Open access • Report • DOI:10.2737/NC-GTR-241

Forest Resources of the United States, 2002 — Source link

W. Brad Smith, Patrick D. Miles, John S. Vissage, Scott A. Pugh

Published on: 01 Jan 2004

Topics: Forest inventory and Resource (biology)

Forest Resources of the United States, 1997

W. Brad Smith, John S. Vissage, David R. Darr, and Raymond M. Sheffield

U.S. Department of Agriculture Forest Service

The Authors:

W. Brad Smith is a Research Forester with the Science, Policy, Information, and Inventory Staff, Washington Office, U.S. Department of Agriculture, Forest Service, Washington, DC.

John L. Vissage is a Research Forester with the Forest Inventory and Analysis Unit, North Central Research Station, U.S. Department of Agriculture, Forest Service, St. Paul, MN.

David R. Darr is a Research Forester with the Resource Valuation and Use Staff. Washington Office, U.S. Department of Agriculture, Forest Service, Washington, DC.

Raymond Sheffield is a Research Forester with the Resource Analysis Unit, Southern Research Station, U.S. Department of Agriculture, Forest Service, Asheville, NC.

Published by:
North Central Research Station
Forest Service—U.S. Department of Agriculture
1992 Folwell Avenue
St. Paul, MN 55108
2001

Web site: www.ncrs.fed.us

Forest Resources of the United States, 1997

W. Brad Smith, John S. Vissage, David R. Darr, and Raymond M. Sheffield

ACKNOWLEDGMENTS

Development of this report has been very much a team effort and we recognize here a long list of people who made significant contributions.

We greatly appreciate the help of the staffs of the Forest Inventory and Analysis Research Work Units at the Forest Service Research Stations and the Forest Management staffs in the regional offices of the National Forest System who compiled the basic resource data for entry into the 1997 RPA National Inventory Database. The following people made significant contributions and were responsible for coordinating and submiting resource data: Carol Alerich, Gary Boyack, Gary Carroll, Dave Ellen, Jorge Negron, Bruce Hiserote, Tom Frieswyk, Joe Glover, Jeff Hogg, Charles Keegan, George Lightner, Dennis May, Mel Mehl, Doug Meyers, Pat Miles, Roy Mita, Bert Mead, Karl Stoneking, John Tepley, Ralph Warbington, Eric Wharton, Sue Willits, Ann Withers, and Sharon Woudenberg.

The work of several Forest Inventory and Analysis employees was also significant in the development of the 1997 RPA National Timber Output Database: Dennis May, Brian Johnston, Tony Johnson, George Keith, Art Walmsley, Andy Hartsell, Ted Ridley, Dawn Reynolds, and Anne Jenkins.

We acknowledge and appreciate the efforts of the following people in reviewing the resource data and associated text: Al Abee, Jim Allegria, Larry Biles, Richard Birdsey, Fred Cubbage, Mark Delfs, Mike Higgs, Peter Ince, Ralph Johnson, Doug MacCleery, Will McWilliams, Robin O'Malley, Bert Mead, Doug Powell, Kurt Riitters, Jim Rossen, Con Schallau, Tom Schmidt, John Sebelius, Lisa Stocker, Bill van Hees, and Sharon Woudenberg.

For the update of the RPA forest type group map, Zhuliang Zhu of the U.S. Geological Survey made significant contributions to project design, satellite data processing, and GIS support. Special thanks also go to John Hutchinson, Jack Whittman, and Loraine Utz of the U.S. Geological Survey, who were responsible for the cartographic layout, editing, and production of the final map. Several people in the Forest Service also assisted with reference data or provided technical comments: Rachel Riemann, Chuck Bolsinger, Karen Waddell, Pat Miles, Beth Collins, Tom Bobbe, and Raymond Czaplewski.

CONTENTS

Highlights

Forest Land Area

- Forest land area increased by 1 percent between 1987 and 1997. Since 1920, forest land area has been relatively stable, increasing and decreasing over the years within a relatively narrow range.

- About 33 percent of the U.S. land area, or 747 million acres, is forest land. This amounts to about 71 percent of the area that was forested in 1630 (1.05 billion acres).

- More than three-quarters of the conversion of forests to other uses occurred in the 19th century. By 1920, the net clearing of forests for agriculture had largely subsided.

- Thirty-three percent of all forest land is federally owned. This proportion of Federal to other forest land has remained relatively stable for at least the last 50 years.

- About 52 million acres of forest land (about 7 percent of all U.S. forest land) is reserved from commercial timber harvest in wilderness, parks, and other legally reserved classifications. Tens of millions of acres of additional publicly owned forest land is administratively withdrawn from timber harvest under existing management plans.

Timberland Area

- About 504 million acres of forest land (67 percent of all forest land) is classed as timberland—forest land capable of producing in excess of 20 cubic feet per acre per year and not legally withdrawn from timber utilization; 94 percent of forests in the East are classed as timberland, 80 percent of the Pacific Northwest subregion, about 50 percent of the Rocky Mountain region, and 10 percent of Alaska.

- About 54 million acres (11 percent of timberland in the United States) are of planted origin. Two-thirds (36 million acres) of all planted timberland is in the South.

Interior Highlands mixed hardwoods stand, Arkansas. Photo: Melissa Carlson.

Timber Inventories

- Growing-stock volume on U.S. timberland increased by 6.9 percent between 1987 and 1997. Since 1953, net volume per acre has increased by 37 percent. Average volume per acre rose by 100 percent between 1953 and 1997 in the North, 76 percent in the South, 27 percent in the Rocky Mountain region, and 2 percent in the Pacific Coast region.

- About 58 percent of the volume of growing stock is softwoods, and the remaining 42 percent is in hardwoods. However, 90 percent of the hardwood growing stock is in the Eastern United States. About 68 percent of the softwood growing stock is in the Western United States, 22 percent is in the South, and 10 percent is in the North.

- The net growing-stock volume of U.S. hardwoods increased by 12 percent between 1987 and 1997, and by 91 percent between 1953 and 1997.

- The volume of hardwood growing-stock volume in diameter classes 19 inches and greater increased from 25.8 billion cubic feet in 1953 to 57.3 billion cubic feet in 1997.

- The net volume of U.S. softwood growing-stock inventory increased by 12 percent between 1953 and 1997.

- For the first time since 1953, when a national, statistically based inventory first became available, declines were observed for softwood growing-stock

inventory on nonindustrial private lands and hardwood inventory on forest industry lands in the South. This may be in part due to declines in industry land in the South.

- For the South as a whole, the volume of standing softwood growing-stock inventory declined by 0.7 percent between 1987 and 1997—the first such decline since at least 1953.

Mortality

- Annual growing-stock mortality amounted to 0.6 percent of growing-stock inventory in 1986 and 0.8 percent in 1996 compared with 0.6 percent in 1952.

- Annual growing-stock mortality as a percent of growing-stock inventory increased between 1986 and 1996 for each ownership class and region.

- For both softwoods and hardwoods, and for each owner group, the mortality rate ranged between 0.64 and 0.89 percent in 1996.

Growth and Removals

- Net annual growing-stock growth exceeded removals by 54 percent in 1976, 41 percent in 1986, and 47 percent in 1996.

- In 1996, net annual growth exceeded removals in all regions of the country: by 95 percent in the North, 5 percent in the South, 357 percent in the Rocky Mountains, and 97 percent in the Pacific Coast region. For the United States, hardwood growth exceeded removals by 70 percent, and for softwoods, by 33 percent.

- In the South, softwood removals exceeded net annual growing-stock growth by 10 percent in 1996.

Removals

- In 1996, growing-stock removals were 16 billion cubic feet, 0.4 percent higher than in 1986 and 35 percent higher than in 1953. Removals in 1996 amounted to 1.9 percent of total growing-stock inventory.

Timber harvest operation. Photo: USDA-Forest Service.

- In 1996, about 63 percent of the volume of timber removals was softwoods and 37 percent was hardwoods, compared with 69 and 31 percent, respectively, in 1986. This reflects a trend toward rising hardwood removals in response to new product technologies using hardwoods as well as increases in traditional markets for hardwoods.

- The South accounted for 64 percent of growing-stock removals in 1996, up from 51 percent in 1986 and 47 percent in 1977.

- The predominant use of wood continues to be for lumber. Saw logs accounted for 43 percent of wood volume harvested in 1996, veneer logs—8 percent, and pulpwood—31 percent. The remaining 18 percent was used for fuelwood and other products.

- On a tonnage basis, wood products constitute about 45 percent of U.S. consumption of all materials, including plastics, concrete, steel, copper, aluminum, and other metals.

Ownership and Removals

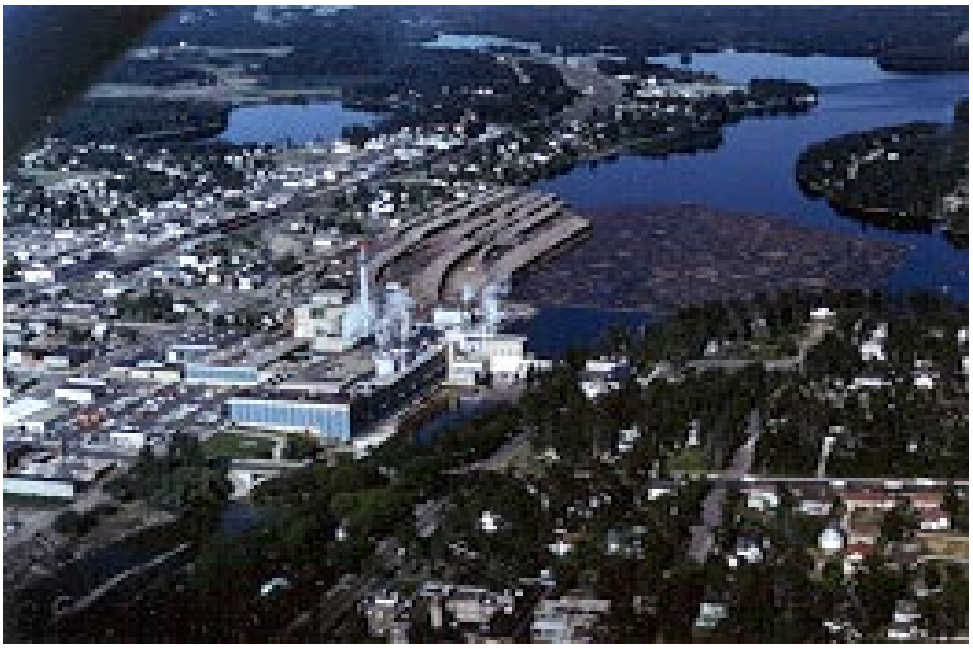
- Seventy-one percent of timberland is privately owned and these lands accounted for 89 percent of growing-stock removals in 1996. This is a substantial increase from 1987 when private lands provided 80 percent of growing-stock removals.

- Nonindustrial private ownerships made up 58 percent (291 million acres) of U.S. timberland and accounted for 59 percent of the volume of growing-stock removals in 1996. About 72 percent of the hardwood resource is on nonindustrial private ownerships, which account for 73 percent of the volume of hardwood removals. Timber removals on nonindustrial private forest lands increased by about 17 percent between 1986 and 1996, partly in response to reduced harvest on public lands.

- Industrial forests accounted for 13 percent of U.S. timberland (67 million acres) and 30 percent of the volume harvested in 1996. Although forest industry ownerships contain only 14 percent of the volume of softwood timber, in 1996 they accounted for 36 percent of the volume of softwood removals from growing-stock. Timber removals on industrial forests declined by 6 percent between 1986 and 1996, after steady increases in each decade since 1952.

- Public forests made up 29 percent of the U.S. timberland base and accounted for 11 percent of U.S. removals volume in 1996. Three-quarters of all public timberland area is federally owned.

- Federal forests make up 22 percent (109 million acres) of U.S. timberland. National forests are the largest Federal ownership, making up 19 percent of U.S. timberland and accounting for 5 percent of timber removals in 1996. Timber removals on national forests declined by 62 percent between 1986 and 1996, after rising by 63 percent between 1952 and 1963 and then remaining relatively stable until 1986.



Blandin Paper Company, Grand Rapids, Minnesota. Photo: USDA-Forest Service.

Introduction

As required by the Forest and Rangeland Renewable Resources Planning Act of 1974 (RPA), P.L. 93-378, 88 Stat. 4765, as amended, this report provides an update of information on the Nation's forest resources.[1] Data are presented in various ways for forest area, volume, mortality, growth, removals, and timber products output.

This report updates forest resource statistics published by Waddell *et al*. (1989) and analyzed by Oswald (1990). An interim update was also provided for 1992 (Powell *et al*. 1994). Regions and subregions used in updating forest statistics and in analyzing the resource are shown in figure 1. A forest type map[2] produced from satellite imagery is provided in the pocket at the back of this publication to display the spatial extent and location of forest land in the United States.

[1] For information on procedures used, see appendix A.

[2] This map updates the one prepared for the 1992 interim update of forest resources for the United States (Powell *et al*. 1994). Further information about the mapping process can be found in Zhu and Evans (1992).

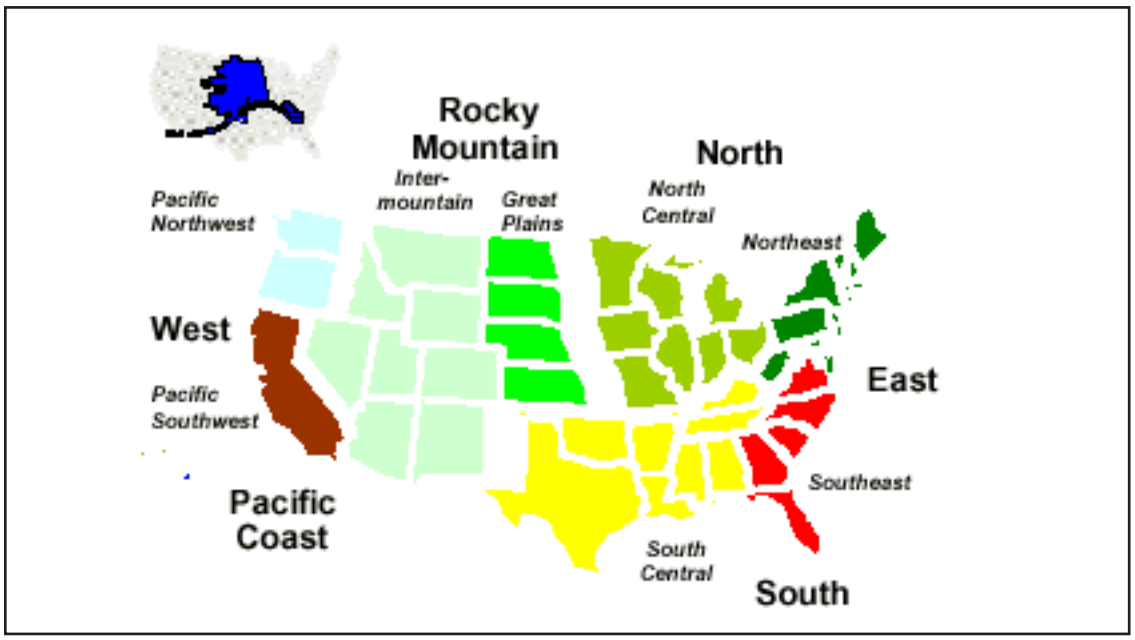


Figure 1 — Forest resource reporting regions and subregions of the United States.

Changes in the Forest Resource Since 1900

Peoples' attitudes towards U.S. forests have changed over the years and have been influenced by human demands; scientific knowledge; and the changing nature and extent of the forest resource and its capacity to respond to evolving uses, services, and outputs. This synopsis of the evolution of U.S. forest policies and the U.S. forest resource since 1900 is intended to provide perspective on how the current forest came to be the way it is. The synopsis draws heavily on material in MacCleery (1992).

Long before European settlement in this country, Native Americans used and managed the forest to serve their own needs. European Americans, when they arrived, viewed forests as an encumbrance to agriculture or as a virtually inexhaustible resource to be mined. They first used the forest—its wildlife, wood products, and land—to meet their subsistence needs for food and energy, much as Native Americans had done. However, the abundant wealth of the forests was later harvested to build the homes, cities, and industrial infrastructure of a growing nation. In addition, the lands previously occupied by forests were used to feed a rapidly growing population.

Scarcely more than a century ago, peoples' attitudes toward the forest began a shift to viewing forests and wildlife, not as products to be mined or hunted, but as resources that could be managed over the long term on a scientific basis for both products and environmental services. This view was reinforced by people of the time including Bernhard Fernow, a German forester, and Theodore Roosevelt, who as President in 1901, was in a position to have a profound effect on the conservation history of the Nation. Other people built upon the actions of these leaders, and by the 1930s, a forest policy framework had emerged that emphasized protection of forests from wildfire and their management under scientific principles. Specific actions focused on:

- Suppressing and preventing fires and educating the public to protect the forest;
- Establishing and enhancing the profession of forestry, and later of other natural resource disciplines, through establishment of accredited natural resource schools, professional societies, etc.;
- Improving the art and science of forest culture and management, through research at Federal and State experiment stations and universities, and establishment of tree nurseries;
- Improving the efficiency with which wood products are utilized in the woods, at the mill, and in end-product applications;
- Improving the quality of forest management on private lands by improving economic incentives and removing tax and other disincentives, and providing technical and financial assistance to forest landowners;
- Establishing and expanding the national forests for watershed protection, irrigation, and sustained timber production; a key element of the public policy framework was strong cooperation among Federal, State, and private sector interests to achieve common goals (Steen 1976).

Several technological and non-policy changes after 1900 substantially affected the demand for wood and the clearing of land for agriculture. These included:

- Substitution of fossil fuels for wood fuels,
- Substitution of metal and concrete for wood in structural applications,
- Substitution of chemicals derived from fossil fuels for those derived from animals and vegetation, and
- Replacement of draft animals by internal combustion engines.

These changes reduced the demand for wood, as well as increased agricultural productivity per acre, which reduced the need to clear forests for agriculture.

It is a measure of both the inherent resilience of U.S. forests, and of the policies that were put in place in response to public concerns in the early decades of this century, that forest conditions over much of the United States have improved since 1900. The following are highlights in the evolution of the U.S. forest resource since then:

- By the 1920s, the area of U.S. forests had stopped declining for the first time in over 400 years. This was due largely to a stabilization in cropland acreage resulting from two major factors: 1) replacement of draft animals by internal combustion engines (in 1900, feeding draft animals was taking about one-third of the U.S. farmland base); and 2) increasing farm productivity after 1930 due to the development of hybrid crops, fertilization, and other practices resulting from agricultural research (Frederick and Sedjo 1991).

- Forest fire protection improved and eventually reduced destructive wildfire by over 90 percent — from 20 to 50 million acres per year to 2 to 5 million acres (Frederick and Sedjo 1991). This allowed millions of acres of forest to regenerate naturally and set the stage for improving forest conditions as well as for increasing investments and tree planting on both private and public lands (Williams 1989).

- The 50 to 80 million acres of "cutovers" or "stumplands" that existed in 1900, due largely to repeated wildfires after harvest, have long since been reforested (Williams 1989). Today, many of these areas contain commercially mature forests. Others have been harvested a second time and regenerated to young forests. Some areas have had three or more harvests.

- In 1900, the growth of U.S. forests was a fraction of harvest. Today, net annual forest growth exceeds harvest by 47 percent. Because of this favorable growth/harvest situation, which has existed since about the 1940s (Frederick and Sedjo 1991), biomass in U.S. forests today is 37 percent greater on a per acre basis than it was in 1953. In the Eastern United States, biomass per acre has almost doubled since 1953. Today, annual forest growth is estimated to be more than 3 1/2 times what it was in 1920 (Fedkiw 1989).

- Improving wood utilization technology, combined with increasing real prices for wood, has substantially improved efficiency with which wood is used. Much less material is being left in the woods, and many sawmills produce twice as much usable lumber and other products per log input as they did in 1900. Engineering standards and designs have reduced the volume of wood used per square foot of building space, and preservative treatments have substantially extended the service life of wood. All of these have reduced, by millions of acres, the area of annual harvest that otherwise would have occurred (U.S. Department of Agriculture, Forest Service 1982).

- Tree planting on all forest ownerships has increased dramatically since World War II and was at record levels throughout the 1980s. Many private forest lands are now actively managed for tree growing (Frederick and Sedjo 1991).

