

# Timber Resource Statistics For Western Oregon, 1997

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## **Abstract**

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This report is a summary of timber resource statistics for western Oregon, which includes Benton, Clackamas, Clatsop, Columbia, Coos, Curry, Douglas, Hood River, Jackson, Josephine, Lane, Lincoln, Linn, Marion, Multnomah, Polk, Tillamook, Washington, and Yamhill Counties. Data were collected as part of a statewide multiresource inventory. The inventory sampled all private and public lands except those administered by the National Forest System and the Bureau of Land Management (BLM). The National Forest System and BLM provided data from regional inventories. Area information for parks and other reserves was obtained directly from the organizations managing these areas. Statistical tables provide estimates of land area, timber volume, growth, mortality, and harvest for individual survey units and at the half-state level.

**Keywords:** Forest surveys, forest inventory, statistics (forest), timber resources, resources (forest), western Oregon.

## **Summary**

Western Oregon has an estimated 19 million acres of land. About 80 percent of this land is forested with 71 percent being timberland. Lands administered by the U.S. Department of Agriculture, Forest Service, National Forest System (NFS) and U.S. Department of the Interior, Bureau of Land Management (BLM) make up about 48 percent of the timberland. Within the nonfederal timberland area, net volume of growing stock is estimated as 20.3 billion cubic feet. About 58 percent of the volume is administered by forest industry, 20 percent by other public owners, and 21 percent by other private owners. About 82 percent of the total growing stock volume is in coniferous species, with Douglas-fir accounting for 74 percent of the conifer volume. Estimated net annual growth of growing stock for nonfederal lands is 0.77 billion cubic feet, and average annual mortality for this timber is an estimated 0.1 billion cubic feet.

## **Preface**

Forest Inventory and Analysis (FIA) is a nationwide program of the USDA Forest Service authorized by the Forest and Rangeland Renewable Resources Research Act of 1978. Work units at Forest Service research and experiment stations conduct forest resource inventories throughout the 50 states. The FIA Program of the Pacific Northwest Research Station in Portland, Oregon, is responsible for forest inventories in Alaska, California, Hawaii, Oregon, and Washington.

## **Contents**

ix	Western Oregon Survey Units and Counties
1	<b>Introduction</b>
1	<b>Highlights</b>
2	<b>Inventory Procedures (Nonfederal Lands)</b>
3	<b>Land and Water Area Updated</b>
3	<b>Change in Ownership Definitions</b>
3	<b>Analysis of Change Between Inventories for Nonfederal Lands</b>
3	<b>Reliability of Inventory Data</b>
4	<b>Terminology</b>
10	<b>Names of Trees</b>
11	<b>Acknowledgments</b>
11	<b>Metric Equivalents</b>
11	<b>Literature Cited</b>

## **List of Tables**

- Table 1—Estimated land area, by county, land class, and administrative status, western Oregon, January 1, 1997
- Table 2a—Estimated area of nonfederal reserved timberland and other forest land, by forest type, western Oregon, January 1, 1997
- Table 2b—Estimated area of nonfederal reserved timberland and other forest land, by forest type, northwest Oregon, January 1, 1997
- Table 2c—Estimated area of nonfederal reserved timberland and other forest land, by forest type, west-central Oregon, January 1, 1997
- Table 2d—Estimated area of nonfederal reserved timberland and other forest land, by forest type, southwest Oregon, January 1, 1997
- Table 3—Estimated area of timberland, by county and owner class, western Oregon, January 1, 1997
- Table 4a—Estimated area of nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997
- Table 4b—Estimated area of nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1997
- Table 4c—Estimated area of nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1997
- Table 4d—Estimated area of nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1997
- Table 5a—Estimated area of nonfederal timberland, by owner class, stand-size class, and forest type group, western Oregon, January 1, 1997
- Table 5b—Estimated area of nonfederal timberland, by owner class, stand-size class, and forest type group, northwest Oregon, January 1, 1997

Table 5c—Estimated area of nonfederal timberland, by owner class, stand-size class, and forest type group, west-central Oregon, January 1, 1997

Table 5d—Estimated area of nonfederal timberland, by owner class, stand-size class, and forest type group, southwest Oregon, January 1, 1997

Table 6a—Estimated area of timberland, by cubic-foot site class and owner class, western Oregon, January 1, 1997

Table 6b—Estimated area of timberland, by cubic-foot site class and owner class, northwest Oregon, January 1, 1997

Table 6c—Estimated area of timberland, by cubic-foot site class and owner class, west-central Oregon, January 1, 1997

Table 6d—Estimated area of timberland, by cubic-foot site class and owner class, southwest Oregon, January 1, 1997

Table 7a—Estimated area of nonfederal timberland, by forest type and stand-size class, western Oregon, January 1, 1997

Table 7b—Estimated area of nonfederal timberland, by forest type and stand-size class, northwest Oregon, January 1, 1997

Table 7c—Estimated area of nonfederal timberland, by forest type and stand-size class, west-central Oregon, January 1, 1997

Table 7d—Estimated area of nonfederal timberland, by forest type and stand-size class, southwest Oregon, January 1, 1997

Table 8a—Estimated number of growing-stock trees on nonfederal timberland, by species and diameter class, western Oregon, January 1, 1997

Table 8b—Estimated number of growing-stock trees on nonfederal timberland, by species and diameter class, northwest Oregon, January 1, 1997

Table 8c—Estimated number of growing-stock trees on nonfederal timberland, by species and diameter class, west-central Oregon, January 1, 1997

Table 8d—Estimated number of growing-stock trees on nonfederal timberland, by species and diameter class, southwest Oregon, January 1, 1997

Table 9a—Estimated net volume of growing stock on nonfederal timberland, by species and diameter class, western Oregon, January 1, 1997

Table 9b—Estimated net volume of growing stock on nonfederal timberland, by species and diameter class, northwest Oregon, January 1, 1997

Table 9c—Estimated net volume of growing stock on nonfederal timberland, by species and diameter class, west-central Oregon, January 1, 1997

Table 9d—Estimated net volume of growing stock on nonfederal timberland, by species and diameter class, southwest Oregon, January 1, 1997

Table 10a—Estimated net volume of sawtimber on nonfederal timberland, by species and diameter class, western Oregon, January 1, 1997

Table 10b—Estimated net volume of sawtimber on nonfederal timberland, by species and diameter class, northwest Oregon, January 1, 1997

Table 10c—Estimated net volume of sawtimber on nonfederal timberland, by species and diameter class, west-central Oregon, January 1, 1997

Table 10d—Estimated net volume of sawtimber on nonfederal timberland by, species and diameter class, southwest Oregon, January 1, 1997

Table 11a—Estimated net volume of growing stock and sawtimber on nonfederal timberland, by class of timber, owner class, and species group, western Oregon, January 1, 1997

Table 11b—Estimated net volume of growing stock and sawtimber on nonfederal timberland, by class of timber, owner class, and species group, northwestern Oregon, January 1, 1997

Table 11c—Estimated net volume of growing stock and sawtimber on nonfederal timberland, by class of timber, owner class, and species group, west-central Oregon, January 1, 1997

Table 11d—Estimated net volume of growing stock and sawtimber on nonfederal timberland, by class of timber, owner class, and species group, southwest Oregon, January 1, 1997

Table 12a—Estimated net volume of growing stock on nonfederal timberland, by species and owner class, western Oregon, January 1, 1997

Table 12b—Estimated net volume of growing stock on nonfederal timberland, by species and owner class, northwest Oregon, January 1, 1997

Table 12c—Estimated net volume of growing stock on nonfederal timberland, by species and owner class, west-central Oregon, January 1, 1997

Table 12d—Estimated net volume of growing stock on nonfederal timberland, by species and owner class, southwest Oregon, January 1, 1997

Table 13a—Estimated net volume of sawtimber on nonfederal timberland, by species and owner class, western Oregon, January 1, 1997

Table 13b—Estimated net volume of sawtimber on nonfederal timberland, by species and owner class, northwest Oregon, January 1, 1997

Table 13c—Estimated net volume of sawtimber on nonfederal timberland, by species and owner class, west-central Oregon, January 1, 1997

Table 13d—Estimated net volume of sawtimber on nonfederal timberland, by species and owner class, southwest Oregon, January 1, 1997

Table 14a—Estimated net volume of growing stock on nonfederal timberland, by forest type and stand-size class, western Oregon, January 1, 1997

Table 14b—Estimated net volume of growing stock on nonfederal timberland, by forest type and stand-size class, northwest Oregon, January 1, 1997

Table 14c—Estimated net volume of growing stock on nonfederal timberland, by forest type and stand-size class, west-central Oregon, January 1, 1997

Table 14d—Estimated net volume of growing stock on nonfederal timberland, by forest type and stand-size class, southwest Oregon, January 1, 1997

Table 15a—Estimated net volume of sawtimber on nonfederal timberland, by forest type and stand-size class, western Oregon, January 1, 1997

Table 15b—Estimated net volume of sawtimber on nonfederal timberland, by forest type and stand-size class, northwest Oregon, January 1, 1997

Table 15c—Estimated net volume of sawtimber on nonfederal timberland, by forest type and stand-size class, west-central Oregon, January 1, 1997

Table 15d—Estimated net volume of sawtimber on nonfederal timberland, by forest type and stand-size class, southwest Oregon, January 1, 1997

Table 16a—Estimated net volume of growing stock on nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997

Table 16b—Estimated net volume of growing stock on nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1997

Table 16c—Estimated net volume of growing stock on nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1997

Table 16d—Estimated net volume of growing stock on nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1997

Table 17a—Estimated net volume of sawtimber on nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997

Table 17b—Estimated net volume of sawtimber on nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1997

Table 17c—Estimated net volume of sawtimber on nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1997

Table 17d—Estimated net volume of sawtimber on nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1997

Table 18a—Estimated net volume of timber on nonfederal timberland, by class of timber and species group, western Oregon, January 1, 1997

Table 18b—Estimated net volume of timber on nonfederal timberland, by class of timber and species group, northwest Oregon, January 1, 1997

Table 18c—Estimated net volume of timber on nonfederal timberland, by class of timber and species group, west-central Oregon, January 1, 1997

Table 18d—Estimated net volume of timber on nonfederal timberland, by class of timber and species group, southwest Oregon, January 1, 1997

Table 19a—Estimated current net annual growth of growing stock on nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997

Table 19b—Estimated current net annual growth of growing stock on nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1997

Table 19c—Estimated current net annual growth of growing stock on nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1997

Table 19d—Estimated current net annual growth of growing stock on nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1997

Table 20a—Estimated gross annual growth of growing stock on nonfederal timberland, by owner class and species group, western Oregon, January 1, 1997

Table 20b—Estimated gross annual growth of growing stock on nonfederal timberland, by owner class and species group, northwest Oregon, January 1, 1997

Table 20c—Estimated gross annual growth of growing stock on nonfederal timberland, by owner class and species group, west-central Oregon, January 1, 1997

Table 20d—Estimated gross annual growth of growing stock on nonfederal timberland, by owner class and species group, southwest Oregon, January 1, 1997

Table 21a—Estimated current net annual growth of sawtimber on nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997

Table 21b—Estimated current net annual growth of sawtimber on nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1997

Table 21c—Estimated current net annual growth of sawtimber on nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1997

Table 21d—Estimated current net annual growth of sawtimber on nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1997

Table 22a—Estimated average annual mortality of growing stock on nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997

Table 22b—Estimated average annual mortality of growing stock on nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1997

Table 22c—Estimated average annual mortality of growing stock on nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1997

Table 22d—Estimated average annual mortality of growing stock on nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1997

Table 23a—Estimated average annual mortality of sawtimber on nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997

Table 23b—Estimated average annual mortality of sawtimber on nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1997

Table 23c—Estimated average annual mortality of sawtimber on nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1997

Table 23d—Estimated average annual mortality of sawtimber on nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1997

Table 24a—Estimated area, net volume of growing stock, and net volume of sawtimber on nonfederal timberland, by stand age and owner class, western Oregon, January 1, 1997

Table 24b—Estimated area, net volume of growing stock, and net volume of sawtimber on nonfederal timberland, by stand age and owner class, northwest Oregon, January 1, 1997

Table 24c—Estimated area, net volume of growing stock, and net volume of sawtimber on nonfederal timberland, by stand age and owner class, west-central Oregon, January 1, 1997

Table 24d—Estimated area, net volume of growing stock, and net volume of sawtimber on nonfederal timberland, by stand age and owner class, southwest Oregon, January 1, 1997

Table 25a—Estimated gross annual growth, average annual mortality, and average annual removals of growing stock on nonfederal timberland, by species and owner class, western Oregon, January 1, 1997

Table 25b—Estimated gross annual growth, average annual mortality, and average annual removals of growing stock on nonfederal timberland, by species and owner class, northwest Oregon, January 1, 1997

Table 25c—Estimated gross annual growth, average annual mortality, and average annual removals of growing stock on nonfederal timberland, by species and owner class, west-central Oregon, January 1, 1997

Table 25d—Estimated gross annual growth, average annual mortality, and average annual removals of growing stock on nonfederal timberland, by species and owner class, southwest Oregon, January 1, 1997

Table 26a—Estimated gross annual growth, average annual mortality, and average annual removals of sawtimber on nonfederal timberland, by species and owner class, western Oregon, January 1, 1997

Table 26b—Estimated gross annual growth, average annual mortality, and average annual removals of sawtimber on nonfederal timberland, by species and owner class, northwest Oregon, January 1, 1997

Table 26c—Estimated gross annual growth, average annual mortality, and average annual removals of sawtimber on nonfederal timberland, by species and owner class, west-central Oregon, January 1, 1997

Table 26d—Estimated gross annual growth, average annual mortality, and average annual removals of sawtimber on nonfederal timberland, by species and owner class, southwest Oregon, January 1, 1997

Table 27a—Estimated changes in area of nonfederal timberland, by owner class, western Oregon, 1986-87, 1997

Table 27b—Estimated changes in area of nonfederal timberland, by owner class, northwest Oregon, 1986, 1997

Table 27c—Estimated changes in area of nonfederal timberland, by owner class, west-central Oregon, 1987, 1997

Table 27d—Estimated changes in area of nonfederal timberland, by owner class, southwest Oregon, 1986, 1997

Table 28a—Estimated changes in net volume of growing stock on nonfederal timberland, by species group and owner class, western Oregon, 1986-87, 1997

Table 28b—Estimated changes in net volume of growing stock on nonfederal timberland, by species group and owner class, northwest Oregon, 1986, 1997

Table 28c—Estimated changes in net volume of growing stock on nonfederal timberland, by species group and owner class, west-central Oregon, 1987, 1997

Table 28d—Estimated changes in net volume of growing stock on nonfederal timberland, by species group and owner class, southwest Oregon, 1986, 1997

Table 29a—Estimated changes in net volume of sawtimber on nonfederal timberland, by species group and owner class, western Oregon, 1986-87, 1997

Table 29b—Estimated changes in net volume of sawtimber on nonfederal timberland, by species group and owner class, northwest Oregon, 1986, 1997

Table 29c—Estimated changes in net volume of sawtimber on nonfederal timberland, by species group and owner class, west-central Oregon, 1987, 1997

Table 29d—Estimated changes in net volume of sawtimber on nonfederal timberland, by species group and owner class, southwest Oregon, 1986, 1997

Table 30a—Estimated timber harvest volume by year and owner class, western Oregon, 1997

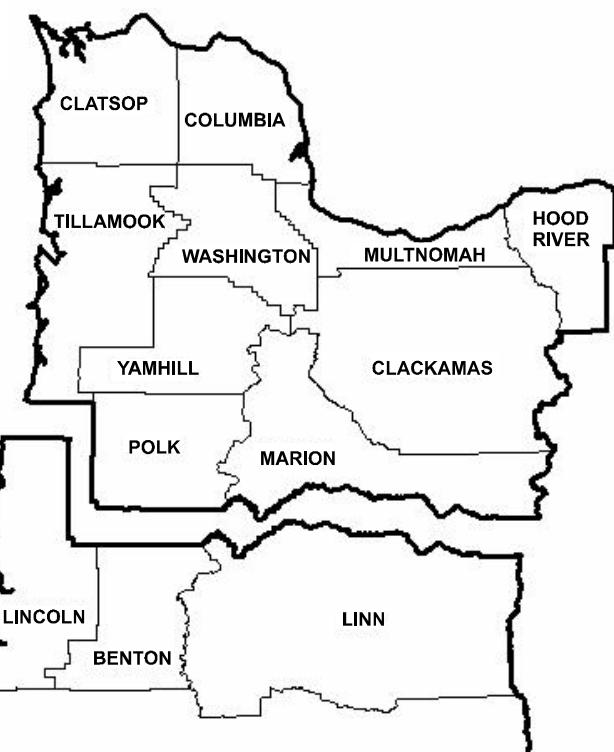
Table 30b—Estimated timber harvest volume by year and owner class, northwest Oregon, 1997

Table 30c—Estimated timber harvest volume by year and owner class, west-central Oregon, 1997

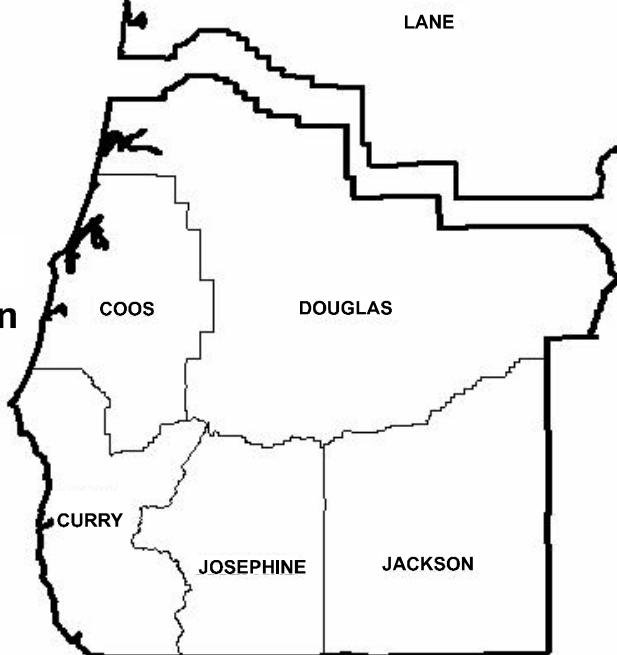
Table 30d—Estimated timber harvest volume by year and owner class, southwest Oregon, 1997

## **Western Oregon Survey Units and Counties**

**Northwest Oregon**



**West-Central Oregon**



**Southwest Oregon**



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## **Introduction**

The Forest Inventory and Analysis (FIA) unit of the USDA Forest Service, Pacific Northwest Research Station conducted a multiresource inventory in western Oregon's forests between 1994 and 1998. This inventory included all lands except those administered by the Forest Service and the U.S. Department of the Interior, Bureau of Land Management (BLM). This report summarizes the timber resource statistics for western Oregon's forests. Some statistical tables include inventory data provided by the Forest Service and the BLM for area on their lands. Other resources sampled but not included in this report are understory vegetation, crown cover, coarse woody debris, and snags. These data will lead to further analysis of the status of western Oregon's forests.

This FIA unit has been reporting statistics for western Oregon since the 1930s. Hazard and Metcalf (1964, 1965), Metcalf and Hazard (1964), Bassett (1977), Jacobs (1978), Mei (1979), and Gedney and others (1986a, 1986b, 1987) reported inventory statistics in the 1960s, 1970s, and 1980s. The current grid system was a systematic sample implemented in the early 1960s; before this grid, a type map system was used for inventory statistics. McKay and others (1998) used an updated 1994 data set to report the latest forest statistics for western Oregon.

This report contains statistical tables that provide current estimates of forest land area, change estimates for nonfederal lands, number of trees, timber volume, growth, mortality, and harvest. In several tables, area data supplied to the 1997 Resources Planning Act (RPA) by the National Forest System are incorporated. The national forest statistics include areas that are withdrawn from full production but still meet the FIA definition of timberland. National forest lands are not equally available for timber production because management must consider policies such as the Northwest Forest Plan and riparian reserves in decisionmaking.

## **Highlights**

About 80 percent of western Oregon's land is forested with about 71 percent being timberland. Federal agencies—the National Forest System and the Bureau of Land Management—administer about 48 percent of the timberland. Owners classed as forest industry administer about 31 percent of the timberland; nonindustrial and other public owners administer about 13 and 6 percent of timberland, respectively.

The production of timber has shifted away from federal lands to state and privately owned lands. In the 1980s, federal lands produced an average of 2.66 billion board feet per year. In the 1990s, that number dropped to 0.79 billion board feet per year, with a 0.19 billion average between 1995 and 1997. Other public and private lands averaged 3.0 billion board feet in the 1980s and decreased 5 percent to 2.85 billion in the 1990s. The 70-percent reduction from federal lands does not represent a change in land class, but is evidence of changing availability of land for timber production based on new management decisions. Federal land areas with reduced availability include, but are not limited to, riparian reserves, wildlife reserves, and access-limited areas.

The stand size for nonfederal owners in western Oregon tends to be skewed to the small size classes. About 5 percent of the nonfederal lands have an average stand diameter of 21 inches or greater, and 43 percent have an average stand diameter between 5 and 11 inches. Public owners such as state, county, and other federal owners have about 10 percent of their lands with an average diameter of 21 inches or greater. Forest industry and nonindustrial private owners have about 4 percent of their land in the larger diameters. Forty-eight percent of all nonfederal lands have stand diameters between 11 and 21 inches.

## **Inventory Procedures (Nonfederal Lands)**

Nonfederal timberlands in western Oregon show an increase in standing volume from 20.1 to 23.3 billion cubic feet based on plots measured during the previous and present inventories. Growth is 33 percent greater than removals plus mortality for nonfederal lands in western Oregon. The growth greater than removals plus mortality differs by survey unit with the southwest unit having the lowest percentage at 16 percent, followed by the west-central unit at 21 percent, and the northwest unit at 63 percent.

A minor net loss of timberland—51,000 of 6.9 million acres—is due to land use change. Most of the losses in timberland came from previous timberland being reclassified as roads. The 189,000-acre loss in timberland to urban, agriculture, and other nonforest uses is offset by the 138,000-acre gain from nonforest and other forest becoming timberland. Reclassification of lands from the previous inventory accounts for an additional 184,000 acres of timberland.

Western Oregon was inventoried by using a double sampling for stratification scheme (Cochran 1977). The sampling is implemented on a permanent systematic grid and produces an even geographic distribution of both secondary (field) and primary (photo) plots across the state. Photo plots are placed at random inside each square of the grid.

The primary sample for western Oregon consists of a grid of about 24,000 points established in 1994 by using aerial photographs taken in 1994. Data collected on each point included amount of tree cover by species group, average conifer height, disturbance codes, owner, and stage of development.

The secondary sample consisted of 1,478 forest and nonforest field locations established in previous inventories and remeasured or reclassified in the 1994-98 period. This sample represents about a 1-in-16 subsample of the primary sample. The ratio of 1 field to 16 photo plots provides a sufficient number of plots to meet the required sampling precision for estimates of forest area and volume.

The national forest and BLM plots were based on a similar grid system with a different plot design (Max and others 1996). The data were collected for these inventories between 1993 and 1996 and are in the 1997 RPA database.

In 1984-86 a cluster of five subplots was installed at timberland grid locations. At that time, the subplots sampled a single homogeneous condition, by moving subplots into the condition if necessary. Variable-radius sampling was used to select trees over 5 inches diameter at breast height (d.b.h.), and a smaller fixed-radius plot was used to sample seedlings and saplings.

In 1994, the sampling design was modified to remove potential bias inherent in the 1984-86 procedures. The term “condition class” was defined for the modified design to identify different situations that could occur on a plot. A condition class, or “condition,” refers to an area with a distinct land class (timberland, woodland, nonforest, etc.) and vegetative condition (forest type, stand age, etc.). The modified design requires that the field plots maintain fixed locations for all subplots in the cluster. Plots that straddle two or more conditions sample all conditions by establishing each subplot in the designated position and mapping the boundaries around each condition. The information pertinent to each condition is recorded as condition-class attributes. When multiple conditions exist on a plot, all data in one condition are processed together. This can impact the amount of information present to classify stand characteristics such as forest type, stand size, and stand age. On 1,478 field plots in the 1995-97 inventory, 2,754 condition classes were sampled, of which 1,403 were timberland conditions. Roads accounted for most nonforest conditions existing on plots.

## **Land and Water Area Updated**

The U.S. Department of Commerce, Bureau of the Census compiles and publishes the acreage of land and water in the United States every 10 years. These area figures, available by state and county, are accepted and used by FIA in Portland, Oregon, as the gross number of acres to be inventoried in each county. The previous inventory was based on 1980 census data, and the current inventory uses 1990 census figures. Raster-scanned topographic maps from the U.S. Department of the Interior, Geological Survey and a geographic information system are now used by the Bureau of the Census to identify water bodies and landforms and to determine the size of much smaller areas than previously possible. As a result, the definition of inland water was changed to reflect the finer resolution. Streams with a minimum width of 200 feet are now recognized, compared to 660 feet in 1980; small water bodies are now at least 4.5 acres, compared to 40 acres in the past.

## **Change in Ownership Definitions**

## **Analysis of Change Between Inventories for Nonfederal Lands**

## **Reliability of Inventory Data**

Land owned by Native Americans is now classified as "other private." In the 1986-87 inventory, these lands were defined as "other public." Forest industry was divided into the two categories of "forest industry with mills" and "forest industry without mills"; both are now classed as "forest industry."

To analyze change in forest statistics, the 1986-87 data were recompiled to account for technical changes in the 1995-97 inventory. The summaries presented in tables 27a through 29d have been developed from remeasured plots outside of federal lands and include recompiled data from the 1986-87 inventory. Caution should be used in comparing present statistics and those published by Gedney and others (1986a, 1986b, 1987) because of procedural changes, stratification differences, and plot changes. Comparing estimates from previous to current ones is like comparing independent estimates of the resource at different points in time; although both are valid estimates, they will not be equal.

Inventories conducted by FIA are designed to provide sampling errors consistent with national standards set by the Forest Service. The target error for total timberland area is 3 percent per million acres and 10 percent per billion cubic feet of growing-stock volume.

The sample design for this inventory provides the highest precision when estimates are aggregated for an entire survey unit such as the northwest, west-central, or southwest units in western Oregon. As the sample is divided into smaller units, the confidence intervals increase in relation to the size of the estimate. Confidence intervals are quantitative expressions of the variability inherent in the estimation procedures for area and volume. The tabulation below indicates, for instance, a 68-percent (one standard error) chance that the true timberland area for nonfederal owners in the northwest unit (2,369,000 acres) is within the range of 2,322,000 to 2,416,000 acres.

Standard errors for nonfederal timberland area, by owner class and survey unit, are displayed below:

<b>Survey unit</b>	<b>Other public</b>	<b>Forest industry</b>	<b>Other private</b>	<b>All owners</b>
<i>Thousand acres (<math>\pm</math> standard error)</i>				
Northwest	574 $\pm$ 40	1,103 $\pm$ 50	692 $\pm$ 48	2,369 $\pm$ 47
West-central	98 $\pm$ 26	1,339 $\pm$ 47	431 $\pm$ 42	1,867 $\pm$ 38
Southwest	179 $\pm$ 32	1,736 $\pm$ 55	759 $\pm$ 48	2,809 $\pm$ 48

Standard errors for growing-stock volume on nonfederal timberland area, by owner class and survey unit, are displayed below:

<b>Survey unit</b>	<b>Other public</b>	<b>Forest industry</b>	<b>Other private</b>	<b>All owners</b>
<i>Million cubic feet (<math>\pm</math> standard error)</i>				
Northwest	2,809 $\pm$ 273	3,996 $\pm$ 335	1,639 $\pm$ 198	8,444 $\pm$ 390
West-central	389 $\pm$ 111	3,920 $\pm$ 399	1,099 $\pm$ 151	5,408 $\pm$ 324
Southwest	779 $\pm$ 171	4,078 $\pm$ 289	1,570 $\pm$ 149	6,427 $\pm$ 327

Confidence intervals vary with the size of the estimate and the amount of variance associated with the estimate. The following is a set of approximate confidence intervals calculated by using a regression analysis between actual standard error and the estimate involved. These regressions have r-square values greater than 0.86, indicating that 86 percent of the variance in the relation can be explained by the equation. The actual error estimates for cells in tables can be obtained from the Portland FIA unit.

