5	43.3	1.0	3.7	0.3
Hemlock / Sitka spruce	4.0	0.4	31.2	1.8	22.2	1.4	1.3	0.4	52.6	1.9	1.2	0.2
Lodgepole pine	8.3	0.5	17.0	1.0	5.0	0.5	8.6	0.6	35.4	1.2	9.5	0.7
Other western softwoods	1.3	0.1	9.8	0.5	5.5	0.3	20.5	0.8	34.5	0.9	17.8	0.8
Pinyon / juniper	0.7	0.2	8.9	1.8	2.4	0.7	24.5	6.2	35.6	5.7	7.7	2.4
Ponderosa pine	2.8	0.1	14.6	0.5	8.7	0.3	20.0	0.6	41.8	0.7	6.0	0.3
Redwood	2.0	2.0	58.0	58.0	8.0	8.0	--	--	68.0	68.0	6.0	6.0
Western larch	8.1	1.1	25.3	3.3	18.7	3.1	--	3.2	65.1	3.3	4.4	1.3
Western white pine	4.0	1.7	31.4	9.9	13.4	3.7	15.0	11.6	62.4	10.4	12.8	5.9
Total	4.2	0.1	25.2	0.3	14.0	0.2	10.6	0.2	48.7	0.4	5.5	0.1
Hardwoods:												
Alder / maple	2.1	0.2	47.1	1.6	39.4	1.6	5.5	0.6	78.1	1.3	1.5	0.2
Aspen / birch	9.0	2.8	26.4	8.6	29.3	6.7	18.4	4.1	67.8	7.8	2.1	0.5
Elm / ash / cottonwood	3.5	1.5	46.6	4.2	14.4	3.5	28.3	5.8	82.6	3.5	2.0	1.0
Other hardwoods	6.5	0.7	33.1	2.6	12.4	1.7	9.4	1.4	54.4	3.3	2.7	0.6
Tanoak / laurel	14.6	1.6	27.4	2.2	10.9	1.4	2.3	0.7	51.7	2.6	4.8	0.9
Western oak	6.1	0.8	24.4	1.8	8.5	0.9	22.9	1.9	57.1	2.2	4.4	0.8
Woodland hardwoods	4.3	1.0	17.7	3.3	9.7	1.6	18.3	2.7	45.6	4.4	6.1	1.4
Total	6.2	0.4	34.4	1.0	21.0	0.9	11.0	0.7	63.4	1.1	3.2	0.3
Nonstocked	1.3	0.2	17.7	1.5	12.2	1.0	20.1	1.6	48.2	2.0	10.2	0.9
All forest types	4.3	0.1	26.0	0.3	14.7	0.2	10.9	0.2	50.3	0.3	5.4	0.1

Note: Data subject to sampling error; SE = standard error.

Table A2-86--Mean cover of understory vegetation by forest type class, age class group, and lifeform, Oregon 2001-2010