Forest Land Area

As shown in the forest type map (in the pocket at the back of this publication), forest land in the United States is widely, yet unevenly, distributed. These areas vary tremendously, from sparse scrub forests of the arid interior West to the highly productive forests of the Pacific Coast and the South, and from pure hardwood forests to multispecies mixtures, and coniferous forest. Land east of the Great Plains that is not in agriculture or other developed uses is usually in various phases of forest cover. The high elevation areas of the West that receive ample precipitation and the humid portions of the Pacific Coast are also forested. North Dakota currently has the lowest percentage of forest cover (1 percent), and Maine has the highest (90 percent) (figure 2).

About two-thirds (504 million acres) of the Nation's forests are classed as timberland—forests capable of producing 20 cubic feet per acre of industrial wood annually and not legally reserved from timber harvest (table 1 and figure 3). An additional 52 million acres of forest, reserved for nontimber uses, is managed by public agencies as parks or wilderness areas. There are also 191 million acres of other forest lands not capable of producing 20 cubic feet per acre of industrial wood annually, but of major importance for watershed protection, wildlife habitat, domestic livestock grazing, recreation, biodiversity maintenance, and other uses. Almost all of the other forests are in the South and West, over half in Alaska. Fuelwood is a primary wood use in many of these slow growing or sparsely forested areas such as the oak woodlands of California and the pinyon and juniper forests of the Southwest.

Most of the Nation's forest land is in nonfederal ownership. In 1997, 500 million acres, 67 percent of the total, were owned by nonfederal public agencies, forest industry, and other private individuals (table 2). About 78 percent of U.S. public forest land is in Federal ownership. The Forest Service administers the largest segment of Federal forest land—147 million acres or 59 percent of the total Federal forest land. Other Federal agencies administering forest land include the Bureau of Land Management, the National Park Service, the Fish and Wildlife Service, and the Department of Defense. In total, 33 percent of all forest land is federally owned. This proportion of Federal to other forest ownerships has remained relatively stable for at least the last 50 years.

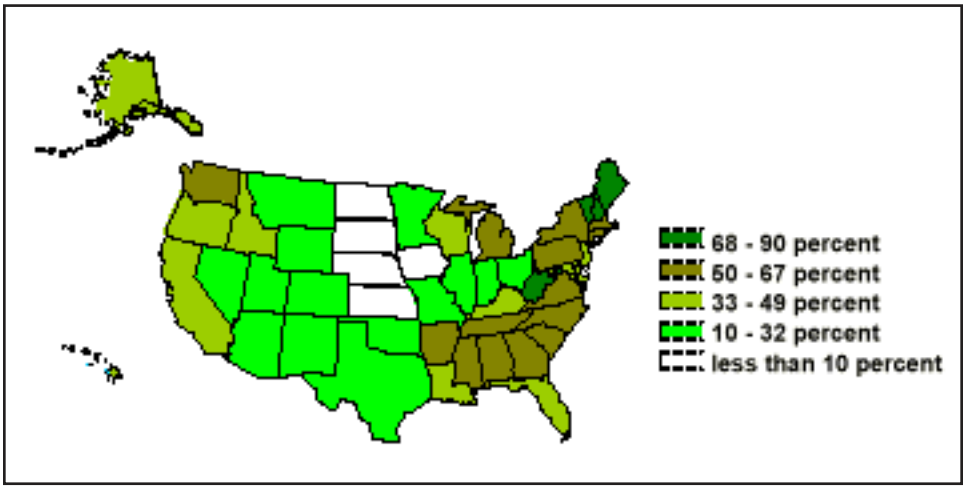


Figure 2 — Percent of land area in forest by State.

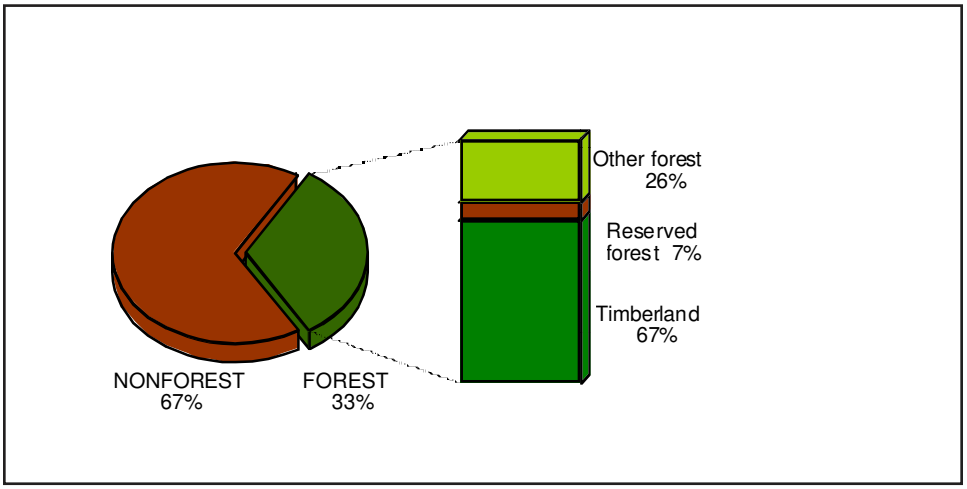


Figure 3 — Land and forest area distribution in the United States.

In the East, private ownership of forest land predominates in both the North and South. In the Rocky Mountain region, 73 percent is publicly owned; in the Pacific Coast region, 66 percent is in public ownership (figure 4).

Historical Trends

When the first European immigrants arrived around 1630, the total area of forest land was an estimated 1,045 million acres (Kellogg 1909, Clawson 1979). This represented about 46 percent of the total land area. The area of forest land declined steadily as settlement proceeded. Most of the post-settlement loss of forest land was in the Eastern U.S., comprised of the North and South regions (figure 5). In the North, forests occupied an estimated 72 percent of the land in 1630 (Kellogg 1909) (table 3). By 1907, forests covered only 34 percent of the land in the region, a proportion that rebounded to 41 percent by 1997. Likewise, significant reductions in forest area occurred in the South before the 20th century, with the forested proportion dropping from 66 percent in 1630 to 44 percent by 1907. Forested area fluctuated during the last century in the South as land cycled between agricultural, forest, and other uses. By 1997, forests covered 40 percent of the land in the South. In contrast to the Eastern U.S., forest land in the Western U.S. has been more stable. The forested portion of the Rocky Mountain region dropped from an estimated 21 percent of the landscape in 1630 to 19 percent in 1997. Similar trends are evident for the Pacific Coast, where the portion of land in forest dropped from 42 percent in 1630 to 38 percent in 1997.

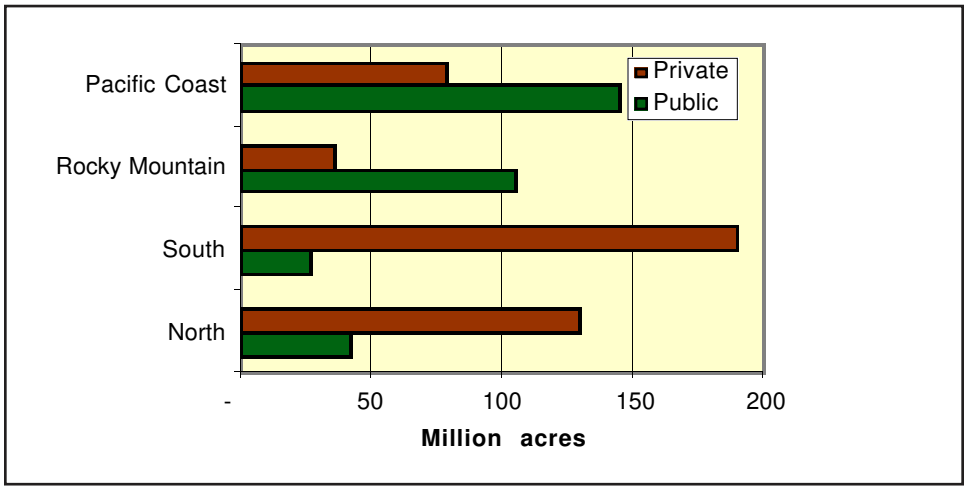


Figure 4 — Distribution of forest land by major region and ownership group.

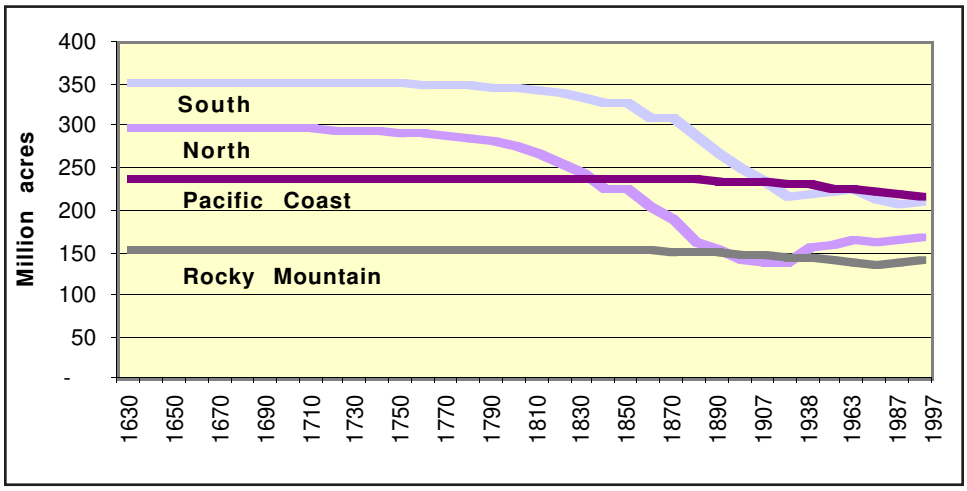


Figure 5 — Forest area of the United States by major region, 1630-1997.

Current Status and Recent Changes

Today's forest land area amounts to about 71 percent of the area that was forested in 1630. About 300 million acres of forest land have been converted to other uses since 1630—mainly to agricultural uses. More than 75 percent of the net conversion to other uses occurred in the 19th century. Between 1850 and 1910, American farmers cleared more forest than the total amount cleared in the previous 250 years of settlement—about 190 million acres (Fedkiw 1989).

Even though the total area of forest land has been relatively stable since the early 1900s,

stability does not mean that there has been no change in the forest. Shifts continue from agriculture to forests and vice versa, although not at historic rates. Some forest lands have been converted to more intensive uses, such as urban. In areas where forest land area has remained stable, forests have changed in composition, structure, and health as they respond to human manipulation as well as the natural processes of regeneration, succession, and mortality.

Forest land across the Nation has increased by 1 percent since 1987, a trend in contrast to reductions that occurred between 1963 and 1987. Forest area increased in most regions and subregions of the country in the past decade (figure 5). In the North, forest area increased by nearly 3 percent in spite of the demands of an increasing population for living space and associated amenities. Most of the net increase in forest occurred in the North Central subregion where the major source of new forest land was former pasture and other agricultural lands that have reverted to forest. In the South, forest land has increased by 1 percent since 1987, as agricultural land naturally restocked with trees or was planted under various Federal- and State-sponsored incentive programs that encourage tree planting. As in the North, these additional forest acres have exceeded the area of forest diverted to other uses. Most of the net increase in forest acreage in the South since 1987 occurred in the South Central subregion. Increases in forest area since 1987 were also noted in the Rocky Mountain region where forest acreage rose by nearly 3 percent.

Forested acreage in the Pacific Coast region (which includes Alaska) declined by 1 percent between 1987 and 1997. An increase in forested area in the Pacific Northwest was offset by small declines in the Pacific Southwest and Alaska subregions.

Spotted owl in southern California. Photo: PSW Fresno.

Reserved and Protected Forest Land Area

There is worldwide interest in protecting sufficient representative ecosystems to maintain a pool of biodiversity for future generations. There are various ways of classifying the degree of protection given to an area. The classification scheme used by the International Union for the Conservation of Nature (IUCN) includes the following categories: I. Strict nature reserve/wilderness area, II. National Park, III. National monument, IV. Habitat/species management area, V. Protected landscape/seascape, and VI. Managed resource protection area.[3]

The IUCN classification scheme is based on the concept of protection by legal statute and thus does not apply well to private lands and some public lands in the United States. Individual landowners or organizations may have no intention to harvest timber, but subsequent owners may choose to harvest timber or otherwise develop the land. In 1997, some 52 million acres of forest land were classed as reserved and include Federal and State wilderness areas and State and national parks (table 4 and figure 6). This estimate does not include tens of millions of acres of public lands that

[3] Category I is defined as an area of land and/or sea possessing some outstanding or representative ecosystems, geological or physiological features and/or species, available primarily for scientific research and or environmental monitoring or a large area of unmodified or slightly modified land, and/or sea, retaining its natural character and influence, without permanent or significant habitation, which is protected and managed so as to preserve its natural condition. Category II land is a natural area of land and/or sea, designated to (a) protect the ecological integrity of one or more ecosystems for present and future generations; (b) exclude exploitation or occupation inimical to the purposes of designation of the area; and (c) provide a foundation for spiritual, educational, recreational, and visitor opportunities, all of which must be environmentally and culturally comparable. Category III land is an area containing one, or more, specific natural or natural/cultural features of outstanding or unique value because of their inherent rarity, representative or aesthetic qualities, or cultural significance. Category IV is an area of land and/or sea subject to active intervention for management purposes to ensure the maintenance of habitats and/or to meet the requirements of specific species. Category V is an area of land with coast and sea as appropriate, where the interaction of people and nature over time has produced an area of distinct character with significant aesthetic, ecological, and/or cultural value, and often with high biological diversity. Safeguarding the integrity of this traditional interaction is vital to the protection, maintenance, and evolution of such an area. Category VI is an area containing predominantly unmodified natural systems, managed to ensure long-term protection and maintenance of biological diversity, while providing, a sustainable flow of natural products and services to meet community needs.

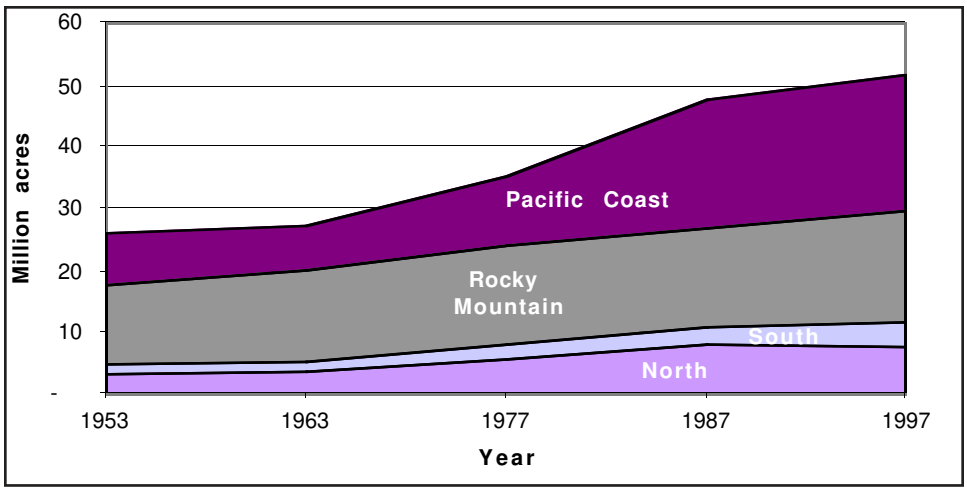


Figure 6 — Trends in reserved forest land by major region, 1953-1997.

are managed for biodiversity and other nontimber uses under existing land management plans. Nor does it include large acreages of private lands that are held by nongovernmental organizations such as The Nature Conservancy, other private conservation trusts, or lands protected by conservation easements under various State and local authorities. The legally reserved forest land area in 1997 amounted to 7 percent of the total forest land area and was over double the area classed as reserved in 1953. The remaining public forest land (264 million acres) is classed in categories III-VI. It is in national monuments or other custodially managed areas, or it is in areas managed for the sustainable use of natural ecosystems. There are currently tens of millions of acres on Federal lands classed in Category VI that may never be available for commercial harvest on roadless public lands or other administrative designations that may preclude harvesting. They are protected by administrative action rather than legal statute.

Unreserved Forest Land Area

Forest inventories have traditionally focused on forests potentially available for harvesting because of their commercial value and legislative mandate to provide information on current and perspective timber supplies to meet the Nation's needs. As demand for more ecologically based inventories increased, resource inventory objectives changed. As new inventories are initiated, all forest land will be monitored and a complete inventory will be available within 10 years. The following discussion of productivity and forest type groups is limited to the 695 million acres of unreserved forest land, which includes timberland and other forest land.

Productivity of forest land is defined here as the amount of wood per acre that can potentially be produced in fully stocked natural stands. The natural growth potential has been used because such measures are available for most regions of the United States, and they provide a uniform means of describing productivity of forest land for timber production in the country. Chief among the factors that influence productivity are soil, climate, and topography.

In the West, the largest areas in the high productivity class are in the coastal Douglas-fir and hemlock-Sitka spruce types. In the East, the highly productive sites are found in the loblolly-shortleaf pine and oak-gum-cypress ecosystems of the lower Mississippi drainage and the Atlantic coastal plain.

Most of the Nation's high productivity forest lands (lands capable of producing more than 120 cubic feet per acre per year) are located west of the Cascade Mountains in the Pacific Northwest subregion of the Pacific Coast region and in the South Central subregion of the South region (figures 7 and 8). These two subregions have 21 and 32 million acres, respectively, of high productivity lands (table 4).

Olympic National forest old growth forest, Washington State. Photo: Tom Iraci.

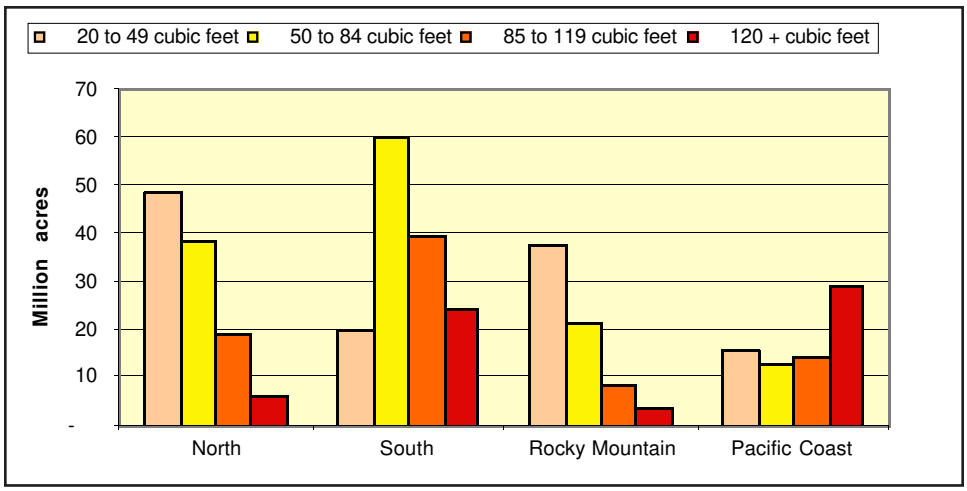


Figure 7 — Distribution of timberland by region and productivity class.

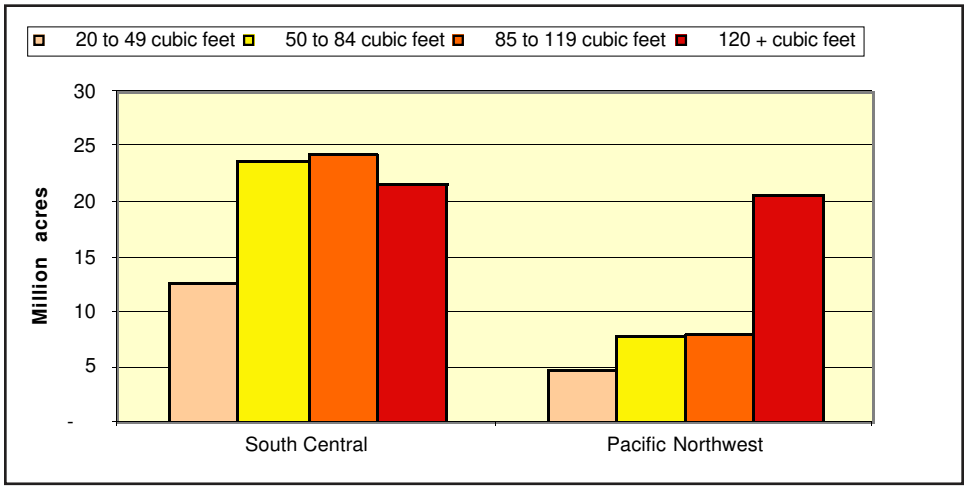


Figure 8 — Distribution of timberland in the Pacific Northwest and South Central subregions by productivity class.