<b>Timberland area</b>			<b>Growing-stock volume</b>		
<b>Estimate</b>	<b>Interval</b>	<b>Percent</b>	<b>Estimate</b>	<b>Interval</b>	<b>Percent</b>
<i>Thousand acres</i>					
				<i>Million cubic feet</i>	
3,000	$\pm$ 126	4	6,000	$\pm$ 240	4
2,000	$\pm$ 89	4	4,000	$\pm$ 173	4
1,500	$\pm$ 66	4	2,000	$\pm$ 143	7
1,000	$\pm$ 54	5	1,000	$\pm$ 104	10
800	$\pm$ 48	6	800	$\pm$ 94	12
600	$\pm$ 42	7	600	$\pm$ 83	14
400	$\pm$ 34	8	400	$\pm$ 70	18
200	$\pm$ 25	12	200	$\pm$ 52	26
100	$\pm$ 18	18	100	$\pm$ 40	40
50	$\pm$ 13	26	50	$\pm$ 31	62
25	$\pm$ 10	40	25	$\pm$ 25	99
15	$\pm$ 8	53			
10	$\pm$ 6	60			
5	$\pm$ 5	99			

## Terminology

**Available other forest land**—Forest land incapable of growing 20 cubic feet per acre per year (mean annual increment at culmination in fully stocked, natural stands) of industrial wood because of adverse conditions such as sterile soils, dry climate, poor drainage, subalpine sites, steepness, or rockiness.

**Bureau of Land Management land**—Land administered by the U.S. Department of the Interior, Bureau of Land Management.

**Class of timber**—A classification of trees as growing stock, cull, and salvable dead. Growing-stock trees are divided into poletimber and sawtimber trees.

**Condition class**—A mapped area on a plot with a distinct land class (for example, timberland, oak woodland, nonforest) or a distinct vegetative condition (for example, forest type, stand size). The first condition identified at plot center is the only condition that is remeasured and used for the analysis of periodic change.

**County and municipal lands**—Lands owned by county and other local public agencies.

**Cull trees**—Live trees of noncommercial species and live trees of commercial species that are more than 75-percent defective. Noncommercial species are apple, black locust, holly, junipers, Pacific yew, Pacific dogwood, white alder, and willow. Cull trees are not growing-stock trees.

**Cull trees, rotten**—Cull trees with defect caused primarily by rot.

**Cull trees, sound**—Trees of noncommercial species or cull trees of commercial species with defect caused primarily by poor form and roughness.

**Diameter class**—A classification of trees based on diameter outside the bark measured at breast height, 4½ feet above the ground. The common abbreviation for diameter at breast height is d.b.h. Trees are grouped into 2-inch classes up to 21 inches d.b.h., after which the class intervals become broader.

**Even-aged stands**—Stands where 70 percent or more of the tree stocking falls within three adjacent 10-year age classes.

**Farmer-owned lands**—Lands owned by the operators of farms.

**Forest industry lands**—Lands owned by companies that grow timber for industrial use. Includes companies both with and without wood processing plants.

**Forest land**—Land at least 10 percent stocked with live trees, or land that had this minimum tree stocking in the past and is not currently developed for nonforest use. The minimum area recognized is 1 acre; it must be 115 feet wide.

**Forest types**—Stands are assigned a pure softwood, pure hardwood, softwood-hardwood mix, or hardwood-softwood forest type. Stands with 70 percent or more of the stocking in live softwood trees are classified as pure softwood types and are assigned the type name of the softwood species with the greatest stocking among all softwoods on the condition class plot. Stands with 70 percent or more of the stocking in live hardwood trees are classified as pure hardwood types and are assigned the type name of the hardwood species with the greatest stocking among all hardwoods on the condition class plot. Mixed species types are assigned if softwood stocking is 31 to 69 percent total stocking on the plot; stands with 50 to 69 percent of the stocking in live softwood trees are classed as softwood-hardwood types and receive a type name that includes the softwood species with the greatest softwood stocking, followed by the hardwood species with the greatest hardwood stocking; stands with 51 to 69 percent of the stocking in live hardwood trees are classed as hardwood-softwood types and receive a type name that includes the hardwood species with the greatest hardwood stocking, followed by the softwood species with the greatest softwood stocking. For ease in reporting, the secondary forest type will be identified after a slash as “softwood” or “hardwood” in the summary tables

**Growing-stock trees**—All live trees growing on timberland except cull trees (see “cull trees”).

**Growing-stock volume**—Net volume in cubic feet of live sawtimber and poletimber growing-stock trees from the top of a stump 12 inches tall to a minimum 4-inch top (of central stem) inside the bark. Net volume is gross volume less deductions for rot and missing bole sections.

**Growth, current net annual, growing stock**—The increase in growing-stock volume on timberland during the last year of the period between the previous and current inventories. Components of current net annual growth for growing-stock volume include (a) the increment in net volume of poletimber and sawtimber growing-stock trees alive at the beginning of the year and surviving to year end; plus (b) ingrowth, the net volume of growing-stock trees reaching poletimber or sawtimber size during the year; minus (c) mortality, the net volume of poletimber and sawtimber growing-stock trees that died during the year.

**Growth, current net annual, sawtimber**—The increase in sawtimber volume on timberland during the last year of the period between the previous and current inventories. Components of current net annual growth for sawtimber volume include (a) the increment in net volume of sawtimber trees alive at the beginning of the year and surviving to year end; plus (b) ingrowth, the net volume of trees reaching sawtimber size during the year; minus (c) mortality, the net volume of sawtimber trees that died during the year.

**Growth, periodic gross, growing stock**—The increase in growing-stock volume between the previous and current inventories that is attributable to increasing tree size. Periodic gross growth includes (a) the increment in net volume of poletimber and sawtimber growing-stock trees alive at both the previous and current inventories; (b) the increment in net volume of poletimber and sawtimber growing-stock trees alive at the previous inventory and harvested between inventories; and (c) ingrowth, the net volume of growing-stock trees reaching poletimber or sawtimber size between inventories.

**Growth, periodic gross, sawtimber**—The increase in sawtimber volume between the previous and current inventories that is attributable to increasing tree size. Periodic gross growth includes (a) the increment in net volume of sawtimber trees alive at both the previous and current inventories; (b) the increment in net volume of sawtimber trees alive at the previous inventory and harvested between inventories; and (c) ingrowth, the net volume of trees reaching sawtimber size between inventories.

**Hardwoods**—Nonconiferous trees, usually broad-leaved. See “Names of Trees” for a list of hardwood species in this report.

**Industrial wood**—All commercial roundwood products except fuelwood. Roundwood includes logs or bolts that are in straight sections at least 8 feet long for hardwoods and 12 feet long for softwoods.

**Land area**—Area reported as land by the Bureau of the Census (U.S. Department of Commerce 1990). Total land area includes dry land and land temporarily or partially covered by water, such as marshes, swamps, and river flood plains; streams, sloughs, and canals less than 200 feet wide; and lakes, reservoirs, and ponds less than 4.5 acres in area.

**Land class**—A classification of land by major use. The minimum area for classification is 1 acre.

**Mean annual increment (MAI) at culmination**—A measure of the productivity of forest land expressed as the average increase in cubic-foot volume per acre per year. For a given species and site index, the mean is based on the age at which the mean annual increment culminates for fully stocked natural stands. The MAI is calculated from equations and is based on the site index of the plot.

**Mortality, average annual, growing stock**—The annual net volume of poletimber and sawtimber growing-stock trees that died between the previous and current inventories.

**Mortality, average annual, sawtimber**—The annual net volume of sawtimber trees that died between the previous and current inventories.

**National forest lands**—Federal lands that have been designated by Executive Order or statute as national forest or purchase units and other lands under the administration of the U.S. Department of Agriculture, Forest Service, including experimental areas and Bankhead-Jones Title III lands.

**Native American lands**—Tribal and allotted lands held in trust by the federal government. Native American lands are grouped with farmer and miscellaneous private lands as other private lands.

**Net volume**—Gross volume less deductions for sound and rotten defects. Growing-stock net volume is gross cubic-foot volume less deductions for rot and missing bole sections on poletimber and sawtimber growing-stock trees. Sawtimber net volume is gross board-foot volume less deductions for rot, sweep, crook, missing bole sections, and other defects that affect the use of sawtimber trees for lumber.

**Noncommercial species**—A tree species not suitable for industrial wood products: apple, black locust, holly, junipers, Pacific yew, Pacific dogwood, white alder, and willow. Noncommercial species will not be included in growing-stock volume tables; however, if one or more of these species dominate on a plot, the forest type might be classified as a noncommercial species.

**Nonforest land**—Land that has never supported forests or formerly was forested and currently is developed for nonforest uses. Included are lands used for agricultural crops, Christmas tree farms, cottonwood plantations, improved pasture, residential areas, city parks, constructed roads, operating railroads and their right-of-way clearings, powerline and pipeline clearings, streams more than 30 feet wide, and 1- to 40-acre areas of water classified by the U.S. Department of Commerce, Bureau of the Census, as land. If intermingled in forest areas, unimproved roads and other nonforest strips must be more than 120 feet wide, and clearings or other areas must be 1 acre or larger to qualify as nonforest land.

**Nonstocked areas**—Timberland less than 10 percent stocked with live trees. Recent clearcuts scheduled for planting are classified as nonstocked area.

**Other private lands**—Private lands not owned by forest industry. Native American lands, farmer-owned lands, and miscellaneous private lands are included.

**Other public lands**—Lands administered by public agencies other than the U.S. Department of Agriculture, Forest Service and U.S. Department of the Interior, Bureau of Land Management. Other public lands do not include Native American lands, which are included with other private lands.

**Poletimber stands**—Stands with a quadratic mean diameter (mean diameter weighted by basal area) from 5.0 to 9.0 inches at breast height if a softwood stand and from 5.0 to 11.0 inches at breast height if a hardwood stand.

**Poletimber trees**—Live growing-stock trees of commercial species that are 5.0 inches in d.b.h. or larger but smaller than sawtimber trees.

**Reserved other forest**—Forest land incapable of growing 20 cubic feet per acre per year (mean annual increment at culmination in fully stocked, natural stands) of industrial wood that has been dedicated to noncommodity use through statute, ordinance, or administrative order.

**Reserved timberland**—Forest land capable of growing 20 cubic feet or more per acre per year (mean annual increment at culmination in fully stocked, natural stands) of industrial wood that has been dedicated to noncommodity use through statute, ordinance, or administrative order.

**Roundwood**—Logs, bolts, or other round sections cut from trees.

**Sapling and seedling stands**—Stands with a quadratic mean diameter (mean diameter weighted by basal area) less than 5.0 inches at breast height.

**Sapling and seedling trees**—Live trees of commercial species that are less than 5.0 inches d.b.h. and have no diseases, defects, or deformities likely to prevent their becoming poletimber trees.

**Saw-log portion**—The bole of sawtimber trees between the stump and the saw-log top. Saw-log top is 7.0 inches in diameter outside bark on softwoods and 9.0 inches in diameter outside bark on hardwoods.

**Sawtimber stands**—Stands with a quadratic mean diameter (mean diameter weighted by basal area) larger than 9.0 inches at breast height if a softwood stand and larger than 11.0 inches at breast height if a hardwood stand. Small sawtimber stands are sawtimber stands with a mean diameter (weighted by basal area) less than 21.0 inches at breast height. Large sawtimber stands are sawtimber stands that have a mean diameter 21.0 inches or larger at breast height.

**Sawtimber trees**—Live softwood trees of commercial species at least 9.0 inches d.b.h. and live hardwood trees of commercial species at least 11.0 inches d.b.h. At least 25 percent of the board-foot volume in a sawtimber tree must be free from defect. Softwood trees must contain at least one 12-foot saw log with a top diameter of not less than 7 inches outside bark; hardwood trees must contain at least one 8-foot saw log with a top diameter of not less than 9 inches outside bark.

**Sawtimber volume**—Net volume of sawtimber trees measured in board feet. Softwood volume is estimated from the top of a stump 12 inches tall up to a minimum 6-inch top diameter, inside bark, and hardwood volume is estimated from the top of a stump 12 inches tall up to a minimum 8-inch top diameter, inside bark. Net sawtimber volume equals gross volume less deduction for rot, sweep, crook, and other defects that affect use for lumber.

**Scribner rule**—The common board-foot log rule used locally in western Oregon to determine sawtimber volume. Scribner volume is estimated in terms of 32-foot logs for softwoods and 16-foot logs for hardwoods. See “sawtimber volume” for utilization limits.

**Site class**—A classification of the potential productivity of forest land expressed as mean annual increment (MAI) at culmination in fully stocked natural stands. Six classes in this report are based on a range of MAI values that were calculated on every plot.

**Site index**—A measure of the productivity of forest land expressed as the average height of dominant and codominant trees at a specified age.

**Softwoods**—Coniferous trees, usually evergreen, with needles or scalelike leaves. See “Names of Trees” for a list of softwood species in this report.

**Stand age**—The 10-year age class that best characterizes the stand. See “even-aged stand” and “uneven-aged stand” for more details.

**Stand-size class**—A classification of stands based on tree size. Stand-size classes are sawtimber, poletimber, and sapling-seedling stands.

**State lands**—Lands owned by states or administered by state agencies.

**Timber harvest**—Volume of roundwood removed from forest land for products. Timber harvest statistics reported in tables 30a through 30d were collected by the Oregon Department of Forestry.

**Timber volume**—Includes the net volume in cubic feet of poletimber and sawtimber trees and salvable dead sawtimber trees, and the net volume in cubic feet of cull trees of commercial species. In tables 18a-18d, the volume of cull trees includes the gross volume of noncommercial species. Volume is measured from the top of a stump 12 inches tall to a minimum 4-inch top diameter, inside bark.

**Timberland**—Forest land capable of growing 20 cubic feet or more per acre per year (mean annual increment at culmination in fully stocked, natural stands) of industrial wood and not in a reserved status through removal of the area from timber utilization by statute, ordinance, or administrative order and not in a withdrawn status where it is pending consideration for reserved status.

**Uneven-aged stands**—Stands where less than 70 percent of the tree stocking falls in three adjacent 10-year age classes.

**Upper stem portion**—The bole of sawtimber trees above the saw-log top—7.0 inches diameter outside bark for softwoods and 9.0 inches diameter outside bark for hardwoods—to a minimum top diameter of 4.0 inches inside bark, or to the point where the central stem divides into limbs.

## Names of Trees

Common name	Scientific name <sup>1</sup>
Softwoods:	
Alaska-cedar	<i>Chamaecyparis nootkatensis</i> (D. Don) Spach
Brewer spruce	<i>Picea breweriana</i> [breweriana] Wats.
Douglas-fir	<i>Pseudotsuga menziesii</i> (Mirb.) Franco
Engelmann spruce	<i>Picea engelmannii</i> Parry ex Engelm.
Giant sequoia	<i>Sequoiadendron giganteum</i> (Lindl.) Buchh.
Grand fir	<i>Abies grandis</i> (Dougl. ex D. Don) Lindl.
Incense-cedar	<i>Libocedrus decurrens</i> Torr.
Jeffrey pine	<i>Pinus jeffreyi</i> Grev. & Balf.
Knobcone pine	<i>Pinus attenuata</i> Lemm.
Lodgepole pine	<i>Pinus contorta</i> Dougl. ex Loud.
Mountain hemlock	<i>Tsuga mertensiana</i> (Bong.) Carr.
Noble fir	<i>Abies procera</i> Rehd.
Pacific silver fir	<i>Abies amabilis</i> Dougl. ex Forbes
Ponderosa pine	<i>Pinus ponderosa</i> Dougl. ex Laws.
Port-Orford-cedar	<i>Chamaecyparis lawsoniana</i> (A Murr.) Parl.
Redwood	<i>Sequoia sempervirens</i> (D. Don) Endl.
Scotch pine	<i>Pinus sylvestris</i> L.
Shasta red fir	<i>Abies shastensis</i> (Lemmon)
Sitka spruce	<i>Picea sitchensis</i> (Bong.) Carr.
Subalpine fir	<i>Abies lasiocarpa</i> (Hook.) Nutt.
Sugar pine	<i>Pinus lambertiana</i> Dougl.
Western hemlock	<i>Tsuga heterophylla</i> (Raf.) Sarg.
Western juniper	<i>Juniperus occidentalis</i> Hook.
Western redcedar	<i>Thuja plicata</i> Donn ex D. Don
Western white pine	<i>Pinus monticola</i> Dougl. ex D. Don
White fir	<i>Abies concolor</i> (Gord. & Glend.) Lindl. ex Hildebr.
Whitebark pine	<i>Pinus albicaulis</i> Engelm.
Hardwoods:	
Apple	<i>Malus</i> spp. Mill.
Bigleaf maple	<i>Acer macrophyllum</i> Pursh
Black cottonwood	<i>Populus trichocarpa</i> (Torr. & Gray)
Black locust	<i>Robinia pseudoacacia</i> L.
California black oak	<i>Quercus kelloggii</i> Newb.
California-laurel	<i>Umbellularia californica</i> (Hook. & Arn.) Nutt.
Canyon live oak	<i>Quercus chryssolepis</i> Liebm.
Cherry	<i>Prunus</i> spp.
Golden chinkapin	<i>Chrysolepis chrysophylla</i> (Dougl. ex Hook.) Hjelmqvist
Holly	<i>Ilex</i> spp.
Oregon ash	<i>Fraxinus latifolia</i> Benth.
Oregon white oak	<i>Quercus garryana</i> Dougl. ex Hook.
Quaking aspen	<i>Populus tremuloides</i> Michx.
Pacific madrone	<i>Arbutus menziesii</i> Pursh
Red alder	<i>Alnus rubra</i> Bong.
Tanoak	<i>Lithocarpus densiflorus</i> (Hook. & Arn.) Rehd.
White alder	<i>Alnus rhombifolia</i> Nutt.
Willow	<i>Salix</i> spp.

<sup>1</sup> Nomenclature per Little (1979).

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## Metric Equivalents

- 1 acre = 0.405 hectare
- 1 acre = 4046.86 square meters
- 1,000 acres = 404.7 hectares
- 1,000 cubic feet = 28.3 cubic meters
- 1 cubic foot per acre = 0.07 cubic meter per hectare
- 1 foot = 0.3048 meter
- 1 inch = 2.54 centimeters
- 1 mile = 1.609 kilometers

## Literature Cited

- Bassett, P.M. 1977.** Timber resources of southwest Oregon. Resour. Bull. PNW-RB-72. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 29 p.
- Cochran, W.G. 1977.** Sampling techniques. 3<sup>rd</sup> ed. New York: John Wiley & Sons. 413 p.
- Gedney, D.R.; Bassett, P.M.; Mei, M.A. 1986a.** Timber resource statistics for nonfederal forest land in southwest Oregon. Resour. Bull. PNW-138. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 26 p.
- Gedney, D.R.; Bassett, P.M.; Mei, M.A. 1986b.** Timber resource statistics for nonfederal forest land in northwest Oregon. Resour. Bull. PNW-RB-140. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 26 p.
- Gedney, D.R.; Bassett, P.M.; Mei, M.A. 1987.** Timber resource statistics for nonfederal forest land in west-central Oregon. Resour. Bull. PNW-RB-143. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 26 p.
- Hazard, J.W.; Metcalf, M.E. 1964.** Forest statistics for southwest Oregon. Resour. Bull. PNW-8. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 32 p.

- Hazard, J.W.; Metcalf, M.E. 1965.** Forest statistics for west-central Oregon. Resour. Bull. PNW-10. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 35 p.
- Jacobs, D.M. 1978.** Timber resources of west-central Oregon. Resour. Bull. PNW-76. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 30 p.
- Little, E.L., Jr. 1979.** Checklist of United States trees (native and naturalized). Agric. Handb. 541. Washington, DC: U.S. Department of Agriculture, Forest Service. 375 p.
- Max, T.A.; Schreuder, H.T.; Hazard, J.W. [and others]. 1996.** The Pacific Northwest Region vegetation and inventory monitoring system. Res. Pap. PNW-RP-493. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 22 p.
- McKay, N.; Bolsinger, C.L.; Lettman, G.J. [and others]. 1998.** Timber resource trends on nonfederal timberland in western Oregon between 1984-86 and 1994. Salem, OR: Oregon Department of Forestry. 126 p.
- Mei, M.A. 1979.** Timber resources of northwest Oregon. Resour. Bull. PNW-82. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 29 p.
- Metcalf, M.E.; Hazard, J.W. 1964.** Forest statistics for northwest Oregon. Resour. Bull. PNW-7. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station. 38 p.
- U.S. Department of Commerce, Bureau of the Census. 1990.** 1990 census of population. Vol. 1: characteristics of the population. Part 1: United States summary. Washington, DC: [Pages unknown].

**Table 1—Estimated land area by county, land class, and administrative status, western Oregon, January 1, 1997<sup>a,b</sup>**

County	Forest land						
	Timberland	Reserved timberland	Available other forest	Reserved other forest	Total forest	Non-forest	All land <sup>c</sup>
<i>Thousand acres</i>							
Northwest:							
Clackamas	778	87	28	—	893	303	1,196
Clatsop	460	—	28	4	492	37	529
Columbia	310	—	27	—	337	83	420
Hood River	186	—	15	—	201	133	334
Marion	308	68	18	13	407	351	758
Multnomah	104	24	—	12	140	139	279
Polk	262	—	4	—	266	208	474
Tillamook	617	8	11	—	636	69	705
Washington	244	—	8	7	259	204	463
Yamhill	212	—	23	6	241	217	458
Total	3,481	187	162	42	3,872	1,744	5,616
West central:							
Benton	318	1	3	—	322	111	433
Lane	2,165	241	45	6	2,457	464	2,921
Lincoln	547	6	16	—	569	66	635
Linn	918	66	39	—	1,023	443	1,466
Total	3,948	314	103	6	4,371	1,084	5,455
Southwest:							
Coos	842	15	21	1	879	145	1,024
Curry	763	185	9	19	976	66	1,042
Douglas	2,516	96	146	7	2,765	459	3,224
Jackson	1,158	64	264	15	1,501	282	1,783
Josephine	803	64	59	11	937	112	1,049
Total	6,082	424	499	53	7,058	1,064	8,122
Total	13,511	925	764	101	15,301	3,892	19,193

— = none found or less than 500 acres.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes data for the national forests and BLM from their regional surveys, submitted to 1997 RPA.

<sup>c</sup> Source: U.S. Department of Commerce 1990.

**Table 2a—Estimated area of nonfederal reserved timberland and other forest land by forest type, western Oregon, January 1, 1997<sup>a</sup>**

Forest type	Reserved timberland	Other forest			
		Available	Reserved	Total	
<i>Thousand acres</i>					
<b>Softwood types:</b>					
Douglas-fir	7	186	16	209	
Grand fir	—	11	7	18	
Incense-cedar	—	9	—	9	
Lodgepole pine	—	31	5	36	
Pacific silver fir	—	8	—	8	
Scotch pine	—	2	—	2	
Sitka spruce	7	—	7	14	
Western hemlock	—	4	—	4	
Western juniper	—	4	—	4	
Total	14	255	35	304	
<b>Hardwood types:</b>					
Bigleaf maple	—	9	16	25	
Black cottonwood	—	8	6	13	
California black oak	—	24	—	24	
Oregon ash	—	7	—	7	
Oregon white oak	—	193	5	198	
Pacific madrone	—	46	—	46	
Red alder	—	11	3	14	
Tanoak	—	7	—	7	
White alder	—	5	—	5	
Willow	—	13	—	13	
Total	—	322	29	352	
Nonstocked <sup>b</sup>	—	34	—	34	
All types	14	611	64	690	

— = less than 500 acres or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 2b—Estimated area of nonfederal reserved timberland and other forest land by forest type, northwest Oregon, January 1, 1997<sup>a</sup>**

Forest type	Reserved timberland	Other forest			Total		
		Available	Reserved				
<i>Thousand acres</i>							
<b>Softwood types:</b>							
Douglas-fir	—	53	9	62			
Grand fir	—	—	7	7			
Lodgepole pine	—	16	—	16			
Sitka spruce	—	—	—	—			
Western hemlock	—	4	—	4			
Total	—	73	16	89			
<b>Hardwood types:</b>							
Bigleaf maple	—	—	16	16			
Black cottonwood	—	6	6	12			
Oregon ash	—	4	—	4			
Oregon white oak	—	30	—	30			
Red alder	—	11	3	14			
Willow	—	13	—	13			
Total	—	63	24	88			
Nonstocked <sup>b</sup>	—	10	—	10			
All types	—	146	40	187			

— = less than 500 acres or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 2c—Estimated area of nonfederal reserved timberland and other forest land by forest type, west-central Oregon, January 1, 1997<sup>a</sup>**

Forest type	Reserved timberland	Other forest			
		Available	Reserved	Total	
<i>Thousand acres</i>					
<b>Softwood types:</b>					
Douglas-fir	—	55	6	61	
Lodgepole pine	—	6	—	6	
Pacific silver fir	—	8	—	8	
Scotch pine	—	2	—	2	
Western hemlock	—	5	—	5	
Total	—	76	6	82	
<b>Hardwood types:</b>					
Black cottonwood	—	2	—	2	
Golden chinkapin	—	5	—	5	
Oregon white oak	—	10	—	10	
Pacific madrone	—	1	—	1	
Total	—	18	—	18	
Nonstocked <sup>b</sup>	—	12	—	12	
All types	—	106	6	112	

— = less than 500 acres or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 2d—Estimated area of nonfederal reserved timberland and other forest land by forest type, southwest Oregon, January 1, 1997<sup>a</sup>**

Forest type	Reserved timberland	Other forest			Total		
		Available	Reserved	Other forest			
<i>Thousand acres</i>							
<b>Softwood types:</b>							
Douglas-fir	7	77	—	—	84		
Grand fir	—	11	—	—	11		
Incense-cedar	—	9	—	—	9		
Lodgepole pine	—	9	5	—	14		
Port-Orford-cedar	2	—	—	—	2		
Sitka spruce	7	—	7	—	14		
Western juniper	—	4	—	—	4		
Total	15	110	12	—	137		
<b>Hardwood types:</b>							
Bigleaf maple	—	9	—	—	9		
California black oak	—	24	—	—	24		
Oregon ash	—	3	—	—	3		
Oregon white oak	—	153	5	—	158		
Pacific madrone	—	45	—	—	45		
Tanoak	—	7	—	—	7		
White alder	—	5	—	—	5		
Total	—	246	5	—	251		
Nonstocked <sup>b</sup>	—	12	—	—	12		
All types	15	368	16	—	400		

— = less than 500 acres or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Nonstocked areas are less than 10 percent stocked with live trees.

**Table 3—Estimated area of timberland by county and owner class, western Oregon, January 1, 1997<sup>a,b</sup>**

County	Public				Private				All private owners
	National forest	Bureau of Land Management	Miscellaneous federal	State	County	Total public	Forest industry	Native American	
Thousand acres									
Northwest Oregon:									
Clackamas	438	51	—	6	6	501	130	—	156
Clatsop	—	—	—	112	6	118	258	—	45
Columbia	—	11	1	—	—	12	214	—	83
Hood River	121	—	—	—	19	140	31	—	14
Marion	147	21	—	30	—	198	48	—	62
Multnomah	50	4	—	—	—	54	15	—	34
Polk	1	40	—	—	—	41	142	—	79
Tillamook	87	40	—	302	11	440	134	—	44
Washington	—	12	—	80	—	92	44	—	108
Yamhill	26	32	—	—	—	58	86	—	68
Total	870	211	1	530	42	1,654	1,102	—	692
West-central Oregon:									
Benton	18	66	—	28	—	112	159	—	46
Lane	1,095	267	5	45	—	1,412	557	—	207
Lincoln	166	20	—	22	—	208	266	18	56
Linn	367	83	—	7	—	457	357	—	103
Total	1,646	436	5	102	—	2,189	1,339	18	413
Southwest Oregon:									
Coos	69	154	—	63	9	295	403	—	144
Curry	418	53	—	—	—	471	217	—	75
Douglas	902	595	—	42	7	1,546	748	—	322
Jackson	392	324	5	11	11	743	308	—	111
Josephine	317	283	—	—	35	635	61	—	107
Total	2,098	1,409	5	116	62	3,690	1,736	—	759
Total	4,614	2,056	11	748	104	7,533	4,177	18	1,864
Total	4,614	2,056	11	748	104	7,533	4,177	18	1,864
									6,186
									6,060
									13,593

— = none found or less than 500 acres.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Data for the national forests and BLM is from their regional surveys, submitted to 1997 RPA.