Forest type class ^a and age class	Lifeform											
	Seedlings and saplings		Shrubs		Forbs		Graminoids		All understory plants		Bare soil	
	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
	Percent											
Dry conifer												
0-19	4.0	0.5	18.0	1.1	11.0	0.7	19.4	1.2	48.2	1.5	11.3	0.8
20-39	4.9	0.5	21.1	1.7	6.8	0.8	16.4	1.5	43.5	2.1	10.1	1.0
40-79	3.2	0.2	13.7	0.6	5.9	0.3	16.8	0.7	36.4	0.8	10.5	0.5
80-159	3.0	0.2	11.7	0.5	8.3	0.4	19.3	0.7	38.8	0.9	8.2	0.5
160+	2.3	0.3	13.7	1.2	5.6	0.7	16.5	1.4	35.2	1.8	14.7	1.6
All ages	3.3	0.1	14.1	0.4	7.5	0.2	18.0	0.4	39.4	0.5	10.0	0.3
Wet conifer												
0-19	5.0	0.3	36.2	1.3	21.3	0.9	8.1	0.6	63.1	1.4	3.8	0.4
20-39	3.7	0.3	37.7	1.1	19.0	0.8	3.0	0.3	57.5	1.1	1.8	0.2
40-79	3.5	0.2	32.7	0.9	20.8	0.8	5.3	0.4	56.5	1.0	2.3	0.2
80-159	4.9	0.2	29.3	0.9	17.8	0.6	8.9	0.5	53.7	0.9	2.6	0.2
160+	6.8	0.3	30.5	1.1	13.9	0.7	2.7	0.3	48.4	1.2	2.5	0.3
All ages	4.7	0.1	32.6	0.5	18.5	0.3	5.9	0.2	55.3	0.5	2.6	0.1
Dry hardwood												
0-19	19.8	2.4	27.5	3.0	10.3	1.7	7.1	1.9	60.3	3.5	8.0	1.8
20-39	10.2	2.3	36.1	3.7	15.6	2.8	9.7	2.6	62.9	3.9	2.5	0.9
40-79	6.5	0.7	27.0	1.8	9.6	1.0	12.6	1.4	52.0	2.2	3.4	0.7
80-159	5.0	0.5	22.7	2.1	9.1	1.2	19.0	2.1	50.3	2.6	3.7	0.6
160+	6.9	1.0	26.4	6.3	8.8	4.3	9.6	7.5	49.9	8.5	8.3	4.2
All ages	8.6	0.6	26.7	1.2	10.2	0.7	13.3	1.0	53.9	1.4	4.3	0.5
Wet hardwood												
0-19	5.7	1.0	46.4	3.4	23.5	2.5	13.1	2.4	78.1	2.4	1.6	0.4
20-39	1.8	0.3	44.7	2.9	37.9	2.7	5.1	1.2	75.7	2.4	1.4	0.3
40-79	1.5	0.3	45.9	2.3	42.5	2.5	5.4	0.9	79.1	1.8	1.5	0.3
80-159	2.0	0.5	51.1	4.5	44.4	5.4	9.3	3.0	77.4	5.2	2.2	0.6
160+	0.7	0.3	52.1	4.6	32.5	6.3	11.5	7.4	85.4	3.0	1.3	0.6
All ages	2.4	0.3	46.4	1.5	37.6	1.5	7.3	0.8	78.0	1.2	1.6	0.2
All forest type classes												
0-19	5.8	0.4	29.1	0.9	16.6	0.6	12.6	0.6	58.0	1.0	6.9	0.4
20-39	4.1	0.3	34.9	0.9	18.1	0.7	6.3	0.5	56.6	0.9	3.5	0.3
40-79	3.5	0.1	24.8	0.6	14.6	0.4	10.9	0.4	48.8	0.6	5.9	0.3
80-159	4.1	0.1	21.7	0.5	13.6	0.4	14.0	0.4	47.4	0.6	5.1	0.2
160+	5.7	0.3	27.0	0.9	12.2	0.6	6.0	0.5	45.9	1.0	5.3	0.5
All ages	4.3	0.1	26.0	0.3	14.7	0.2	10.9	0.2	50.3	0.3	5.4	0.1

Note: Data subject to sampling error; SE = standard error.

^a Dry conifer includes the pinyon/juniper; ponderosa, western white, and lodgepole pines; other softwoods, mixed conifer, and nonstocked forest type groups. Wet conifer includes the Douglas-fir, fir /spruce/mountain hemlock, hemlock/Sitka spruce, and redwood forest type groups. Dry hardwood includes the western oak, tanoak/laurel, other hardwoods, and exotic forest type groups. Wet hardwood includes the elm/ash/cottonwood, aspen/birch, and alder/maple forest type groups.

Table A2-87--Summary of Forest Inventory and Analysis plots sampled for lichen community, air quality index information, western Pacific Northwest (PNW) and western Oregon, 1998-2001, 2003

Parameter	Western PNW	Western Oregon	Klamath Mountains	Coast Ranges	Southern Cascades	Western Cascades	Willamette Valley	Eastern Cascades
Number of plots surveyed ^a	243	140	39	38	6	34	15	8
Number of plots by air quality index category ^b :								
Best: -1.4 to -0.11	111	65	18	15	3	22	0	7
Good: -0.11 to 0.02	26	14	3	4	0	3	0	0
Fair: 0.02 to 0.21	40	25	11	9	0	5	4	0
Degraded: 0.21 to 0.35	21	13	3	7	0	1	1	1
Poor: 0.35 to 0.49	13	8	1	2	1	2	2	0
Worst: 0.49 to 2.00	32	15	3	1	2	1	8	0
Air quality score extremes								
	-1.28 to 1.59	-1.28 to 1.02	-1.28 to 1.02	-0.71 to 0.91	-0.65 to 0.79	-0.77 to 0.97	0.00 to 0.87	-0.57 to 0.32
Average Score on air quality index	-0.06	-0.05	-0.11	-0.03	0.13	-0.23	0.48	-0.33
Standard deviation on air quality index	0.49	0.43	0.43	0.33	0.58	0.38	0.31	0.3

^a Plot totals do not include quality assurance surveys or plots without lichens present.