In the West, 72 percent of the redwood forest type is highly productive (table 5). However, the largest areas in the 120+ cubic feet class are in the eastern oak-hickory and loblolly-shortleaf pine type groups and in the western coastal Douglas-fir types (tables 5 and 6).

Most of the other forest, less productive for timber production, is located in the West—in high elevation, or northern latitude (i.e., Alaska) fir-spruce stands, or in the dry, open-grown pinyon-juniper lands of the interior West. These forest lands, often called woodlands, are of major importance for watershed protection, wildlife habitat, domestic stock grazing, and other uses. Although these forest lands produce little industrial roundwood, they do produce other wood and tree products that are often important for local use. Fuelwood is a primary commercial use in many areas having woodlands, such as the oak woodlands of California and the pinyon-juniper areas of the Southwest. While Alaska has the greatest area of low productivity lands in terms of timber, the Intermountain subregion also has large areas that are relatively unproductive for timber. Forty-three percent of the unreserved forest land in the Intermountain region has the potential to produce no more than 20 cubic feet per acre per year, and 73 percent of it can produce no more than 50 cubic feet.

A Bristlecone pine (*Pinus longaeva*) (affectionaely named "Methuselah") represents the worlds oldest living tree (4,767 years old), or as sometimes stated "the earths oldest living inhabitant." Photo: Connie Millar.

Forest Types and Eco-climatic Zones

Forests in the United States have developed in response to multiple influences including climate, physiography, geology, soils, water, and human intervention. Subcontinental divisions of broad climatic similarity that are affected by latitude and global atmospheric conditions are called Domains. Four Domains or major eco-climatic zones found in the United States (Bailey 1995) are Polar, Temperate, Subtropical, and Tropical. Further subdivisions of these zones may be made based upon the influence of precipitation: humid, semi-arid, and arid. Other physiographic characteristics that may further define these subzones and their vegetation include whether an area is continental versus oceanic or montane versus lowland.

The following discussion frames the 1997 resource data in the context of Bailey's work and describes the forest cover types (Eyre 1980) of the conterminous United States both by geographic region and major climate/precipitation zones. Alaska and Hawaii are discussed separately.

Eastern Forests

North

The northern region is predominantly in a temperate humid climatic zone. The climate of the temperate humid zone is significantly influenced by both tropical and polar air masses. The midlatitudes contain a belt subject to cyclonic winds; much of the precipitation in this belt comes from the lifting of moist air along fronts within those cyclones. Strong climatic seasons are characteristic of this zone—seasons in which temperatures as well as precipitation show strong annual cycles. Forests of this zone are comprised of both broadleaf deciduous and needleleaf evergreen trees. Softwood and mixed softwood and hardwood forests extend along the entire length of the northern parts of this zone where summers are cool and winters cold. In the middle and southern reaches of this zone, forests are dominated by tall hardwood species that provide a continuous dense canopy in summer but shed their leaves completely in the winter. Here winters are cool and summers hot.

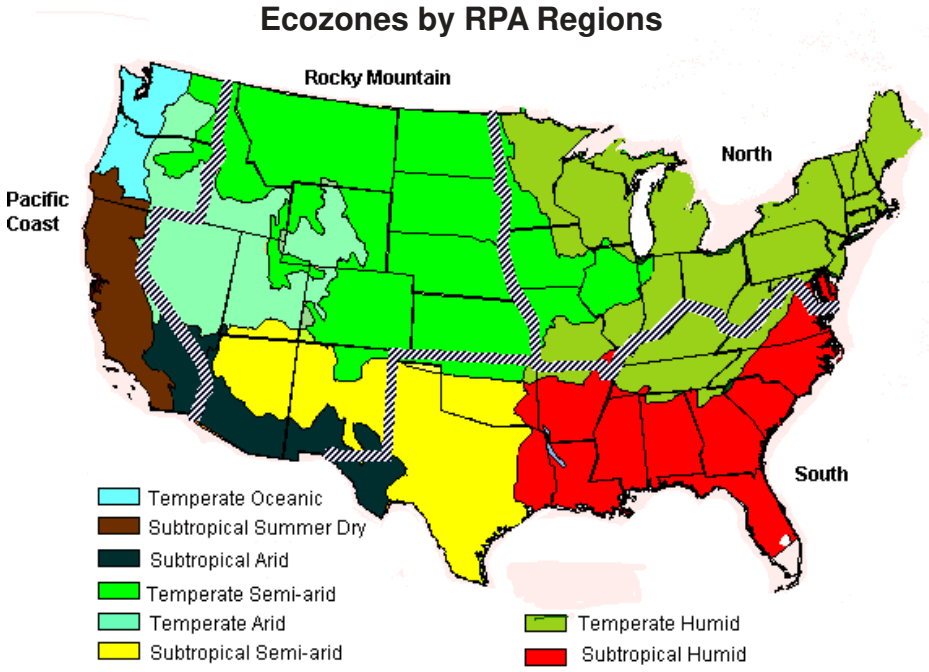
Black bear in the northern temperate forest. Photo: USDA-Forest Service.

The northernmost forests of the temperate humid zone (figure 9) are heavily forested with second- and third-growth forests. The area is dominated by northern oak-hickory and maple-beech-birch forests on the uplands and by elm-ash-cottonwood forests in the bottomlands. The southernmost reaches of these forests run down the crest of the Appalachian Mountains. Red maple is a common early to mid-successional transition species to the north giving way to yellow-poplar in the southern portion of this zone.

Introduced pathogens have forever changed the diversity of northern forests. For example, chestnut blight nearly eliminated American chestnut and Dutch elm disease severely diminished American elm populations. Before the accidental introduction of Dutch elm disease, American elm was the most planted urban street tree in the U.S. More recent introductions, such as beech bark disease, are also substantially influencing the composition of North American forests.

Common mammals in the northern temperate forest include white-tailed deer, black bear, porcupine, raccoon, and squirrel. Although agriculture was attempted throughout this region, many of the lands were not well suited and reverted to forest after abandonment. Large portions of the current national forests in this region were carved from lands that were unsuitable for agriculture.

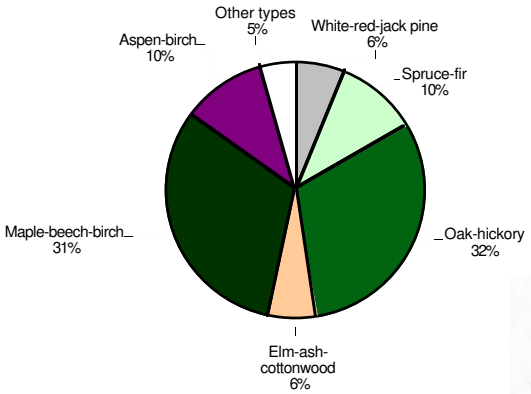
Northern softwood forest bordered by a lake in Wisconsin. Photo: USDA-Forest Service.



Spruce-fir forests are found along the northeastern border of the United States from Minnesota to Maine and account for 56 percent of the northern softwood forests. The spruce-fir forests of the Northeast are an important source of pulpwood in that subregion. Recent budworm outbreaks and natural successional change of remote spruce-fir forests have caused spruce-fir acreage to decline in the North by 7.5 percent since 1987 and by 24 percent since 1953.

White-red-jack pine forests total 12 million acres and are scattered throughout the northern reaches of the northern forest associated with the cooler summers. The current acreage is only a shadow of the vast pineries that existed until the late 19th century. The replacement forests in areas not converted to permanent farmlands are mostly hardwood species. The species composition of the white-red-jack pine forest type varies; white pine predominates in the Northeast, while red and jack pines are the common pines of the North Central subregion. Most of the planted softwood stands in the North are red and white pines.

Aspen-birch is a pioneer ecosystem generally owing its origins to major disturbances. Historically this disturbance was fire or agriculture, but in recent decades clearcut harvesting has been the dominant method of disturbance



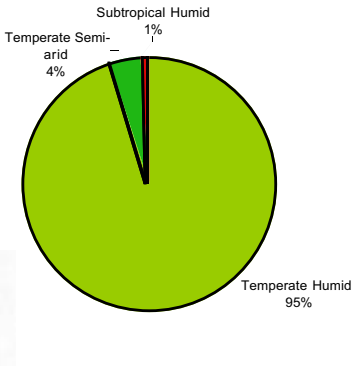
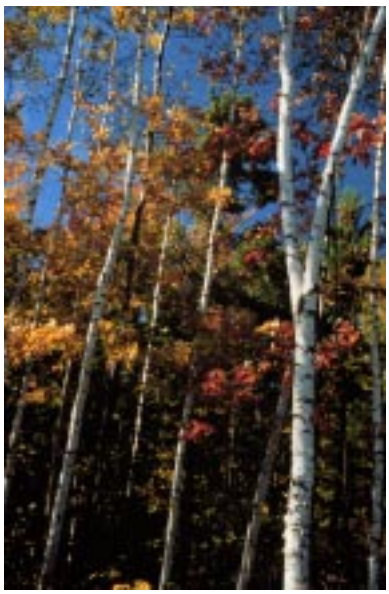


Figure 9 — Ecozones and forest cover distributions of the North.



Maple-Beech-birch forest in Green Mountain National Forest, Vermont. Photo: Jill Bauermeister

promoting regeneration. Most of the 18 million acres of aspen-birch forests are in the North Central subregion (77 percent). These forests support a variety of northern wildlife species such as white-tailed deer and ruffed grouse. Aspen forests are major sources of fiber for the pulpwood and oriented strand board industries in the North. Fire suppression and natural succession have reduced the area of aspen by 33 percent since 1953.

Maple-beech-birch forests are the major forest type in the North. As the northern forest continues to age, acreage in this type has more than doubled since 1953. These forests are currently found on 54 million acres in the North. They make up 31 percent of all northern forests and contain a number of valuable hardwood species for wood products, including sugar maple and the birches. This forest type is also famed for fall color.

Oak-hickory is the dominant forest cover in the central and southern portions of the North. It occurs in expansive areas in portions of Indiana, Pennsylvania, and West Virginia. Also, small forest patches of this type occur in farm woodlots throughout the region. While agriculture is a dominant land use in areas where oak-hickory is present, only the very marginal farmlands have been abandoned to revert to forest. Yellow-poplar is a common transition species that precedes the dominance of oak-hickory in forest stands in this region. Oak-hickory stands in the North tend to be very diverse and heavily influenced by species other than oaks and hickories with ash, basswood, and sugar maple prevalent. With time, oak-hickory transitions to maple-beech on the milder northern and eastern exposures. At the western edges of this region where general climate transitions to semi-arid, bur oak, hackberry, and cottonwood are major components of this type where it is generally found in moist riparian areas.

Elm-ash-cottonwood forests are dominant bottomland forests of the North found mostly along moist river and stream bottoms. They account for 11 million acres in the North, which are often wetland areas common in this region. Dutch elm disease has had a major impact on this type, seriously reducing the elm component. Species such as red maple, green ash, and cottonwood to the west have rapidly filled in behind elms in these forests. White ash, the most commercially valuable species in this type, is used for a number of specialty wood products such as baseball bats and tool handles.

South

The southern region is predominantly in a subtropical humid climatic zone (figure 10) except for an area of the temperate-humid zone that covers most of Kentucky and Tennessee and a small area of the tropical humid zone in southern Florida. The subtropical humid zone in general is characterized by the absence of very cold winters. High humidity, especially in summer, prevails throughout the southern Atlantic and Gulf Coast States of the United States. Forest is the natural vegetation of large areas here with much of the sandy coastal region of the Southeastern United States covered by a second-growth forest. Large areas of pine in plantation and natural stands occur throughout the coastal plain and piedmont regions, along with southern oak-hickory on upland hardwood sites and oak-gum-cypress in the bottomlands. Oak-pine mixtures are common at the northern and western fringes of the southern forest. Agriculture is prominent in the coastal plain and in the bottomlands along the rivers where the productivity of rich bottomland soils have historically led to considerable forest clearing.

The forests of the South account for 30 percent of the unreserved forest area of the United States and 29 percent of all forest land.

Loblolly-shortleaf pine forests are among the most prevalent in the South covering 50 million acres or nearly one-fourth of all southern forests. These forests can consist of pure loblolly or shortleaf pine as well as mixtures intermingled with other southern pine species. Loblolly pine is most common in the piedmont and coastal plain areas; shortleaf pine has a wider distribution and ranges further into the interior South and lower portions of the North. Loblolly-shortleaf pine forests account for over one-half of the 95 million acres of softwood forests in the Eastern United States.

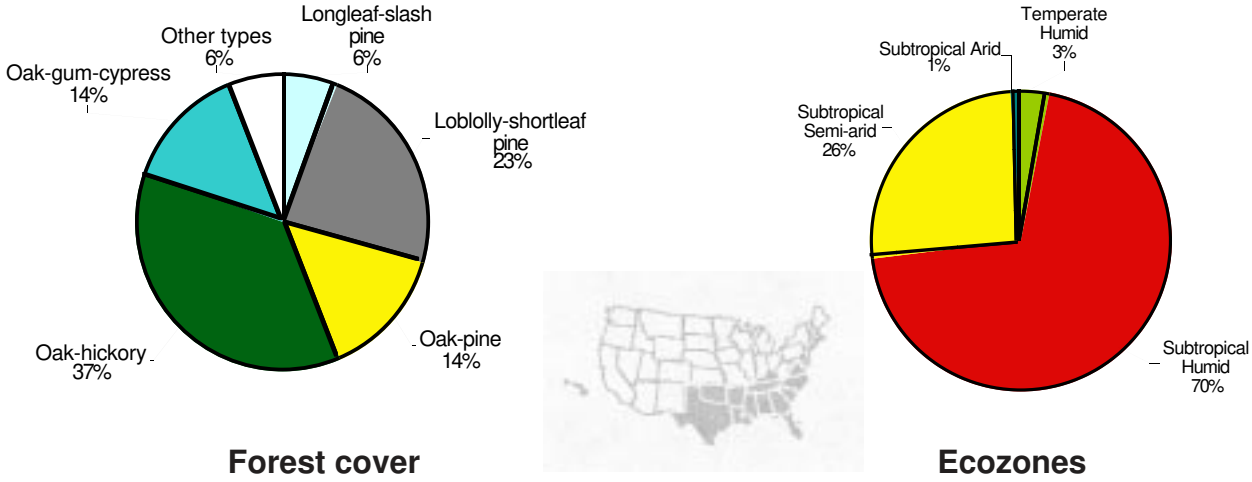


Figure 10 — Ecozones and forest cover distributions of the South.

Longleaf-slash pine forests, whose 13 million acres account for 21 percent of the southern pine acreage, are found in States bordering the south Atlantic and gulf coasts, but most of the area in this type is concentrated in Florida and Georgia (see map in back pocket). These forests continue to decline and now cover half the acreage that they had in 1953. Major factors in this change have been loss of fire (through suppression), which favored slash pine, and conversion of longleaf/slash sites to faster growing loblolly pine.

Longleaf pine and turkey oak, Croatan National Forest, New Bern, North Carolina. Photo: Bill Lea.

Southern oak-hickory forests are among the South's most extensive and diverse forests. This type, at 78 million acres, makes up 36 percent of all southern forests. These forests are generally found in upland areas of the interior South; coves and moist flats have the best stands. Typical associates include gum, maple, and yellow-poplar. In the far western fringes of the region in Texas and Oklahoma, post oak forests are common.

Oak-pine forests cover 30 million acres in the South, which has nearly all of this forest type. These forests frequently originated from cutover natural pine sites with poor pine regeneration. The acreage classed in the oak-pine type was declining before 1987, but the area has been relatively stable since then. These forests generally occupy drier upland sites.

The oak-gum-cypress forests total 29 million acres in the South. Although much of this forest type has been lost through conversion of bottomlands to agriculture, it appears that the acreage has stabilized in recent years.

Western Forests

Rocky Mountain Region

The Rocky Mountain region predominantly spans the temperate and subtropical arid and semi-arid climatic zones (figure 11). This region stretches from prairies in the east to extensive mountains and plateaus or steppes separated by wide valleys in the west to dry deserts in the southwest. Soils range from shallow and poor on the mountains and slopes to rich and suitable for agriculture or grasslands in the valleys of the northern areas to desert arid soils in the southwest. Forests of the region cover about 19 percent of the land area and are diverse and variable depending on elevation and moisture availability. At higher elevations, subalpine fir, lodgepole pine, and Engelmann spruce are found. At the middle elevations and slopes, interior ponderosa pine, Douglas-fir, lodgepole pine, western redcedar, western hemlock, and aspen can be found. While spruce dominates the lower plateaus to the north, shrub vegetation is more common in the drier south. In the eastern prairie areas, trees and shrubs are scarce, but a few may grow as woodland

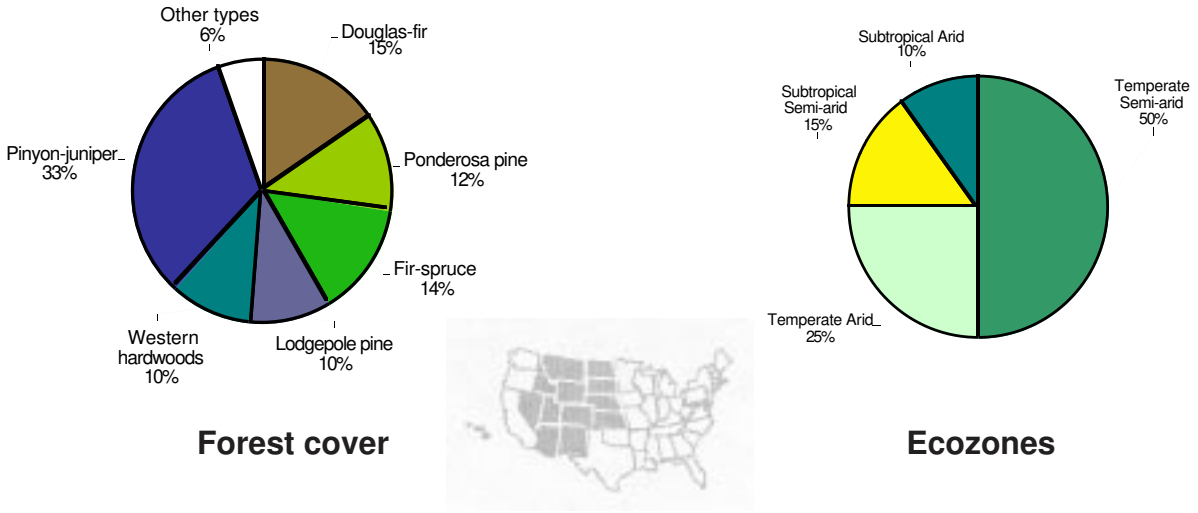


Figure 11 — Ecozones and forest cover distributions of the Rocky Mountain region.

patches in low moist areas and along streams. In the southwest deserts, vegetation is generally xerophytic plants (plants that can survive in areas with very little moisture) widely dispersed and providing almost negligible ground cover. Commercial forestry is more common in the north, and agricultural activities such as orchards, vineyards, and grazing are more common in the south.

The higher elevations of this region contain forests of interior Douglas-fir, ponderosa pine, lodgepole pine, and aspen. The steppe elevations are dominated by sagebrush and juniper while low desert areas contain a variety of cacti and shrubs. The northern prairie wetlands are key habitat for migratory waterfowl. Other animals of this region include bison, elk, mule deer, and coyote. Urbanization has impacted this area significantly and many valleys are becoming densely populated. The forests of the Rocky Mountain region account for 18 percent of the unreserved forest area of the United States and 19 percent of all forest land.

Interior ponderosa pine forests are found to some extent throughout the Rocky Mountain region (figure 11). Most ponderosa pine is found in Arizona, New Mexico, Idaho, Montana, Colorado, Wyoming, and the Black Hills of South Dakota. Generally it is the first type encountered above the valley floors of the region. Common associates are Douglas-fir and larch.