**Table 4a—Estimated area of nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997<sup>a</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand acres</i>				
Softwood types:				
Douglas-fir	573	2,792	947	4,313
Grand fir	—	39	23	63
Incense-cedar	—	41	39	79
Jeffrey pine	—	—	2	2
Noble fir	6	18	—	24
Pacific silver fir	—	8	—	8
Ponderosa pine	—	3	17	20
Port-Orford-cedar	—	8	11	19
Redwood	—	2	—	2
Sitka spruce	13	56	40	109
Western hemlock	46	360	31	437
Western redcedar	3	24	28	55
White fir	—	55	2	58
Total softwood types	642	3,407	1,141	5,190
Hardwood types:				
Apple	—	2	2	4
Bigleaf maple	12	50	96	157
Black cottonwood	—	6	7	13
California black oak	—	6	33	39
California-laurel	—	19	—	19
Canyon live oak	—	41	—	41
Cherry	1	—	3	5
Oregon ash	—	6	19	25
Oregon white oak	5	54	93	152
Pacific madrone	35	77	116	227
Red alder	150	309	264	723
Tanoak	—	105	19	124
Willow	—	2	12	13
Total hardwood types	203	678	663	1,544
Nonstocked <sup>b</sup>	6	37	58	101
Not classified <sup>c</sup>	—	57	18	75
All types	850	4,179	1,880	6,909

— = less than 500 acres or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Nonstocked areas are less than 10 percent stocked with live trees.

<sup>c</sup> Unclassified areas include access-denied areas that were harvested since the last inventory.

**Table 4b—Estimated area of nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1997<sup>a</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand acres</i>				
<b>Softwood types:</b>				
Douglas-fir	379	665	343	1,387
Grand fir	—	—	5	5
Incense-cedar	—	—	2	2
Noble fir	6	10	—	16
Pacific silver fir	—	8	—	8
Sitka spruce	13	32	10	55
Western hemlock	46	227	15	288
Western redcedar	3	14	18	36
Total softwood types	448	956	394	1,798
<b>Hardwood types:</b>				
Apple	—	—	2	2
Bigleaf maple	12	10	68	90
Black cottonwood	—	6	7	13
Cherry	1	—	3	5
Oregon ash	—	—	6	6
Oregon white oak	—	—	49	49
Red alder	107	70	139	317
Total hardwood types	121	87	274	481
Nonstocked <sup>b</sup>	5	15	22	42
Unclassified <sup>c</sup>	—	45	2	47
Total all types	574	1,104	691	2,368

— = less than 500 acres or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Nonstocked areas are less than 10 percent stocked with live trees.

<sup>c</sup> Unclassified areas include access-denied areas that were harvested since the last inventory.

**Table 4c—Estimated area of nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1997<sup>a</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand acres</i>				
Softwood types:				
Douglas-fir	68	1,007	227	1,302
Grand fir	—	19	7	26
Incense-cedar	—	2	—	2
Noble fir	—	8	—	8
Ponderosa pine	—	—	1	1
Sitka spruce	—	18	20	38
Western hemlock	—	107	14	121
Western redcedar	—	1	3	4
Total softwood types	68	1,162	272	1,502
Hardwood types:				
Bigleaf maple	—	21	23	44
California black oak	—	—	5	5
Oregon ash	—	1	13	14
Oregon white oak	5	34	14	53
Pacific madrone	8	—	5	13
Red alder	16	96	53	165
Total hardwood types	29	152	113	294
Nonstocked <sup>b</sup>	—	14	29	43
Not classified <sup>c</sup>	—	12	16	28
All types	97	1,339	430	1,867

— = less than 500 acres or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Nonstocked areas are less than 10 percent stocked with live trees.

<sup>c</sup> Unclassified areas include access-denied areas that were harvested since the last inventory.

**Table 4d—Estimated area of nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1997<sup>a</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand acres</i>				
<b>Softwood types:</b>				
Douglas-fir	125	1,121	377	1,623
Grand fir	—	20	11	31
Incense-cedar	—	38	37	75
Jeffrey pine	—	—	2	2
Ponderosa pine	—	3	16	19
Port-Orford-cedar	—	8	11	19
Redwood	—	2	—	2
Sitka spruce	—	6	10	17
Western hemlock	—	26	2	28
Western redcedar	—	9	6	15
White fir	—	55	2	58
Total softwood types	125	1,289	476	1,890
<b>Hardwood types:</b>				
Apple	—	2	—	2
Bigleaf maple	—	19	5	23
California black oak	—	6	28	34
California-laurel	—	19	0	19
Canyon live oak	—	41	—	41
Oregon ash	—	5	—	5
Oregon white oak	—	20	30	50
Pacific madrone	27	77	110	214
Red alder	26	143	72	241
Tanoak	—	105	19	124
Willow	—	2	12	13
Total hardwood types	53	439	276	768
Nonstocked <sup>b</sup>	—	8	7	15
All types	179	1,736	759	2,809

— = less than 500 acres or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 5a—Estimated area of nonfederal timberland, by owner class, stand-size class, and forest type group, western Oregon, January 1, 1997<sup>a</sup>**

Stand-size class	Other public	Forest industry	Other private	All owners
<i>Thousand acres</i>				
Large sawtimber:				
Softwood types	75	127	118	320
Hardwood type	12	3	16	31
All types	87	130	134	351
Small sawtimber:				
Softwood types	436	1,691	619	2,746
Hardwood types	110	241	276	627
All types	546	1,932	895	3,373
Poletimber:				
Softwood types	43	435	108	586
Hardwood types	45	247	177	469
All types	88	682	285	1,055
Seedlings and saplings:				
Softwood types	88	1,155	296	1,539
Hardwood types	35	187	193	415
All types	123	1,342	489	1,954
All stand-size classes:				
Softwood types	642	3,408	1,141	5,191
Hardwood types	202	678	662	1,542
Nonstocked <sup>b</sup>	6	37	58	101
All types <sup>c</sup>	850	4,123	1,861	6,834

— = less than 500 acres or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Stand-size class was not determined for nonstocked stands.

<sup>c</sup> Total does not include 75,000 acres of unclassified access-denied lands.

**Table 5b—Estimated area of nonfederal timberland, by owner class, stand-size class, and forest type group, northwest Oregon, January 1, 1997<sup>a</sup>**

Stand-size class	Other public	Forest industry	Other private	All owners
<i>Thousand acres</i>				
Large sawtimber:				
Softwood types	31	26	71	128
Hardwood types	8	—	9	17
All types	39	26	80	145
Small sawtimber:				
Softwood types	337	562	195	1,094
Hardwood types	90	58	130	278
All types	427	620	325	1,372
Poletimber:				
Softwood types	26	94	16	136
Hardwood types	22	12	63	97
All types	48	106	79	233
Seedlings and saplings:				
Softwood types	54	275	111	440
Hardwood types	—	16	72	88
All types	54	291	183	528
All stand-size classes:				
Softwood types	448	957	393	1,798
Hardwood types	120	86	274	480
Nonstocked <sup>b</sup>	5	15	22	42
All types <sup>c</sup>	573	1,058	689	2,320

— = less than 500 acres or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Stand-size class was not determined for nonstocked stands.

<sup>c</sup> Total does not include 47,000 acres of unclassified access-denied lands.

**Table 5c—Estimated area of nonfederal timberland, by owner class, stand-size class, and forest type group, west-central Oregon, January 1, 1997<sup>a</sup>**

Stand-size class	Other public	Forest industry	Other private	All owners
<i>Thousand acres</i>				
Large sawtimber:				
Softwood types	6	57	32	95
Hardwood types	—	—	7	7
All types	6	57	39	102
Small sawtimber:				
Softwood types	35	557	143	735
Hardwood types	—	58	57	115
All types	35	615	200	850
Poletimber:				
Softwood types	12	143	25	180
Hardwood types	14	62	11	87
All types	26	205	36	267
Seedlings and saplings:				
Softwood types	16	406	71	493
Hardwood types	15	32	37	84
All types	31	438	108	577
All stand-size classes:				
Softwood types	69	1,163	271	1,503
Hardwood types	29	152	112	293
Nonstocked <sup>b</sup>	—	14	29	43
All types <sup>c</sup>	98	1,329	412	1,839

— = less than 500 acres or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Stand-size class was not determined for nonstocked stands.

<sup>c</sup> Total does not include 28,000 acres of unclassified access-denied lands.

**Table 5d—Estimated area of nonfederal timberland, by owner class, stand-size class, and forest type group, southwest Oregon, January 1, 1997<sup>a</sup>**

Stand-size class	Other public	Forest industry	Other private	All owners
<i>Thousand acres</i>				
Large sawtimber:				
Softwood types	38	45	15	98
Hardwood types	4	3	—	7
All types	42	48	15	105
Small sawtimber:				
Softwood types	64	573	281	918
Hardwood types	19	124	89	232
All types	83	697	370	1,150
Poletimber:				
Softwood types	4	198	66	268
Hardwood types	9	174	103	286
All types	13	372	169	554
Seedlings and saplings:				
Softwood types	18	474	113	606
Hardwood types	20	138	84	242
All types	38	612	197	847
All stand-size classes:				
Softwood types	124	1,290	475	1,889
Hardwood types	52	439	276	767
Nonstocked <sup>b</sup>	—	65	7	72
All types	176	1,794	758	2,728

— = less than 500 acres or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Stand-size class was not determined for nonstocked stands.

**Table 6a—Estimated area of timberland, by cubic-foot site class and owner class, western Oregon, January 1, 1997<sup>a,b</sup>**

Owner	Site class <sup>c</sup>						All classes
	>225	165-224	120-164	85-119	50-84	20-49	
<i>Thousand acres</i>							
National forest	51	525	1,355	1,152	1,415	115	4,612
BLM	9	240	960	444	384	14	2,052
Other public	44	400	278	76	53	0	851
Forest industry	310	1,628	1,370	568	254	47	4,177
Other private	89	433	708	336	224	91	1,881
All owners	503	3,226	4,671	2,576	2,330	268	13,573

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>National forest and BLM data are estimated by using the 1977 percentage area by site class applied to the present acreage.

<sup>c</sup> Site class is the mean annual increment cubic-foot growth per acre at culmination in fully stocked natural stands.

**Table 6b—Estimated area of timberland, by cubic-foot site class and owner class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Owner	Site class <sup>c</sup>						All classes
	>225	165-224	120-164	85-119	50-84	20-49	
<i>Thousand acres</i>							
National forest	18	84	251	194	314	5	867
BLM	4	23	132	39	12	0	210
Other public	44	307	166	45	13	0	575
Forest industry	202	442	360	95	4	0	1,103
Other private	51	159	330	126	22	4	692
All owners	319	1,015	1,240	499	365	9	3,447

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>National forest and BLM data are estimated by using the 1977 percentage area by site class applied to the present acreage.

<sup>c</sup> Site class is the mean annual increment cubic-foot growth per acre at culmination in fully stocked natural stands.

**Table 6c—Estimated area of timberland, by cubic-foot site class and owner class, west-central Oregon, January 1, 1997<sup>a b</sup>**

Owner	Site class <sup>c</sup>						All classes
	>225	165-224	120-164	85-119	50-84	20-49	
<i>Thousand acres</i>							
National forest	22	325	587	366	322	22	1,644
BLM	2	67	291	50	26	0	436
Other public	0	39	47	13	0	0	99
Forest industry	63	655	459	135	20	8	1,340
Other private	18	158	175	50	29	0	430
All owners	105	1,244	1,559	615	397	30	3,949

— = none found or less than 500 acres.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> National forest and BLM data are estimated by using the 1977 percentage area by site class applied to the present acreage.

<sup>c</sup> Site class is the mean annual increment cubic-foot growth per acre at culmination in fully stocked natural stands.

**Table 6d—Estimated area of timberland, by cubic-foot site class and owner class, southwest Oregon, January 1, 1997<sup>a b</sup>**

Owner	Site class <sup>c</sup>						All classes
	>225	165-224	120-164	85-119	50-84	20-49	
<i>Thousand acres</i>							
National forest	11	111	513	594	779	90	2,099
BLM	3	149	525	360	355	15	1,407
Other public	0	55	66	18	39	0	178
Forest industry	46	531	552	338	230	39	1,736
Other private	20	117	203	160	172	87	759
All owners	80	963	1,860	1,469	1,574	231	6,178

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> National forest and BLM data are estimated by using the 1977 percentage area by site class applied to the present acreage.

<sup>c</sup> Site class is the mean annual increment cubic-foot growth per acre at culmination in fully stocked natural stands.

**Table 7a—Estimated area of nonfederal timberland, by forest type and stand-size class, western Oregon, January 1, 1997<sup>a</sup>**

Forest type	Large sawtimber	Small sawtimber	Pole-timber	Seedling-sapling	All classes
<i>Thousand acres</i>					
Softwood types:					
Douglas-fir	237	2,289	478	1,308	4,313
Grand fir	9	27	—	26	63
Incense-cedar	7	22	22	29	79
Jeffrey pine	2	—	—	—	2
Noble fir	—	6	6	12	24
Pacific silver fir	—	—	8	—	8
Ponderosa pine	13	—	8	—	20
Port-Orford-cedar	—	16	3	—	19
Redwood	—	2	—	—	2
Sitka spruce	36	54	4	16	109
Western hemlock	1	277	59	100	437
Western redcedar	29	21	—	5	55
White fir	1	34	—	22	58
Total	321	2,746	585	1,538	5,190
Hardwood types:					
Apple	—	—	2	2	4
Bigleaf maple	11	58	47	42	157
Black cottonwood	6	—	7	—	13
California black oak	14	25	—	—	39
California-laurel	15	5	—	—	19
Canyon live oak	—	13	28	—	41
Cherry	—	—	1	3	5
Oregon ash	4	6	—	15	25
Oregon white oak	2	66	40	44	152
Pacific madrone	46	96	85	—	227
Red alder	12	377	202	132	723
Tanoak	3	32	37	52	124
Willow	—	5	2	6	13
Total	31	626	470	415	1,544
Nonstocked <sup>b</sup>	—	—	—	—	101
Unclassified <sup>c</sup>	—	—	—	—	75
All types	352	3,724	1,055	1,954	6,909

— = less than 500 acres or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Nonstocked areas are less than 10 percent stocked with live trees.

<sup>c</sup> Unclassified lands are areas where access was denied.

**Table 7b—Estimated area of nonfederal timberland, by forest type and stand-size class, northwest Oregon, January 1, 1997<sup>a</sup>**

Forest type	Large sawtimber	Small sawtimber	Pole-timber	Seedling-sapling	All classes
<i>Thousand acres</i>					
<b>Softwood types:</b>					
Douglas-fir	96	854	87	350	1,387
Grand fir	—	5	—	—	5
Incense-cedar	—	—	—	2	2
Noble fir	—	6	6	4	16
Pacific silver fir	—	—	—	8	8
Sitka spruce	2	35	4	14	55
Western hemlock	1	191	40	56	288
Western redcedar	28	2	—	5	36
Total	128	1,093	137	440	1,798
<b>Hardwood types:</b>					
Apple	—	—	2	—	2
Bigleaf maple	7	46	6	30	90
Black cottonwood	—	6	—	7	13
Cherry	—	—	1	3	5
Oregon ash	—	6	—	—	6
Oregon white oak	2	16	23	9	49
Red alder	8	203	65	40	317
Total	17	279	97	88	481
Nonstocked <sup>b</sup>	—	—	—	—	42
Unclassified <sup>c</sup>	—	—	—	—	47
All types	145	1,372	234	528	2,369

— = less than 500 acres or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Nonstocked areas are less than 10 percent stocked with live trees.

<sup>c</sup> Unclassified lands are areas where access was denied.

**Table 7c—Estimated area of nonfederal timberland, by forest type and stand-size class, west-central Oregon, January 1, 1997<sup>a</sup>**

Forest type	Large sawtimber	Small sawtimber	Pole-timber	Seedling-sapling	All classes
<i>Thousand acres</i>					
Softwood types:					
Douglas-fir	67	631	170	435	1,302
Grand fir	—	7	—	19	26
Incense-cedar	2	—	—	—	2
Noble fir	—	—	—	8	8
Ponderosa pine	—	1	—	—	1
Sitka spruce	24	13	—	—	38
Western hemlock	—	80	10	31	121
Western redcedar	1	3	—	—	4
Total	95	735	180	493	1,502
Hardwood types:					
Bigleaf maple	4	4	27	9	44
California black oak	—	5	—	—	5
Oregon ash	4	—	—	10	14
Oregon white oak	—	26	13	14	53
Pacific madrone	—	—	—	13	13
Red alder	—	79	47	39	165
Total	7	115	87	85	294
Nonstocked <sup>b</sup>	—	—	—	—	43
Unclassified <sup>c</sup>	—	—	—	—	28
All types	102	850	267	577	1,867

— = less than 500 acres or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Nonstocked areas are less than 10 percent stocked with live trees.

<sup>c</sup> Unclassified lands are areas where access was denied.

**Table 7d—Estimated area of nonfederal timberland, by forest type and stand-size class, southwest Oregon, January 1, 1997<sup>a</sup>**

Forest type	Large sawtimber	Small sawtimber	Pole-timber	Seedling-sapling	All classes
<i>Thousand acres</i>					
<b>Softwood types:</b>					
Douglas-fir	75	804	222	523	1,623
Grand fir	9	15	—	7	31
Incense-cedar	5	22	22	27	75
Jeffrey pine	—	2	—	—	2
Ponderosa pine	—	12	—	8	19
Port-Orford-cedar	—	—	16	3	19
Redwood	—	2	—	—	2
Sitka spruce	9	6	—	2	17
Western hemlock	—	6	9	13	28
Western redcedar	—	15	—	—	15
White fir	1	34	—	22	58
Total	98	918	268	606	1,890
<b>Hardwood types:</b>					
Apple	—	—	—	2	2
Bigleaf maple	—	7	14	2	23
California black oak	—	9	25	—	34
California-laurel	—	15	5	—	19
Canyon live oak	—	—	13	28	41
Oregon ash	—	—	—	5	5
Oregon white oak	—	24	5	21	50
Pacific madrone	—	46	96	72	214
Red alder	4	95	90	53	241
Tanoak	3	32	37	52	124
Willow	—	5	2	6	13
Total	7	233	286	242	768
Nonstocked <sup>b</sup>	—	—	—	—	15
All types	105	1,150	554	848	2,673

— = less than 500 acres or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 8a—Estimated number of growing-stock trees on nonfederal timberland, by species and diameter class, western Oregon, January 1, 1997<sup>a,b</sup>**

Species	Diameter class (inches at breast height)										All classes
	1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	10.0-12.9	11.0-14.9	13.0-14.9	15.0-16.9	17.0-18.9	
Thousand trees											
Softwoods:											
Douglas-fir	197,714	162,095	122,860	97,279	80,061	59,269	42,071	30,173	19,937	14,082	20,156
Grand fir	13,861	7,844	9,513	4,057	2,764	1,305	1,256	1,284	699	510	4,580
Incense-cedar	22,111	12,164	7,506	2,706	2,785	460	915	503	439	246	821
Jeffrey pine	—	—	19	—	—	—	—	—	6	11	—
Knobcone pine	—	—	—	85	59	226	26	47	37	—	—
Lodgepole pine	253	253	—	640	695	761	161	160	252	266	178
Noble fir	4,870	1,410	859	348	100	175	—	33	—	—	17
Pacific silver fir	1,350	—	—	1,414	340	592	310	550	270	203	8
Ponderosa pine	3,482	2,973	2,973	2,973	2,126	627	489	109	183	149	175
Port-Orford-cedar	7,205	4,804	1,585	—	148	166	82	32	24	79	78
Redwood	—	325	—	2,501	2,392	2,157	1,981	1,608	1,380	1,080	45
Sitka spruce	5,112	4,179	—	—	115	338	21	98	81	642	36
Sugar pine	289	437	—	29,990	23,993	16,374	13,931	10,725	6,961	88	464
Western hemlock	62,532	40,654	2,221	1,839	1,517	827	919	580	3,031	1,808	50
Western redcedar	14,978	6,360	—	—	—	—	—	—	296	467	16
Western white pine	3,075	2,425	814	1,671	1,494	844	547	384	225	23	287
White fir	—	—	—	—	—	—	—	—	81	152	537
Total softwoods	336,833	246,781	179,393	137,564	109,870	79,905	59,092	42,123	26,455	18,289	6,204
Hardwoods:											1,268,789
Bigleaf maple	40,430	18,787	9,185	7,484	4,721	3,244	1,856	1,440	1,108	693	90,331
Black cottonwood	160	605	—	13	78	48	42	—	20	34	1,130
black locust	852	—	175	—	37	—	23	—	12	—	1,099
California black oak	7,777	5,718	4,435	1,782	1,290	631	453	262	246	272	23,132
California-laurel	7,668	4,415	1,438	1,171	1,039	291	161	126	37	66	28
Canyon live oak	16,452	3,524	1,804	426	959	187	160	—	—	—	16,510
Cherry	9,261	2,881	1,543	755	167	187	61	49	—	—	23,325
Golden chinkapin	24,543	9,484	5,355	3,463	1,639	603	436	—	75	—	14,906
Holly	200	—	202	110	—	—	—	—	—	—	45,599
Oregon ash	3,265	2,214	1,696	839	174	133	154	55	25	24	512
Oregon white oak	10,159	4,620	3,360	2,853	1,904	1,565	1,184	941	408	302	13
Pacific madrone	43,406	17,387	12,131	6,711	5,370	1,950	1,335	933	585	451	8,606
Red alder	70,312	38,037	30,646	22,615	18,806	12,589	8,335	4,431	2,212	1,222	410
Tanoak	63,432	19,391	10,489	5,207	1,694	632	591	292	365	73	94
Total hardwoods	297,917	127,065	82,459	53,427	37,878	21,872	14,791	8,530	5,093	2,866	3,767
All species	634,750	373,847	261,832	190,991	147,748	101,777	73,883	50,652	31,548	21,155	30,047
	—	—	—	—	—	—	—	—	—	—	675
	— less than 500 trees or none found.										656,339
	<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.										1,925,218
	<sup>b</sup> Growing-stock trees are all live trees except cull trees (noncommercial species are classified as sound cull trees).										

**Table 8b—Estimated number of growing-stock trees on nonfederal timberland, by species and diameter class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Species	Diameter class (inches at breast height)										All classes										
	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	15.0-16.9	17.0-18.9	19.0-20.9											
Thousand trees																					
Softwoods:																					
Douglas-fir	37,021	36,077	28,700	23,154	24,490	19,321	15,366	11,728	8,472	6,138	9,023										
Grand fir	1,229	380	1,234	329	330	141	258	135	101	102	68										
Noble fir	1,714	708	441	695	761	111	160	188	199	60	125										
Pacific silver fir	613	—	348	100	175	—	33	—	—	8	8										
Ponderosa pine	—	—	—	130	93	—	41	—	—	—	—										
Sitka spruce	3,759	2,102	950	1,165	1,527	1,313	1,026	750	867	14	10										
Western hemlock	36,329	15,372	16,727	15,015	10,396	9,490	6,780	4,681	1,763	378	403										
Western redcedar	6,273	2,649	575	1,007	467	581	412	352	126	307	943										
Total softwoods	86,939	57,288	48,975	41,596	38,239	30,957	24,075	17,835	11,528	7,927	11,660										
Hardwoods:																					
Bigleaf maple	11,189	6,127	3,681	3,562	2,646	1,671	903	756	409	364	508										
Black cottonwood	160	—	—	13	78	—	42	—	—	34	66										
Black locust	852	—	175	—	37	—	23	—	12	—	—										
Cherry	6,540	1,873	1,267	300	90	132	61	29	—	—	—										
Golden chinkapin	613	—	—	—	—	—	—	—	—	—	—										
Holly	200	—	202	110	—	—	—	—	—	—	—										
Oregon ash	913	1,706	—	454	111	80	70	55	12	—	—										
Oregon white oak	1,171	591	1,813	1,347	594	516	402	340	240	218	226										
Pacific madrone	—	273	—	90	68	—	—	—	—	—	7										
Red alder	30,700	15,789	17,468	11,162	9,282	6,154	5,127	2,240	1,201	783	621										
Total hardwoods	52,339	26,360	24,607	16,948	12,928	8,620	6,029	3,420	1,874	1,398	1,421										
All species	139,278	83,647	73,582	58,543	51,167	39,577	30,704	21,255	13,402	9,325	13,081										
										224	156,859										
—	= less than 500 trees or none found.																				
<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.																					
<sup>b</sup> Growing-stock trees are all live trees except cull trees (noncommercial species are classified as sound cull trees).																					

**Table 8c—Estimated number of growing-stock trees on nonfederal timberland, by species and diameter class, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Species	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	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0+	All classes
	Diameter class (inches at breast height) <i>Thousand trees</i>												
<i>Softwoods:</i>													
Douglas-fir	40,117	37,423	30,438	31,101	24,411	17,436	11,003	7,893	5,360	4,334	6,065	1,333	216,913
Grand fir	1,821	1,238	1,815	973	563	252	372	125	73	99	151	8	7,480
Incense-cedar	1,451	290	538	94	150	74	52	—	60	15	22	27	2,775
Lodgepole pine	253	253	—	85	59	226	—	—	27	37	—	—	939
Noble fir	3,156	701	199	—	—	50	—	—	64	67	—	53	9
Pacific silver fir	736	859	—	—	—	—	—	—	—	—	—	—	4,300
Ponderosa pine	—	—	—	—	—	13	—	—	67	34	38	—	1,595
Sitka spruce	1,353	1,193	294	293	262	476	368	553	89	265	417	27	192
Western hemlock	20,827	18,145	9,180	6,937	5,101	3,423	2,864	1,878	1,027	601	799	86	5,831
Western redcedar	6,464	2,167	848	603	478	147	134	174	45	77	122	28	11,278
Western white pine	—	—	—	—	—	—	—	—	23	—	—	—	23
Total softwoods	76,179	62,271	43,313	40,087	31,027	22,082	14,859	10,747	6,819	5,391	7,655	1,774	322,205
<i>Hardwoods:</i>													
Bigleaf maple	6,436	5,830	3,161	2,217	913	933	595	494	347	216	320	42	21,505
Black cottonwood	—	605	—	—	100	407	54	—	20	—	—	6	679
California black oak	—	—	617	—	—	—	31	74	46	—	23	32	—
Canyon live oak	—	—	—	275	251	—	56	—	—	—	—	—	1,395
Cherry	1,031	1,009	509	39	820	1,086	406	206	—	20	—	—	—
Golden chinkapin	4,074	—	—	—	—	—	—	—	—	45	—	—	2,642
Holly	—	507	820	232	64	53	20	—	—	—	—	—	7,185
Oregon ash	2,351	1,513	490	413	655	271	143	155	92	24	174	5	4,099
Oregon white oak	2,348	—	805	254	—	—	57	—	—	—	14	20	6,296
Pacific madrone	—	25,967	9,477	4,729	4,853	4,691	3,122	1,268	1,154	517	190	344	1,131
Red alder	—	—	—	—	—	—	—	—	—	—	—	63	56,376
Total hardwoods	42,207	19,450	10,937	9,140	7,816	4,942	2,263	1,956	1,080	476	889	141	101,297
All species	118,386	81,720	54,250	49,227	38,843	27,025	17,122	12,703	7,899	5,867	8,544	1,915	423,502

— = less than 500 trees or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Growing-stock trees are all live trees except cull trees (noncommercial species are classified as sound cull trees).