^b Categories are based on the analysis of Geiser and Neitlich (2007).

Table A2-88--Summary of Forest Inventory and Analysis plots sampled for lichen community, climate index information, western Pacific Northwest (PNW) and western Oregon, 1998–2001, 2003

Parameter	Western PNW	Western Oregon	Klamath Mountains	Coast Ranges	Southern Cascades	Western Cascades	Willamette Valley	Eastern Cascades
Number of Plots Surveyed ^a	243	140	39	38	6	34	15	8
Number of Plots by Climate Index Category ^b :								
Maritime (warmest): -1.4 to -0.25	73	32	5	21	0	3	3	0
Lowland: -0.25 to 0.23	54	29	4	10	0	6	9	0
Montane: 0.23 to 0.66	57	38	13	7	3	9	3	3
High elevation (coolest): 0.66 to 1.73	59	41	17	0	3	16	0	5
Climate Index Extremes	-1.41 to 1.73	-1.21 to 1.73	-1.12 to 1.11	-1.21 to 0.55	0.49 to 1.73	-0.46 to 1.56	-0.48 to 0.32	0.40 to 1.50
Average Score on Climate Index	0.14	0.27	0.46	-0.30	0.88	0.58	-0.08	0.86
Standard Deviation on Climate Index	0.64	0.63	0.54	0.51	0.46	0.49	0.25	0.43

^a Plot totals do not include quality assurance surveys or plots without lichens present.

^b Categories are based on the analysis of Geiser and Neitlich (2007).

Table A2-89--Ozone injury summary information from ozone biomonitoring plots, by year, Oregon, 2000-2009

Ozone biomonitoring plots	Year of monitoring										All years
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	
Number of plots	20	22	34	37	38	35	35	35	35	35	326
Number of plots with injury	0	0	0	0	0	0	0	0	0	0	0
Number of plots by biosite index category ^a (percentage of plots):											
0 to 4.9 (least injured)	100	100	100	100	100	100	100	100	100	100	100
5.0 to 14.9	0	0	0	0	0	0	0	0	0	0	0
15 to 24.9	0	0	0	0	0	0	0	0	0	0	0
>= 25 (most injured)	0	0	0	0	0	0	0	0	0	0	0
Average biosite index score	0	0	0	0	0	0	0	0	0	0	0
Average number of species per plot	1.7	1.6	2.8	2.8	2.8	2.7	2.7	2.7	2.8	3.0	2.6
Number of plants evaluated	964	992	2746	3057	3145	2845	2790	2774	2918	3149	25380
Number of plants injured	0	0	0	0	0	0	0	0	0	0	0
Number of plants evaluated by species:											
Blue elderberry	60	60	53	53	74	67	98	77	40	42	624
Huckleberry	60	112	90	90	90	90	90	120	120	150	1012
Jeffrey pine	30	0	30	30	30	30	30	30	30	30	270
Mountain snowberry	150	180	720	780	760	786	780	750	789	810	6505
Mugwort	0	0	0	0	0	0	0	0	30	30	60
Ponderosa pine	351	330	690	690	690	686	681	684	660	660	6122
Quaking aspen	90	90	420	420	420	420	390	420	420	420	3510
Red alder	132	138	198	217	215	215	254	210	240	240	2059
Red elderberry	45	41	90	120	120	120	107	143	113	112	1011
Scouler's willow	46	41	455	505	499	431	360	340	476	505	3658
Spreading dogbane	0	0	0	0	0	0	0	0	0	150	150

^aThe biosite index is based on the average injury score (amount x severity) for each species averaged across all species on the plot. Biosite categories represent a relative measure of tree-level response to ambient ozone exposure.