Douglas-fir forests generally occur at elevations directly above the ponderosa pine. Predominant areas of Douglas-fir in the interior West are in Idaho and Montana where three-fourths of the region's volume is found.

Custer National Forest, Montana. Photo: Rocky Mountain Research Station

Lodgepole pine forests are typically found in pure stands and are often very dense. Three-fourths of the total volume of lodgepole pine is located in Idaho, Montana, Colorado, and Wyoming. In natural fire regimes, lodgepole is generally replaced by other softwoods such as Douglas-fir, grand fir, or subalpine fir.

Fir-spruce forests of the Rocky Mountain region are comprised primarily of grand fir, subalpine fir, and Engelmann spruce. In the northern areas, larch, western redcedar, and western white pine species are intermingled.

Pinyon-juniper forests and woodlands are found predominantly in the dry plateaus and broken tablelands of Arizona, New Mexico, western Colorado, Utah, and Nevada. Ninety-two percent of all of the pinyon-juniper type is found in the Rocky Mountain region. Species composition varies from pure pinyon pine to pinyon-juniper.

Most of the other softwood forests of the Rocky Mountain region are confined to Idaho and Montana and include western white pine, hemlock-Sitka spruce, western redcedar, and larch forest types. Combined, these types make up only 2 percent of all the forest of the region.

Hardwood forests cover 17 million acres in the Rocky Mountain region or about 12 percent of all forest land. Generally found in small patches or groups and along streams, quaking aspen and cottonwood are prominent hardwood species to the west. On the eastern prairie, hardwood forests are predominantly elm-ash or cottonwood-willow stringers along rivers and streams. Scattered bur oak and hackberry may be found on the upland sites as well as hickories in eastern Kansas.

Pacific Coast Region (excluding Alaska and Hawaii)

The climate zones of the Pacific Coast region are a mix of temperate oceanic in coastal Oregon and Washington (figure 12), Mediterranean in western California, and temperate and subtropical arid and semi-arid in the eastern portions of the region.

The temperate oceanic climatic zone is situated on the Pacific coast and comprises roughly the western half of Oregon and Washington. This coastal zone receives abundant rainfall from maritime polar air masses and has a rather narrow range of temperature because it fronts on the ocean. Natural vegetation of the marine west coast climate of North America is needleleaf forest. In the coast ranges of the Pacific Northwest, Douglas-fir, redcedar, and spruce grow in magnificent forests. The high snowcapped mountains have a well-marked subalpine belt. Important trees here are mountain hemlock, subalpine fir, whitebark pine, and Alaska-cedar. The alpine zone has a rich flora of shrubs and herbs.

North Pacific coast forests are dominated by mountainous topography bordered by coastal plains along the ocean. Altitude is critical to forest composition ranging from mild, humid coastal rain forests to cool boreal forests at higher elevations. Coastal forests include western redcedar, western hemlock, Douglas-fir, Sitka spruce, redwood, and red alder. Higher elevations have mountain hemlock and fir. Highly productive forests are conducive to forest industry, and agriculture is important in the highly productive lowland areas.

The forests of the three conterminous Pacific Coast States account for 11 percent of the unreserved forest area of the United States and 12 percent of all forest land.

The Mediterranean climate zone is situated on the Pacific coast between latitudes 30 and 45 ° N. Subject to alternate wet and dry seasons, it is in the transition zone between the dry west coast desert and the wet west coast. The occurrence

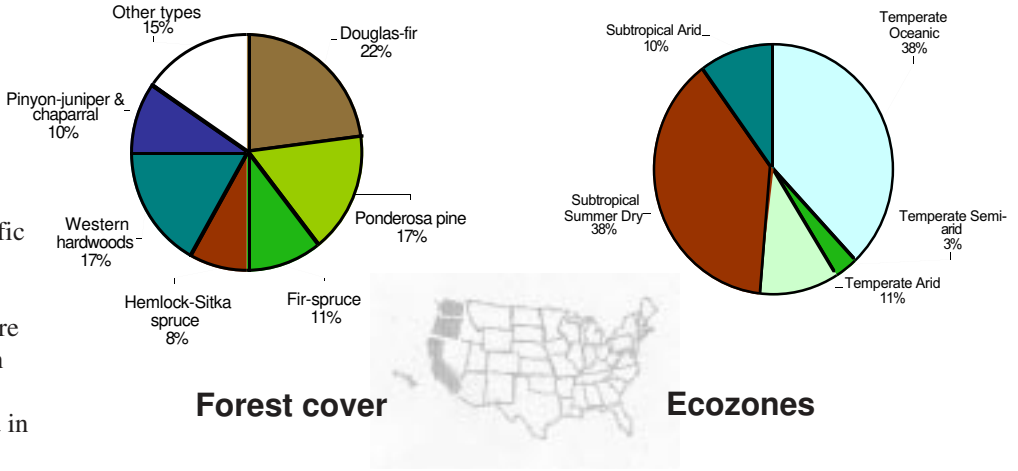


Figure 12 — Ecozones and forest cover distributions of the Pacific Coast region (excluding Alaska and Hawaii).

of a wet winter followed by a dry summer is unique among climate types and produces a distinctive natural vegetation of hardleaved evergreen trees and shrubs called sclerophyll forest. Various forms of sclerophyll woodland and scrub are also typical.

Forests of the Pacific Southwest are characterized by evergreen shrubs, chaparral, patchy oak woodlands, and pine forests on the upper slopes. Urbanization has impacted this area significantly, and many valleys are densely populated.

Alaska

The boreal climatic zone (figure 13) is situated in a region where continental polar air masses are south of the tundra zone between latitude 50 and 70 °N. This climate type shows very great seasonal range in temperature; winters are severe and the small annual precipitation is concentrated in the three warm months. This zone coincides with a great belt of needleleaf forest, referred to as boreal forest, and open lichen woodland, called the taiga. The Nation's boreal forests generally consist of close stands of conifers (mostly spruce and tamarack) interspersed with white birch and aspen. Soils are generally shallow and rocky. This region dominates 85 percent of Alaska's landscape.

The polar climatic zone lies north of the boreal zone and includes the tundra region, which has a very short, cool summer and a long, severe winter. Temperature efficiency rather than effectiveness of precipitation becomes

Chugach National Forest Alaska. Photo: Tom Iraci

critical in influencing plant distribution and soil development. Vegetation on the tundra portion of this zone consists of grasses, sedges, and lichens, with willow shrubs.

The temperate oceanic climatic zone is situated on the southeast coast of Alaska, making up roughly 9 percent of the State's forests. This zone receives abundant rainfall from maritime polar air masses and has a rather narrow range of temperature because it fronts on the ocean. The region is dominated by mountainous topography, and the natural vegetation is predominantly needleleaf forest. Altitude is critical to forest composition ranging from mild, humid coastal rain forests to

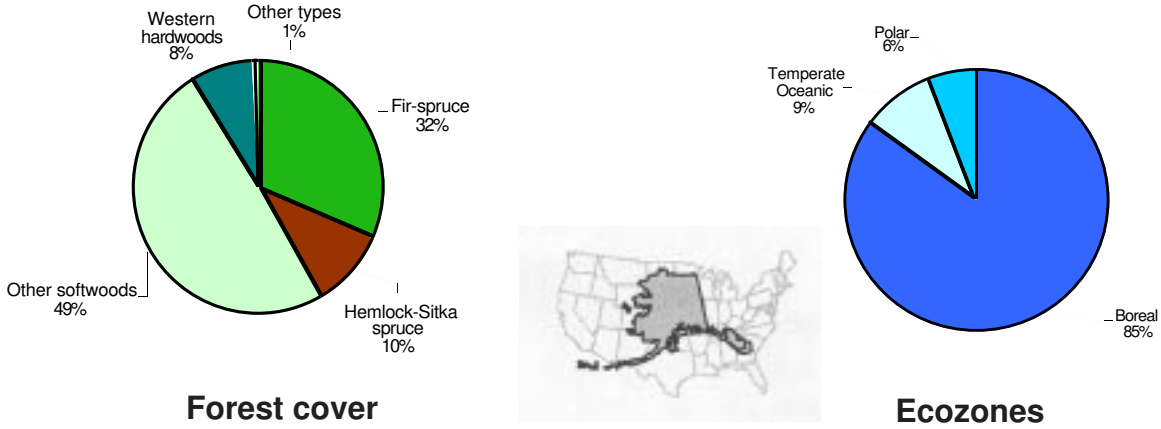


Figure 13 — Ecozones and forest cover distributions of Alaska.

cool boreal forests at higher elevations. Coastal forests include western hemlock, Alaska-cedar, western redcedar, Sitka spruce, red alder, and black cottonwood. Higher elevations have lodgepole pine, mountain hemlock, and subalpine fir. This zone also has a rich flora of shrubs and herbs.

The forests of Alaska account for 17 percent of the unreserved forest area of the United States and 17 percent of all forest land. Ten percent of Alaska's unreserved forest is timberland (12.4 million acres) and accounts for 2 percent of all U.S. timberland.

Ninety-two percent of Alaska's unreserved forest land is covered with softwood stands, 7 percent has hardwood stands, and 1 percent is currently nonstocked.

The most extensive forest type group is other softwoods. The other softwoods group is primarily spruce stands in interior Alaska. These forests account for 63 million acres—nearly half of all Alaska's forests and provide important values that include watershed and soil protection, wildlife habitat, and aesthetic enjoyment.

Hemlock-Sitka spruce and fir-spruce forests are found primarily in coastal Alaska. These forests account for about 53 million acres and are made up of important commercial timber species that provide raw material for lumber products, pulping, and log exports on the Pacific coast and abroad.

In Alaska, there are about 10 million acres of the western hardwoods forest type group. Paper birch, aspen, and black cottonwood are the most abundant hardwood species.

Hawaii

The small area of tropical humid climate in the U.S. is at low latitudes and is controlled largely by equatorial and tropical air masses. There is no winter season. While average annual rainfall is heavy and exceeds annual evaporation, it varies in amount and in seasonal and areal distribution. Hawaii and extreme southern Florida support this regime. Although southern Florida is dominated by wet savanna, Hawaii has evergreen and semi-deciduous forests of great diversity.

Forest Changes

The forest landscape in the United States, on average, is getting older as represented by the increase in the area of forest types that are more representative of mid to later stages of succession, and by the decrease in the area of forest types that are more representative of earlier successional stages. Some species and forest types are showing signs of significant shifts. In the East, for example, the areas in aspen-birch and longleaf-slash pine have been decreasing while the area in maple-beech-birch and oak-hickory has been increasing (figure 14). Much of this change is due to natural succession in response to fire suppression. The downward trend in lowland hardwoods is more the result of a slowing but continued conversion of these forest lands to other uses. In the West the loss of lodgepole pine is attributable to fire suppression as well.

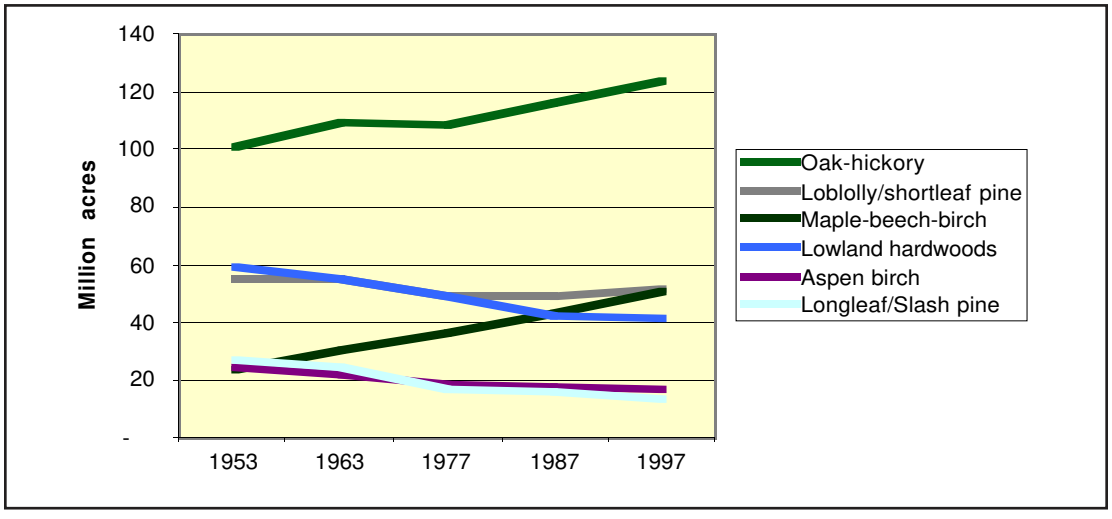


Figure 14 — Trend in timberland area for selected eastern forest types, 1953-1997.

Reserved Status of Forest Types

In the West, much of the area of reserved forest land consists of softwoods (figures 15 and 16). In the East, oak-hickory and maple-beech-birch are the forest type groups with the most area in reserved status.

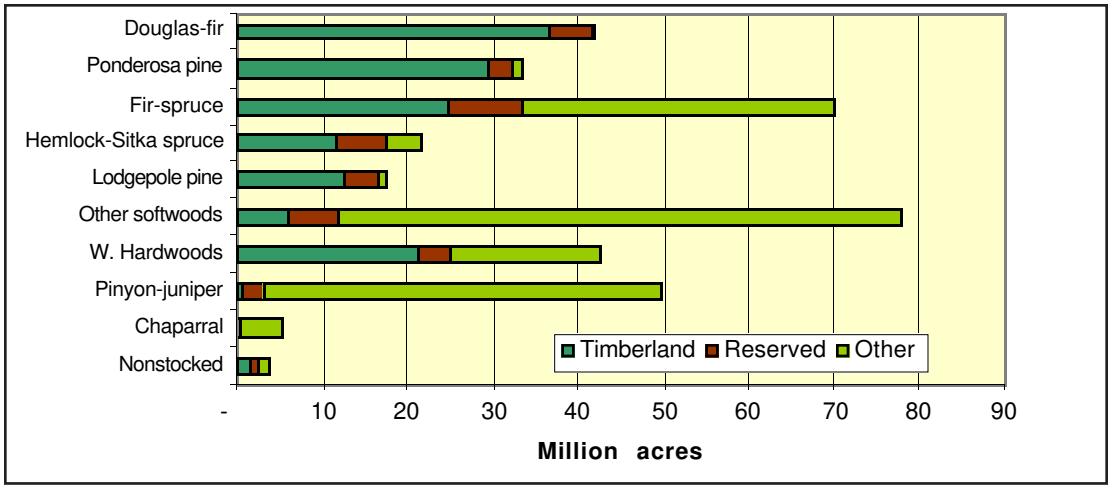


Figure 15 — Forest land in the West by forest type and land class, 1997.

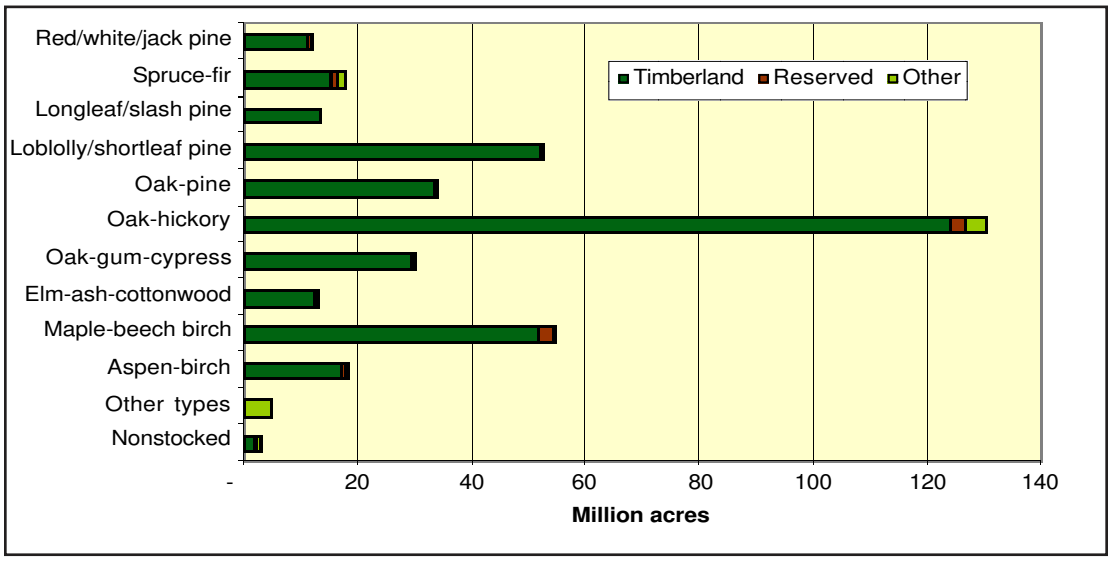


Figure 16 — Forest land area in the East by forest type and land class, 1997.

Forest Land Area by Rural-Urban Continuum Class

A higher percentage of forest land in the West is in counties classed as rural (55.8 percent) than in the the East (20.8 percent) (table 7). In part, this reflects higher population densities in the East and in part the remoteness of some areas in the West (figure 17). Population pressure tends to indicate higher rates of landscape fragmentation as more competing demands are placed on all resources.

Blue oak (*Quercus douglasii*), California. Photo: Pacific Southwest Research Station.

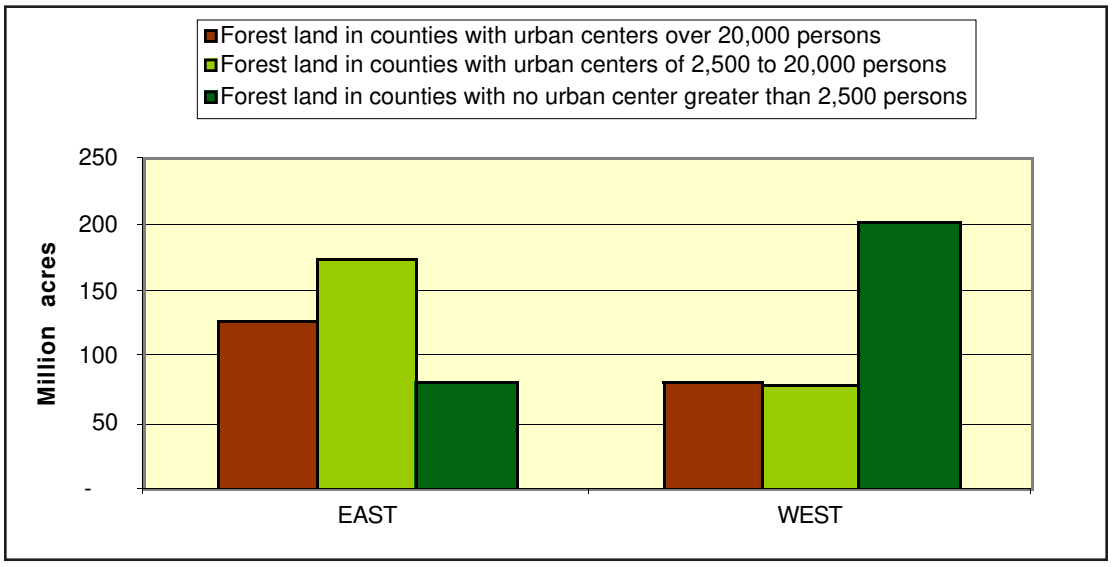


Figure 17 — Forest land in the United States by urban population proximity.

Area of Plantations and Natural Forests

An estimated 54 million acres of forests (7 percent of the total) in the United States were established through tree planting (table 8). This estimate includes many areas, especially in the Western States, where natural regeneration was augmented with tree planting. In contrast to many other countries, virtually all tree planting for plantations in the United States is of native species.

Planted stands are most abundant in the Eastern United States, especially in the South (figure 18). There, planted forests total 36 million acres or about 17 percent of the forests in the region. Loblolly pine and slash pine are the species most frequently planted in the South.

As shown in the following tabulation, an estimated 13.6 million acres of planted forests exist in the Western United States; about 70 percent of these stands are in the Pacific Northwest subregion. Douglas-fir has been the predominant species planted, accounting for more than one-half of the total. However, since 1990, other species such as ponderosa pine, western larch, and lodgepole pine have been planted with increasing frequency, while the acreage planted to Douglas-fir has dropped.