**Table 8d—Estimated number of growing-stock trees on nonfederal timberland, by species and diameter class, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Species	Diameter class (inches at breast height)										All classes
	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	15.0-16.9	17.0-18.9	19.0-20.9	
<i>Softwoods:</i>											
Douglas-fir	120,575	88,595	63,722	43,024	31,160	22,512	15,702	10,552	6,105	3,610	5,068
Grand fir	10,812	6,226	6,464	2,755	1,881	912	627	1,024	524	309	602
Incense-cedar	20,660	11,873	6,968	2,611	2,635	386	864	503	379	231	309
Jeffrey pine	—	—	—	19	—	—	—	—	6	11	—
Knobcone pine	—	—	—	—	—	—	43	—	—	—	—
Lodgepole pine	3,482	2,973	1,414	209	485	310	442	236	165	175	46
Ponderosa pine	7,205	4,804	1,585	2,126	627	489	109	183	149	79	54
Port-Orford-cedar	—	325	—	148	166	82	32	24	6	45	10,121
Redwood	—	885	1,257	934	369	192	215	77	124	36	9
Sitka spruce	—	885	—	115	338	21	98	81	64	164	83
Sugar pine	289	437	—	2,041	876	1,018	1,082	402	241	264	50
Western hemlock	5,376	7,136	4,083	2,041	876	99	372	55	124	83	130
Western redcedar	2,240	1,544	798	228	572	99	372	55	124	83	130
White fir	3,075	2,425	814	1,671	1,494	844	547	384	225	81	8
Total softwoods	173,716	127,223	87,105	55,881	40,604	26,865	20,158	13,540	8,108	4,971	6,965
<i>Hardwoods:</i>											
Bigleaf maple	22,804	6,831	2,342	1,704	1,161	640	358	190	352	113	297
Black cottonwood	—	—	—	—	—	—	—	—	—	—	14
California black oak	7,777	5,718	3,818	1,683	882	576	422	188	200	249	177
California-laurel	7,668	4,415	1,438	1,171	1,039	291	161	126	37	66	58
Canyon live oak	16,452	3,524	1,804	426	959	—	160	—	—	—	28
Cherry	1,690	—	—	204	77	—	—	—	—	—	23,325
Golden chinkapin	19,856	8,975	5,316	2,643	553	197	229	—	30	—	—
Oregon ash	—	—	877	153	—	—	64	—	—	—	37,800
Oregon white oak	6,641	2,516	1,057	1,093	656	778	638	446	76	9	1,103
Pacific madrone	43,406	17,115	11,325	6,457	5,280	1,882	1,335	876	585	52	21
Red alder	13,645	12,771	8,449	6,599	4,833	3,313	1,940	1,037	494	396	14,034
Tanoak	63,432	19,391	10,489	5,207	1,694	632	591	292	365	73	261
Total hardwoods	203,371	81,256	46,915	27,339	17,134	8,310	5,899	3,154	2,138	991	1,457
All species	377,087	208,479	134,020	83,220	57,738	35,175	26,057	16,695	10,246	5,962	8,422
—	—	—	—	—	—	—	—	—	—	17	102,379
											398,583

— = less than 500 trees or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Growing-stock trees are all live trees except cull trees (noncommercial species are classified as sound cull trees).

Table 9a—Estimated net volume of growing stock on nonfederal timberland, by species and diameter class, western Oregon, January 1, 1997<sup>a,b</sup>

Species	Diameter class (inches at breast height)						All classes			
	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	21.0- 28.9	29.0+
<i>Million cubic feet</i>										
Softwoods:										
Douglas-fir	312	669	1,068	1,327	1,376	1,385	1,248	1,142	2,523	1,323
Grand fir	19	31	42	30	53	58	40	40	107	22
Incense-cedar	16	12	19	6	15	12	9	9	22	442
Jeffrey pine	—	—	—	—	—	—	—	1	21	143
Knobcone pine	—	—	—	—	1	—	—	—	—	2
Lodgepole pine	—	—	1	1	5	1	2	2	—	1
Noble fir	2	5	9	3	7	12	14	5	18	13
Ponderosa pine	4	2	6	7	13	10	9	12	20	76
Port-Orford-cedar	4	9	4	6	2	4	6	4	7	101
Redwood	—	—	1	1	1	1	1	4	7	47
Sitka spruce	7	14	26	38	48	60	62	49	98	14
Sugar pine	—	1	2	—	3	2	2	4	4	578
Western hemlock	92	203	268	356	398	345	203	154	300	23
Western redcedar	5	12	21	16	25	20	14	31	81	2,407
Western white pine	—	—	—	—	—	—	1	—	156	383
White fir	2	10	13	13	15	14	10	6	12	1
Total softwoods	464	968	1,480	1,808	1,959	1,926	1,623	1,459	3,198	95
Hardwoods:										
Bigleaf maple	29	49	60	75	60	69	65	54	134	99
Black cottonwood	—	—	1	1	2	—	1	3	11	36
California black oak	13	12	16	12	14	10	14	18	18	140
California-laurel	5	8	11	5	5	4	2	4	8	58
Canyon live oak	5	2	6	—	5	—	—	—	—	17
Cherry	2	4	1	3	1	2	—	—	—	14
Golden chinkapin	18	26	19	10	13	5	5	—	—	91
Oregon ash	7	4	3	3	5	3	2	2	2	33
Oregon white oak	10	17	26	34	38	45	26	18	53	282
Pacific madrone	37	47	70	39	30	35	26	9	34	340
Red alder	99	169	288	308	302	220	129	105	121	1,756
Tanoak	20	22	12	7	11	8	13	4	16	4
Total hardwoods	245	362	512	498	486	397	283	216	396	183
All species	709	1,329	1,993	2,306	2,445	2,323	1,906	1,675	3,593	3,578

— = less than 500,000 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

**Table 9b—Estimated net volume of growing stock on nonfederal timberland, by species and diameter class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Species	Diameter class (inches at breast height)						All classes
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	
Million cubic feet							
Softwoods:							
Douglas-fir	73	160	349	451	518	540	514
Grand fir	2	4	6	3	8	6	7
Noble fir	1	5	9	2	7	10	5
Ponderosa pine	—	—	—	—	1	—	—
Sitka spruce	2	9	18	22	32	33	50
Western hemlock	57	138	184	261	268	251	127
Western redcedar	1	7	7	10	13	11	7
Total softwoods	138	322	573	749	851	852	741
Hardwoods:							
Bigleaf maple	12	23	30	38	31	39	26
Black cottonwood	—	—	1	—	2	—	—
Cherry	2	2	1	2	1	1	—
Oregon ash	—	1	1	2	2	3	—
Oregon white oak	5	8	7	11	12	13	12
Pacific madrone	—	—	2	1	—	—	—
Red alder	59	89	151	156	189	109	70
White alder	1	—	—	—	—	—	—
Total hardwoods	79	123	193	210	237	165	109
All species	216	445	765	959	1,088	1,018	850

— = less than 500,000 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes growing-stock trees 5.0 inches in d.b.h. and larger.

Table 9c—Estimated net volume of growing stock on nonfederal timberland, by species and diameter class,  
west-central Oregon, January 1, 1997<sup>a,b</sup>

Species	Diameter class (inches at breast height)										All classes
	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	21.0-28.9	29.0+	
<i>Million cubic feet</i>											
Softwoods:											
Douglas-fir	87	220	319	412	374	404	362	369	766	376	3,689
Grand fir	4	6	8	5	17	5	4	8	18	2	76
Incense-cedar	2	1	2	1	1	—	2	1	2	5	17
Lodgepole pine	—	1	1	5	—	1	2	—	—	—	10
Noble fir	—	—	—	1	—	2	3	—	4	1	12
Ponderosa pine	—	—	—	—	2	1	1	—	2	4	10
Sitka spruce	1	1	3	13	10	24	5	20	41	123	241
Western hemlock	23	49	72	69	94	80	58	42	80	18	585
Western redcedar	2	3	6	3	2	7	2	4	10	7	48
Western white pine	—	—	—	—	—	—	1	—	—	—	1
Total softwoods	120	281	410	509	500	524	441	444	924	536	4,688
Hardwoods:											
Bigleaf maple	11	15	16	23	18	21	18	17	34	22	196
Black cottonwood	—	—	—	1	—	1	1	—	—	2	4
California black oak	2	1	6	1	1	4	3	2	4	—	24
Cherry	1	1	—	1	—	1	—	—	—	—	4
Golden chinkapin	—	8	12	7	5	—	3	—	—	—	35
Oregon ash	4	2	1	1	1	—	1	2	1	2	16
Oregon white oak	1	2	9	8	6	10	8	2	25	8	80
Pacific madrone	4	2	—	—	—	2	—	—	2	—	11
Red alder	14	30	63	77	42	48	25	14	29	9	350
Total hardwoods	38	61	107	119	73	86	60	37	96	42	720
All species	158	342	517	628	573	611	501	481	1,020	578	5,408

— = less than 500,000 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes growing-stock trees 5.0 inches in d.b.h. and larger.

Table 9d—Estimated net volume of growing stock on nonfederal timberland, by species and diameter class,  
southwest Oregon, January 1, 1997<sup>a,b</sup>

Species	Diameter class (inches at breast height)										All classes
	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	21.0- 28.9	29.0+	
Million cubic feet											
Softwoods:											
Douglas-fir	152	289	401	465	484	442	346	259	607	495	3,940
Grand fir	13	21	28	21	23	46	31	26	80	17	307
Incense-cedar	14	11	18	5	14	12	10	8	20	15	126
Jeffrey pine	—	—	—	—	—	—	—	—	1	—	2
Knobcone pine	—	—	—	—	—	1	—	—	—	—	1
Lodgepole pine	—	—	—	—	—	1	1	—	—	—	2
Ponderosa pine	4	1	5	7	10	9	8	12	16	14	87
Port-Orford-cedar	4	9	4	6	2	4	6	4	7	1	47
Redwood	—	—	1	1	1	1	1	4	4	1	14
Sitka spruce	4	4	5	3	6	2	7	—	16	16	63
Sugar pine	—	1	2	—	3	2	2	4	4	4	23
Western hemlock	12	17	12	27	37	15	18	20	29	17	202
Western redcedar	1	2	8	3	10	2	5	6	14	69	120
White fir	2	10	13	13	15	14	10	6	11	2	95
Total softwoods	206	365	498	551	608	550	442	348	809	652	5,028
Hardwoods:											
Bigleaf maple	6	11	14	14	11	8	20	7	30	27	149
Black cottonwood	—	—	—	—	—	—	—	—	—	2	2
California black oak	10	11	10	11	13	6	11	15	14	15	116
California-laurel	5	8	11	5	5	4	2	4	8	6	58
Canyon live oak	5	2	6	5	5	—	—	—	—	—	17
Cherry	—	1	1	—	—	—	—	—	—	—	2
Golden chinkapin	18	18	7	3	7	—	2	—	—	—	55
Oregon ash	3	1	—	—	2	—	—	—	1	—	6
Oregon white oak	4	7	9	16	21	22	6	3	5	4	97
Pacific madrone	33	45	68	38	30	33	26	9	31	12	326
Red alder	26	51	75	75	70	63	34	25	32	—	451
Tanoak	20	22	12	7	11	8	13	4	16	4	117
Total hardwoods	129	178	213	169	176	145	114	67	138	69	1,398
All species	336	543	710	719	784	695	555	415	947	722	6,427

— = less than 500,000 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

**Table 10a—Estimated net volume of sawtimber on nonfederal timberland, by species and diameter class, western Oregon, January 1, 1997<sup>a,b</sup>**

Species	Diameter class (inches at breast height)								All classes	
	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
<i>Million board feet, Scribner rule</i>										
<b>Softwoods:</b>										
Douglas-fir	2,718	4,310	5,073	5,587	5,377	5,142	12,170	6,913	47,290	
Grand fir	108	103	217	245	176	186	541	117	1,694	
Incense-cedar	28	12	32	31	28	23	67	76	298	
Jeffrey pine	—	—	—	—	—	1	7	—	7	
Knobcone pine	—	—	2	—	—	—	—	—	2	
Lodgepole pine	3	15	5	8	8	—	—	—	39	
Noble fir	19	10	24	50	55	22	83	11	274	
Ponderosa pine	10	19	36	35	34	49	86	107	376	
Port-Orford-cedar	7	13	5	11	16	11	26	5	94	
Redwood	1	1	4	4	2	13	14	8	47	
Sitka spruce	62	115	167	219	247	198	414	893	2,317	
Sugar pine	4	1	8	7	5	17	15	22	79	
Western hemlock	740	1,214	1,540	1,454	908	702	1,422	444	8,424	
Western redcedar	53	44	82	70	49	118	326	672	1,414	
Western white pine	—	—	—	—	5	—	—	—	5	
White fir	28	35	49	46	37	24	46	7	271	
Total softwoods	3,781	5,893	7,247	7,766	6,947	6,506	15,217	9,274	62,630	
<b>Hardwoods:</b>										
Bigleaf maple	—	308	259	297	241	214	526	331	2,176	
Black cottonwood	—	3	8	—	4	17	57	102	191	
California black oak	—	22	26	17	24	41	45	47	222	
California-laurel	—	13	13	12	6	13	27	15	100	
Canyon live oak	—	—	11	—	—	—	—	—	11	
Cherry	—	13	3	7	—	—	—	—	23	
Golden chinkapin	—	29	42	—	20	—	—	—	92	
Oregon ash	—	3	8	5	4	2	5	8	35	
Oregon white oak	—	81	94	114	63	40	129	33	554	
Pacific madrone	—	120	92	107	77	17	87	21	523	
Red alder	—	1,132	1,322	1,061	629	540	613	65	5,363	
Tanoak	—	21	35	26	45	13	57	15	213	
Total hardwoods	—	1,746	1,914	1,644	1,115	898	1,548	636	9,503	
All species	3,781	7,639	9,160	9,410	8,062	7,405	16,766	9,911	72,133	

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 10b—Estimated net volume of sawtimber on nonfederal timberland, by species and diameter class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Species	Diameter class (inches at breast height)								All classes	
	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
<i>Million board feet, Scribner rule</i>										
<b>Softwoods:</b>										
Douglas-fir	914	1,493	1,942	2,211	2,369	2,356	5,577	2,364	19,226	
Grand fir	16	11	55	34	25	32	37	15	225	
Noble fir	19	7	24	42	40	22	66	5	225	
Ponderosa pine	—	—	1	—	—	—	6	6	14	
Sitka spruce	41	64	112	117	197	115	174	182	1,003	
Western hemlock	507	892	1,044	1,065	578	418	912	263	5,678	
Western redcedar	19	25	43	37	25	85	236	348	817	
Total softwoods	1,516	2,494	3,222	3,506	3,233	3,028	7,008	3,183	27,189	
<b>Hardwoods:</b>										
Bigleaf maple	—	158	136	176	103	112	313	185	1,183	
Black cottonwood	—	—	8	—	—	17	57	82	164	
Cherry	—	9	3	3	—	—	—	—	15	
Oregon ash	—	2	4	5	2	—	—	2	15	
Oregon white oak	—	26	28	33	28	29	54	5	203	
Pacific madrone	—	3	—	—	—	—	—	—	3	
Red alder	—	571	833	527	341	346	309	24	2,950	
Total hardwoods	—	768	1,012	745	473	505	733	297	4,533	
All species	1,516	3,262	4,234	4,251	3,707	3,533	7,741	3,480	31,722	

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 10c—Estimated net volume of sawtimber on nonfederal timberland, by species and diameter class, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Species	Diameter class (inches at breast height)								All classes
	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+	
<i>Million board feet, Scribner rule</i>									
Softwoods:									
Douglas-fir	806	1,348	1,403	1,656	1,566	1,675	7,741	1,941	14,099
Grand fir	23	18	70	18	17	35	3,704	8	276
Incense-cedar	3	3	2	—	5	2	87	18	41
Lodgepole pine	3	15	—	4	8	—	8	—	30
Noble fir	—	3	—	8	15	—	—	6	49
Ponderosa pine	—	—	5	3	4	—	16	19	40
Sitka spruce	7	43	33	96	18	83	8	628	1,076
Western hemlock	203	229	360	332	256	195	168	91	2,048
Western redcedar	14	8	6	26	9	14	382	26	141
Western white pine	—	—	—	—	5	—	37	—	5
Total softwoods	1,059	1,667	1,880	2,143	1,904	2,004	12,151	2,739	17,805
Hardwoods:									
Bigleaf maple	—	96	80	99	68	76	96	64	605
Black cottonwood	—	3	—	—	4	—	—	10	16
California black oak	—	2	2	7	6	6	7	—	34
Cherry	—	4	—	4	—	—	—	—	8
Golden chinkapin	—	21	19	—	14	—	—	—	54
Oregon ash	—	1	2	—	3	2	—	6	17
Oregon white oak	—	20	14	26	20	4	57	20	167
Pacific madrone	—	—	—	8	—	—	11	—	19
Red alder	—	288	186	229	121	61	109	41	1,063
Total hardwoods	—	434	302	374	235	149	280	141	1,983
All species	1,059	2,101	2,182	2,516	2,139	2,153	12,431	2,879	19,789

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 10d—Estimated net volume of sawtimber on nonfederal timberland, by species and diameter class, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Species	Diameter class (inches at breast height)								All classes	
	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0+		
<i>Million board feet, Scribner rule</i>										
<b>Softwoods:</b>										
Douglas-fir	998	1,468	1,728	1,720	1,443	1,111	2,890	2,607	13,964	
Grand fir	69	74	92	192	134	119	417	94	1,192	
Incense-cedar	25	9	30	31	23	21	60	58	256	
Jeffrey pine	—	—	—	—	—	1	7	—	7	
Knobcone pine	—	—	2	—	—	—	—	—	2	
Lodgepole pine	—	—	5	4	—	—	—	—	10	
Ponderosa pine	10	19	30	32	29	49	72	81	322	
Port-Orford-cedar	7	13	5	11	16	11	26	5	94	
Redwood	1	1	4	4	2	13	14	8	47	
Sitka spruce	14	8	23	6	32	—	73	83	238	
Sugar pine	4	1	8	7	5	17	15	22	79	
Western hemlock	30	93	136	58	74	89	129	89	698	
Western redcedar	20	11	33	7	14	20	53	298	456	
White fir	28	35	49	46	37	24	46	7	271	
Total softwoods	1,206	1,732	2,145	2,117	1,810	1,475	3,800	3,352	17,636	
<b>Hardwoods:</b>										
Bigleaf maple	—	54	44	22	70	26	90	82	388	
Black cottonwood	—	—	—	—	—	—	—	11	11	
California black oak	—	20	24	10	18	35	35	47	189	
California-laurel	—	13	13	12	6	13	27	15	100	
Canyon live oak	—	—	11	—	—	—	—	—	11	
Golden chinkapin	—	9	23	—	6	—	—	—	38	
Oregon ash	—	—	2	—	—	—	2	—	4	
Oregon white oak	—	36	52	54	15	7	11	8	183	
Pacific madrone	—	117	92	99	77	17	77	21	501	
Red alder	—	273	304	304	168	133	168	—	1,350	
Tanoak	—	21	35	26	45	13	57	15	213	
Total hardwoods	—	544	599	526	406	244	467	199	2,986	
All species	1,206	2,276	2,744	2,643	2,216	1,719	4,267	3,551	20,622	

— = less than 500,000 board feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 11a—Estimated net volume of growing stock and sawtimber on nonfederal timberland, by class of timber, owner class, and species group, western Oregon, January 1, 1997<sup>a</sup>**

Class of timber and owner class	Average volume <i>Cubic feet per acre</i>	Species group			All species <i>Million cubic feet</i>
		Softwoods	Hardwoods		
<i>Growing stock:<sup>b</sup></i>					
Other public	4,678	3,365	612	3,976	
Forest industry	2,870	10,243	1,750	11,994	
Other private	2,291	3,092	1,215	4,307	
Total, growing stock	2,935	16,700	3,577	20,278	
<i>Sawtimber (Scribner rule):<sup>c</sup></i>					
Other public	18,596	13,904	1,903	15,807	
Forest industry	9,893	37,062	4,280	41,342	
Other private	7,971	11,664	3,320	14,985	
Total, sawtimber	10,440	62,630	9,503	72,133	

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

<sup>c</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 11b—Estimated net volume of growing stock and sawtimber on nonfederal timberland, by class of timber, owner class, and species group, northwestern Oregon, January 1, 1997<sup>a</sup>**

Class of timber and owner class	Average volume <i>Cubic feet per acre</i>	Species group		All species <i>Million cubic feet</i>
		Softwoods	Hardwoods	
<i>Growing stock:<sup>b</sup></i>				
Other public	4,893	2,326	483	2,809
Forest industry	3,620	3,541	454	3,996
Other private	2,372	1,117	522	1,639
Total, growing stock	3,566	6,983	1,460	8,444
<i>Sawtimber (Scribner rule):<sup>c</sup></i>				
Other public	18,623	9,173	1,517	10,690
Forest industry	13,172	13,268	1,274	14,542
Other private	9,394	4,748	1,743	6,491
Total, sawtimber	13,396	27,189	4,533	31,722

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

<sup>c</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 11c—Estimated net volume of growing stock and sawtimber on nonfederal timberland, by class of timber, owner class, and species group, west-central Oregon, January 1, 1997<sup>a</sup>**

Class of timber and owner class	Average volume <i>Cubic feet per acre</i>	Species group		All species <i>Million cubic feet</i>
		Softwoods	Hardwoods	
<i>Growing stock:<sup>b</sup></i>				
Other public	4,010	345	44	389
Forest industry	2,928	3,511	409	3,920
Other private	2,556	833	266	1,099
Total, growing stock	2,897	4,688	720	5,408
<i>Sawtimber (Scribner rule):<sup>c</sup></i>				
Other public	17,959	1,597	146	1,742
Forest industry	10,524	13,038	1,054	14,092
Other private	9,198	3,171	784	3,955
Total, sawtimber	10,599	17,805	1,983	19,789

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

<sup>c</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger

**Table 11d—Estimated net volume of growing stock and sawtimber on nonfederal timberland, by class of timber, owner class, and species group, southwest Oregon, January 1, 1997<sup>a</sup>**

Class of timber and owner class	Average volume <i>Cubic feet per acre</i>	Species group		All species <i>Million cubic feet</i>
		Softwoods	Hardwoods	
<i>Growing stock:<sup>b</sup></i>				
Other public	4,352	695	84	779
Forest industry	2,349	3,191	887	4,078
Other private	2,068	1,142	427	1,570
Total, growing stock	2,288	5,028	1,398	6,427
<i>Sawtimber (Scribner rule):<sup>c</sup></i>				
Other public	18,855	3,134	240	3,375
Forest industry	7,320	10,756	1,952	12,708
Other private	5,980	3,746	794	4,539
Total, sawtimber	7,341	17,636	2,986	20,622

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

<sup>c</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger

**Table 12a—Estimated net volume of growing stock on nonfederal timberland, by species and owner class, western Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public	Forest industry	Other private	All owners
<i>Million cubic feet</i>				
Softwoods:				
Douglas-fir	2,625	7,347	2,403	12,375
Grand fir	31	267	143	442
Incense-cedar	9	74	60	143
Jeffrey pine	—	2	—	2
Knobcone pine	—	1	—	1
Lodgepole pine	—	—	13	13
Noble fir	26	49	—	76
Ponderosa pine	8	28	65	101
Port-Orford-cedar	4	30	13	47
Redwood	—	11	3	14
Sitka spruce	71	407	100	578
Sugar pine	3	13	7	23
Western hemlock	546	1,748	113	2,407
Western redcedar	27	200	155	383
Western white pine	—	—	1	1
White fir	13	67	15	95
Total	3,365	10,243	3,092	16,700
Hardwoods:				
Bigleaf maple	95	318	280	693
Black cottonwood	4	15	17	36
California black oak	9	28	104	140
California-laurel	6	45	7	58
Canyon live oak	1	13	4	17
Cherry	—	6	7	14
Golden chinkapin	—	83	7	91
Oregon ash	—	16	17	33
Oregon white oak	10	120	153	282
Pacific madrone	20	170	150	340
Red alder	467	845	444	1,756
Tanoak	1	91	25	117
Total	612	1,750	1,215	3,577
All species	3,976	11,994	4,307	20,278

— = less than 500,000 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes growing-stock trees 5 inches in d.b.h. and larger.

**Table 12b—Estimated net volume of growing stock on nonfederal timberland, by species and owner class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public	Forest industry	Other private	All owners
<i>Million cubic feet</i>				
<b>Softwoods:</b>				
Douglas-fir	1,683	2,168	895	4,747
Grand fir	22	21	17	60
Noble fir	26	38	—	64
Ponderosa pine	—	2	1	4
Sitka spruce	46	209	20	274
Western hemlock	522	1,046	52	1,620
Western redcedar	26	58	131	215
Total	2,326	3,541	1,117	6,983
<b>Hardwoods:</b>				
Bigleaf maple	82	90	176	348
Black cottonwood	—	15	15	30
Cherry	—	3	5	8
Oregon ash	—	1	10	11
Oregon white oak	—	17	88	105
Pacific madrone	3	—	—	3
Red alder	398	329	228	954
Total	483	454	522	1,460
All species	2,809	3,996	1,639	8,444

— = less than 500,000 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

**Table 12c—Estimated net volume of growing stock on nonfederal timberland, by species and owner class, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public	Forest industry	Other private	All owners
<i>Million cubic feet</i>				
Softwoods:				
Douglas-fir	340	2,698	651	3,689
Grand fir	—	27	49	76
Incense-cedar	—	12	4	17
Lodgepole pine	—	—	10	10
Noble fir	—	12	—	12
Ponderosa pine	—	1	9	10
Sitka spruce	—	184	57	241
Western hemlock	4	537	43	585
Western redcedar	—	39	8	48
Western white pine	—	—	1	1
Total	345	3,511	833	4,688
Hardwoods:				
Bigleaf maple	8	113	75	196
Black cottonwood	4	—	—	4
California black oak	—	—	24	24
Cherry	—	1	2	4
Golden chinkapin	—	32	4	35
Oregon ash	—	11	5	16
Oregon white oak	—	58	22	80
Pacific madrone	—	6	5	11
Red alder	33	189	129	350
Total	44	409	266	720
All species	389	3,920	1,099	5,408

— = less than 500,000 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes growing-stock trees 5 inches in d.b.h. and larger.

**Table 12d—Estimated net volume of growing stock on nonfederal timberland, by species and owner class, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public	Forest industry	Other private	All owners
<i>Million cubic feet</i>				
<b>Softwoods:</b>				
Douglas-fir	601	2,482	857	3,940
Grand fir	9	220	77	307
Incense-cedar	9	62	56	126
Jeffrey pine	—	2	—	2
Knobcone pine	—	1	—	1
Lodgepole pine	—	—	2	2
Ponderosa pine	8	24	55	87
Port-Orford-cedar	4	30	13	47
Redwood	—	11	3	14
Sitka spruce	25	14	24	63
Sugar pine	3	13	7	23
Western hemlock	19	165	18	202
Western redcedar	1	102	16	120
White fir	13	67	15	95
Total	695	3,191	1,142	5,028
<b>Hardwoods:</b>				
Bigleaf maple	4	115	30	149
Black cottonwood	—	—	2	2
California black oak	9	28	80	116
California-laurel	6	45	7	58
Canyon live oak	1	13	4	17
Cherry	—	2	—	2
Golden chinkapin	—	52	4	55
Oregon ash	—	4	2	6
Oregon white oak	10	45	42	97
Pacific madrone	17	164	145	326
Red alder	36	327	88	451
Tanoak	1	91	25	117
Total	84	887	427	1,398
All species	779	4,078	1,570	6,427

— = less than 500,000 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes growing-stock trees 5 inches in d.b.h. and larger.