Acres of planted forest land in the Western United States by forest type group, 1997

Forest type group	Thousand acres
Douglas-fir	7,402
Ponderosa pine	2,328
Western white pine	45
Fir-spruce	1,216
Hemlock-Sitka spruce	194
Larch	859
Lodgepole pine	988
Other softwoods	195
Western hardwoods	397
Total	13,626

Planted stands make up a substantial component of only a few forest type groups across the country. In the East, the longleaf-slash pine group has the greatest percentage of acreage classed as planted—59 percent. Loblolly-shortleaf

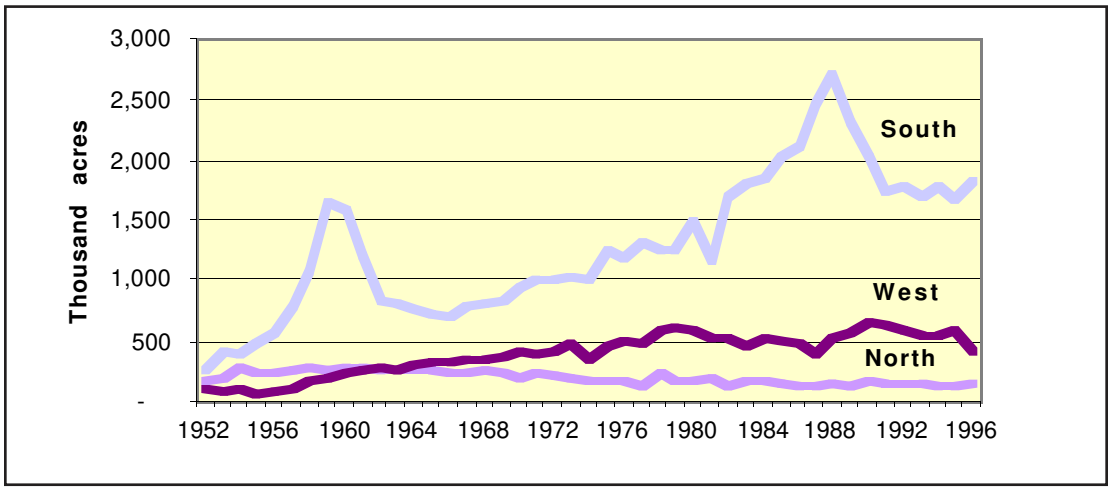
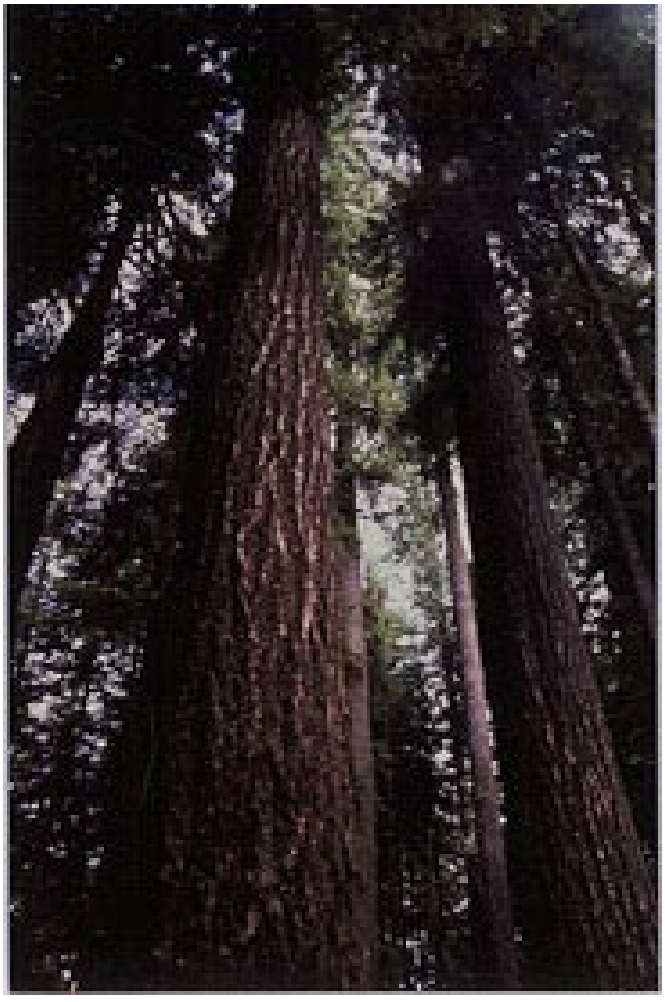


Figure 18 — Forest land planted annually in the United States, 1952-1996.

pine forests also contain a relatively high proportion of planted area; 43 percent of these stands were planted, reflecting in part, conversion of natural pine stands to plantations. Farther north, white-red-jack pine stands have a plantation percentage of 24 percent. In the Western United States, Douglas-fir has a plantation proportion of 18 percent. Plantations in the United States tend to be predominately softwood. Acreages listed under hardwood types tend to be evidence of failed plantations where stocking of competing hardwood species has overtaken the softwoods. In rare cases, there are some hardwood plantations.

The data on plantation extent in the United States are from two sources. In the Eastern United States, classifications of stand origin made at Forest Inventory and Analysis plots were used to note planted and natural status. Because some planted stands take on the appearance of natural stands as they age, these data likely reflect conservative estimates of plantation acreage. Because it is often difficult to visually distinguish natural from planted forests after a decade or so in the West, plantation estimates were derived from tree planting statistics compiled by the USDA Forest Service (annual). Since these statistics reflect the total acreage planted over a long period, they were discounted to account for planting failures and stand liquidation due to harvests or natural disturbances such as fire and for clearing to nonforest land uses. The values used for current plantation extent in the Western United States are 75 percent of the total acreage planted in the region. Forest type distributions for planted stands in the West were developed from tree nursery data on species shipped and from forest industry records on plantation establishment.



A white-red-jack pine stand. **Photo: USDA-Forest Service.**

Timberland Area and Ownership

Trends in Timberland Area

For the entire United States, timberland area has risen since 1987, with a gain of 17 million acres or about 4 percent (tables 10 and 11). While reversion and afforestation were dominant factors in the East, reclassification of marginal wooded lands was the dominant cause for increases in forest land area in the West. Net gains were reported in the North (3 percent), South (2 percent), and the Rocky Mountain (16 percent) regions (figure 19). On the Pacific Coast, timberland area declined by 1.7 percent from 1987 to 1997. Increases in the Pacific Northwest (2 percent) and Pacific Southwest (7 percent) subregions, were offset by a decline in Alaska (-21 percent) where a large area in the southwest portion of the State was reclassified as nonforest.

These shifts in timberland area are the result of a complex combination of timberland being withdrawn for reserved uses such as parks and wilderness and other influences. A major influence was the reclassification of other forest lands to timberland as a result of re-evaluation of site productivity. Additional gains can be attributed to abandoned marginal farmlands in the East reverting to productive forest lands. The net effect of these changes has been a drop in total timberland of 5 million acres (1 percent) since 1953.

Seventy-two percent of the Nation's timberland is in the Eastern United States. In the West, timberland is a smaller segment of the total forest area than in the East, although timberland does constitute more than half of all forest land in the Great Plains and Pacific Northwest subregions, as well as in Colorado, Idaho, and Montana in the Intermountain subregion.

Timberland Ownerships

Timberland ownership patterns vary throughout the United States. Timberland ownership is divided into four broad classes: national forest, other public, forest industry, and nonindustrial private. The balance between public and private has not appreciably changed since 1987 (table 10). Private lands are concentrated in the eastern part of the country, and public lands are mainly in the West (figure 20). For the United States as a whole, private individuals and firms own 71 percent of all timberland; Federal, State, and other public owners account for the remaining 29 percent (table 11).

National Forest

National forest timberland in the United States totals 96 million acres or 19 percent of all timberland. Since most national forests were created from unclaimed public lands in the West around 1900, most (78 percent) of the current national forest timberland is in the West. When the national forest lands were created, much of the more accessible, highly productive forested area was no longer in the public domain. As a consequence, national forest timberland is, on average, less productive and on steeper, higher elevation terrain than are private timberlands. Their terrain makes national forests especially important in managing waterflows and in protecting and maintaining watershed condition.

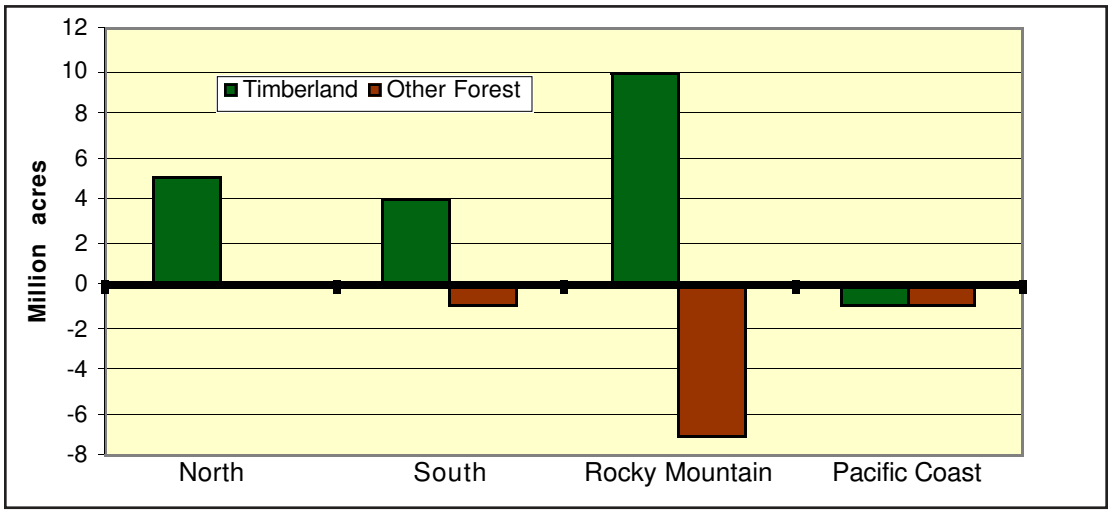


Figure 19 — Change in forest area by land class and region, 1987 to 1997.

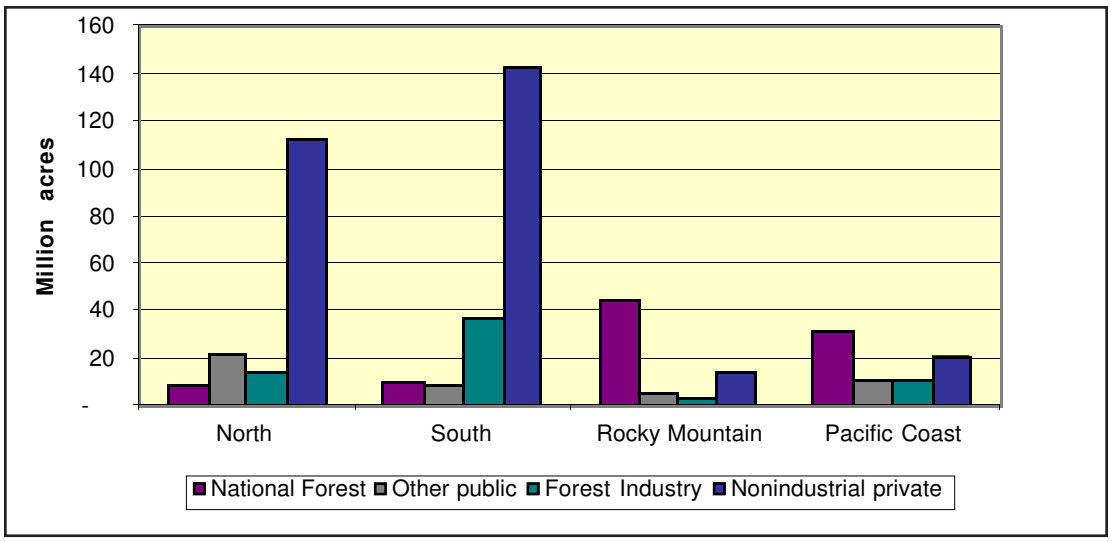


Figure 20 — Area of timberland by major region and ownership group.

Other Public

The other public category includes all lands managed by public agencies other than the Forest Service. Included are lands administered by the Bureau of Land Management, State, county, and municipal authorities. Timberland in this category accounts for 10 percent of the total timberland acreage. State-owned timberland, of which every State has some, constitutes over half of the timberland area in the other public category. The National Park Service and the Fish and Wildlife Service in this ownership group also have significant forest areas, but these areas are not generally classed as timberland.

The largest concentration of other public timberland is in the North (45 percent of the nationwide total) where it is made up primarily of State and county forests. Pennsylvania in the Northeast subregion and Michigan, Minnesota, and Wisconsin in the North Central subregion all have extensive State and local governmental management of timberlands. Timberland in State, county, and municipal ownership amounts to 26.4 percent of the total in these three Lake States. In this region, timberland that reverted to the States through tax delinquency during the depression accounts for much of the other public ownership. Oregon, Washington, and Alaska have large acreages of other public timberland—mostly State land in Alaska and Washington, and Bureau of Land Management land in Oregon.

Forest Industry

Forest industry timberland holdings in the United States total 66.9 million acres, down 5 percent from 1987. These areas are owned by operators of primary wood products manufacturing facilities. They have historically been treated as an identifiable owner group because—unlike the nonindustrial private group—they are thought to have somewhat common objectives for ownership and management of timberland (Birch 1996). Most of the forest industry timberland is in the Eastern United States; 55 percent of all such lands are in the South and 22 percent are in the North. The Pacific Coast region has 18 percent of all industry timberlands, and the Rocky Mountain region has only 4 percent. The location of forest industry timberland has been strongly influenced by the location and availability of highly productive forest land.

The decline in timberland area classed as owned by forest industry is due in part to the creation of Timber Investment Management Organizations (TIMOS). TIMOS are the result of spinoffs of timberland holdings by some firms in forest industry. There are no timber processing plants associated with TIMOS, so these lands are classed in the nonindustrial private ownership category. In 2000, some 4 million acres of forest land were in TIMOS in the South (Siry 2001). Acreage in these organizations is expected to increase in the future. As a result, the area of timberland in the forest industry owner category will likely decline in the future. However, timberlands in both TIMOS and forest industry ownerships are managed in much the same way.

Nonindustrial Private

Timberland owners in this group include individuals, trusts, and corporations. This group accounts for 58 percent of the timberland area in the United States.

Nonindustrial private timberland is concentrated in the eastern sections of the country; 88 percent of all such land is found in the North and South, accounting for about 71 percent of all timberland in both areas. In contrast, in the Rocky Mountain and Pacific Coast regions, this owner group accounts for about 25 percent of the timberland.

Because the owners in this group hold many different management objectives at any given time some of the area is not available for the production and harvest of timber. But ownership of timberland can be as transitory in this group as individual owners' objectives; changes in ownership and objectives often bring formerly unavailable resources in to the market (Birch 1996).

Black willow slough, bottomland hardwoods in Mississippi. Photo: Bill Lea.

Interior Highlands, Arkansas. Photo: Pacific Melissa Carlson.

Stand Size-Class Distribution

Stand size-class distribution can be used to describe forest structure and age as well as distribution of stands suitable for various timber products (tables 14 and 15). Four classes are generally recognized: (1) nonstocked, (2) seedling-sapling, (3) poletimber, and (4) sawtimber (see Glossary for definitions).

On eastern timberland, very few acres (less than 1 percent) are nonstocked. With generally favorable climates and seed sources, few harvested areas remain nonstocked for long. Seedling-sapling and poletimber stands are about evenly distributed in the East (25 and 29 percent, respectively) (figure 21). These stands form the core of the merchantable forests of the mid-21st century. Sawtimber stands represented 46 percent of the timberland in the East in 1997, compared with 30 percent in 1953. The bulk of current timber harvesting is focused on these stands.

In the West, nonstocked stands make up 4 percent of the total area of timberland. The distribution of seedling-sapling and poletimber stands is 14 and 17 percent, respectively, and the balance (65 percent) is in sawtimber stands. In the West, the share of sawtimber-size stands ranges from about 60 percent in Alaska and the Pacific Northwest subregions to 72 percent in the Pacific Southwest subregion (figure 22).

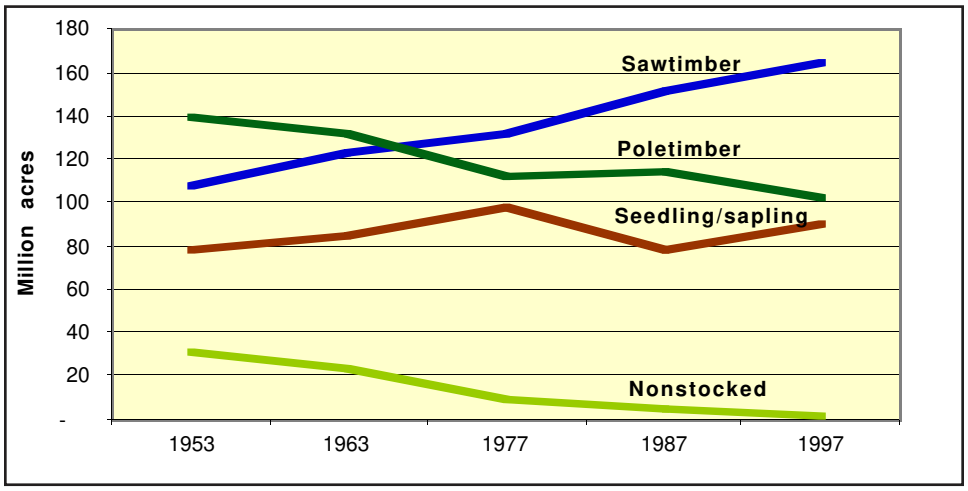


Figure 21 — Trends in area of timberland in the East by stand-size class, 1953-1997.

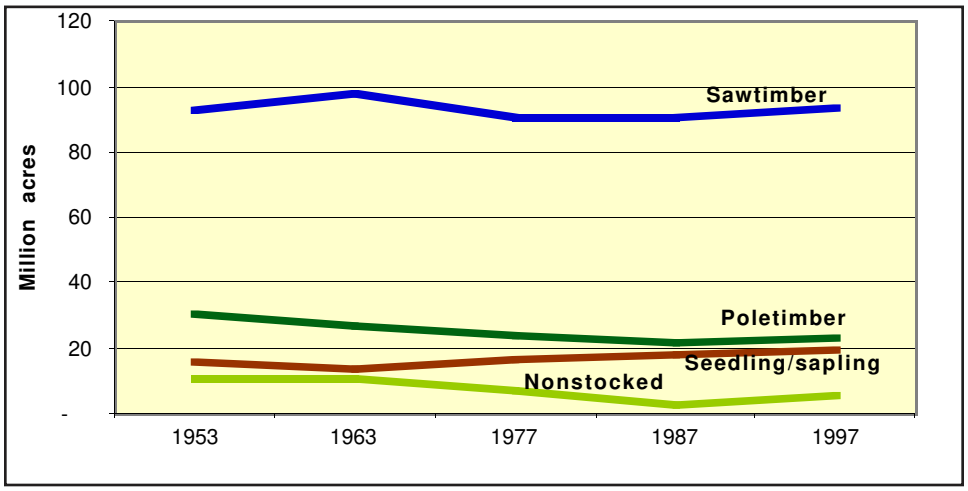


Figure 22 — Trends in area of timberland in the West by stand-size class, 1953-1997.

Timber Volume

The Nation's timberland contains an estimated 906 billion cubic feet of timber, of which 92 percent is in growing-stock—live, sound trees suited for roundwood products (table 17 and figure 23). About 6 percent of all timber volume is in live cull trees that are not suited for roundwood products because of poor form or rot. Only 2 percent of the volume of all timber is in dead trees that are sound enough to have value for some commercial product uses. Softwood species have a higher proportion (95 percent) of all timber volume in growing-stock than hardwood species do (88 percent). The remainder of this discussion of timber volume will focus on growing-stock volume.

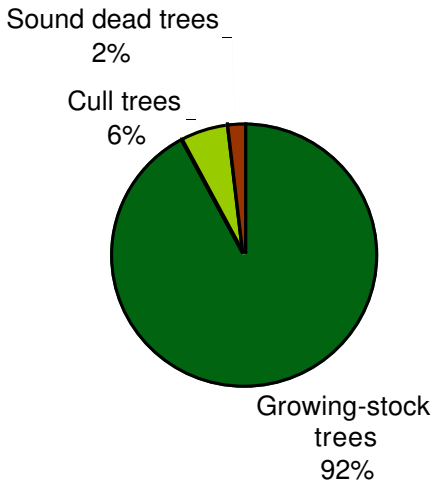


Figure 23 — Distribution of standing volume on timberland by class of timber.

The South, which had a 5-percent increase in total volume between 1987 and 1997, experienced a 3-percent gain in volume on a per acre basis. In the North, total volume increased by 13 percent compared to a 9-percent increase in volume per acre. Pacific Coast volume registered a 0.3-percent gain, and volume per acre increased by 7 percent. The Rocky Mountain region saw a 16-percent gain in total volume, but no change in per acre volume.

Because growth has exceeded harvest since the 1950s, volume on U.S. timberland has increased since that time (tables 18 and 19 and figure 24a). Net volume per acre increased between 1953 and 1997 in all major regions. In the North, average net volume per acre increased by 100 percent between 1953 and 1997. In the South, net volume per acre rose by 76 percent, and in the Rocky Mountain region, it increased by 27 percent. In the Pacific Coast region, average net volume per acre increased by only 2 percent. This was due in part to the harvest of mature timber on timberland with high volumes per acre and in part to withdrawals of Federal timberland with mature timber.

The Nation's softwood growing-stock volume totals 484 billion cubic feet or 58 percent of all growing-stock (figure 24b). Softwood volume is up 3.5 percent since 1987. Declines occurred in the South (down 1 percent) and Alaska (down 20 percent). Softwood volume increased by 4 percent in the North and by 14 percent in the Rocky Mountain region.

Softwood growing-stock is concentrated in the West; the Pacific Coast region alone accounts for 44 percent of all softwood growing-stock, despite its relatively small timberland base. The West contains stands that have high per acre volumes. Many of the younger, mature forests in the Pacific Coast region have higher per acre volumes due to the higher productivity of their sites. Most of the remainder of softwood timber is evenly distributed between the South and the Rocky Mountain regions. The North has 6 percent of the total.

There were 352 billion cubic feet of hardwood growing-stock volume on timberland in 1997, up almost 12 percent since 1987 (table 23 and figure 24c). Hardwoods account for 42 percent of all growing-stock volume in the United States. Ninety percent of all hardwood timber volume is in the Eastern United States, almost evenly distributed between the North and the South regions. Most of the remaining hardwood volume is in the Pacific Coast region.

Ownership

Because of many factors, including history of use, land productivity, and degree of management, the timber volumes are distributed unevenly among owners (table 25 and figures 25a, 25b, and 25c). National forests, which account for only 19 percent of the Nation's timberland, have 30 percent of all growing-stock volume and 46 percent of all softwood growing-stock volume. The national forests, however, have proportionately less hardwood volume than the other owner groups.

Other public owners—States, Federal agencies other than the Forest Service, counties and municipalities—account for about 10 percent of all growing stock, 58 percent of which is

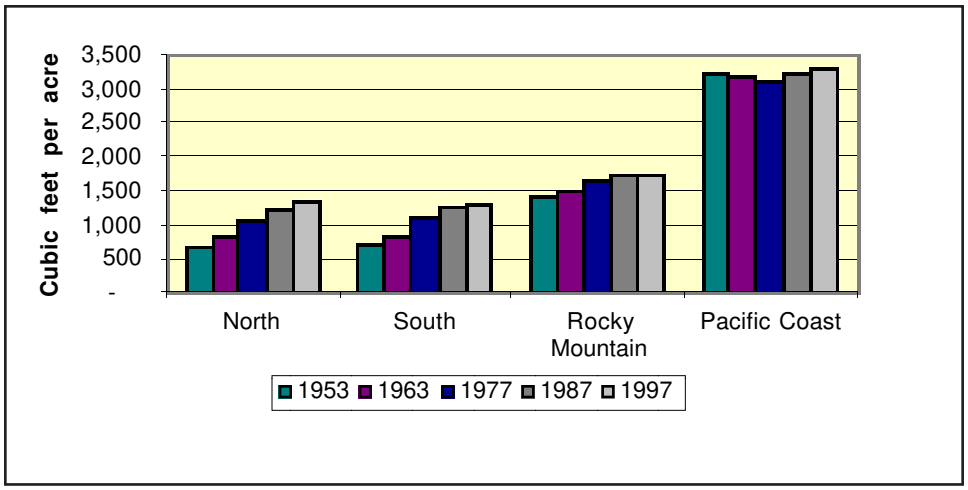


Figure 24a — Trend in average growing-stock volume per acre on timberland by region.

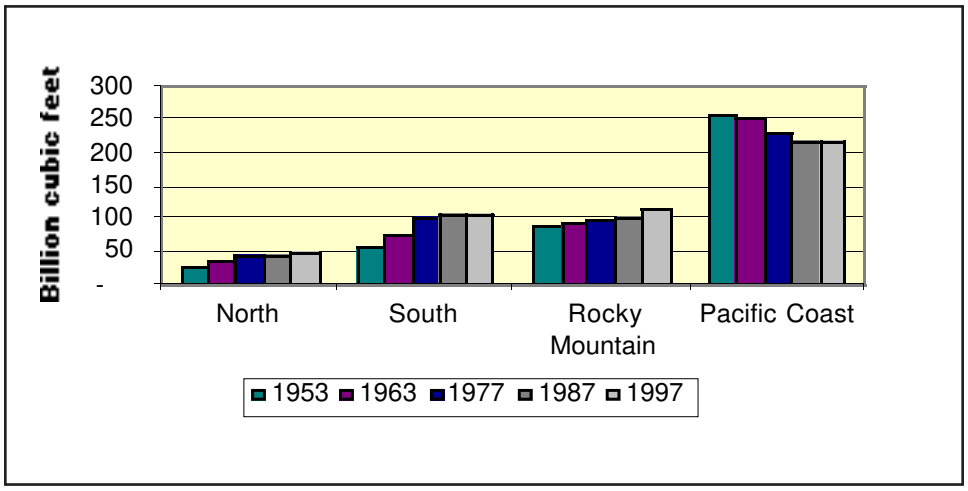


Figure 24b — Trend in total softwood growing-stock inventory on timberland by region.

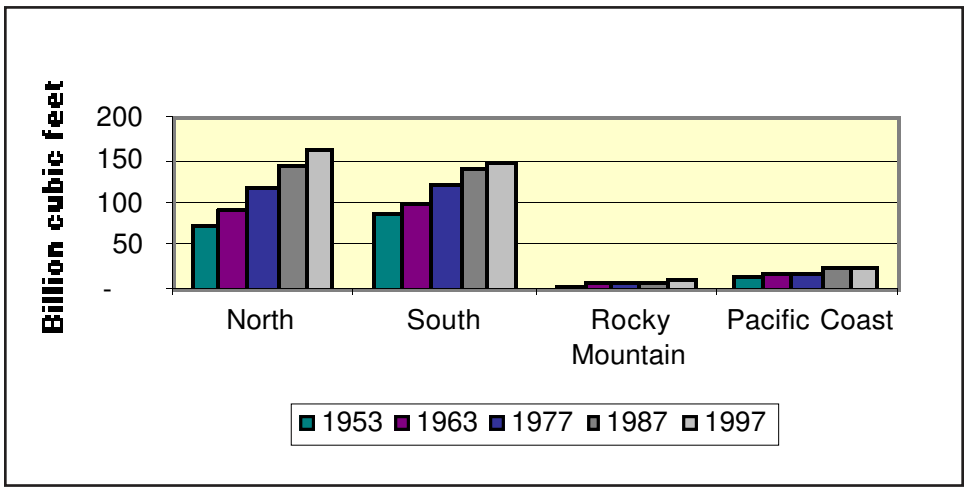


Figure 24c — Trend in total hardwood growing-stock inventory on timberland by region.

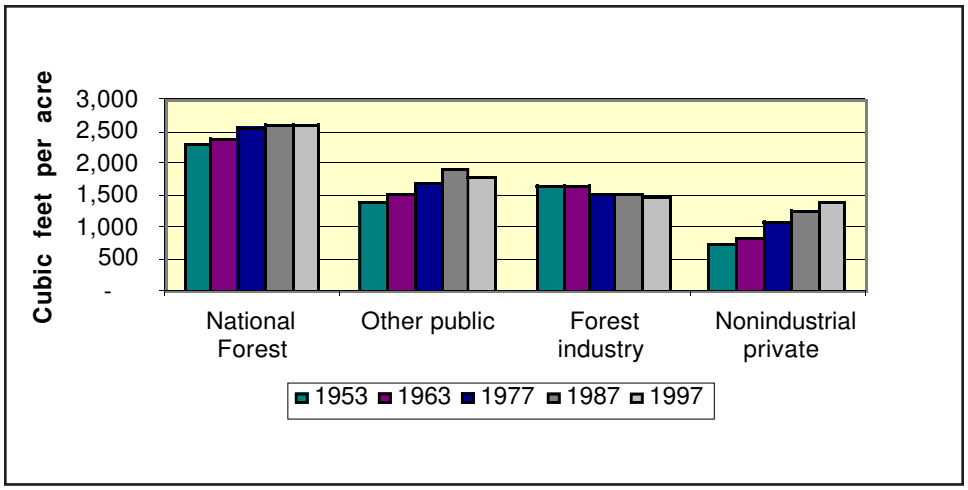


Figure 25a — Trend in average growing-stock volume per acre on timberland by owner group.

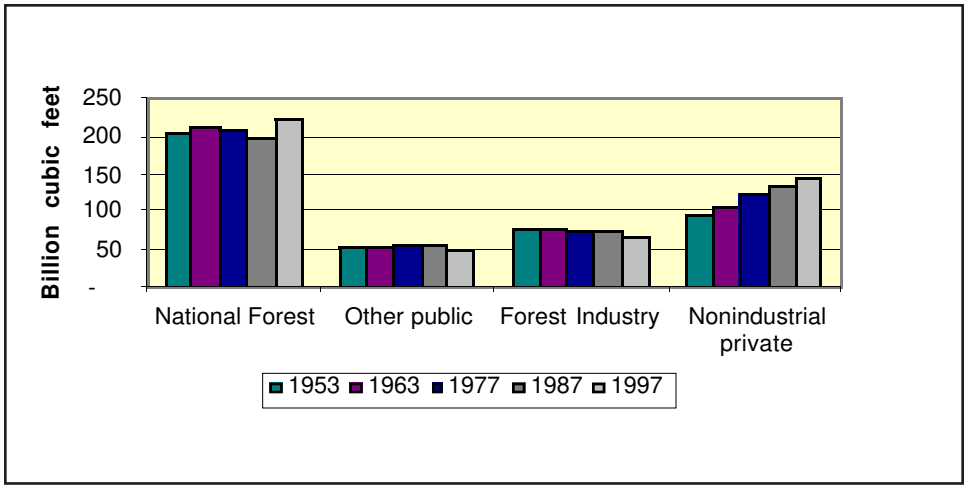


Figure 25b — Trend in total softwood growing-stock inventory on timberland by owner group.

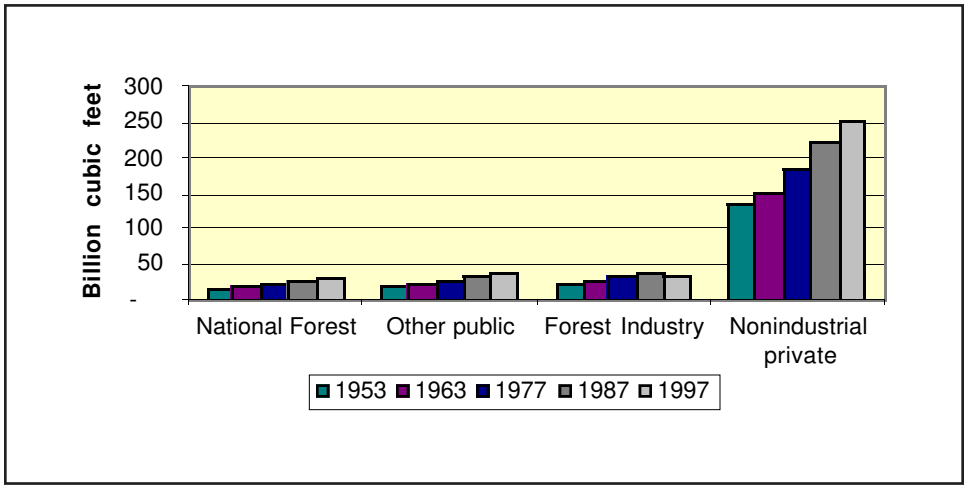


Figure 25c — Trend in total hardwood growing-stock inventory on timberland by owner group.

softwoods. The hardwood volume in this category is concentrated in the North, and softwood volume is mostly in the West, with the largest share in Oregon and Washington.

Forest industries own about 12 percent of all growing-stock volume in the United States, and 14 percent of all softwood volume. Softwood growing-stock volume on forest industry lands has declined by 9 percent to 66 billion cubic feet since 1987, continuing a trend that goes back at least to 1953, the first year data are available. Hardwood growing-stock volume declined (8 percent) on forest industry ownerships in the South for the first time since 1953 when data first became available. Inventory turnover, the rate of harvest and replacement of timber inventories, is higher on forest industry land than on other ownerships.

Nonindustrial private timberland accounts for 47 percent of all growing-stock volume in the United States. This owner group controls 30 percent of all softwood timber and 72 percent of all hardwood timber. Both softwood and hardwood timber volume in this owner group is concentrated in the Eastern United States—softwoods in the Northeast, Southeast, and South Central subregions and hardwoods throughout the East.

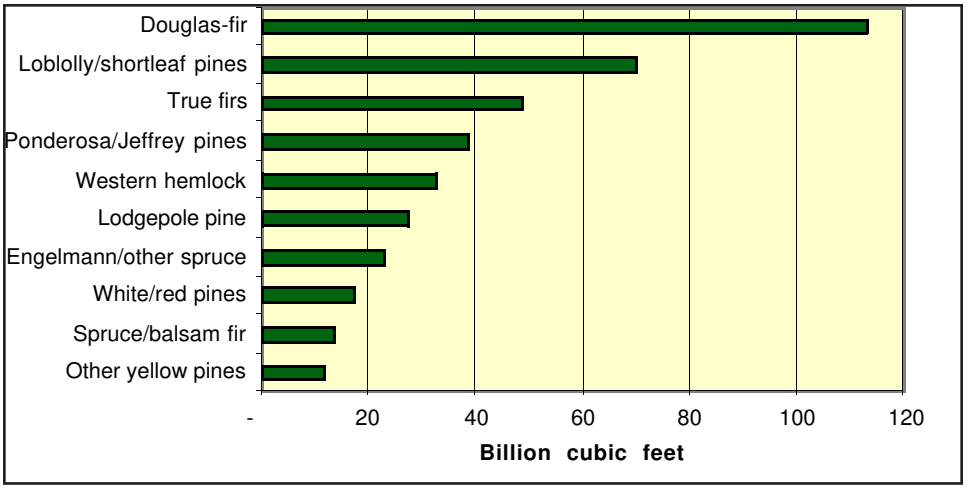


Figure 26 — Ten softwood species groups with most growing-stock volume, 1997.

Species

Douglas-fir is the most abundant softwood species; it totals 113 billion cubic feet or over one-fifth of all softwood growing-stock volume in the United States (figure 26 and tables 26, 27, and 28). Sixty-two percent of all Douglas-fir volume is in the Pacific Northwest subregion. Other top 10 softwood species in order of volume abundance are loblolly and shortleaf pines (70 billion cubic feet), true firs (49 billion cubic feet), ponderosa and Jeffrey pines (39 billion cubic feet), western hemlock (32 billion cubic feet), lodgepole pine (27 billion cubic feet), Engelmann and other western spruces (23 billion cubic feet), eastern white and red pines (17 billion cubic feet), longleaf and slash pines (16 billion cubic feet), and eastern spruces and balsam fir (14 billion cubic feet).

Of the top 10 hardwood species, all are found mainly in the East except for cottonwood and aspen, which span the continent (figure 27 and forest type group map). Oak is by far the most common genus, accounting for 108 billion cubic feet, or 31 percent of the hardwood volume. The maples, next in abundance, are one of the fastest growing components of the hardwood resource. Soft and hard maples together account for 54 billion cubic feet, or 15 percent of all hardwoods. Soft maple volume has tripled since 1953.

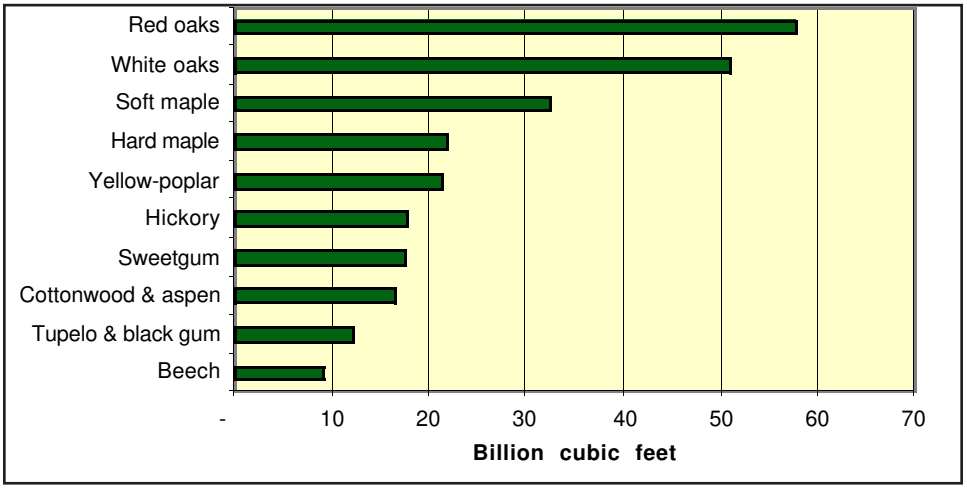


Figure 27 — Ten hardwood species groups with most growing-stock volume, 1997.

As eastern forests continue to age, species with intermediate tolerance like yellow-poplar are increasing rapidly. Yellow-poplar volume has increased by 31 percent since 1987 and by nearly 300 percent since 1953.

The use of western hardwoods is growing. Red alder, with an inventory of nearly 8 billion cubic feet, has had a substantial increase in use in recent years as stocks have declined slightly (8.3 percent) since 1987. It is located almost entirely in western Oregon and Washington. The aspens in Colorado and other States in the Rocky Mountain region are also locally important for the manufacture of timber products and for the enjoyment of tourists when colors change in the fall.

Diameter Distribution

The distribution of growing-stock volume by diameter classes provides information on forest structure that has value to those interested in timber, wildlife, and aesthetic resources.

Since 1953, the net volume of U.S. hardwoods increased by 91 percent, and the volume of hardwoods in diameter classes 19 inches or greater more than doubled—from 26 to 57 billion cubic feet. For softwoods, the net volume increased by 12 percent between 1953 and 1997, and the volume of softwoods in diameter classes 19 inches or greater declined by 21 percent.

For trees from 5.0 inches to 20.9 inches in diameter, the patterns are similar for hardwoods and softwoods (figures 28 and 29), volume rises quickly to a peak in the 9- to 11-inch range and then declines with increasing size (tables 30, 31, and 32). Hardwoods continue this trend with little volume in very large trees. Softwood volume, in contrast, rises after 21 inches to another peak. The pattern in diameter distribution varied little between 1987 and 1997. Twenty-nine percent of softwood volume and 11 percent of hardwood volume was in trees 21.0 inches diameter and larger in 1997, compared to 29 percent for softwoods and 9 percent for hardwoods in 1987.

The diameter distribution also reflects regional differences (figure 30). The Rocky Mountain region has the most even distribution across diameter classes. The Pacific Coast region exhibits the softwood pattern most prominently, with big jumps in volume in the largest size classes.