**Table 13a—Estimated net volume of sawtimber on nonfederal timberland, by species and owner class, western Oregon, January 1, 1997<sup>a b</sup>**

Species	Other public	Forest industry	Other private	All owners
<i>Million board feet, Scribner rule</i>				
<b>Softwoods:</b>				
Douglas-fir	11,088	27,018	9,184	47,290
Grand fir	102	1,036	556	1,694
Incense-cedar	32	159	107	298
Jeffrey pine	—	7	1	7
Knobcone pine	—	2	—	2
Lodgepole pine	—	—	39	39
Noble fir	99	174	—	274
Ponderosa pine	41	99	236	376
Port-Orford-cedar	11	55	28	94
Redwood	—	41	5	47
Sitka spruce	243	1,653	421	2,317
Sugar pine	10	44	25	79
Western hemlock	2,135	5,879	411	8,424
Western redcedar	96	721	597	1,414
Western white pine	—	—	5	5
White fir	48	173	50	271
Total	13,904	37,062	11,664	62,630
<b>Hardwoods:</b>				
Bigleaf maple	338	926	912	2,176
Black cottonwood	16	77	98	191
California black oak	13	49	160	222
California-laurel	11	75	14	100
Canyon live oak	—	10	1	11
Cherry	—	—	23	23
Golden chinkapin	—	84	8	92
Oregon ash	—	5	30	35
Oregon white oak	23	257	274	554
Pacific madrone	31	259	233	523
Red alder	1,471	2,374	1,518	5,363
Tanoak	—	163	50	213
Total	1,903	4,280	3,320	9,503
All species	15,807	41,342	14,985	72,133

— = less than 500,000 board feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 13b—Estimated net volume of sawtimber on nonfederal timberland, by species and owner class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public	Forest industry	Other private	All owners
<i>Million board feet, Scribner rule</i>				
<b>Softwoods:</b>				
Douglas-fir	6,685	8,677	3,865	19,226
Grand fir	83	73	69	225
Noble fir	99	125	—	225
Ponderosa pine	—	8	6	14
Sitka spruce	158	762	83	1,003
Western hemlock	2,057	3,421	200	5,678
Western redcedar	91	203	523	817
Total	9,173	13,268	4,748	27,189
<b>Hardwoods:</b>				
Bigleaf maple	288	291	604	1,183
Black cottonwood	—	77	87	164
Cherry	—	—	15	15
Oregon ash	—	—	15	15
Oregon white oak	—	33	171	203
Pacific madrone	3	—	—	3
Red alder	1,225	873	851	2,950
Total	1,517	1,274	1,743	4,533
All species	10,690	14,542	6,491	31,722

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 13c—Estimated net volume of sawtimber on nonfederal timberland, by species and owner class, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public	Forest industry	Other private	All owners
<i>Million board feet, Scribner rule</i>				
Softwoods:				
Douglas-fir	1,581	10,019	2,499	14,099
Grand fir	—	83	193	276
Incense-cedar	—	34	7	41
Lodgepole pine	—	—	30	30
Noble fir	—	49	—	49
Ponderosa pine	—	4	36	40
Sitka spruce	—	837	239	1,076
Western hemlock	15	1,898	135	2,048
Western redcedar	—	115	26	141
Western white pine	—	—	5	5
Total	1,597	13,038	3,171	17,805
Hardwoods:				
Bigleaf maple	38	338	230	605
Black cottonwood	16	—	—	16
California black oak	—	—	34	34
Cherry	—	—	8	8
Golden chinkapin	—	50	3	54
Oregon ash	—	3	14	17
Oregon white oak	—	124	43	167
Pacific madrone	—	16	3	19
Red alder	92	523	449	1,063
Total	146	1,054	784	1,983
All species	1,742	14,092	3,955	19,789

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 13d—Estimated net volume of sawtimber on nonfederal timberland, by species and owner class, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public	Forest industry	Other private	All owners
<i>Million board feet, Scribner rule</i>				
<b>Softwoods:</b>				
Douglas-fir	2,821	8,323	2,820	13,964
Grand fir	19	880	293	1,192
Incense-cedar	32	125	100	256
Jeffrey pine	—	7	1	7
Knobcone pine	—	2	—	2
Lodgepole pine	—	—	10	10
Ponderosa pine	41	88	193	322
Port-Orford-cedar	11	55	28	94
Redwood	—	41	5	47
Sitka spruce	85	54	99	238
Sugar pine	10	44	25	79
Western hemlock	63	560	75	698
Western redcedar	4	404	48	456
White fir	48	173	50	271
Total	3,134	10,756	3,746	17,636
<b>Hardwoods:</b>				
Bigleaf maple	12	298	78	388
Black cottonwood	—	—	11	11
California black oak	13	49	127	189
California-laurel	11	75	14	100
Canyon live oak	—	10	1	11
Golden chinkapin	—	33	5	38
Oregon ash	—	2	2	4
Oregon white oak	23	100	60	183
Pacific madrone	28	243	230	501
Red alder	153	978	218	1,350
Tanoak	—	163	50	213
Total	240	1,952	794	2,986
All species	3,375	12,708	4,539	20,622

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 14a—Estimated net volume of growing stock on nonfederal timberland, by forest type and stand-size class, western Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Large sawtimber	Small sawtimber	Pole-timber	Seedling-sapling	All classes
<i>Million cubic feet</i>					
Softwood types:					
Douglas-fir	1,612	10,424	685	333	13,054
Grand fir	70	75	—	51	196
Incense-cedar	11	21	53	17	102
Jeffrey pine	—	—	—	—	—
Noble fir	—	8	8	1	17
Pacific silver fir	—	—	—	2	2
Ponderosa pine	—	32	—	4	36
Port-Orford-cedar	—	—	24	—	24
Redwood	—	13	—	—	13
Sitka spruce	214	265	4	1	484
Western hemlock	1	1,719	132	37	1,890
Western redcedar	150	79	—	2	230
White fir	1	48	—	8	57
Total	2,057	12,686	906	456	16,104
Hardwood types:					
Apple	—	—	1	1	2
Bigleaf maple	50	171	97	14	332
Black cottonwood	—	16	—	5	21
California black oak	—	47	26	—	73
California-laurel	—	98	16	—	114
Canyon live oak	—	—	19	9	28
Cherry	—	—	—	1	1
Oregon ash	6	3	—	9	18
Oregon white oak	—	217	46	32	295
Pacific madrone	—	88	269	48	405
Red alder	50	1,590	479	61	2,181
Tanoak	10	99	79	21	209
Willow	—	—	—	—	—
Total	117	2,328	1,032	204	3,681
Nonstocked <sup>c</sup>	—	—	—	—	493
All types	2,174	15,014	1,938	659	20,278

— = less than 500,000 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees. Includes projected access-denied areas.

**Table 14b—Estimated net volume of growing stock on nonfederal timberland, by forest type and stand-size class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Large sawtimber	Small sawtimber	Pole-timber	Seedling-sapling	All classes
<i>Million cubic feet</i>					
Softwood types:					
Douglas-fir	674	4,048	82	85	4,889
Grand fir	—	8	—	—	8
Noble fir	—	8	8	—	16
Pacific silver fir	—	—	—	2	2
Sitka spruce	3	195	4	1	203
Western hemlock	1	1,300	96	22	1,419
Western redcedar	148	4	—	2	154
Total	826	5,565	191	111	6,692
Hardwood types:					
Apple	—	—	1	—	1
Bigleaf maple	40	143	12	13	209
Black cottonwood	—	16	—	5	21
Cherry	—	—	—	1	1
Oregon ash	—	3	—	—	3
Oregon white oak	—	41	31	9	81
Red alder	30	928	126	29	1,113
Total	70	1,130	170	57	1,428
Nonstocked <sup>c</sup>	—	—	—	—	324
All types	896	6,695	361	167	8,444

— = less than 500,000 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees. Includes projected access-denied areas.

**Table 14c—Estimated net volume of growing stock on nonfederal timberland, by forest type and stand-size class, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Large sawtimber	Small sawtimber	Pole-timber	Seedling-sapling	All classes
<i>Million cubic feet</i>					
Softwood types:					
Douglas-fir	328	3,272	241	92	3,933
Grand fir	—	29	—	32	60
Incense-cedar	6	—	—	—	6
Noble fir	—	—	—	1	1
Ponderosa pine	—	1	—	—	1
Sitka spruce	192	54	—	—	246
Western hemlock	—	392	14	10	416
Western redcedar	1	1	—	—	2
Total	527	3,748	255	134	4,665
Hardwood types:					
Bigleaf maple	11	6	46	—	63
California black oak	—	16	—	—	16
Oregon ash	6	—	—	9	15
Oregon white oak	—	101	6	5	112
Pacific madrone	—	—	—	4	4
Red alder	—	247	120	6	373
Total	17	369	172	24	582
Nonstocked <sup>c</sup>	—	—	—	—	161
All types	544	4,117	428	158	5,408

— = less than 500,000 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees. Includes projected access-denied areas.

**Table 14d—Estimated net volume of growing stock on nonfederal timberland, by forest type and stand-size class, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Large sawtimber	Small sawtimber	Pole-timber	Seedling-sapling	All classes
<i>Million cubic feet</i>					
<b>Softwood types:</b>					
Douglas-fir	610	3,104	362	157	4,233
Grand fir	70	38	—	19	127
Incense-cedar	5	21	53	17	96
Jeffrey pine	—	—	—	—	—
Ponderosa pine	—	31	—	4	35
Port-Orford-cedar	—	—	24	—	24
Redwood	—	13	—	—	13
Sitka spruce	18	16	—	—	35
Western hemlock	—	27	21	6	55
Western redcedar	—	74	—	—	74
White fir	1	48	—	8	57
Total	704	3,373	460	211	4,747
<b>Hardwood types:</b>					
Apple	—	—	—	1	1
Bigleaf maple	—	22	39	—	60
California black oak	—	31	26	—	58
California-laurel	—	98	16	—	114
Canyon live oak	—	—	19	9	28
Oregon white oak	—	75	9	19	102
Pacific madrone	—	88	269	45	401
Red alder	20	416	234	26	695
Tanoak	10	99	79	21	209
Willow	—	—	—	3	3
Total	30	829	689	123	1,671
Nonstocked <sup>c</sup>	—	—	—	—	8
All types	733	4,202	1,149	334	6,427

— = less than 500,000 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 15a—Estimated net volume of sawtimber on nonfederal timberland, by forest type and stand-size class, western Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Large sawtimber	Small sawtimber	Pole- timber	Seedling- sapling	All classes
<i>Million board feet</i>					
Softwood types:					
Douglas-fir	7,912	38,305	1,126	783	48,126
Grand fir	352	269	—	102	723
Incense-cedar	25	71	106	20	222
Jeffrey pine	—	1	—	—	1
Noble fir	—	18	5	—	23
Pacific silver fir	—	—	—	2	2
Ponderosa pine	—	101	—	8	109
Port-Orford-cedar	—	—	39	—	39
Redwood	—	50	—	—	50
Sitka spruce	995	855	22	1	1,873
Western hemlock	6	6,301	309	99	6,715
Western redcedar	608	239	—	1	849
White fir	4	127	—	17	148
Total	9,902	46,336	1,608	1,034	58,879
Hardwood types:					
Apple	—	—	2	3	5
Bigleaf maple	178	613	284	37	1,113
Black cottonwood	—	75	—	18	94
California black oak	—	119	46	—	164
California-laurel	—	335	47	—	382
Canyon live oak	—	—	79	28	107
Cherry	—	—	—	2	3
Oregon ash	21	4	—	35	60
Oregon white oak	—	608	96	58	762
Pacific madrone	—	214	479	57	750
Red alder	234	6,052	1,155	179	7,621
Tanoak	36	288	142	35	502
Willow	—	—	—	6	6
Total	470	8,308	2,331	459	11,568
Nonstocked <sup>c</sup>	—	—	—	—	1,686
All types	10,372	54,644	3,938	1,493	72,133

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees. Includes projected access-denied areas.

**Table 15b—Estimated net volume of sawtimber on nonfederal timberland, by forest type and stand-size class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Large sawtimber	Small sawtimber	Pole-timber	Seedling-sapling	All classes
<i>Million board feet</i>					
Softwood types:					
Douglas-fir	3,323	15,500	103	265	19,191
Grand fir	—	24	—	—	24
Noble fir	—	18	5	—	23
Pacific silver fir	—	—	—	2	2
Sitka spruce	15	629	22	—	667
Western hemlock	6	4,697	214	77	4,994
Western redcedar	603	14	—	1	618
Total	3,948	20,881	344	344	25,518
Hardwood types:					
Apple	—	—	2	—	2
Bigleaf maple	162	541	40	37	780
Black cottonwood	—	75	—	18	94
Cherry	—	—	—	2	3
Oregon ash	—	4	—	—	4
Oregon white oak	—	123	58	25	207
Red alder	133	3,524	269	100	4,026
Total	295	4,267	370	182	5,115
Nonstocked <sup>c</sup>	—	—	—	—	1,090
All types	4,243	25,148	714	527	31,722

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees. Includes projected access-denied areas.

**Table 15c—Estimated net volume of sawtimber on nonfederal timberland, by forest type and stand-size class, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Large sawtimber	Small sawtimber	Pole- timber	Seedling- sapling	All classes
<i>Million board feet</i>					
Softwood types:					
Douglas-fir	1,598	12,357	424	206	14,586
Grand fir	—	102	—	51	153
Incense-cedar	12	—	—	—	12
Ponderosa pine	—	3	—	—	3
Sitka spruce	905	163	—	—	1,068
Western hemlock	—	1,517	23	5	1,545
Western redcedar	5	3	—	—	8
Total	2,521	14,144	447	262	17,374
Hardwood types:					
Bigleaf maple	16	22	127	—	166
California black oak	—	27	—	—	27
Oregon ash	21	—	—	35	56
Oregon white oak	—	263	17	14	294
Pacific madrone	—	—	—	8	8
Red alder	—	945	335	9	1,289
Total	38	1,258	480	66	1,841
Nonstocked <sup>c</sup>	—	—	—	—	574
All types	2,558	15,402	927	328	19,789

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees. Includes projected access-denied areas.

**Table 15d—Estimated net volume of sawtimber on nonfederal timberland, by forest type and stand-size class, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Large sawtimber	Small sawtimber	Pole-timber	Seedling-sapling	All classes
<i>Million board feet</i>					
Softwood types:					
Douglas-fir	2,990	10,448	599	312	14,350
Grand fir	352	143	—	51	546
Incense-cedar	13	71	106	20	210
Jeffrey pine	—	1	—	—	1
Ponderosa pine	—	98	—	8	106
Port-Orford-cedar	—	—	39	—	39
Redwood	—	50	—	—	50
Sitka spruce	74	63	—	1	138
Western hemlock	—	86	72	18	177
Western redcedar	—	223	—	—	223
White fir	4	127	—	17	148
Total	3,433	11,310	817	427	15,987
Hardwood types:					
Apple	—	—	—	3	3
Bigleaf maple	—	50	117	—	167
California black oak	—	91	46	—	137
California-laurel	—	335	47	—	382
Canyon live oak	—	—	79	28	107
Oregon white oak	—	222	20	19	262
Pacific madrone	—	214	479	49	742
Red alder	101	1,583	551	70	2,306
Tanoak	36	288	142	35	502
Willow	—	—	—	6	6
Total	137	2,784	1,481	211	4,612
Nonstocked <sup>c</sup>	—	—	—	—	22
All types	3,570	14,094	2,297	638	20,622

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 16a—Estimated net volume of growing stock on nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Million cubic feet</i>				
Softwood types:				
Douglas-fir	2,870	7,626	2,559	13,054
Grand fir	—	124	72	196
Incense-cedar	—	57	45	102
Jeffrey pine	—	—	—	—
Noble fir	8	9	—	17
Pacific silver fir	—	2	—	2
Ponderosa pine	—	3	33	36
Port-Orford-cedar	—	17	7	24
Redwood	—	13	—	13
Sitka spruce	25	345	115	484
Western hemlock	409	1,433	48	1,890
Western redcedar	18	96	116	230
White fir	—	54	3	57
Total	3,330	9,777	2,997	16,104
Hardwood types:				
Apple	—	1	1	2
Bigleaf maple	63	139	130	332
Black cottonwood	—	16	5	21
California black oak	—	3	71	73
California-laurel	—	114	—	114
Canyon live oak	—	28	—	28
Cherry	—	—	1	1
Oregon ash	—	—	18	18
Oregon white oak	—	180	115	295
Pacific madrone	39	195	171	405
Red alder	545	1,014	622	2,181
Tanoak	—	156	53	209
Willow	—	—	3	3
Total	646	1,846	1,189	3,681
Nonstocked <sup>c</sup>	—	4	55	58
Unclassified <sup>d</sup>	—	368	66	435
All types	3,976	11,994	4,307	20,278

— = less than 500,000 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes growing-stock trees 5 inches in d.b.h. and larger.

<sup>c</sup>Nonstocked areas are less than 10 percent stocked with live trees.

<sup>d</sup>Includes volume from access-denied project areas.

**Table 16b—Estimated net volume of growing stock on nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Million cubic feet</i>				
Softwood types:				
Douglas-fir	1,816	2,150	923	4,889
Grand fir	—	—	8	8
Noble fir	8	8	—	16
Pacific silver fir	—	2	—	2
Sitka spruce	25	172	6	203
Western hemlock	409	989	22	1,419
Western redcedar	18	45	91	154
Total	2,277	3,365	1,050	6,692
Hardwood types:				
Apple	—	—	1	1
Bigleaf maple	63	39	107	209
Black cottonwood	—	16	5	21
Cherry	—	—	1	1
Oregon ash	—	—	3	3
Oregon white oak	—	—	81	81
Red alder	469	295	348	1,113
Total	532	350	545	1,428
Nonstocked <sup>c</sup>	—	3	36	39
Unclassified <sup>d</sup>	—	277	7	284
All types	2,809	3,996	1,639	8,444

— = less than 500,000 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes growing-stock trees 5 inches in d.b.h. and larger.

<sup>c</sup>Nonstocked areas are less than 10 percent stocked with live trees.

<sup>d</sup>Includes volume from access-denied project areas.

**Table 16c—Estimated net volume of growing stock on nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Million cubic feet</i>				
Softwood types:				
Douglas-fir	357	2,879	696	3,933
Grand fir	—	45	16	60
Incense-cedar	—	6	—	6
Noble fir	—	1	—	1
Ponderosa pine	—	—	1	1
Sitka spruce	—	162	84	246
Western hemlock	—	389	27	416
Western redcedar	—	1	1	2
Total	357	3,483	825	4,665
Hardwood types:				
Bigleaf maple	—	40	23	63
California black oak	—	—	16	16
Oregon ash	—	—	15	15
Oregon white oak	—	103	9	112
Pacific madrone	—	—	4	4
Red alder	32	203	138	373
Total	32	346	204	582
Nonstocked <sup>c</sup>	—	—	10	11
Unclassified <sup>d</sup>	—	91	59	150
All types	389	3,920	1,099	5,408

— = less than 500,000 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes growing-stock trees 5 inches in d.b.h. and larger.

<sup>c</sup>Nonstocked areas are less than 10 percent stocked with live trees.

<sup>d</sup>Includes volume from access-denied project areas.

**Table 16d—Estimated net volume of growing stock on nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Million cubic feet</i>				
Softwood types:				
Douglas-fir	696	2,597	940	4,233
Grand fir	—	80	47	127
Incense-cedar	—	51	45	96
Jeffrey pine	—	—	—	—
Ponderosa pine	—	3	32	35
Port-Orford-cedar	—	17	7	24
Redwood	—	13	—	13
Sitka spruce	—	11	24	35
Western hemlock	—	55	—	55
Western redcedar	—	50	24	74
White fir	—	54	3	57
Total	696	2,929	1,122	4,747
Hardwood types:				
Apple	—	1	—	1
Bigleaf maple	—	60	1	60
California black oak	—	3	55	58
California-laurel	—	114	—	114
Canyon live oak	—	28	—	28
Oregon white oak	—	77	25	102
Pacific madrone	39	195	167	401
Red alder	44	516	136	695
Tanoak	—	156	53	209
Willow	—	—	3	3
Total	82	1,149	440	1,671
Nonstocked <sup>c</sup>	—	—	8	8
All types	779	4,078	1,570	6,427

— = less than 500,000 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 17a—Estimated net volume of sawtimber on nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Million board feet, Scribner rule</i>				
<b>Softwood types:</b>				
Douglas-fir	11,646	27,024	9,456	48,126
Grand fir	—	511	211	723
Incense-cedar	—	122	100	222
Jeffrey pine	—	—	1	1
Noble fir	18	5	—	23
Pacific silver fir	—	2	—	2
Ponderosa pine	—	14	94	109
Port-Orford-cedar	—	29	10	39
Redwood	—	50	—	50
Sitka spruce	78	1,355	440	1,873
Western hemlock	1,744	4,813	158	6,715
Western redcedar	89	297	463	849
White fir	—	136	12	148
Total	13,574	34,360	10,945	58,879
<b>Hardwood types:</b>				
Apple	—	3	2	5
Bigleaf maple	253	427	433	1,113
Black cottonwood	—	75	18	94
California black oak	—	3	162	164
California-laurel	—	382	—	382
Canyon live oak	—	107	—	107
Cherry	—	—	2	3
Oregon ash	—	—	60	60
Oregon white oak	—	499	263	762
Pacific madrone	103	356	290	750
Red alder	1,876	3,541	2,204	7,621
Tanoak	—	347	154	502
Willow	—	—	6	6
Total	2,233	5,741	3,595	11,568
Nonstocked <sup>c</sup>	—	15	167	183
Unclassified <sup>d</sup>	—	1,226	277	1,503
All types	15,807	41,342	14,985	72,133

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

<sup>d</sup> Includes volume from access-denied project areas.

**Table 17b—Estimated net volume of sawtimber on nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Million board feet, Scribner rule</i>				
<b>Softwood types:</b>				
Douglas-fir	6,906	8,357	3,928	19,191
Grand fir	—	—	24	24
Noble fir	18	5	—	23
Pacific silver fir	—	2	—	2
Sitka spruce	78	563	26	667
Western hemlock	1,744	3,189	61	4,994
Western redcedar	89	138	391	618
Total	8,834	12,254	4,430	25,518
<b>Hardwood types:</b>				
Apple	—	—	2	2
Bigleaf maple	253	150	377	780
Black cottonwood	—	75	18	94
Cherry	—	—	2	3
Oregon ash	—	—	4	4
Oregon white oak	—	—	206	207
Red alder	1,602	1,109	1,314	4,026
Total	1,856	1,335	1,925	5,115
Nonstocked <sup>c</sup>	—	940	30	970
Unclassified <sup>d</sup>	—	14	106	120
All types	10,690	14,542	6,491	31,722

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

<sup>d</sup> Includes volume from access-denied project areas.

**Table 17c—Estimated net volume of sawtimber on nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Million board feet, Scribner rule</i>				
Softwood types:				
Douglas-fir	1,646	10,396	2,545	14,586
Grand fir	—	130	23	153
Incense-cedar	—	12	—	12
Ponderosa pine	—	—	3	3
Sitka spruce	—	748	320	1,068
Western hemlock	—	1,448	97	1,545
Western redcedar	—	5	3	8
Total	1,646	12,739	2,990	17,374
Hardwood types:				
Bigleaf maple	—	111	55	166
California black oak	—	—	27	27
Oregon ash	—	—	56	56
Oregon white oak	—	274	20	294
Pacific madrone	—	—	8	8
Red alder	97	679	513	1,289
Total	97	1,065	679	1,841
Nonstocked <sup>c</sup>	—	2	39	41
Unclassified <sup>d</sup>	—	286	247	533
All types	1,742	14,092	3,955	19,789

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

<sup>d</sup> Includes volume from access-denied project areas.

**Table 17d—Estimated net volume of sawtimber on nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Million board feet, Scribner rule</i>				
<b>Softwood types:</b>				
Douglas-fir	3,094	8,271	2,984	14,350
Grand fir	—	381	165	546
Incense-cedar	—	110	100	210
Jeffrey pine	—	—	1	1
Ponderosa pine	—	14	91	106
Port-Orford-cedar	—	29	10	39
Redwood	—	50	—	50
Sitka spruce	—	44	94	138
Western hemlock	—	177	—	177
Western redcedar	—	154	69	223
White fir	—	136	12	148
Total	3,094	9,367	3,526	15,987
<b>Hardwood types:</b>				
Apple	—	3	—	3
Bigleaf maple	—	166	—	167
California black oak	—	3	134	137
California-laurel	—	382	—	382
Canyon live oak	—	107	—	107
Oregon white oak	—	225	37	262
Pacific madrone	103	356	283	742
Red alder	177	1,752	376	2,306
Tanoak	—	347	154	502
Willow	—	—	6	6
Total	281	3,341	991	4,612
Nonstocked <sup>c</sup>	—	—	22	22
All types	3,375	12,708	4,539	20,622

— = less than 500,000 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 18a—Estimated net volume of timber on nonfederal timberland, by class of timber and species group, western Oregon, January 1, 1997<sup>a,b</sup>**

Class of timber	Softwood species	Hardwood species	All species
<i>Million cubic feet</i>			
Growing-stock trees:			
Sawtimber trees—			
Saw-log portion	14,730	1,941	16,671
Upper stem portion	538	518	1,056
Total, sawtimber	15,268	2,459	17,727
Poletimber trees	1,432	1,120	2,552
All growing-stock trees	16,700	3,579	20,278
Cull trees:			
Sound cull	31	132	163
Rotten cull	126	116	241
Total, cull trees	157	248	405
All timber	16,857	3,827	20,684

— = less than 500,000 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

**Table 18b—Estimated net volume of timber on nonfederal timberland, by class of timber and species group, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Class of timber	Softwood species	Hardwood species	All species
<i>Million cubic feet</i>			
Growing-stock trees:			
Sawtimber trees—			
Saw-log portion	6,304	889	7,193
Upper stem portion	219	178	397
Total, sawtimber	6,523	1,067	7,590
Poletimber trees	460	394	854
All growing-stock trees	6,983	1,460	8,444
Cull trees:			
Sound cull	6	25	31
Rotten cull	10	43	52
Total, cull trees	16	68	83
All timber	6,999	1,528	8,527

— = less than 500,000 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

**Table 18c—Estimated net volume of timber on nonfederal timberland, by class of timber and species group, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Class of timber	Softwood species	Hardwood species	All species
<i>Million cubic feet</i>			
Growing stock trees:			
Sawtimber trees—			
Saw-log portion	4,139	401	4,540
Upper stem portion	148	112	260
Total, sawtimber	4,287	513	4,800
Poletimber trees	401	206	607
All growing stock trees	4,724	695	5,418
Cull trees:			
Sound cull	1	19	20
Rotten cull	5	19	25
Total, cull trees	7	38	45
All timber	4,730	733	5,463

— = less than 500,000 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

**Table 18d—Estimated net volume of timber on nonfederal timberland, by class of timber and species group, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Class of timber	Softwood species	Hardwood species	All species
<i>Million cubic feet</i>			
Growing stock trees:			
Sawtimber trees—			
Saw-log portion	4,286	651	4,937
Upper stem portion	171	228	399
Total, sawtimber	4,457	879	5,336
Poletimber trees	714	555	1,269
All growing stock trees	5,171	1,433	6,605
Cull trees:			
Sound cull	24	89	112
Rotten cull	110	54	164
Total, cull trees	134	142	276
All timber	5,305	1,575	6,881

— = less than 500,000 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

**Table 19a—Estimated current net annual growth of growing stock on nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand cubic feet</i>				
Softwood types:				
Douglas-fir	93,227	346,179	75,287	514,692
Grand fir	—	3,688	2,804	6,492
Incense-cedar	—	2,900	1,459	4,359
Jeffrey pine	—	—	16	16
Noble fir	969	1,027	—	1,996
Pacific silver fir	—	180	—	180
Ponderosa pine	—	60	1,250	1,310
Port-Orford-cedar	—	1,265	221	1,486
Redwood	—	249	—	249
Sitka spruce	1,375	11,887	2,706	15,968
Western hemlock	10,705	69,711	2,588	83,004
Western redcedar	156	3,663	2,037	5,857
White fir	—	2,334	35	2,369
Total	106,432	443,142	88,402	637,976
Hardwood types:				
Apple	—	80	13	93
Bigleaf maple	1,387	6,267	3,208	10,862
Black cottonwood	—	455	198	653
California black oak	—	104	1,317	1,421
California-laurel	—	3,268	—	3,268
Canyon live oak	—	388	—	388
Cherry	39	—	47	86
Oregon ash	—	—	369	369
Oregon white oak	—	2,925	3,233	6,158
Pacific madrone	735	3,934	6,482	11,152
Red alder	18,223	33,128	22,050	73,401
Tanoak	—	9,230	1,634	10,864
Willow	—	—	276	276
Total	20,383	59,778	38,828	118,989
All types	126,815	519,009	129,598	775,422

— = less than 500 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

**Table 19b—Estimated current net annual growth of growing stock on nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand cubic feet</i>				
Softwood types:				
Douglas-fir	71,282	83,347	25,440	180,070
Grand fir	—	—	364	364
Noble fir	969	912	—	1,881
Pacific silver fir	—	180	—	180
Sitka spruce	1,375	7,710	179	9,264
Western hemlock	10,705	51,383	1,925	64,012
Western redcedar	156	2,686	1,181	4,023
Total	84,488	146,219	29,089	259,796
Hardwood types:				
Apple	—	—	13	13
Bigleaf maple	1,387	1,080	1,925	4,392
Black cottonwood	—	455	198	653
Cherry	39	—	47	86
Oregon ash	—	—	70	70
Oregon white oak	—	1	2,400	2,402
Red alder	15,924	7,246	10,633	33,803
Total	17,349	8,782	15,287	41,418
All types	101,837	155,001	44,376	301,214

— = less than 500 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes growing-stock trees 5 inches in d.b.h. and larger.