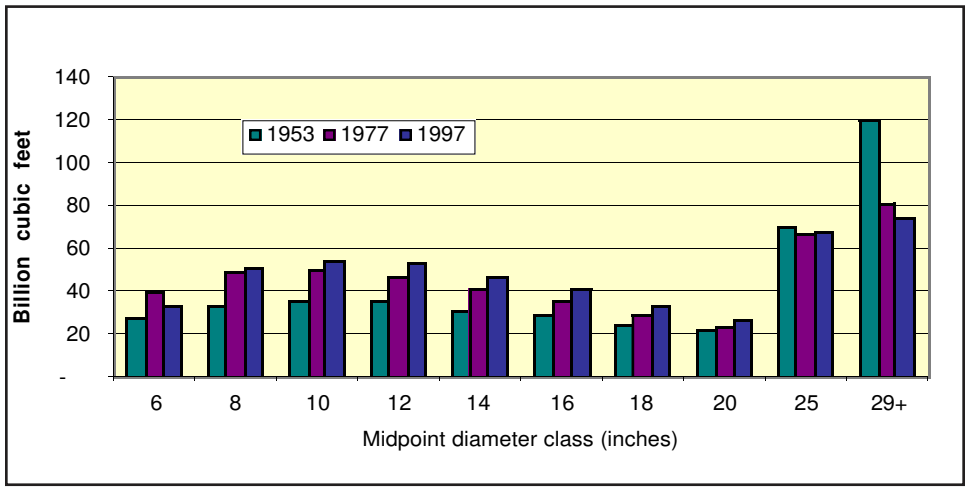


Figure 28 — Distribution of softwood growing-stock volume by diameter class, 1953, 1977, and 1997.

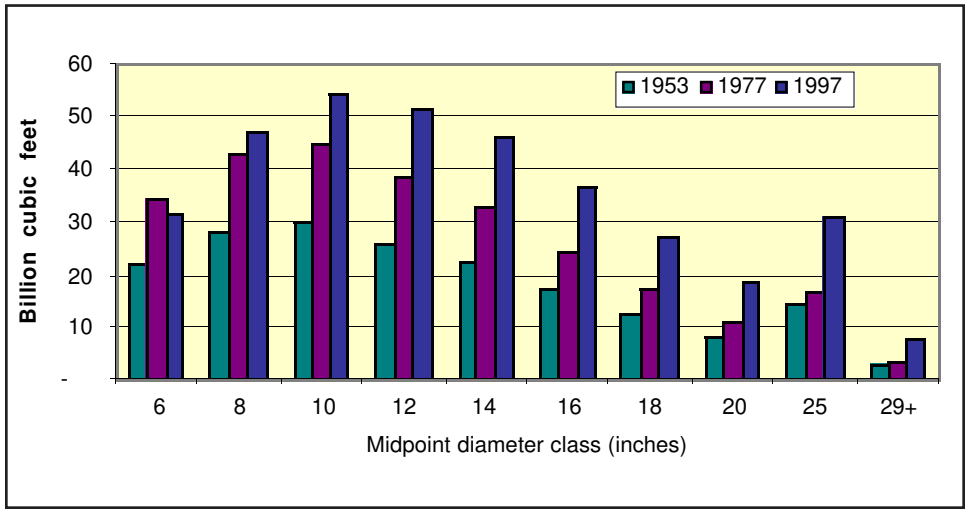


Figure 29 — Distribution of hardwood growing-stock volume by diameter class, 1953, 1977, and 1997.

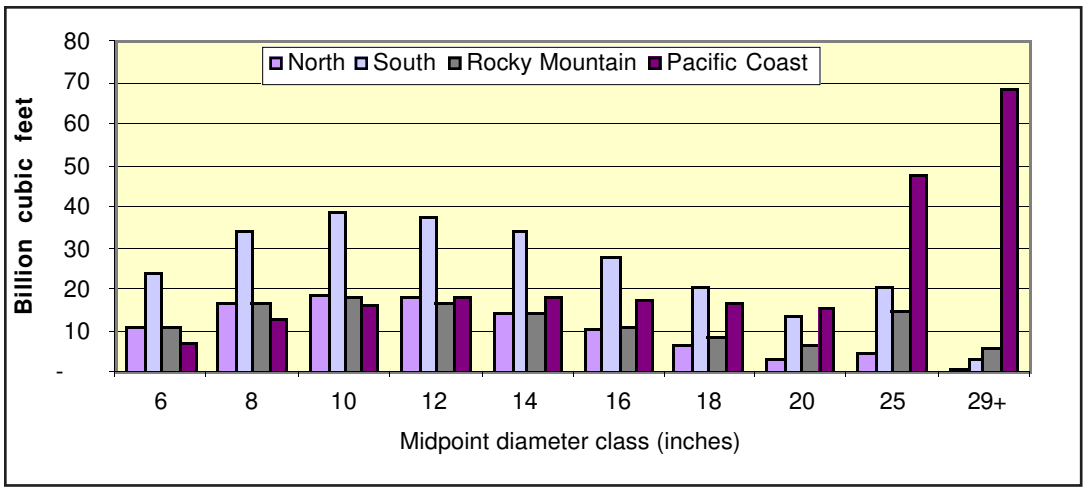


Figure 30 — Distribution of growing-stock volume by region and diameter class, 1997.

Elements of Change in Timber Volume

Timber inventories are snapshots of a dynamic process. This part of the report focuses on a comparison of national snapshots of the elements of change within forests—mortality, growth, and harvest.

Mortality

Timber mortality is commonly defined as the average annual net volume of timber dying over a given time due to natural causes, such as insects, disease, suppression, fire, and windthrow. Mortality is a part of every forest. Usually, losses due to native insects, disease, and suppression occur at low and predictable rates. Little of this type of timber loss is harvested because the dead trees are widely scattered and do not provide concentrations of timber volume sufficient to support a profitable harvest operation.

Timber volume loss to mortality can also occur in high concentrations in localized areas, through epidemic insect infestations such as gypsy moth and spruce budworm, wildfire, windstorms, and geologic events such as earthquakes or volcanic activity. Timber killed, but not destroyed, in such catastrophic events is often salvaged and utilized for timber products. Salvaged timber is usually not inventoried as mortality and appears in data tables as part of removals.

Loss of growing stock to mortality totaled 6.3 billion cubic feet in 1996 (table 33), about 0.76 percent of the growing-stock volume in the United States. The distribution of mortality is consistent and very predictable, absent periodic catastrophes. In 1986, mortality amounted to 0.59 percent of growing stock with variation by region and owner (figures 31 and 32). For both softwoods and hardwoods, and for each owner group, the mortality rate (mortality loss as a percent of growing stock) in 1996 ranged between 0.61 and 0.85 percent. Mortality as a percent of inventory generally increased between 1986 and 1996 for all regions and all ownerships. For the United States as a whole, growing-stock mortality averages 12 cubic feet per acre annually. The mortality was highest in the Pacific Coast region, averaging about 18 cubic feet per acre annually, and lowest in the North, averaging about 10 cubic feet per acre per year.

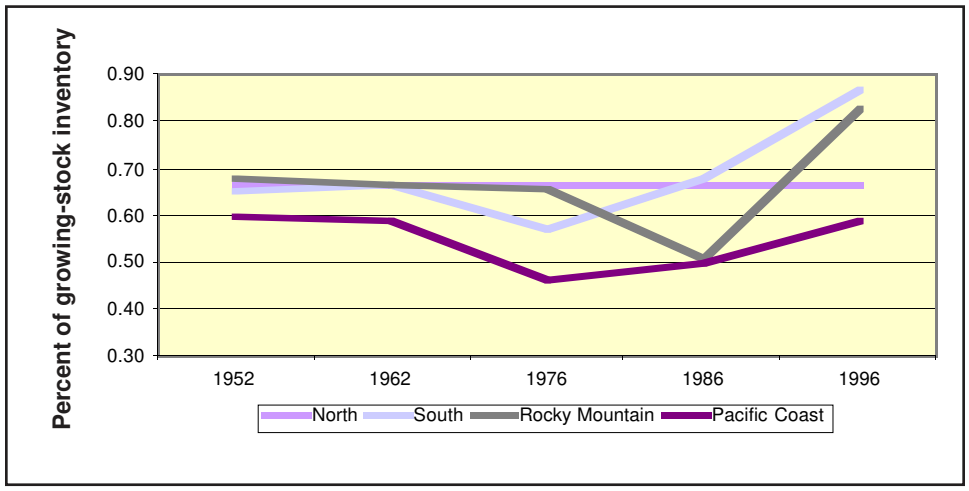


Figure 31 — Mortality as a percent of growing-stock volume by Region, 1997.

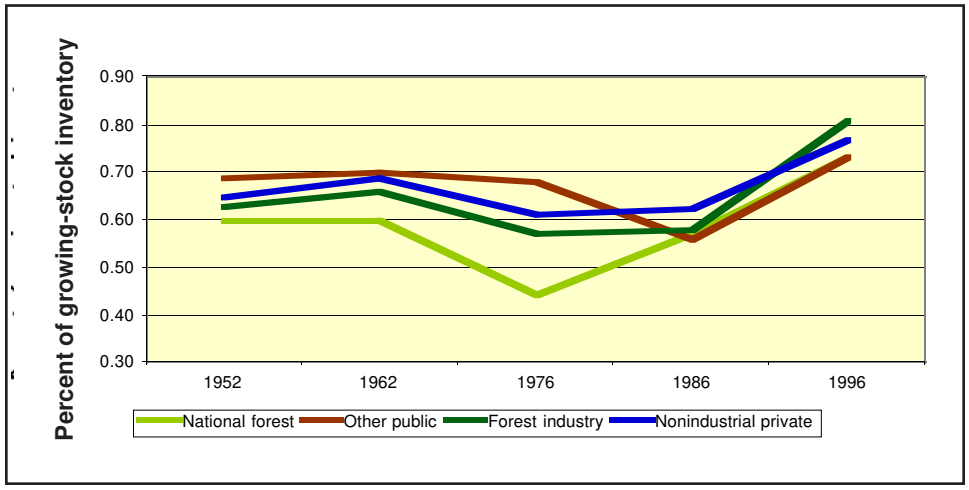


Figure 32 — Mortality as a percent of growing-stock volume by owner group, 1997.

Net Growth

Net growth is a commonly used measure of productivity and performance of timber resources. Net annual growth is annual growing-stock timber volume growth, usually averaged over a period of time, less the volume lost through mortality and increase in cull volume. In other words, it is the net effect of natural gains and losses to growing-stock volume.

Net annual growth totaled 23.5 billion cubic feet in 1996 (table 34); annual growth rate was 2.8 percent. Fifty-five percent of all net annual growth, and nearly three-quarters of all hardwood net annual growth, was on nonindustrial private timberland. Forest industry accounted for 19 percent of all net annual growth and for 25 percent of all softwood net annual growth. These percentages are much larger than the industry's proportionate share of timberland and timber volume.

On a per acre basis, net annual growth on forest industry timberlands averaged 65 cubic feet annually, higher than on any other ownership (figure 33). This reflects the high productivity of timberland in this owner group, as well as the younger age of timber, higher stocking levels, and more intensive levels of management applied to these lands compared with other lands. For example, national forests are generally composed of lands of poorer productivity and many old stands with relatively slow growth. As a consequence, they have the lowest per acre growth of any owner group (43 cubic feet). Nevertheless, some significant areas of both high growth and high productivity do occur on national forest lands, particularly in the Pacific Coast region, and, to a lesser extent, in the South.

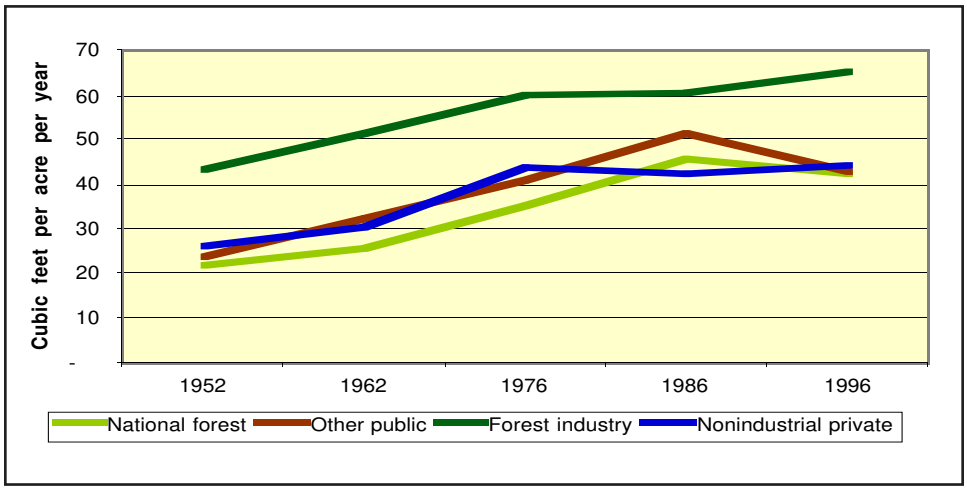


Figure 33 — Average annual growing-stock growth per acre by owner group,

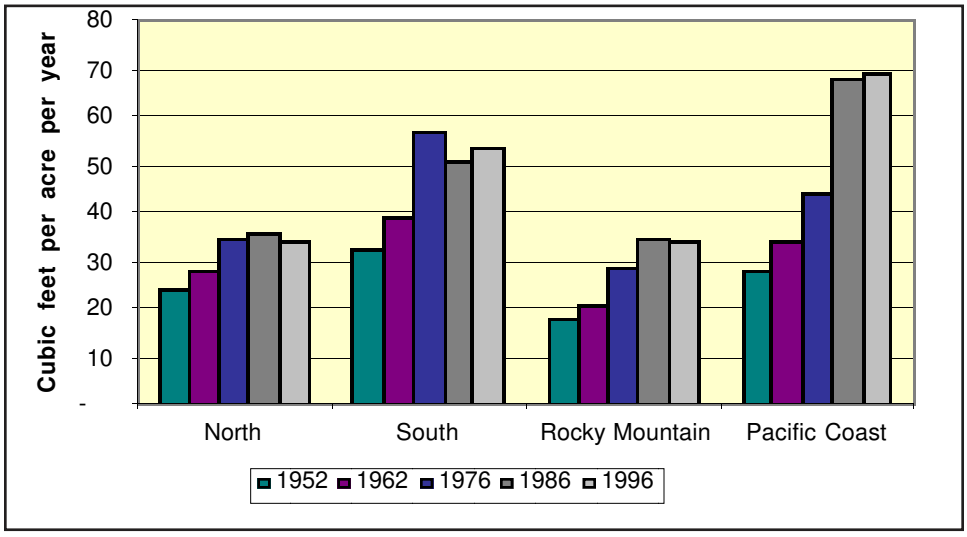


Figure 34 — Average annual growing-stock growth per acre by region, 1952-1996.

Timber growth varies by region (figure 34). The South accounts for over 45 percent of all timber growth, 44 percent of softwood growth, and 47 percent of hardwood growth. The South and North regions combined account for nearly all (89 percent) of the total hardwood growth. The Rocky Mountain and Pacific Coast regions combined have 48 percent of all softwood growth despite having 68 percent of all softwood volume. This is due in part to the higher concentrations of older, slower growing softwood stands in the West.

On a per acre basis for all species, the Pacific Coast region has the highest rate of growth (69 cubic feet per acre per year) of all regions of the country. The Rocky Mountain and North regions have the lowest per acre growth rates of about 34 cubic feet per acre per year.

Total growing-stock growth increased by about 4 percent between 1986 and 1996. The increase was 5.5 percent for hardwoods and 3 percent for softwoods. Small declines occurred for softwoods and hardwoods on other public timberland and for hardwoods on forest industry timberlands.

For hardwoods, net annual growth increased in the North, South, and Rocky Mountain regions and decreased in the Pacific Coast region. For the Pacific Coast region, this is the first recorded decline in net annual growing-stock growth of hardwoods since 1952 when data were first published.

Net growth per acre increased by 0.1 percent in the Pacific Coast region. Per acre net annual growth in the South remains relatively high, with an increase since 1986. Per acre net annual growth has been stable in the Rocky Mountain region. Per acre net annual growth in the North declined by about 6 percent since 1986.

Removals of Timber Volume

Removals from timber inventories are losses that occur by other than natural causes (mortality). Removals from growing-stock volume include: (1) harvest of roundwood products; (2) logging residues; and (3) other removals, such as pre-commercial thinning, and land clearing with resultant removal of timber. Not included are removals on timberlands withdrawn for parks and wilderness. We have focused here on timber removals from growing-stock inventory on timberland that are or can be potentially used for wood products.

Timber removals from growing-stock inventory in 1996 totaled 16.0 billion cubic feet (table 35). Almost 64 percent of all timber removals came from the forests of the South, which continued to increase its share of removals in the United States—up from 51 percent in 1986 and 47 percent in 1976 (figure 35). Sixteen percent of all removals came from the Pacific Coast forests; 17 percent came from the North, and the remaining 3 percent came from forests in the Rocky Mountain region.

Softwoods accounted for 63 percent of all growing-stock removals in 1996. The forests of the South accounted for 64

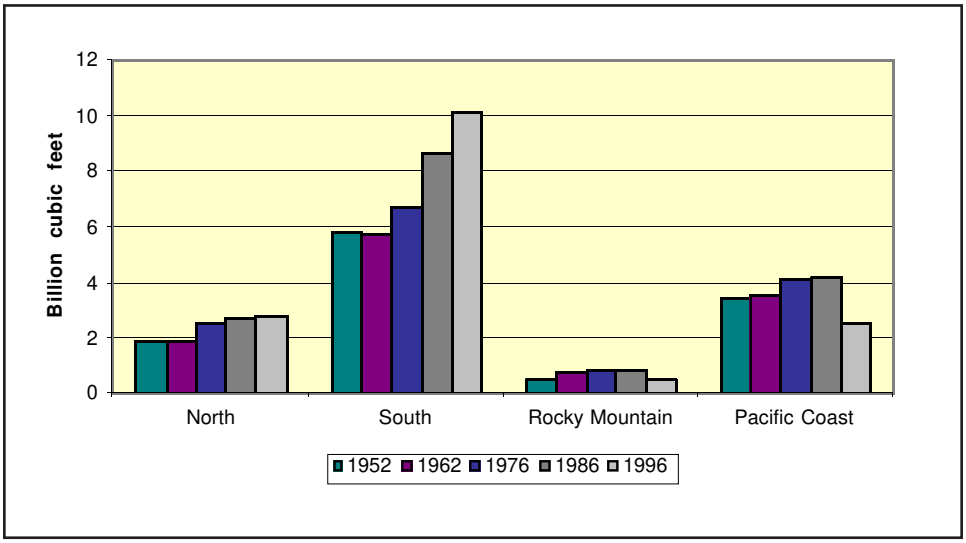


Figure 35 — Trends in timber removals from growing stock by region, 1962-1996.

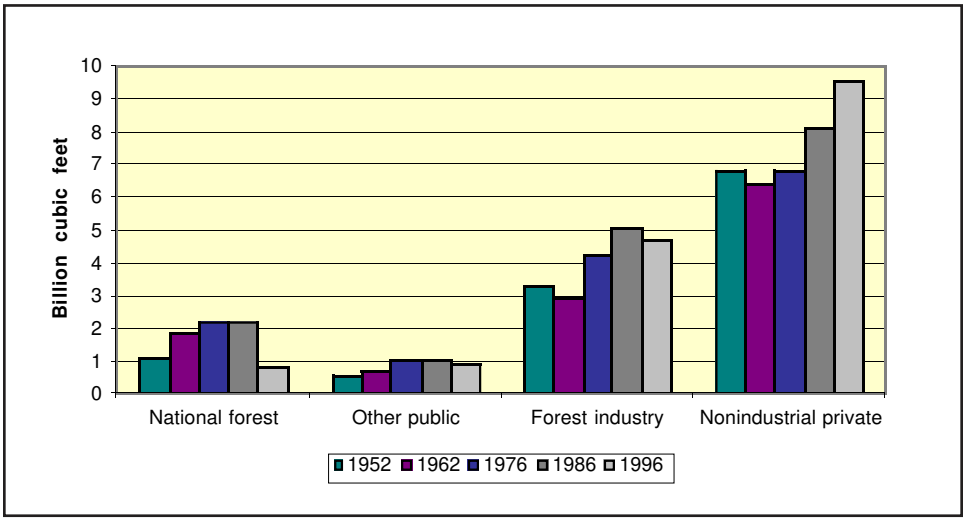


Figure 36 — Trends in timber removals from growing stock by major owner group, 1962-1996.

percent of all softwood removals, the Pacific Coast 24 percent, the Rocky Mountains 5 percent, and the North 7 percent. Hardwood removals in 1996 were centered in the North and South, which accounted for 35 and 62 percent of the United States total, respectively.