**Table 19c—Estimated current net annual growth of growing stock on nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand cubic feet</i>				
Softwood types:				
Douglas-fir	8,324	133,327	20,666	162,317
Grand fir	—	1,908	894	2,803
Incense-cedar	—	122	—	122
Noble fir	—	115	—	115
Ponderosa pine	—	—	69	69
Sitka spruce	—	3,908	1,895	5,803
Western hemlock	—	16,159	561	16,719
Western redcedar	—	34	54	87
Total	8,324	155,573	24,138	188,034
Hardwood types:				
Bigleaf maple	—	2,775	1,261	4,036
California black oak	—	—	138	138
Oregon ash	—	—	299	299
Oregon white oak	—	2,036	513	2,549
Pacific madrone	—	—	309	309
Red alder	1,095	7,731	3,940	12,767
Total	1,095	12,542	6,460	20,097
All types	9,419	168,115	30,598	208,131

— = less than 500 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

**Table 19d—Estimated current net annual growth of growing stock on nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand cubic feet</i>				
<b>Softwood types:</b>				
Douglas-fir	13,621	129,504	29,181	172,306
Grand fir	—	1,779	1,545	3,325
Incense-cedar	—	2,778	1,459	4,236
Jeffrey pine	—	—	16	16
Ponderosa pine	—	60	1,182	1,241
Port-Orford-cedar	—	1,265	221	1,486
Redwood	—	249	—	249
Sitka spruce	—	268	633	901
Western hemlock	—	2,169	103	2,272
Western redcedar	—	944	802	1,746
White fir	—	2,334	35	2,369
Total	13,621	141,351	35,175	190,146
<b>Hardwood types:</b>				
Apple	—	80	—	80
Bigleaf maple	—	2,413	22	2,434
California black oak	—	104	1,179	1,283
California-laurel	—	3,268	—	3,268
Canyon live oak	—	388	—	388
Oregon white oak	—	887	320	1,207
Pacific madrone	735	3,934	6,173	10,843
Red alder	1,204	18,151	7,477	26,831
Tanoak	—	9,230	1,634	10,864
Willow	—	—	276	276
Total	1,939	38,454	17,081	57,473
All types	15,559	179,805	52,334	247,698

— = less than 500 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

**Table 20a—Estimated gross annual growth of growing stock on nonfederal timberland, by owner class and species group, western Oregon, January 1, 1997<sup>a</sup>**

Class of timber and owner class	Average volume	Species group		All species
		Softwoods	Hardwoods	
<i>Cubic feet per acre</i> ----- <i>Thousand cubic feet</i> -----				
Growing stock: <sup>b</sup>				
Other public	171	120,609	25,139	145,748
Forest industry	138	505,892	69,234	575,126
Other private	81	113,185	38,815	152,000
Total, growing stock	126	739,686	133,188	872,875

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

**Table 20b—Estimated gross annual growth of growing stock on non-federal timberland, by owner class and species group, northwest Oregon, January 1, 1997<sup>a</sup>**

Class of timber and owner class	Average volume	Species group		All species
		Softwoods	Hardwoods	
<i>Cubic feet per acre</i> ----- <i>Thousand cubic feet</i> -----				
Growing stock: <sup>b</sup>				
Other public	202	94,620	21,248	115,868
Forest industry	171	168,789	21,143	188,932
Other private	64	37,262	16,229	44,376
Total, growing stock	151	300,671	57,620	358,291

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

**Table 20c—Estimated gross annual growth of growing stock on nonfederal timberland, by owner class and species group, west-central Oregon, January 1, 1997<sup>a</sup>**

Class of timber and owner class	Average volume	Species group		
		Softwoods	Hardwoods	All species
<i>Cubic feet per acre</i> <i>----- Thousand cubic feet -----</i>				
Growing stock: <sup>b</sup>				
Other public	117	9,640	1,677	11,317
Forest industry	140	171,157	16,564	187,720
Other private	89	29,442	8,759	38,201
Total, growing stock	127	210,238	27,000	237,238

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

**Table 20d—Estimated gross annual growth of growing stock on nonfederal timberland, by owner class and species group, southwest Oregon, January 1, 1997<sup>a</sup>**

Class of timber and owner class	Average volume	Species group		
		Softwoods	Hardwoods	All species
<i>Cubic feet per acre</i> <i>----- Thousand cubic feet -----</i>				
Growing stock: <sup>b</sup>				
Other public	104	16,349	2,214	18,563
Forest industry	114	165,947	32,527	198,474
Other private	79	46,481	13,827	60,308
Total, growing stock	99	228,777	48,569	277,345

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

**Table 21a—Estimated current net annual growth of sawtimber on nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand board feet, Scribner rule</i>				
Softwood types:				
Douglas-fir	435,626	1,406,502	330,773	2,172,902
Grand fir	—	14,565	7,973	22,538
Incense-cedar	—	10,746	4,731	15,477
Jeffrey pine	—	—	77	77
Noble fir	2,646	1,715	—	4,361
Pacific silver fir	—	293	—	293
Ponderosa pine	—	349	3,048	3,397
Port-Orford-cedar	—	3,290	466	3,756
Redwood	—	1,313	—	1,313
Sitka spruce	6,789	55,282	12,573	74,644
Western hemlock	51,328	294,106	4,883	350,317
Western redcedar	907	8,262	8,507	17,676
White fir	—	4,715	162	4,877
Total	497,296	1,801,139	373,193	2,671,628
Hardwood types:				
Apple	—	537	35	572
Bigleaf maple	6,662	19,567	11,990	38,219
Black cottonwood	—	2,455	324	2,779
California black oak	—	58	3,749	3,807
California-laurel	—	10,278	—	10,278
Canyon live oak	—	1,177	—	1,177
Cherry	76	—	74	150
Oregon ash	—	—	1,245	1,245
Oregon white oak	—	10,780	10,000	20,779
Pacific madrone	2,442	20,883	19,457	42,782
Red alder	78,231	147,219	92,948	318,397
Tanoak	—	24,940	4,609	29,549
Willow	—	—	767	767
Total	87,412	237,893	145,197	470,502
Nonstocked <sup>c</sup>	—	507	3,419	3,926
All types	584,708	2,124,496	528,754	3,237,957

— = less than 500 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 21b—Estimated current net annual growth of sawtimber on nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand board feet, Scribner rule</i>				
<b>Softwood types:</b>				
Douglas-fir	334,707	349,486	132,782	816,975
Grand fir	—	—	1,203	1,203
Noble fir	2,646	1,715	—	4,361
Pacific silver fir	—	293	—	293
Sitka spruce	6,789	33,820	645	41,255
Western hemlock	51,328	214,486	2,448	268,262
Western redcedar	907	3,782	6,031	10,720
Total	396,377	603,582	143,110	1,143,069
<b>Hardwood types:</b>				
Apple	—	—	35	35
Bigleaf maple	6,662	4,497	9,234	20,392
Black cottonwood	—	2,455	324	2,779
Cherry	76	—	74	150
Oregon ash	—	—	120	120
Oregon white oak	—	4	7,633	7,637
Red alder	71,047	31,365	51,008	153,420
Total	77,785	38,320	68,429	184,534
Nonstocked <sup>c</sup>	—	500	2,004	2,504
All types	474,162	713,077	214,200	1,401,439

— = less than 500 board feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 21c—Estimated current net annual growth of sawtimber on nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand board feet, Scribner rule</i>				
<b>Softwood types:</b>				
Douglas-fir	42,329	570,469	90,802	703,600
Grand fir	—	6,011	1,729	7,741
Incense-cedar	—	388	—	388
Ponderosa pine	—	—	337	337
Sitka spruce	—	20,235	8,837	29,072
Western hemlock	—	72,436	2,435	74,871
Western redcedar	—	171	242	412
Total	42,329	669,711	104,382	816,423
<b>Hardwood types:</b>				
Bigleaf maple	—	7,340	2,736	10,076
California black oak	—	—	223	223
Oregon ash	—	—	1,125	1,125
Oregon white oak	—	7,408	1,596	9,004
Pacific madrone	—	—	2,317	2,317
Red alder	5,143	34,570	16,521	56,233
Total	5,143	49,319	24,517	78,978
Nonstocked <sup>c</sup>	—	7	1,121	1,128
All types	47,472	733,318	136,308	917,099

— = less than 500 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 21d—Estimated current net annual growth of sawtimber on nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand board feet, Scribner rule</i>				
Softwood types:				
Douglas-fir	58,590	486,547	107,188	652,326
Grand fir	—	8,553	5,041	13,594
Incense-cedar	—	10,358	4,731	15,089
Jeffrey pine	—	—	77	77
Ponderosa pine	—	349	2,711	3,060
Port-Orford-cedar	—	3,290	466	3,756
Redwood	—	1,313	—	1,313
Sitka spruce	—	1,227	3,090	4,317
Western hemlock	—	7,184	—	7,184
Western redcedar	—	4,309	2,234	6,543
White fir	—	4,715	162	4,877
Total	58,590	527,846	125,701	712,136
Hardwood types:				
Apple	—	537	—	537
Bigleaf maple	—	7,730	20	7,750
California black oak	—	58	3,526	3,584
California-laurel	—	10,278	—	10,278
Canyon live oak	—	1,177	—	1,177
Oregon white oak	—	3,368	770	4,138
Pacific madrone	2,442	20,883	17,140	40,465
Red alder	2,042	81,283	25,419	108,744
Tanoak	—	24,940	4,609	29,549
Willow	—	—	767	767
Total	4,484	150,254	52,251	206,989
Nonstocked <sup>c</sup>	—	—	294	294
All types	63,074	678,100	178,245	919,419

— = less than 500 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 22a—Estimated average annual mortality of growing stock on nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997<sup>a b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand cubic feet</i>				
Softwood types:				
Douglas-fir	12,505	30,835	12,008	55,349
Grand fir	—	1,072	421	1,493
Incense-cedar	—	200	310	510
Jeffrey pine	—	—	—	—
Noble fir	15	10	—	25
Pacific silver fir	—	5	—	5
Ponderosa pine	—	36	180	216
Port-Orford-cedar	—	35	57	92
Redwood	—	102	—	102
Sitka spruce	89	2,278	985	3,351
Western hemlock	1,604	8,988	178	10,770
Western redcedar	85	620	731	1,436
White fir	—	253	13	265
Total	14,298	44,434	14,882	73,615
Hardwood types:				
Apple	—	2	3	5
Bigleaf maple	379	659	1,075	2,113
Black cottonwood	—	64	25	90
California black oak	—	7	492	499
California-laurel	—	535	—	535
Canyon live oak	—	74	—	74
Cherry	2	—	3	5
Oregon ash	—	—	100	100
Oregon white oak	—	1,177	658	1,835
Pacific madrone	234	1,496	1,163	2,892
Red alder	5,008	8,795	4,942	18,746
Tanoak	—	842	287	1,129
Willow	—	—	4	4
Total	5,623	13,651	8,753	28,027
Nonstocked <sup>c</sup>	—	35	247	282
All types	19,921	59,806	24,262	103,989

— = less than 500 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes growing-stock trees 5 inches in d.b.h. and larger.

<sup>c</sup>Nonstocked areas are less than 10 percent stocked with live trees.

**Table 22b—Estimated average annual mortality of growing stock on nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand cubic feet</i>				
Softwood types:				
Douglas-fir	8,073	9,943	4,042	22,058
Grand fir	—	—	32	32
Noble fir	15	10	—	25
Pacific silver fir	—	5	—	5
Sitka spruce	89	1,243	17	1,348
Western hemlock	1,604	6,693	71	8,368
Western redcedar	85	360	558	1,004
Total	9,867	18,252	4,720	32,839
Hardwood types:				
Apple	—	—	3	3
Bigleaf maple	379	288	970	1,637
Black cottonwood	—	64	25	90
Cherry	2	—	3	5
Oregon ash	—	—	12	12
Oregon white oak	—	—	427	427
Red alder	4,462	2,886	2,675	10,022
Total	4,843	3,238	4,115	12,196
Nonstocked <sup>c</sup>	—	34	138	172
All types	14,709	22,617	9,024	46,350

— = less than 500 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes growing-stock trees 5 inches in d.b.h. and larger.

<sup>c</sup>Nonstocked areas are less than 10 percent stocked with live trees.

**Table 22c—Estimated average annual mortality of growing stock on nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand cubic feet</i>				
Softwood types:				
Douglas-fir	1,731	10,785	3,286	15,802
Grand fir	—	279	66	345
Incense-cedar	—	16	—	16
Ponderosa pine	—	—	5	5
Sitka spruce	—	956	827	1,783
Western hemlock	—	1,992	106	2,098
Western redcedar	—	3	4	8
Total	1,731	14,032	4,295	20,057
Hardwood types:				
Bigleaf maple	—	125	104	229
California black oak	—	—	141	141
Oregon ash	—	—	89	89
Oregon white oak	—	498	34	532
Pacific madrone	—	—	7	7
Red alder	198	1,755	1,385	3,338
Total	198	2,378	1,760	4,336
Nonstocked <sup>c</sup>	—	1	46	47
All types	1,928	17,004	6,430	25,363

— = less than 500 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes growing-stock trees 5 inches in d.b.h. and larger.

<sup>c</sup>Nonstocked areas are less than 10 percent stocked with live trees.

**Table 22d—Estimated average annual mortality of growing stock on nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand cubic feet</i>				
Softwood types:				
Douglas-fir	2,701	10,107	4,681	17,489
Grand fir	—	793	323	1,116
Incense-cedar	—	184	310	494
Jeffrey pine	—	—	—	—
Ponderosa pine	—	36	175	211
Port-Orford-cedar	—	35	57	92
Redwood	—	102	—	102
Sitka spruce	—	79	140	219
Western hemlock	—	304	1	305
Western redcedar	—	257	168	425
White fir	—	253	13	265
Total	2,701	12,150	5,867	20,718
Hardwood types:				
Apple	—	2	—	2
Bigleaf maple	—	246	1	247
California black oak	—	7	351	358
California-laurel	—	535	—	535
Canyon live oak	—	74	—	74
Oregon white oak	—	678	197	876
Pacific madrone	234	1,496	1,156	2,885
Red alder	349	4,155	882	5,386
Tanoak	—	842	287	1,129
Willow	—	—	4	4
Total	582	8,035	2,878	11,495
Nonstocked <sup>c</sup>	—	—	63	63
All types	3,283	20,185	8,808	32,276

— = less than 500 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 23a—Estimated average annual mortality of sawtimber on nonfederal timberland, by forest type and owner class, western Oregon, January 1, 1997<sup>a b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand board feet, Scribner rule</i>				
Softwood types:				
Douglas-fir	43,267	96,353	38,661	178,281
Grand fir	—	4,282	1,053	5,335
Incense-cedar	—	368	565	933
Jeffrey pine	—	—	1	1
Noble fir	27	—	—	27
Pacific silver fir	—	3	—	3
Ponderosa pine	—	147	491	638
Port-Orford-cedar	—	50	44	93
Redwood	—	409	—	409
Sitka spruce	203	8,072	3,022	11,297
Western hemlock	5,762	26,320	507	32,589
Western redcedar	391	1,264	2,887	4,541
White fir	—	614	45	659
Total	49,650	137,883	47,275	234,807
Hardwood types:				
Apple	—	5	7	13
Bigleaf maple	1,435	1,797	4,024	7,256
Black cottonwood	—	299	117	416
California black oak	—	8	1,039	1,047
California-laurel	—	1,665	—	1,665
Canyon live oak	—	264	—	264
Cherry	1	—	6	7
Oregon ash	—	—	363	363
Oregon white oak	—	2,986	1,172	4,158
Pacific madrone	572	1,924	1,092	3,588
Red alder	15,771	25,492	16,847	58,109
Tanoak	—	1,901	693	2,594
Willow	—	—	9	9
Total	17,778	36,341	25,369	79,489
Nonstocked <sup>c</sup>	—	4,948	2,289	7,237
All types	67,428	179,172	74,933	321,533

— = less than 500 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 23b—Estimated average annual mortality of sawtimber on nonfederal timberland, by forest type and owner class, northwest Oregon, January 1, 1999<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand board feet, Scribner rule</i>				
Softwood types:				
Douglas-fir	25,276	34,613	15,888	75,778
Grand fir	—	—	61	61
Noble fir	27	—	—	27
Pacific silver fir	—	3	—	3
Sitka spruce	203	3,583	73	3,859
Western hemlock	5,762	18,860	166	24,788
Western redcedar	391	481	2,447	3,319
Total, softwood types	31,659	57,541	18,635	107,835
Hardwood types:				
Apple	—	—	7	7
Bigleaf maple	1,435	1,016	3,724	6,175
Black cottonwood	—	299	117	416
Cherry	1	—	6	7
Oregon ash	—	—	20	20
Oregon white oak	—	1	841	842
Red alder	13,695	8,987	9,849	32,530
Total, hardwood types	15,131	10,303	14,564	39,997
Nonstocked <sup>c</sup>	—	129	411	540
All types	46,790	71,146	33,833	151,769

— = less than 500 board feet none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 23c—Estimated average annual mortality of sawtimber on nonfederal timberland, by forest type and owner class, west-central Oregon, January 1, 1999<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand board feet, Scribner rule</i>				
Softwood types:				
Douglas-fir	7,234	33,494	10,350	51,077
Grand fir	—	526	55	581
Incense-cedar	—	32	—	32
Ponderosa pine	—	—	17	17
Sitka spruce	—	4,231	2,586	6,817
Western hemlock	—	6,900	341	7,241
Western redcedar	—	16	13	29
Total, softwood types	7,234	45,198	13,361	65,793
Hardwood types:				
Bigleaf maple	—	305	300	604
California black oak	—	—	305	305
Oregon ash	—	—	342	342
Oregon white oak	—	1,282	69	1,351
Pacific madrone	—	—	13	13
Red alder	539	5,233	4,733	10,505
Total, hardwood types	539	6,820	5,762	13,121
Nonstocked <sup>c</sup>	—	4	177	181
All types	7,773	53,664	20,603	82,040

— = less than 500 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 23d—Estimated average annual mortality of sawtimber on nonfederal timberland, by forest type and owner class, southwest Oregon, January 1, 1999<sup>a,b</sup>**

Forest type	Other public	Forest industry	Other private	All owners
<i>Thousand board feet, Scribner rule</i>				
<b>Softwood types:</b>				
Douglas-fir	10,756	28,246	12,423	51,426
Grand fir	—	3,756	938	4,694
Incense-cedar	—	336	565	901
Jeffrey pine	—	—	1	1
Ponderosa pine	—	147	474	621
Port-Orford-cedar	—	50	44	93
Redwood	—	409	—	409
Sitka spruce	—	259	363	621
Western hemlock	—	560	—	560
Western redcedar	—	767	427	1,194
White fir	—	614	45	659
Total, softwood types	10,756	35,144	15,279	61,180
<b>Hardwood types:</b>				
Apple	—	5	—	5
Bigleaf maple	—	476	1	477
California black oak	—	8	734	742
California-laurel	—	1,665	—	1,665
Canyon live oak	—	264	—	264
Oregon white oak	—	1,703	262	1,965
Pacific madrone	572	1,924	1,079	3,575
Red alder	1,537	11,272	2,265	15,074
Tanoak	—	1,901	693	2,594
Willow	—	—	9	9
Total, hardwood types	2,108	19,218	5,044	26,370
Nonstocked <sup>c</sup>	—	4	177	181
All types	12,865	54,362	20,497	87,724

— = less than 500 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>c</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 24a—Estimated area, net volume of growing stock, and net volume of sawtimber on nonfederal timberland, by stand age and owner class, western Oregon, January 1, 1997<sup>a,b,c</sup>**

Stand age	Other public			Forest industry						Other private			All owners		
	Growing-stock volume		Sawtimber volume	Area	Growing-stock volume		Sawtimber volume	Area	Growing-stock volume		Sawtimber volume	Area	Growing-stock volume		Sawtimber volume
	Thousand acres	Million cubic feet	Million board feet <sup>d</sup>	Thousand acres	Million cubic feet	Million board feet <sup>d</sup>	Thousand acres	Million cubic feet	Million board feet <sup>d</sup>	Thousand acres	Million cubic feet	Area	Thousand acres	Million cubic feet	Million board feet <sup>d</sup>
Even aged:															
0-9	39	7	25	513	65	183	171	14	53	723	86	261			
10-19	56	13	41	612	146	247	217	197	570	886	356	858			
20-29	117	142	285	879	1,243	2,487	232	232	535	1,229	1,617	3,306			
30-39	158	611	1,903	637	2,460	7,046	170	349	1,066	965	3,419	10,016			
40-49	183	1,010	3,599	552	2,635	9,619	297	893	2,940	1,031	4,537	16,158			
50-59	66	525	2,353	332	2,170	8,848	187	705	2,631	584	3,399	13,831			
60-69	63	510	2,288	136	809	3,493	97	356	1,345	296	1,675	7,126			
70-79	10	141	662	37	251	1,189	75	357	1,527	122	748	3,378			
80-89	—	—	—	21	85	192	16	74	283	36	159	474			
90-99	24	172	862	17	81	310	10	10	29	51	262	1,201			
100-109	26	241	1,247	11	76	363	15	17	46	52	334	1,656			
110-119	—	—	—	18	104	319	17	61	247	36	165	566			
120-129	9	108	575	—	—	—	3	—	—	12	108	575			
130-139	—	—	—	—	—	—	—	—	—	—	—	—			
140-149	—	—	—	—	—	—	—	—	—	—	—	—			
150-159	5	21	105	—	—	—	2	17	95	7	37	200			
160-169	—	—	—	—	—	—	—	—	—	—	—	—			
170-179	—	—	—	—	—	—	—	—	—	—	—	—			
180-189	—	—	—	—	—	—	—	—	—	—	—	—			
190-199	—	—	—	—	—	—	—	—	—	—	—	—			
200-299	—	—	—	—	—	—	—	—	—	—	—	—			
300+	—	—	—	—	—	—	—	—	—	—	—	—			
Uneven aged:															
<100	68	400	1,610	237	968	3,546	240	775	2,752	545	2,143	7,907			
100+	21	77	251	82	530	2,260	45	124	398	148	731	2,909			
Nonstocked <sup>e</sup>	6	—	—	—	37	4	15	68	61	192	111	65	208		
Unclassified <sup>f</sup>	—	—	—	56	368	1,226	20	66	277	75	435	1,503			
Total, all ages	850	3,976	15,807	4,177	11,994	41,342	1,882	4,307	14,985	6,910	20,278	72,133			

— = none found or less than 500 acres, 500,000 cubic feet, or 500,000 board feet.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

<sup>c</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>d</sup> Scribner rule (16-foot rule).

<sup>e</sup> Nonstocked areas are less than 10 percent stocked with live trees.

<sup>f</sup> Includes volume from access-denied project areas.

**Table 24b—Estimated area, net volume of growing stock, and net volume of sawtimber on nonfederal timberland, by stand age and owner class, northwest Oregon, January 1, 1997<sup>a,b,c</sup>**

Stand age	Other public			Forest industry			Other private			All owners		
	Growing-stock volume		Sawtimber volume	Growing-stock volume		Sawtimber volume	Growing-stock volume		Sawtimber volume	Growing-stock volume		Sawtimber volume
	Thousand acres	Million cubic feet	Million board feet <sup>d</sup>	Thousand acres	Million cubic feet	board feet <sup>d</sup>	Thousand acres	Million cubic feet	board feet <sup>d</sup>	Thousand acres	Million cubic feet	Million board feet <sup>d</sup>
Even aged:												
0-09	8	1	5	137	13	48	74	8	36	220	22	89
10-19	42	7	21	109	23	37	77	91	353	228	121	411
20-29	64	116	247	241	348	721	93	73	180	399	537	1,148
30-39	137	543	1,706	182	798	2,387	66	155	495	385	1,496	4,587
40-49	161	934	3,327	147	750	2,742	127	328	1,232	435	2,012	7,301
50-59	54	390	1,693	137	1,071	4,427	47	191	829	238	1,651	6,948
60-69	38	316	1,452	59	470	2,095	49	183	733	145	970	4,280
70-79	10	141	662	20	218	1,037	49	286	1,311	79	644	3,010
80-89	—	—	—	—	—	—	7	22	110	7	22	110
90-99	7	33	164	1	1	5	1	2	7	10	36	176
100-109	8	73	418	—	—	—	—	—	—	8	73	418
110-119	—	—	—	—	—	—	4	11	53	4	11	53
120-129	—	—	—	—	—	—	—	—	—	—	—	—
130-139	—	—	—	—	—	—	—	—	—	—	—	—
140-149	—	—	—	—	—	—	—	—	—	—	—	—
150-159	—	—	—	—	—	—	—	—	—	—	—	—
160-169	—	—	—	—	—	—	—	—	—	—	—	—
170-179	—	—	—	—	—	—	—	—	—	—	—	—
180-189	—	—	—	—	—	—	—	—	—	—	—	—
190-199	—	—	—	—	—	—	—	—	—	—	—	—
200-299	—	—	—	—	—	—	—	—	—	—	—	—
300+	—	—	—	—	—	—	—	—	—	—	—	—
Uneven aged:												
<100	40	255	994	9	25	90	69	225	927	118	505	2,011
110-119	—	—	—	—	—	—	5	20	90	5	20	90
Nonstocked <sup>e</sup>	5	—	—	—	15	3	14	22	36	106	42	39
Unclassified <sup>f</sup>	—	—	—	44	277	940	3	7	30	47	284	120
Total, all ages	574	2,809	10,690	1,103	3,996	14,542	692	1,639	6,491	2,369	8,444	31,722

— = none found or less than 500 acres, 500,000 cubic feet, or 500,000 board feet.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

<sup>c</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>d</sup> Scribner rule (16-foot rule).

<sup>e</sup> Nonstocked areas are less than 10 percent stocked with live trees.

<sup>f</sup> Includes volume from access denied project areas.

**Table 24c—Estimated area, net volume of growing stock, and net volume of sawtimber on nonfederal timberland, by stand age and owner class, west-central Oregon, January 1, 1997<sup>a,b,c</sup>**

Stand age	Other public		Forest industry						All owners			
			Growing-stock volume		Sawtimber volume		Area		Growing-stock volume		Sawtimber volume	
	Thousand acres	Million board feet <sup>d</sup>	Million board feet <sup>d</sup>	Million cubic feet	Thousand acres	Million cubic feet	board feet <sup>d</sup>	Area	Million cubic feet	board feet <sup>d</sup>	Million cubic feet	board feet <sup>d</sup>
Even aged:												
0-09	8	—	—	171	6	28	52	5	16	231	10	44
10-19	14	5	20	213	44	78	37	92	264	87	190	
20-29	26	10	12	259	393	755	43	33	328	436	836	
30-39	—	—	—	218	733	2,126	48	81	281	266	814	2,407
40-49	9	32	97	218	1,197	4,596	45	244	828	272	1,472	5,520
50-59	12	135	660	95	531	2,233	57	289	1,129	164	955	4,022
60-69	15	123	560	28	129	552	7	33	114	50	285	1,226
70-79	—	—	—	9	30	143	4	6	21	13	36	164
80-89	—	—	—	4	2	4	—	—	—	4	2	4
90-99	—	—	—	7	23	90	1	1	—	—	—	—
100-109	9	63	288	6	65	331	—	—	—	15	9	24
110-119	—	—	—	4	21	58	8	33	140	12	128	92
120-129	—	—	—	—	—	—	—	—	—	—	55	619
130-139	—	—	—	—	—	—	—	—	—	—	—	198
140-149	—	—	—	—	—	—	—	—	—	—	—	—
150-159	5	21	105	—	—	—	—	—	—	—	—	—
160-169	—	—	—	—	—	—	—	—	—	—	—	105
170-179	—	—	—	—	—	—	—	—	—	—	—	—
180-189	—	—	—	—	—	—	—	—	—	—	—	—
190-199	—	—	—	—	—	—	—	—	—	—	—	—
200-299	—	—	—	—	—	—	—	—	—	—	—	—
300+	—	—	—	—	—	—	—	—	—	—	—	—
Uneven aged:												
<100	—	—	—	63	503	2,162	65	206	794	128	708	2,956
100+	—	—	—	18	152	649	18	61	184	36	213	834
Nonstocked <sup>e</sup>	—	—	—	14	—	2	29	10	39	43	11	41
Unclassified <sup>f</sup>	—	—	—	12	91	286	16	59	247	28	150	533
Total, all ages	98	389	1,742	1,339	3,920	14,092	431	1,099	3,955	1,867	5,408	19,789

— = none found or less than 500 acres, 500,000 cubic feet, or 500,000 board feet.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

<sup>c</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>d</sup> Scribner rule (16-foot rule).

<sup>e</sup> Nonstocked areas are less than 10 percent stocked with live trees.

<sup>f</sup> Includes volume from access-denied project areas.

**Table 24d—Estimated area, net volume of growing stock, and net volume of sawtimber on nonfederal timberland, by stand age and owner class, southwest Oregon, January 1, 1997<sup>a b c</sup>**

Stand age	Area	Other public		Forest industry				Other private				All owners	
		Growing-stock volume		Sawtimber volume		Growing-stock volume		Sawtimber volume		Growing-stock volume		Sawtimber volume	
		Thousand acres	Million cubic feet	Million board feet <sup>d</sup>	Thousand acres	Million cubic feet	Million board feet <sup>d</sup>	Area	Million cubic feet	Million board feet <sup>d</sup>	Area	Million cubic feet	Million board feet <sup>d</sup>
Even aged:													
0-09	23	6	20	204	46	106	45	1	125	69	103	272	53
10-19	1	—	—	291	79	133	103	1	395	148	395	257	128
20-29	27	16	26	379	502	1,010	95	125	286	113	126	501	644
30-39	21	68	197	237	929	2,533	56	291	314	324	321	1,053	1,322
40-49	13	44	175	187	688	2,281	124	321	879	224	673	793	3,022
50-59	—	—	—	99	568	2,188	83	224	182	139	498	101	2,861
60-69	10	71	276	50	210	846	42	139	498	42	139	420	1,620
70-79	—	—	—	8	3	9	22	65	195	9	22	30	204
80-89	—	—	—	17	83	188	9	51	173	8	51	26	361
90-99	17	139	698	8	57	215	8	7	21	15	46	29	203
100-109	9	106	541	5	11	32	15	17	46	17	46	29	934
110-119	—	—	—	14	83	261	6	17	54	54	20	99	619
120-129	9	108	575	—	—	—	3	—	—	—	12	108	316
130-139	—	—	—	—	—	—	—	—	—	—	—	—	575
140-149	—	—	—	—	—	—	—	—	—	—	—	—	—
150-159	—	—	—	—	—	—	—	—	—	—	—	—	95
160-169	—	—	—	—	—	—	—	—	—	—	—	—	—
170-179	—	—	—	—	—	—	—	—	—	—	—	—	—
180-189	—	—	—	—	—	—	—	—	—	—	—	—	—
190-199	—	—	—	—	—	—	—	—	—	—	—	—	—
200-299	—	—	—	—	—	—	—	—	—	—	—	—	—
300+	—	—	—	—	—	—	—	—	—	—	—	—	—
Uneven aged:													
<100	28	145	615	165	440	1,294	106	344	1,031	299	22	930	2,940
100+	21	77	251	64	378	1,611	22	44	124	107	47	47	1,986
Nonstocked <sup>e</sup>	—	—	—	8	—	—	17	15	47	26	15	15	47
Total, all ages	179	779	3,375	1,736	4,078	12,708	759	1,570	4,539	2,673	6,427	20,622	

— = none found or less than 500 acres, 500,000 cubic feet, or 500,000 board feet.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

<sup>c</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>d</sup> Scribner rule (16-foot rule).

<sup>e</sup> Nonstocked areas are less than 10 percent stocked with live trees.

**Table 25a—Estimated gross annual growth, average annual mortality, and average annual removals of growing stock on nonfederal timberland, by species and owner class, Western Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public			Forest industry			Other private			All owners		
	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals
							Thousand cubic feet					
Softwoods:												
Douglas-fir	94,974	8,883	16,709	369,628	23,949	211,105	89,834	8,447	62,930	554,437	41,279	290,745
Grand fir	1,558	263	—	12,020	1,744	8,857	5,865	1,180	1,986	19,443	3,186	10,843
Incense-cedar	128	71	—	2,322	404	1,129	1,849	421	603	4,298	897	1,732
Jeffrey pine	—	—	—	25	13	—	16	—	—	41	13	—
Knobcone pine	—	—	—	34	3	—	—	—	—	34	3	—
Lodgepole pine	—	—	—	—	—	—	—	572	139	572	139	—
Mountain hemlock	—	—	—	—	—	—	—	—	—	—	—	160
Noble fir	1,348	65	—	2,479	190	108	—	—	—	3,827	254	108
Ponderosa pine	115	48	—	1,167	210	2,416	2,882	463	897	1,740	1,665	722
Port-Orford-cedar	40	55	—	1,274	144	2,387	412	95	—	2,387	279	3,313
Redwood	—	—	—	295	79	1,848	247	18	—	542	97	1,848
Sitka spruce	2,783	534	—	1,419	2,551	9,416	3,207	576	3,380	22,515	3,661	14,214
Sugar pine	225	14	—	589	81	4,650	215	42	—	1,029	136	4,650
Western hemlock	18,511	2,386	—	91,409	9,837	76,099	4,217	627	11,341	114,137	12,850	95,063
Western redcedar	709	163	—	5,005	911	11,958	3,517	750	1,764	9,232	1,824	13,723
Western white pine	—	—	—	—	—	—	29	4	—	29	4	—
White fir	201	96	—	3,121	397	5,109	323	145	1,557	3,645	638	6,667
Total	120,609	12,562	25,751	505,892	40,511	335,242	113,185	12,908	84,458	739,686	65,982	445,451
Hardwoods:												
Bigleaf maple	2,066	616	1,181	8,859	2,246	10,202	7,517	1,874	2,066	18,442	4,736	13,450
Black cottonwood	91	13	—	427	68	—	315	66	—	833	148	—
California black oak	80	99	—	319	162	161	2,302	969	318	2,701	1,231	479
California-laurel	183	27	—	1,447	208	656	228	37	—	1,858	271	656
Canyon live oak	25	13	—	152	68	—	51	26	—	229	107	—
Cherry	20	1	—	436	63	619	279	62	510	735	126	1,129
Golden chinquapin	—	—	209	2,641	820	345	120	115	132	2,762	934	686
Oregon ash	173	33	—	643	89	100	389	62	90	1,032	150	189
Oregon white oak	264	210	—	1,518	1,092	278	2,523	999	626	4,213	2,124	904
Pacific madrone	22,229	6,344	500	3,242	1,688	2,715	4,163	1,411	2,079	7,669	3,309	4,794
Red alder	8	3	—	46,208	12,289	34,772	20,083	5,614	6,099	88,521	24,247	41,371
Tanoak	—	—	—	3,341	490	1,067	844	120	78	4,192	613	1,145
Total	25,139	7,359	1,890	69,234	19,284	50,915	38,815	11,354	11,999	133,188	37,977	64,804
All species	145,748	19,921	27,641	575,126	59,795	386,157	152,000	24,262	96,456	872,875	103,978	510,255

— = less than 500 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

**Table 25b—Estimated gross annual growth, average annual mortality, and average annual removals of growing stock on nonfederal timberland, by species and owner class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public			Forest industry			Other private			All owners		
	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals
							Thousand cubic feet					
Softwoods:												
Douglas-fir	72,227	5,613	4,421	95,709	8,137	69,751	30,937	16,910	198,873	16,792	91,082	221
Grand fir	504	236	—	916	119	—	627	221	2,046	556	—	160
Mountain hemlock	—	—	—	—	—	160	—	—	—	—	3,474	205
Noble fir	1,348	65	—	2,126	140	108	—	—	—	—	—	108
Pacific silver fir	—	—	—	—	—	—	—	—	—	—	—	—
Ponderosa pine	—	—	—	125	6	—	55	11	—	180	16	—
Sitka spruce	2,232	244	1,419	10,428	1,502	3,952	610	61	2,107	13,270	1,807	7,478
Western hemlock	17,638	2,251	7,214	57,717	6,255	33,120	2,164	139	801	77,519	8,605	41,136
Western redcedar	672	160	—	1,766	283	2,447	2,870	592	1,608	5,308	1,035	4,055
Total	94,620	8,568	13,055	168,789	16,442	109,539	37,262	4,046	21,647	300,671	29,056	144,241
Hardwoods:												
Bigleaf maple	1,873	573	—	2,145	785	5,271	4,496	1,349	1,426	8,514	2,707	6,697
Black cottonwood	—	—	—	427	68	—	273	60	—	700	128	—
Cherry	20	1	—	79	49	161	243	51	288	342	101	449
Oregon ash	—	—	—	53	6	—	259	42	—	312	48	—
Oregon white oak	2	1	—	165	160	89	1,558	551	415	1,724	712	503
Pacific madrone	14	60	500	17,275	5,096	16,812	9,400	2,926	3,903	46,012	13,527	21,215
Total	21,248	6,141	500	20,143	6,164	22,334	16,229	4,978	6,031	57,620	17,283	28,864
All species	115,868	14,709	13,554	188,932	22,606	131,873	53,491	9,024	27,679	358,291	46,339	173,106

— = less than 500 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

**Table 25c—Estimated gross annual growth, average annual mortality, and average annual removals of growing stock on nonfederal timberland, by species and owner class, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public			Forest industry			Other private			All owners		
	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals
	Thousand cubic feet											
Softwoods:												
Douglas-fir	9,485	1,419	11,868	136,540	8,613	53,220	23,043	2,244	20,184	169,068	12,276	85,272
Grand fir	—	—	—	1,338	199	2,846	1,966	511	873	3,333	710	3,719
Incense-cedar	—	—	—	267	63	—	151	46	—	417	109	—
Lodgepole pine	—	—	—	—	—	—	481	123	—	481	123	—
Noble fir	—	—	—	352	49	—	—	—	—	352	49	—
Ponderosa pine	—	—	—	7	15	—	466	56	—	473	70	—
Sitka spruce	—	—	—	5,467	959	3,935	1,664	428	1,273	7,131	1,387	5,208
Western hemlock	155	18	409	25,825	2,842	22,716	1,376	416	10,539	27,356	3,276	33,664
Western redcedar	—	—	—	1,360	198	6,878	237	69	156	1,597	267	7,034
Western white pine	—	—	—	—	—	—	29	4	—	29	4	—
Total	9,640	1,437	12,276	171,157	12,938	89,594	29,442	3,897	33,025	210,238	18,272	134,896
Hardwoods:												
Bigleaf maple	112	29	1,181	3,818	668	3,195	2,308	372	283	6,237	1,069	4,659
Black cottonwood	91	13	—	—	—	—	—	—	—	91	13	—
California black oak	—	—	—	—	—	—	403	223	90	403	223	90
Cherry	—	—	—	212	—	—	458	36	11	248	11	458
Golden chinkapin	—	—	209	902	319	143	73	66	—	975	384	352
Oregon ash	—	—	—	491	62	—	81	15	—	572	78	—
Oregon white oak	—	—	—	808	327	189	368	128	212	1,176	455	401
Pacific madrone	1,474	449	—	29	95	413	67	33	95	96	127	508
Red alder	—	—	—	10,305	2,596	4,651	5,425	1,686	—	17,204	4,731	4,651
Total	1,677	491	1,390	16,564	4,066	9,050	8,759	2,533	679	27,000	7,090	11,119
All species	11,317	1,928	13,667	187,720	17,004	98,644	38,201	6,430	33,705	237,238	25,363	146,015

— = less than 500 cubic feet or none found.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Includes growing-stock trees 5.0 inches in d.b.h. and larger.

**Table 25d—Estimated gross annual growth, average annual mortality, and average annual removals of growing stock on nonfederal timberland, by species and owner class, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public			Forest industry			Other private			All owners			
	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	
							Thousand cubic feet						
Softwoods:													
Douglas-fir	13,262	1,850	420	137,379	7,199	88,134	35,854	3,161	25,837	186,496	12,211	114,391	
Grand fir	1,055	27	—	9,766	1,425	6,012	3,242	468	891	14,063	1,920	6,903	
Incense-cedar	128	71	—	2,055	341	1,129	1,698	375	603	3,880	788	1,732	
Jeffrey pine	—	—	—	25	13	—	—	16	—	—	41	13	
Knobcone pine	—	—	—	34	3	—	—	—	—	34	3	—	
Lodgepole pine	—	—	—	—	—	—	—	91	16	—	91	16	
Ponderosa pine	115	48	—	1,035	190	2,416	2,361	397	897	3,511	635	3,313	
Port-Orford-cedar	55	40	—	1,274	144	2,387	412	95	—	1,740	279	2,387	
Redwood	—	—	—	295	79	1,848	247	18	—	—	542	97	
Sitka spruce	552	290	—	629	90	1,529	933	87	—	2,113	466	1,848	
Sugar pine	225	14	—	589	81	4,650	215	42	—	1,029	136	1,529	
Western hemlock	718	117	—	7,866	740	20,262	677	72	—	9,262	929	4,650	
Western redcedar	38	4	—	1,879	430	2,633	411	89	—	2,327	523	20,262	
White fir	201	96	—	3,121	397	5,109	323	145	1,557	3,645	638	2,633	
Total	16,349	2,556	420	165,947	11,132	136,109	46,481	4,965	29,785	228,777	18,653	166,314	
Hardwoods:													
Bigleaf maple	81	14	—	2,897	793	1,736	713	154	357	3,691	961	2,093	
Black cottonwood	—	—	—	—	—	—	42	7	—	42	7	—	
California black oak	80	99	—	319	162	161	1,899	747	228	2,298	1,008	390	
California-laurel	183	27	—	1,447	208	656	228	37	—	1,858	271	656	
Canyon live oak	25	13	—	152	68	—	51	26	—	229	107	—	
Cherry	—	—	—	145	14	—	—	—	222	145	14	222	
Golden chinquapin	—	—	—	1,740	501	202	48	49	132	1,787	550	334	
Oregon ash	170	32	—	100	21	100	49	4	90	149	25	189	
Oregon white oak	250	149	—	545	605	—	597	320	—	1,313	957	—	
Pacific madrone	1,417	390	—	3,213	1,593	2,301	4,056	1,378	1,984	7,559	3,121	4,286	
Red alder	8	3	—	18,629	4,598	13,309	5,259	1,002	2,196	25,305	5,989	15,504	
Tanoak	Total	2,214	727	—	32,527	9,053	19,532	13,827	3,843	5,288	48,569	13,624	24,820
All species	18,563	3,283	420	198,474	20,185	155,641	60,308	8,808	35,073	277,345	32,276	191,134	

— = less than 500 cubic feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes growing-stock trees 5.0 inches in d.b.h. and larger.

**Table 26a—Estimated gross annual growth, average annual mortality, and average annual removals of sawtimber on nonfederal timberland, by species and owner class, western Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public			Forest industry			Other private			All owners		
	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals
<i>Softwoods:</i>												
Douglas-fir	448,741	35,168	77,652	1,504,084	82,030	900,733	374,189	28,920	255,338	2,327,014	146,118	1,233,723
Grand fir	3,678	713	—	49,913	6,074	39,909	22,123	4,565	7,629	75,714	11,352	47,538
Incense-cedar	522	251	—	6,022	876	1,263	5,221	649	1,643	11,765	1,777	2,905
Jeffrey pine	—	—	—	115	53	—	78	1	—	193	54	—
Knobcone pine	—	—	—	120	6	—	—	—	—	120	6	—
Lodgepole pine	—	—	—	—	—	—	2,378	340	—	2,378	340	—
Mountain hemlock	—	—	—	—	—	623	—	—	—	—	—	623
Noble fir	5,254	248	—	7,477	753	—	—	—	—	12,731	1,000	—
Ponderosa pine	725	222	—	4,756	693	11,097	12,862	1,643	3,390	18,344	2,558	14,487
Port-Orford-cedar	233	119	—	2,431	270	3,548	1,260	155	—	3,923	543	3,548
Redwood	—	—	—	1,452	313	7,316	458	23	—	1,910	336	7,316
Sitka spruce	12,695	1,506	7,130	9,588	44,105	14,687	2,278	17,161	100,683	13,371	68,396	—
Sugar pine	980	50	0	2,253	320	26,871	1,054	157	—	4,287	527	26,871
Western hemlock	82,275	7,447	36,134	368,192	29,459	298,417	13,067	1,722	46,821	463,535	38,628	38,372
Western redcedar	2,531	534	—	18,413	2,948	43,201	14,967	2,828	6,039	35,911	6,310	49,240
Western white pine	—	—	—	—	—	—	126	13	—	126	13	—
White fir	860	333	—	7,536	823	15,264	1,348	418	5,362	9,745	1,574	20,626
Total	558,495	46,589	120,916	2,046,064	134,207	1,392,346	463,818	43,712	343,383	3,068,377	224,508	1,856,644
<i>Hardwoods:</i>												
Bigleaf maple	6,978	1,656	4,064	41,230	5,544	26,020	27,596	6,386	4,436	75,803	13,586	34,520
Black cottonwood	536	61	—	2,568	333	—	2,057	368	—	5,161	762	—
California black oak	136	159	—	772	272	254	2,496	1,141	541	3,404	1,571	794
California-laurel	258	37	—	2,073	335	2,317	465	65	—	2,795	437	2,317
Canyon live oak	—	—	—	167	34	—	15	3	—	182	37	—
Cherry	—	—	—	—	—	727	4,647	198	—	4,647	198	727
Golden chinquapin	—	—	—	3,147	470	—	213	92	—	3,360	562	—
Oregon ash	428	78	—	205	17	—	894	111	—	1,099	127	—
Oregon white oak	364	348	—	3,282	2,334	468	5,685	1,452	1,219	9,395	3,864	1,687
Pacific madrone	80,711	18,501	—	11,016	2,277	5,721	8,826	1,619	5,455	20,206	4,244	11,176
Red alder	—	—	—	170,603	32,456	119,262	77,915	19,481	18,506	329,229	70,439	137,768
Tanoak	—	—	—	—	4,639	746	1,718	1,086	171	243	5,724	1,961
Total	89,410	20,839	4,064	239,702	44,816	156,486	131,894	31,088	30,399	461,006	96,744	190,949
All species	647,905	67,428	124,980	2,285,766	179,023	1,548,832	595,712	74,800	373,782	3,529,383	321,252	2,047,593

— = less than 500 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 26b—Estimated gross annual growth, average annual mortality, and average annual removals of sawtimber on nonfederal timberland, by species and owner class, northwest Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public			Forest industry			Other private			All owners		
	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals
				Thousand board feet, Scribner rule								
<i>Softwoods:</i>												
Douglas-fir	340,566	20,284	17,397	403,222	31,090	297,506	146,038	70,130	88,826	63,612	385,034	
Grand fir	2,453	680	—	3,822	360	—	2,767	1,189	9,042	1,921	1,189	
Mountain hemlock	—	—	—	—	—	623	—	—	—	—	—	623
Noble fir	5,254	248	—	6,070	541	—	—	—	—	11,324	788	—
Pacific silver fir	—	—	—	—	—	—	—	—	—	—	—	—
Ponderosa pine	—	—	—	320	18	—	329	51	—	650	69	—
Sitka spruce	10,252	752	7,130	44,047	5,110	16,294	2,433	252	10,333	56,732	6,113	33,757
Western hemlock	79,395	7,121	35,101	236,954	17,877	123,745	5,769	518	3,977	322,118	25,516	162,824
Western redcedar	2,389	523	—	6,636	796	8,005	12,661	2,349	5,400	21,686	3,668	13,406
Total	440,310	29,607	59,629	701,071	55,792	446,174	169,997	16,288	91,030	1,311,378	101,687	596,832
<i>Hardwoods:</i>												
Bigleaf maple	6,159	1,491	—	9,538	2,120	16,679	20,627	4,922	3,775	36,324	8,534	20,454
Black cottonwood	—	—	—	2,568	333	—	1,791	332	—	4,359	665	—
Cherry	—	—	—	—	—	—	4,430	158	—	4,430	158	—
Oregon ash	—	—	—	—	—	—	506	63	—	506	63	—
Oregon white oak	—	—	—	315	281	—	4,139	857	818	4,453	1,137	818
Pacific madrone	21	63	—	61,514	12,620	55,681	40,743	11,214	10,650	174,639	21	66,332
Red alder	72,382	15,629	—	—	—	—	—	—	—	—	—	—
Total	78,562	17,183	—	73,936	15,354	72,361	72,236	17,545	15,243	224,733	50,082	87,604
All species	518,871	46,790	59,629	775,007	71,146	518,535	242,233	33,833	106,273	1,536,111	151,769	684,436

— = less than 500 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 26c—Estimated gross annual growth, average annual mortality, and average annual removals of sawtimber on nonfederal timberland, by species and owner class, west-central Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public			Forest industry			Other private			All owners		
	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals
							Thousand board feet, Scribner rule					
<b>Softwoods:</b>												
Douglas-fir	48,721	6,369	58,836	579,476	28,587	211,186	102,690	7,531	81,692	730,887	42,487	351,714
Grand fir	—	—	—	4,349	390	11,617	8,006	2,014	2,984	12,355	2,404	14,601
Incense-cedar	—	—	—	1,014	180	—	355	84	—	1,369	264	—
Lodgepole pine	—	—	—	—	—	—	1,894	276	—	1,894	276	—
Noble fir	—	—	—	1,407	212	—	—	—	—	1,407	212	—
Ponderosa pine	—	—	—	56	45	—	2,311	238	—	2,368	283	—
Sitka spruce	—	—	—	26,993	4,190	20,991	8,200	1,709	6,829	35,192	5,899	27,820
Western hemlock	747	62	1,032	103,507	9,226	87,357	4,393	911	42,843	108,647	10,200	131,232
Western redcedar	—	—	—	3,956	541	23,756	778	240	639	4,733	781	24,395
Western white pine	—	—	—	—	—	—	126	13	—	126	13	—
Total	49,468	6,431	59,868	720,758	43,371	354,907	128,754	13,016	134,986	898,979	62,819	549,761
<b>Hardwoods:</b>												
Bigleaf maple	557	124	4,064	17,887	1,630	6,848	5,265	1,044	661	23,709	2,798	11,572
Black cottonwood	536	61	—	—	—	—	—	—	—	536	61	—
California black oak	—	—	—	—	—	—	572	385	190	572	385	190
Cherry	—	—	—	—	—	—	727	217	40	217	40	727
Golden chinkapin	—	—	—	1,908	258	—	90	76	—	1,998	334	—
Oregon ash	—	—	—	121	10	—	333	46	—	454	56	—
Oregon white oak	—	—	—	1,691	754	468	640	227	401	2,331	981	888
Pacific madrone	4,683	1,157	—	143	145	—	73	22	47	65,675	14,317	47
Red alder	—	—	—	40,769	7,415	16,036	20,224	5,745	—	—	—	16,036
Total	5,775	1,342	4,064	62,519	10,211	24,077	27,414	7,586	1,298	95,708	19,139	29,439
All species	55,243	7,773	63,932	783,277	53,582	378,985	156,168	20,603	136,285	994,688	81,958	579,201

— = less than 500 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 26d—Estimated gross annual growth, average annual mortality, and average annual removals of sawtimber on nonfederal timberland, by species and owner class, southwest Oregon, January 1, 1997<sup>a,b</sup>**

Species	Other public			Forest industry			Other private			All owners		
	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals	Current gross annual growth	Average annual mortality	Average annual removals
							Thousand board feet, Scribner rule					
Softwoods:												
Douglas-fir	59,454	8,514	1,419	521,386	22,354	392,040	125,460	9,151	103,516	706,301	40,019	496,975
Grand fir	1,225	33	—	41,742	5,323	28,292	11,350	3,456	54,317	7,028	31,748	—
Incense-cedar	522	251	—	5,008	696	1,263	4,866	565	1,643	10,396	1,513	2,905
Jeffrey pine	—	—	—	115	53	—	78	1	—	193	54	—
Knobcone pine	—	—	—	120	6	—	—	—	—	120	6	—
Lodgepole pine	—	—	—	—	—	—	—	—	—	484	64	—
Ponderosa pine	725	222	—	4,380	630	11,097	10,222	1,354	3,390	15,327	2,206	14,487
Port-Orford-cedar	233	119	—	2,431	270	3,548	1,260	155	—	3,923	543	3,548
Redwood	—	—	—	1,452	313	7,316	4,58	23	—	1,910	336	7,316
Sitka spruce	2,443	755	—	2,260	288	6,820	4,055	317	—	8,758	1,359	6,820
Sugar pine	980	50	—	2,253	320	—	—	—	—	4,287	527	—
Western hemlock	2,133	264	—	27,731	2,356	26,871	2,905	293	—	32,769	2,912	26,871
Western redcedar	143	11	—	7,821	1,611	87,315	1,528	239	—	9,492	1,861	87,315
White fir	860	333	—	7,536	823	11,440	1,348	418	—	9,745	1,574	11,440
Total	68,718	10,552	1,419	624,235	35,043	576,002	165,068	14,409	112,005	853,022	60,002	689,425
Hardwoods:												
Bigleaf maple	262	40	—	13,804	1,794	2,493	1,704	420	117,367	15,769	2,254	119,860
Black cottonwood	—	—	—	—	—	—	—	37	—	266	37	—
California black oak	136	159	—	772	272	254	1,924	755	—	2,832	1,186	254
California-laurel	258	37	—	2,073	335	2,317	465	65	351	2,795	437	2,668
Canyon live oak	—	—	—	167	34	—	15	3	—	182	37	—
Golden chinquapin	—	—	—	1,239	212	—	123	16	—	1,362	228	—
Oregon ash	—	—	—	84	7	—	55	2	—	140	9	—
Oregon white oak	428	78	—	1,277	1,300	—	906	368	—	2,611	1,745	—
Pacific madrone	343	285	—	10,873	2,132	5,721	8,753	1,597	5,409	19,969	4,014	11,130
Red alder	3,647	1,716	—	68,320	12,421	47,545	16,947	2,522	7,856	88,915	16,639	55,401
Tanoak	—	—	—	4,639	746	1,718	1,086	171	242	5,724	917	1,960
Total	5,074	2,315	—	103,248	19,253	60,048	32,244	5,956	131,225	140,565	27,523	191,273
All species	73,791	12,865	1,419	727,483	54,295	636,050	197,311	20,365	243,230	998,585	87,525	880,698

— = less than 500 board feet or none found.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

**Table 27a—Estimated changes in area of nonfederal timberland, by owner class, western Oregon, 1986-87, 1997<sup>a,b</sup>**

Description of change	Other public	Forest industry	Other private	All owners
<i>Thousand acres</i>				
Timberland area published in 1986-87	862	4,047	1,869	6,778
New estimate of timberland area for 1986-87, based on remeasured plots only	811	4,041	1,971	6,823
Changes in inventory area:				
To national forest or BLM	-8	-38	-10	-56
From national forest or BLM	—	26	18	44
Net change	-8	-12	8	-12
Area change (1986-87, 1997) due to:				
Changes in land class—				
Timberland to rights-of-way	-16	-47	-26	-89
Timberland to urban	—	-9	-25	-34
Timberland to agriculture	—	—	-22	-22
Timberland to other nonforest	-7	-8	-28	-44
Nonforest to timberland	—	14	84	98
Other forest to timberland	9	8	23	40
Net change	-14	-42	6	-51
Changes in ownership—				
From other public	-22	22	—	—
From forest industry	18	-92	74	—
From other private	27	237	-264	—
Net change	23	167	-190	—
Timberland area in 1997, based on remeasured plots only	812	4,153	1,794	6,760
Timberland area in 1997, based on all sampled plots	850	4,179	1,880	6,909

— = none found or less than 500 acres.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Negative values are losses of timberland, and positive values are gains of timberland.

**Table 27b—Estimated changes in area of nonfederal timberland, by owner class, northwest Oregon, 1986, 1997<sup>a,b</sup>**

Description of change	Other public	Forest industry	Other private	All owners
<i>Thousand acres</i>				
Timberland area published in 1986	590	1,134	643	2,367
New estimate of timberland area for 1986, based on remeasured plots only	558	1,020	712	2,291
Changes in inventory area:				
To national forest or BLM	—	—	—	—
From national forest or BLM	—	18	18	36
Net change	—	18	18	36
Area change (1986-97) due to:				
Changes in land class—				
Timberland to rights-of-way	-5	-14	-7	-27
Timberland to urban	—	—	-8	-8
Timberland to agriculture	—	—	-15	-15
Timberland to other nonforest	-7	—	-8	-15
Nonforest to timberland	—	—	38	38
Other forest to timberland	9	—	6	15
Net change	-3	-14	6	-11
Changes in ownership—				
From other public	-7	7	—	—
From forest industry	9	-19	10	—
From other private	—	82	-82	—
Net change	2	70	-72	—
Timberland area in 1997, based on remeasured plots only	558	1,095	664	2,317
Timberland area in 1997, based on all sampled plots	574	1,104	691	2,368

— = none found less than 500 acres.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Negative values are losses of timberland, and positive values are gains of timberland.

**Table 27c—Estimated changes in area of nonfederal timberland, by owner class, west-central Oregon, 1987, 1997<sup>a,b</sup>**

Description of change	Other public	Forest industry	Other private	All owners
<i>Thousand acres</i>				
Timberland area published in 1987	109	1,270	449	1,828
New estimate of timberland area for 1987 based on remeasured plots only	100	1,319	491	1,911
Changes in inventory area:				
To national forest or BLM	-8	-30	—	-38
From national forest or BLM	—	8	—	8
Net change	-8	-22	—	-30
Area change (1987-97) due to:				
Changes in land class—				
Timberland to rights-of-way	-12	-19	-14	-45
Timberland to urban	—	—	-8	-8
Timberland to agriculture	—	—	—	—
Nonforest to timberland	—	—	12	12
Other forest to timberland	—	—	—	8
Net change	-12	-19	-10	-41
Changes in ownership—				
From other public	-5	5	—	—
From forest industry	9	-30	21	—
From other private	9	88	-97	—
Net change	13	63	-76	—
Timberland area in 1997, based on remeasured plots only	93	1,340	406	1,839
Timberland area in 1997, based on all sampled plots	97	1,339	430	1,867

— = none found or less than 500 acres.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Negative values are losses of timberland and positive values are gains of timberland.

**Table 27d—Estimated changes in area of nonfederal timberland, by owner class, southwest Oregon, 1986, 1997<sup>a,b</sup>**

Description of change	Other public	Forest industry	Other private	All owners
<i>Thousand acres</i>				
Timberland area published in 1986	163	1,643	777	2,583
New estimate of timberland area for 1986 based on remeasured plots only	152	1,701	767	2,619
Changes in inventory area:				
To national forest or BLM	—	-8	-10	-17
From national forest or BLM	—	—	—	—
Net change	—	-8	-10	-17
Area change (1986-97) due to:				
Changes in land class—				
Timberland to rights-of-way	—	-13	-5	-18
Timberland to urban	—	-9	-9	-18
Timberland to agriculture	—	—	-7	-7
Timberland to other nonforest	—	-8	-21	-29
Nonforest to timberland	—	14	34	48
Other forest to timberland	—	8	16	24
Net change	—	-8	8	0
Changes in ownership—				
From other public	-9	9	—	—
From forest industry	—	-43	43	—
From other private	18	67	-85	—
Net change	9	33	-42	—
Timberland area in 1997, based on remeasured plots only	161	1,718	723	2,602
Timberland area in 1997, based on all sampled plots	179	1,736	759	2,809

— = none found or less than 500 acres.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Negative values are losses of timberland, and positive values are gains of timberland.

**Table 28a—Estimated changes in net volume of growing stock on nonfederal timberland, by species group and owner class,  
western Oregon, 1986-87, 1997<sup>a,b</sup>**

Description	Softwood species			Hardwood species		
	Other public	Forest industry	Other private	All owners	Other public	Forest industry
Volume published in 1986-87	2,864	9,300	3,456	15,619	610	2,047
Estimate of 1986-87 volume, based on remeasured plots only	3,036	10,236	3,990	17,261	519	1,813
Volume changes due to:						
Changes in land class <sup>c</sup> —						
Nonforest to timberland	18	55	243	316	9	5
Other forest to timberland	14	8	51	73	25	11
Timberland to nonforest	-139	-161	-151	-450	-7	-58
Timberland to other forest	—	-8	-8	-16	—	-3
Net change	-107	-106	135	-77	27	-45
Changes in inventory area—						
To national forest or BLM	-61	-144	-1	-206	-2	-8
From national forest or BLM	—	—	—	—	—	—
Net change	-61	-144	-1	-206	-2	-8
Changes in owner—						
From other public	-166	166	—	—	-23	—
From forest industry	32	-172	140	—	10	-80
From other private	103	617	-720	—	19	202
Net change	-31	611	-580	0	6	122
Growth, mortality, and harvest—						
Periodic gross growth	1,298	6,130	1,543	8,969	265	906
Periodic mortality	-76	-191	-50	-316	-41	-115
Periodic removals	-44	-4,750	-1,348	-6,542	-24	-688
Net change	778	1,189	145	2,111	200	103
Total volume in 1997, based on remeasured plots only	3,615	11,786	3,689	19,089	750	1,985
Total volume in 1997, based on all sample plots	3,365	10,243	3,092	16,700	612	1,751

— = none found or less than 500,000 cubic feet.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Negative values are losses of timberland, and positive values are gains of timberland.

<sup>c</sup> The classification of owner or land class assigned to a plot in 1986-87 was verified in the 1997 inventory. In some cases, updates were made to the 1986-87 data.

**Table 28b—Estimated changes in net volume of growing stock on nonfederal timberland, by species group and owner class,  
northwest Oregon, 1986, 1997<sup>a,b</sup>**

<b>Description</b>	<b>Softwood species</b>			<b>Hardwood species</b>			
	<b>Other public</b>	<b>Forest industry</b>	<b>Other private</b>	<b>All owners</b>	<b>Other public</b>	<b>Forest industry</b>	<b>Other private</b>
<i>Million cubic feet</i>							
Volume published in 1986	1,679	2,924	1,269	5,871	411	647	803
Estimate of 1986 volume, based on remeasured plots only	1,811	3,378	1,330	6,519	350	561	674
Volume changes due to:							
Changes in land class <sup>c</sup> —							
Nonforest to timberland	6	11	117	135	1	5	14
Other forest to timberland	14	—	48	62	25	—	25
Timberland to nonforest	-34	-88	-54	-176	-4	—	-48
Net change	-14	-77	111	21	22	5	-9
Changes in inventory area—							
To national forest or BLM	—	—	—	—	—	—	—
From national forest or BLM	—	—	—	—	—	—	—
Net change	—	—	—	—	—	—	—
Changes in owner—							
From other public	-63	63	—	—	-23	23	—
From forest industry	21	-32	11	—	—	-15	15
From other private	—	138	-138	—	—	77	-77
Net change	-42	169	-127	—	-23	85	-62
Growth, mortality, and harvest—							
Periodic gross growth	1,001	2,094	499	3,594	222	267	219
Periodic mortality	-42	-76	-19	-137	-26	-26	-16
Periodic removals	-270	-1,437	-320	-2,028	-6	-307	-92
Net change	689	581	160	1,429	190	-66	111
Total volume in 1997, based on remeasured plots only	2,444	4,051	1,474	7,969	539	585	714
Total volume in 1997 based on all sample plots	2,326	3,541	1,117	6,983	483	455	522
— = none found or less than 500,000 cubic feet.							
<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.							
<sup>b</sup> Negative values are losses of timberland, and positive values are gains of timberland.							
<sup>c</sup> The classification of owner or land class assigned to a plot in 1986 was verified in the 1997 inventory. In some cases, updates were made to the 1986 data.							

**Table 28c—Estimated changes in net volume of growing stock on nonfederal timberland, by species group and owner class,  
west-central Oregon, 1987, 1997<sup>a,b</sup>**

Description	Softwood species			Hardwood species		
	Other public	Forest industry	Other private	All owners	Other public	Forest industry
Volume published in 1987	634	2,976	983	4,592	76	511
Estimate of 1987 volume, based on remeasured plots only	633	3,333	1,265	5,230	38	413
Volume changes due to:						
Changes in land class <sup>c</sup> —						
Nonforest to timberland	12	32	21	65	8	—
Timberland to nonforest	-105	-45	-31	-180	-3	-40
Net change	-93	-13	-10	-115	5	-40
Changes in inventory area—						
To national forest or BLM	-61	-144	—	-205	-2	-9
From national forest or BLM	—	—	—	—	—	—
Net change	-61	-144	—	-205	-2	-9
Changes in owner—						
From other public	-101	101	—	—	—	—
From forest industry	11	-49	38	—	10	-10
From other private	72	265	-337	—	6	92
Net change	-18	317	-299	—	16	82
Growth, mortality, and harvest—						
Periodic gross growth	87	1,949	415	2,450	17	199
Periodic mortality	-22	-57	-3	-81	—	-33
Periodic removals	-143	-1,311	-560	-2,014	-18	-111
Net change	-78	581	-148	355	-1	55
Total volume in 1997, based on remeasured plots only	383	4,074	808	5,265	56	501
Total volume in 1997 based on all sample plots	354	3,511	833	4,688	44	409

— = none found or less than 500,000 cubic feet.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Negative values are losses of timberland, and positive values are gains of timberland.

<sup>c</sup>The classification of owner or land class assigned to a plot in 1987 was verified in the 1997 inventory. In some cases, updates were made to the 1987 data.

Table 28d—Estimated changes in net volume of growing stock on nonfederal timberland, by species group and owner class,  
southwest Oregon, 1986, 1997<sup>a,b</sup>

Description	Softwood species			Hardwood species		
	Other public	Forest industry	Other private	All owners	Other public	Forest industry
Volume published in 1986	551	3,400	1,204	5,156	123	889
Estimate of 1986 volume, based on remeasured plots only	592	3,525	1,395	5,512	131	840
Volume changes due to:						
Changes in land class <sup>c</sup> —						
Nonforest to timberland	—	12	105	116	—	—
Other forest to timberland	—	8	3	11	—	11
Timberland to nonforest	—	-28	-66	-94	—	-18
Timberland to other forest	—	-8	-8	-16	—	-3
Net change	—	-16	34	17	—	-10
Changes in inventory area —						
To national forest or BLM	—	—	-1	-1	—	—
From national forest or BLM	—	—	—	—	—	—
Net change	—	—	-1	-1	—	—
Changes in owner—						
From other public	-2	2	—	—	—	-23
From forest industry	—	-91	91	—	—	-55
From other private	31	214	-245	—	13	33
Net change	29	125	-154	—	13	-45
Growth, mortality, and harvest—						
Periodic gross growth	210	2,087	629	2,925	26	440
Periodic mortality	-12	-58	-28	-98	-15	-56
Periodic removals	-31	-2,002	-468	-2,500	--	-270
Net change	167	27	133	327	11	114
Total volume in 1997, based on remeasured plots only	788	3,661	1,407	5,855	155	899
Total volume in 1997, based on all sample plots	695	3,191	1,142	5,028	84	887

— = none found or less than 500,000 cubic feet.

<sup>a</sup>Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup>Negative values are losses of timberland, and positive values are gains of timberland.

<sup>c</sup>The classification of owner or land class assigned to a plot in 1986 was verified in the 1997 inventory. In some cases, updates were made to the 1986 data.

**Table 29a—Estimated changes in net volume of sawtimber on nonfederal timberland, by species group and owner class,  
western Oregon, 1986-87, 1997<sup>a,b,c</sup>**

Description	Softwood species			Hardwood species		
	Other public	Forest industry	Other private	All owners	Other public	Forest industry
Volume published in 1986-87	11,786	34,383	12,363	58,531	1,803	5,107
Estimate of 1986-87 volume, based on remeasured plots only	12,702	37,938	14,965	65,607	1,576	4,261
Volume changes due to:						
Changes in land class <sup>d</sup> —						
Nonforest to timberland	41	136	923	1,100	27	9
Other forest to timberland	58	15	244	317	36	23
Timberland to nonforest	-649	-597	-499	-1,747	-24	-180
Timberland to other forest	—	-6	-30	-36	—	-3
Net change	-550	-452	-638	-366	39	-151
Changes in inventory area—						
To national forest or BLM	-320	-600	-1	-922	-7	-30
From national forest or BLM	—	—	—	—	—	—
Net change	-320	-600	-1	-922	-7	-30
Changes in owner—						
From other public	-817	817	—	—	-36	36
From forest industry	97	-634	537	—	13	-189
From other private	526	2,656	-3,182	—	33	501
Net change	-194	2,839	2,645	—	10	348
Growth, mortality, and harvest—						
Periodic gross growth	5,616	23,541	6,495	35,653	936	2,794
Periodic mortality	-250	-427	-96	-772	-91	-204
Periodic removals	-2,029	-20,056	-5,499	-27,480	-55	-2,128
Net change	3,337	3,058	900	7,401	790	462
Total volume in 1997, based on remeasured plots only	14,975	42,783	13,855	71,717	2,408	4,890
Total volume in 1997, based on all sample plots	13,904	37,062	11,664	62,630	1,903	4,280

— = none found or less than 500,000 board feet.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Negative values are losses of timberland, and positive values are gains of timberland.

<sup>c</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>d</sup> The classification of owner or land class assigned to a plot in 1986-87 was verified in the 1997 inventory. In some cases, updates were made to the 1986-87 data.

Table 29b—Estimated changes in net volume of sawtimber on nonfederal timberland, by species group and owner class,  
northwest Oregon, 1986, 1997<sup>a,b,c</sup>

Description	Softwood species			Hardwood species		
	Other public	Forest industry	Other private	All owners	Other public	Forest industry
Volume published in 1986	6,337	10,326	4,931	21,594	1,032	1,785
Estimate of 1986 volume, based on remeasured plots only	6,889	12,234	5,353	24,476	968	1,484
Volume changes due to:						
Changes in land class <sup>d</sup> —						
Nonforest to timberland	20	35	482	537	—	9
Other forest to timberland	58	—	237	295	36	—
Timberland to nonforest	-94	-370	-185	-649	-9	—
Timberland to other forest	—	—	—	—	—	—
Net change	-16	-335	534	183	27	9
Changes in inventory area—						
To national forest or BLM	—	—	—	—	—	—
From national forest or BLM	—	—	—	—	—	—
Net change	—	—	—	—	—	—
Changes in owner—						
From other public	-266	266	—	—	—	—
From forest industry	70	-110	40	—	—	—
From other private	—	577	-577	—	—	—
Net change	-196	733	-537	—	—	—
Growth, mortality, and harvest—						
Periodic gross growth	4,286	8,489	2,235	15,010	786	884
Periodic mortality	-92	-167	-47	-305	-43	-12
Periodic removals	-1,226	-5,849	-1,473	-8,443	—	-1,026
Net change	2,968	2,473	715	6,262	743	-154
Total volume in 1997, based on remeasured plots only	9,646	15,106	6,065	30,922	1,739	1,538
Total volume in 1997, based on all sample plots	9,173	13,268	4,748	27,189	1,517	1,274
—	—	—	—	—	—	—

— = none found or less than 500,000 board feet.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Negative values are losses of timberland, and positive values are gains of timberland.

<sup>c</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>d</sup> The classification of owner or land class assigned to a plot in 1986 was verified in the 1997 inventory. In some cases, updates were made to the 1986 data.

**Table 29c—Estimated changes in net volume of sawtimber on nonfederal timberland, by species group and owner class,  
west-central Oregon, 1987, 1997<sup>a,b,c</sup>**

Description	Softwood species				Hardwood species			
	Other public	Forest industry	Other private	All owners	Other public	Forest industry	Other private	All owners
Volume published in 1987	3,012	11,079	3,722	17,813	276	1,279	981	2,536
Estimate of 1987 volume, based on remeasured plots only	3,118	12,374	4,966	20,458	133	1,002	1,112	2,247
Volume changes due to:								
Changes in land class <sup>d</sup> —								
Nonforest to timberland	21	87	100	208	27	—	88	115
Timberland to nonforest	-555	-164	-111	-832	-15	-121	-154	-290
Net change	-534	-77	-11	-624	12	-121	-66	-175
Changes in inventory area —								
To national forest or BLM	-320	-600	—	-920	-7	-30	—	-37
From national forest or BLM	—	—	—	—	—	—	—	—
Net change	-320	-600	—	-920	-7	-30	—	-37
Changes in owner—								
From other public	-544	544	—	—	—	—	—	—
From forest industry	27	-204	177	—	13	-13	—	—
From other private	399	1,242	-1,641	—	19	223	-242	—
Net change	-118	1,582	-1,464	—	32	210	-242	
Growth, mortality, and harvest—								
Periodic gross growth	471	7,564	1,852	9,887	48	556	381	985
Periodic mortality	-111	-116	—	-227	—	-86	-14	-100
Periodic removals	-698	-5,419	-2,170	-8,288	-55	-293	-18	-366
Net change	-338	2,029	-318	1,372	-7	177	349	519
Total volume in 1997, based on remeasured plots only	1,808	15,308	3,173	20,286	163	1,238	1,154	2,555
Total volume in 1997, based on all sample plots	1,597	13,038	3,171	17,805	146	1,054	784	1,983

— = none found or less than 500,000 board feet.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Negative values are losses of timberland, and positive values are gains of timberland.

<sup>c</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>d</sup> The classification of owner or land class assigned to a plot in 1987 was verified in the 1997 inventory. In some cases, updates were made to the 1987 data.

**Table 29d—Estimated changes in net volume of sawtimber on nonfederal timberland, by species group and owner class,  
southwest Oregon, 1986, 1997<sup>a,b,c</sup>**

Description	Softwood species			Hardwood species		
	Other public	Forest industry	Other private	All owners	Other public	Forest industry
Volume published in 1986	2,437	12,978	3,710	19,124	495	2,043
Estimate of 1986 volume based on remeasured plots only	2,695	13,330	4,644	20,669	475	1,775
Volume changes due to:						
Changes in land class <sup>d</sup> —						
Nonforest to timberland	—	14	341	355	—	—
Other forest to timberland	—	15	7	22	—	23
Timberland to nonforest	—	-63	-203	-266	—	-59
Timberland to other forest	—	-6	-30	-36	—	-3
Net change	—	-40	115	75	—	-39
Changes in inventory area—						
To national forest or BLM	—	—	-1	-1	—	—
From national forest or BLM	—	—	—	—	—	—
Net change	—	—	-1	-1	—	-22
Changes in owner—						
From other public	-7	7	—	—	-36	—
From forest industry	—	-320	320	—	-140	140
From other private	127	837	-964	—	43	-57
Net change	120	524	644	—	-22	-61
Growth, mortality, and harvest—						
Periodic gross growth	859	7,488	2,408	10,756	102	1,354
Periodic mortality	-47	-144	-49	-240	-48	-106
Periodic removals	-105	-8,788	-1,856	-10,749	—	-809
Net change	707	-1,444	503	-233	54	439
Total volume in 1997, based on remeasured plots only	3,522	12,370	4,617	20,511	507	2,114
Total volume in 1997, based on all sample plots	3,134	10,756	3,746	17,636	240	1,952
					893	893
					794	794
					2,986	2,986

— = none found or less than 500,000 board feet.

<sup>a</sup> Totals may be off because of rounding; data subject to sampling error.

<sup>b</sup> Negative values are losses of timberland, and positive values are gains of timberland.

<sup>c</sup> Includes softwood sawtimber trees 9.0 inches in d.b.h. and larger, and hardwood sawtimber trees 11.0 inches in d.b.h. and larger.

<sup>d</sup> The classification of owner or land class assigned to a plot in 1986 was verified in the 1997 inventory. In some cases, updates were made to the 1986 data.

**Table 30a—Estimated timber harvest volume by year and owner class, western Oregon, 1997**

Year	USFS	BLM	Private	Public	Total
<i>Thousand board feet, Scribner rule</i>					
1962	2,222,200	1,084,495	3,557,388	167,607	7,031,690
1963	2,280,600	1,344,172	3,286,876	208,981	7,120,629
1964	2,366,600	1,614,900	3,469,082	241,998	7,692,580
1965	2,599,500	1,227,995	3,451,309	251,468	7,530,272
1966	2,179,400	1,200,955	3,517,276	221,193	7,118,824
1967	2,046,900	1,064,993	3,364,464	140,259	6,616,616
1968	2,459,074	1,430,983	3,740,345	170,051	7,800,453
1969	2,233,410	1,179,693	3,465,667	214,099	7,092,869
1970	1,814,053	1,013,675	3,212,384	156,778	6,196,890
1971	2,049,449	1,304,362	3,386,347	171,094	6,911,252
1972	2,623,989	1,385,358	3,214,309	257,286	7,480,942
1973	2,598,350	1,454,916	3,050,196	313,586	7,417,048
1974	1,984,502	999,822	2,974,586	230,936	6,189,846
1975	1,509,173	609,454	3,068,680	179,855	5,367,162
1976	1,910,866	1,052,513	2,989,498	220,595	6,173,472
1977	1,788,847	981,535	3,063,233	231,824	6,065,439
1978	2,040,835	812,808	3,064,153	252,314	6,170,110
1979	2,168,621	923,242	2,773,817	247,221	6,112,901
1980	1,562,313	781,453	2,561,131	199,690	5,104,587
1981	1,185,197	662,418	2,225,969	234,277	4,307,861
1982	950,757	299,863	2,850,924	184,197	4,285,741
1983	1,699,479	750,760	2,813,621	272,591	5,536,451
1984	1,879,568	879,704	2,850,422	280,835	5,890,529
1985	2,078,332	875,121	2,938,941	297,838	6,190,232
1986	2,321,819	1,016,923	3,079,296	237,788	6,655,826
1987	2,085,180	1,069,962	2,808,655	239,977	6,203,774
1988	2,237,581	1,398,767	2,778,066	307,711	6,722,125
1989	1,938,334	988,006	3,079,577	226,284	6,232,201
1990	1,012,450	654,249	2,692,540	167,096	4,526,335
1991	999,821	431,595	2,670,437	121,466	4,223,319
1992	617,125	469,987	2,766,905	163,497	4,017,514
1993	416,174	338,713	2,856,275	139,998	3,751,160
1994	256,299	82,980	2,585,910	150,177	3,075,366
1995	197,895	124,655	2,910,499	129,962	3,363,011
1996	189,543	253,967	2,508,241	139,223	3,090,974
1997	203,961	127,305	2,630,328	209,178	3,170,772

Source: Oregon Timber Harvest Report, Oregon Department of Forestry.

**Table 30b—Estimated timber harvest volume by year and owner class, northwest Oregon, 1997**

Year	USFS	BLM	Private	Public	Total
<i>Thousand board feet, Scribner rule</i>					
1962	390,900	150,941	593,205	98,180	1,233,226
1963	412,900	123,382	660,941	138,316	1,335,539
1964	422,100	154,902	705,875	123,532	1,406,409
1965	480,100	129,863	754,899	102,707	1,467,569
1966	421,800	154,143	712,167	104,513	1,392,623
1967	375,100	143,530	637,594	74,514	1,230,738
1968	472,784	183,634	855,550	109,425	1,621,393
1969	446,991	121,992	810,336	104,378	1,483,697
1970	360,446	146,307	723,979	65,948	1,296,680
1971	318,842	154,795	848,997	83,576	1,406,210
1972	464,717	176,670	666,540	133,711	1,441,638
1973	494,720	198,424	675,907	172,267	1,541,318
1974	358,458	127,570	617,685	81,617	1,185,330
1975	283,323	53,861	644,605	83,401	1,065,190
1976	361,446	121,695	734,873	123,960	1,341,974
1977	306,621	127,970	662,834	120,577	1,218,002
1978	270,352	88,488	797,421	107,762	1,264,023
1979	394,212	94,543	733,429	139,334	1,361,518
1980	394,749	106,620	576,885	110,079	1,188,333
1981	292,298	102,440	517,775	151,906	1,064,419
1982	196,266	29,294	618,724	89,897	934,181
1983	360,466	105,212	672,437	185,646	1,323,761
1984	426,389	98,300	677,769	195,983	1,398,441
1985	422,075	111,711	742,857	160,313	1,436,956
1986	497,467	109,714	831,087	145,355	1,583,623
1987	364,695	117,999	855,502	134,218	1,472,414
1988	407,889	142,893	880,307	186,547	1,617,636
1989	270,180	123,888	1,003,233	111,663	1,508,964
1990	156,296	72,173	753,843	87,122	1,069,434
1991	210,406	69,918	879,975	73,338	1,233,637
1992	113,020	74,348	941,818	88,955	1,218,141
1993	66,929	49,007	965,834	74,513	1,156,283
1994	34,484	15,765	971,388	109,108	1,130,745
1995	30,013	14,832	1,089,748	102,902	1,237,495
1996	23,373	19,067	926,616	93,762	1,062,818
1997	44,040	16,725	901,271	146,230	1,108,266

Source: Oregon Timber Harvest Report, Oregon Department of Forestry.

**Table 30c—Estimated timber harvest volume by year and owner class, west-central Oregon, 1997**

Year	USFS	BLM	Private	Public	Total
<i>Thousand board feet, Scribner rule</i>					
1962	1,126,000	266,583	1,393,768	16,631	2,802,982
1963	1,046,400	398,909	1,292,728	19,535	2,757,572
1964	1,052,500	520,535	1,300,874	25,736	2,899,645
1965	1,229,400	319,528	1,205,070	47,428	2,801,426
1966	993,900	304,721	1,318,737	28,222	2,645,580
1967	884,200	226,602	1,344,033	10,363	2,465,198
1968	1,097,238	311,176	1,413,593	17,641	2,839,648
1969	1,063,764	356,449	1,116,404	26,406	2,563,023
1970	845,337	242,087	1,134,695	24,142	2,246,261
1971	960,677	309,960	1,159,383	16,643	2,446,663
1972	1,189,473	397,117	1,142,425	52,154	2,781,169
1973	1,200,929	395,050	1,209,016	32,632	2,837,627
1974	926,782	291,626	1,054,447	39,502	2,312,357
1975	680,076	159,346	1,182,762	35,069	2,057,253
1976	933,300	243,989	1,110,348	42,138	2,329,775
1977	865,863	247,095	1,021,685	48,487	2,183,130
1978	967,128	286,638	991,032	43,058	2,287,856
1979	1,044,832	239,701	936,352	29,798	2,250,683
1980	732,494	200,386	876,792	37,501	1,847,173
1981	510,394	194,710	772,497	30,382	1,507,983
1982	504,793	138,474	1,072,732	25,376	1,741,375
1983	759,576	193,705	1,037,228	35,168	2,025,677
1984	891,787	237,292	1,060,570	46,550	2,236,199
1985	1,003,342	243,155	1,025,507	42,910	2,314,914
1986	1,005,530	282,627	1,072,671	29,341	2,390,169
1987	1,000,567	292,213	991,357	29,532	2,313,669
1988	1,060,179	357,182	1,029,179	42,166	2,488,706
1989	843,579	243,721	1,103,195	50,670	2,241,165
1990	385,025	185,727	997,735	20,497	1,588,984
1991	431,269	129,965	897,356	21,793	1,480,383
1992	290,348	122,927	958,544	37,530	1,409,349
1993	207,833	62,036	975,049	16,861	1,261,779
1994	116,892	26,140	874,093	20,680	1,037,805
1995	74,137	29,093	939,452	9,039	1,051,721
1996	55,156	64,823	880,002	19,837	1,019,818
1997	51,019	33,188	868,264	20,124	972,595

Source: Oregon Timber Harvest Report, Oregon Department of Forestry.

**Table 30d—Estimated timber harvest volume by year and owner class, southwest Oregon, 1997**

Year	USFS	BLM	Private	Public	Total
<i>Thousand board feet, Scribner rule</i>					
1962	705,300	666,971	1,570,415	52,796	2,995,482
1963	821,300	821,881	1,333,207	51,130	3,027,518
1964	892,000	939,463	1,462,333	92,730	3,386,526
1965	890,000	778,604	1,491,340	101,333	3,261,277
1966	763,700	742,091	1,486,372	88,458	3,080,621
1967	787,600	694,861	1,382,837	55,382	2,920,680
1968	889,052	936,173	1,471,202	42,985	3,339,412
1969	722,655	701,252	1,538,927	83,315	3,046,149
1970	608,270	625,281	1,353,710	66,688	2,653,949
1971	769,930	839,607	1,377,967	70,875	3,058,379
1972	969,799	811,571	1,405,344	71,421	3,258,135
1973	902,701	861,442	1,165,273	108,687	3,038,103
1974	699,262	580,626	1,302,454	109,817	2,692,159
1975	545,774	396,247	1,241,313	61,385	2,244,719
1976	616,120	686,829	1,144,277	54,497	2,501,723
1977	616,363	606,470	1,378,714	62,760	2,664,307
1978	803,355	437,682	1,275,700	101,494	2,618,231
1979	729,577	588,998	1,104,036	78,089	2,500,700
1980	435,070	474,447	1,107,454	52,110	2,069,081
1981	382,505	365,268	935,697	51,989	1,735,459
1982	249,698	132,095	1,159,468	68,924	1,610,185
1983	579,437	451,843	1,103,956	51,777	2,187,013
1984	561,392	544,112	1,112,083	38,302	2,255,889
1985	652,915	520,255	1,170,577	94,615	2,438,362
1986	818,822	624,582	1,175,538	63,092	2,682,034
1987	719,918	659,750	961,796	76,227	2,417,691
1988	769,513	898,692	868,580	78,998	2,615,783
1989	824,575	620,397	973,149	63,951	2,482,072
1990	471,129	396,349	940,962	59,477	1,867,917
1991	358,146	231,712	893,106	26,335	1,509,299
1992	213,757	272,712	866,543	37,012	1,390,024
1993	141,412	227,670	915,392	48,624	1,333,098
1994	104,923	41,075	740,429	20,389	906,816
1995	93,745	80,730	881,299	18,021	1,073,795
1996	111,014	170,077	701,623	25,624	1,008,338
1997	108,902	77,392	860,793	42,824	1,089,911

Source: Oregon Timber Harvest Report, Oregon Department of Forestry.

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