Nonindustrial private owners had 59 percent of all timber removals, and industrial forests contributed another 30 percent (figure 36). National forests accounted for 5 percent of total growing-stock removals, and the other public category had 6 percent of total removals in 1996. The national forest total marks a decline from the 13-percent share of total removals this ownership held in 1986.

Forest industry accounted for 37 percent of all softwood removals, nonindustrial private 52 percent, national forests 6 percent, and other public 5 percent. Hardwood removals came primarily from nonindustrial private forests (73 percent), predominantly in the East.

Removals in 1996 were 0.4 percent higher than in 1986**.** Average timber harvest levels have risen each decade since the 1950s.

Hardwood removals in 1996 were higher than in 1986 by nearly 19 percent while softwood removals declined 8 percent. Total removals from national forests declined by 62 percent between 1986 and 1996, softwood removals dropped by 69 percent, and hardwood removals increased by 27 percent. Much of the decrease was the result of administrative appeals and litigation associated with issues related to biodiversity protection and maintenance of habitat for threatened, endangered, and sensitive species. Removals from other public lands were 12 percent lower in 1996 than in 1986. Removals from nonindustrial private lands increased by 17 percent, and forest industry registered a 6-percent decline. Softwood removals were down 13 percent while hardwood removals rose 29 percent on forest industry lands.

In the North, removals changed little between 1986 and 1996. In the South, there was a 24-percent increase, with removals increasing in both subregions. In the Rocky Mountain and Pacific Coast regions, removals declined by 39 percent in each region, primarily because of reductions in timber harvest on Federal lands.

Timber Growth—Removal Balances

From available data, the growth-removal ratio is a coarse-filter measure that approximates the notion of sustainable production: If the Nation is growing more wood than it is cutting, this ratio implies that current levels of wood production are sustainable. Growth is assumed to be a measure of sustainable output. However, the indicator conveys no information about quality, forest types, size, and other attributes of forest inventory, growth, and harvest (figure 37). Data for the Nation as a whole indicate that net annual growth exceeds removals for both softwoods and hardwoods (table 36). In total, the ratio of net annual growth to removals was 1.47 in 1996. The ratio increased for softwoods from 1986 to 1996, reflecting in part decreased harvest on Federal lands.

Especially noteworthy trends include an increase in the ratio for softwoods in the Pacific Coast region and a decrease in this ratio in the South (figure 38). The increase in the Pacific Coast region reflects decreased harvesting on public lands and increased growth on timber stands that were regenerated after harvest during the past century. The decrease in the South reflects increased harvesting, especially during the past 25 years. Current growth measures in the South do not reflect anticipated growth on millions of acres of plantations expected to reach maturity over the coming decades.

The current ratios by ownership exceed 1.0 for all owner groups except forest industry (0.92) (figure 39). The 1996 growth-removals ratio is 5.0 for national forests; 2.29 for other public forests; and 1.36 for all species on nonindustrial private forests (1.4 for softwoods and 1.75 for hardwoods).

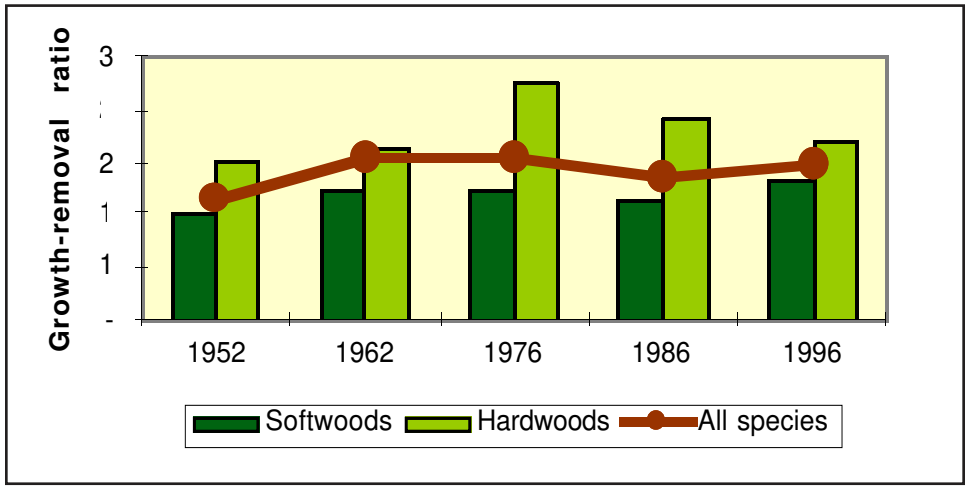


Figure 37 — Growth-removal ratios by softwoods and hardwoods, 1952-1996.

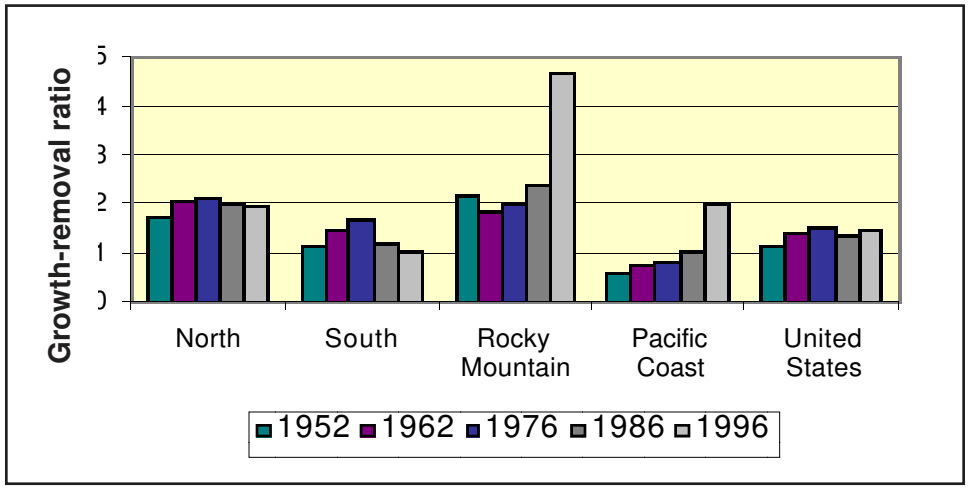


Figure 38 — Growth-removal ratios by major region, 1952-1996.

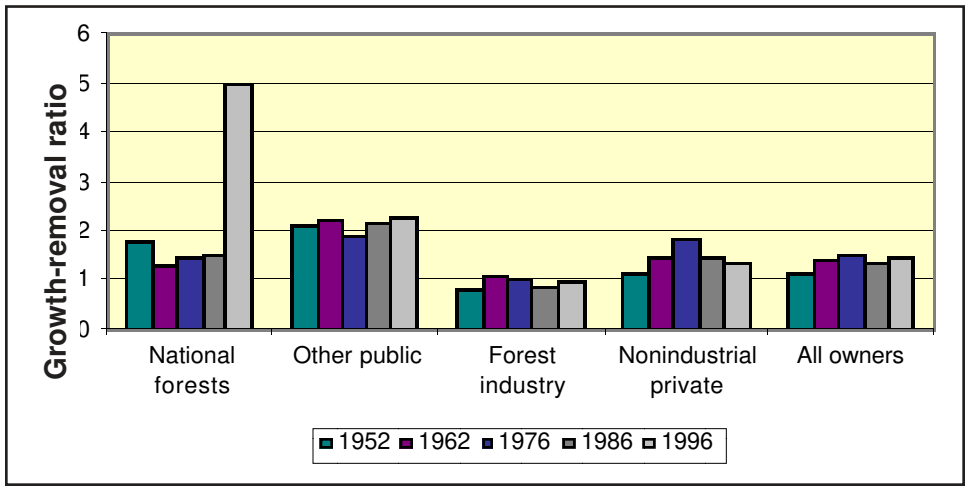


Figure 39 — Growth-removal ratios by timberland ownership group, 1952-1996.

Timber Products Output

Products from Growing Stock and Other Sources

Making products from roundwood has evolved over time. In the 1700s and 1800s, the uses of wood for fuel, fences, and railroad cross ties were especially important at various times. Over the past decades, the use of wood has continued to evolve as new products have been developed, applications have changed, and uses have waxed or waned. Pulpwood as a percent of the roundwood harvest on timberland increased from 15.7 percent in 1952 to 30.7 percent in 1996, for example (figure 40).

Attention is focused on roundwood products from growing stock because this harvest affects growing-stock inventories. These inventories are tracked and studied because of their commercial importance. However, roundwood products also are made from such nongrowing-stock sources as dead trees, live cull trees that are largely rotten or are rough in form, very small trees, trees of seldom used species, and trees from nonforest land (fencerows, etc.).

In 1996, roundwood products from all domestic sources in the United States totaled 16.4 billion cubic feet, of which growing-stock trees accounted for 84 percent (table 39 and figure 41). Nine percent of all softwood roundwood products came from non-growing stock. The situation was different for hardwoods, however, where 26 percent of roundwood products came from non-growing stock sources.

Saw logs accounted for the largest share of roundwood harvested in 1996—43 percent. This roundwood product, used in the production of lumber, accounted for 51 percent of all softwood harvested and 31 percent of all hardwood harvest.

Pulpwood roundwood (including composite products) accounted for 33 percent of total timber harvest in the United States in 1996. Almost 57 percent of the pulpwood harvested was softwoods. Ninety-eight percent of all pulpwood roundwood was harvested in the Eastern United States—the South accounts for 77 percent. Although the Pacific Coast region has a substantial pulp industry, most of the wood raw material is from chips produced as the byproduct of lumber manufacturing.

Veneer logs accounted for 8 percent of the roundwood harvested, while other products such as cooperage, mine timbers, poles, pilings, posts, shakes, shingles, and logs for export accounted for the remaining 2 percent. Softwoods dominated both veneer logs and other products—87 and 97

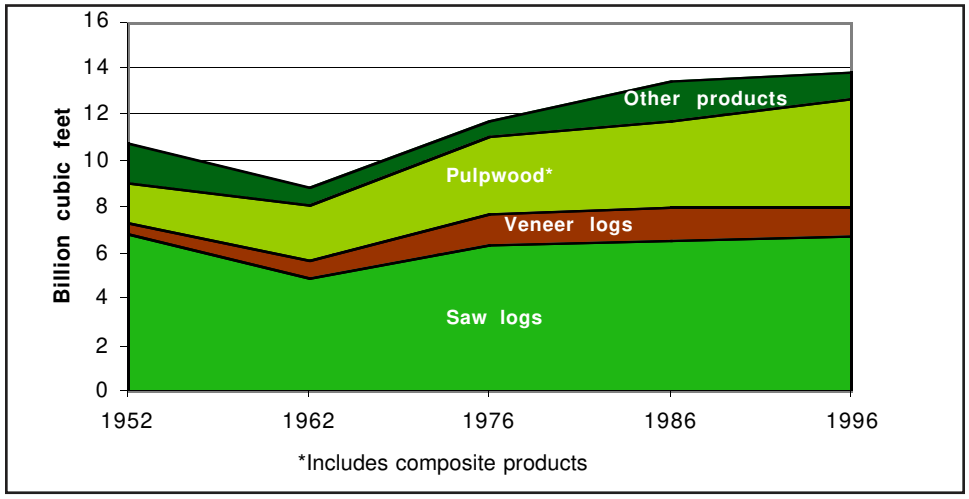


Figure 40 — Growing stock harvested for products, 1952-1996.

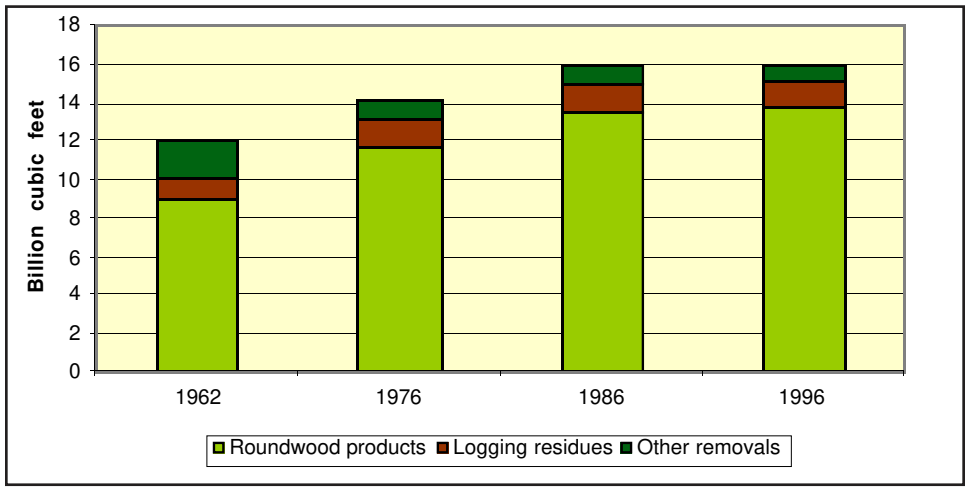


Figure 41 — Disposition of growing stock harvested for products, 1962-1996.

percent, respectively. The South and Pacific Coast regions together produced over 90 percent of all veneer logs harvested in 1996. Forty-six percent of the harvest for other products was concentrated in the Pacific Coast, and was mostly logs for export.

Logging Residues

Logging resides are materials removed from growing stock in the process of timber harvest, which are left unutilized at the harvest site. Since 1986, the proportion of softwoods left as logging residues has decreased from 16 to 11 percent. The volume of hardwood logging residue as a percent of total hardwood removals increased from 17.1 to 22 percent (table 40). In the Pacific Coast region, logging residues were 11 percent of total removals. In the South and North, logging residues were 12 and 27 percent, respectively, of total removals.

In the eastern part of the United States, hardwood logging residues totaled 2.0 billion cubic feet, and accounted for 27 percent and 18 percent of hardwood removals in the North and South, respectively. Softwood logging residue in the South amounted to 8 percent of softwood removals.

Other Removals

Other removals consist largely of growing stock cut and burned or otherwise destroyed in the process of converting forest land to nonforest uses. Another source of other removals is growing stock removed in forestry cultural operations such as precommercial thinning. In 1996, 6 percent of all growing-stock removals fell into this other removals category. Only 4 percent of softwood removals were in this category, but 10 percent of hardwood removals were so classified. Ninety-eight percent of the hardwood growing stock lost to other removals was in the South and the North. The losses in both regions were due largely to conversion of forests to various nonforest land uses such as residential subdivisions.

Most of the softwood growing stock classified as other removals in 1996 was in the South (96 percent). This likely was scattered softwoods in predominately hardwood stands that were converted to nonforest uses.

When timberland is converted to nonforest use, some wood raw material is usually destroyed in the process. But wood that is valuable for manufacturing products, if in economic concentrations, is often utilized and is included in the roundwood products category of removals.

References

Bailey, Robert G. 1995. **Description of the ecoregions of the United States**. Misc. Publ. 1391. Washington, DC: U.S. Department of Agriculture, Forest Service. 108 p. + map.

Birch, Thomas W. 1996. **Private forest land owners of the United States, 1994**. Resour. Bull. NE-134. Radnor, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 183 p.

Butler, M.A.; Beale, C.L. 1993. **Rural-urban continuum codes for metro and non-metro counties, 1993**. Staff Report. U.S. Department of Agriculture, Economic Research Service, Agriculture and Rural economy division.

Clawson, M. 1979. **Forests in the long sweep of American history**. Science. 204: 1168-1174.

Eyre, F.H., ed. 1980. **Forest cover types of the United States and Canada**. Bethesda, MD: Society of American Foresters. 148 p. +1 map sheet.

Fedkiw, J. 1989. **The evolving use and management of the nation's forests, grasslands, croplands, and related resources**. Gen. Tech. Rep. RM-175. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station. 66 p.

Frederick, K.D.; Sedjo, R.A., eds. 1991. **America's renewable resources: historical trends and current challenges**. Washington, DC: Resources for the Future. 296 p.

Kellogg, R.S. 1909. **The timber supply of the United States**. For. Resour. Circ. 166. Washington, DC: U.S. Department of Agriculture, Forest Service. 24 p.

Little, Elbert 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.

MacCleery, Douglas W. 1992. **American forests: a history of resiliency and recovery**. FS-540. Washington, DC: U.S. Department of Agriculture, Forest Service. 58 p.

May, Dennis M. 1998. **The North Central Forest Inventory and Analysis timber product output base—a regional composite approach**. Gen. Tech. Rep. NC-200. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station. 16 p.

Oswald, Daniel D. 1990. **Chapter 3—Domestic timber resources**. In: Haynes, Richard W., coord. An analysis of the timber situation in the United States: 1989-2040. Gen. Tech. Rep. RM-199. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station: 43-58.

Powell, Douglas S.; Faulkner, Joanne L.; Darr, David R.; Shu, Zhilang; MacCleery, Douglas W. 1994. **Forest resources of the United States, 1992**. Gen. Tech. Rep. RM-234. Ft. Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station. 132 p.

Shands, W.E. 1991. **The lands nobody wanted: the legacy of the eastern national forests**. Presented at the symposium, The origins and significance of the national forests; 1991 June 20-22; Missoula, MT: University of Montana.

Siry, J. 2001. **TIMOS southern forest lands management survey—preliminary results**. Presentation given at the annual Southern Forest Resource Assessment Consortium (SOFAC) meeting; 2001 February 8-9; Research Triangle Park, NC. Available from Department of Forestry, North Carolina State University, Raleigh, NC 27695-8008.

Smith, W. Brad. 1991. **Assessing removals for North Central forest inventories**. Res. Pap. NC-299. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 48 p.

Steen, Harold K. 1976. **The U.S. Forest Service: a history**. Seattle, WA: University of Washington Press.

U.S. Congress. 1938. Data presented in the **Report of the Joint Committee on Forestry**. 77th Congress, 1st Session. Document No. 32.

U.S. Department of Agriculture, Forest Service. 1958. **Timber resource for America's future**. For. Resour. Rep. 14. Washington, DC: U.S. Department of Agriculture, Forest Service. 713 p.

U.S. Department of Agriculture, Forest Service. 1965. **Timber trends in the United States**. For. Resour. Rep. 17. Washington, DC: U.S. Department of Agriculture, Forest Service. 235 p.

U.S. Department of Agriculture, Forest Service. 1982. **Analysis of the timber situation in the United States, 1952-2030**. For. Resour. Rep. 23. Washington, DC: U.S. Department of Agriculture, Forest Service. 499 p.

U.S. Department of Agriculture, Forest Service. Annual. **Tree planting in the United States**. Washington, DC: Cooperative Forestry, State and Private Forestry.

Waddell, Karen L.; Oswald, Daniel D.; Powell, Douglas S. 1989. **Forest statistics of the United States, 1987**. Resour. Bull. PNW-168. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 106 p.

Williams, M. 1989. **Americans and their forests: an historical geography**. New York, NY: Cambridge University Press.

Zhu, Zhiliang; Evans, David L. 1992. **Mapping midsouth forest distributions with AVHRR data**. Journal of Forestry. 90(12): 27-30.

Glossary

Annual mortality—The average annual volume of sound wood in growing-stock trees that died from natural causes during the period between inventories.

Annual removals—The net volume of growing-stock trees removed from the inventory during a specified year by harvesting, cultural operations such as timber stand improvement, or land clearing.

Bureau of Land Management (BLM)—An ownership class of Federal lands administered by the Bureau of Land Management, U.S. Department of the Interior.

Coarse materials—Wood residues suitable for chipping, such as slabs, edgings, and trimmings.

Commercial species—Tree species suitable for industrial wood products.

County and municipal—An ownership class of public lands owned by counties or local public agencies, or lands leased by these governmental units for more than 50 years.

Cull tree—A live tree, 5.0 inches in diameter at breast height (d.b.h.) or larger, that is unmerchantable for saw logs now or prospectively because of rot, roughness, or species. (See definitions for rotten and rough trees.)

Diameter class—A classification of trees based on diameter outside bark measured at breast height (4-1/2 feet above ground). D.b.h. is the common abbreviation for "diameter at breast height." With 2-inch diameter classes, the 6-inch class, for example, includes trees 5.0 through 6.9 inches d.b.h.

Federal—An ownership class of public lands owned by the U.S. Government.

Fiber products—Products derived from wood and bark residues, such as pulp, composition board products, and wood chips for export.

Fine materials—Wood residues not suitable for chipping, such as planer shavings and sawdust.

Forest industry—An ownership class of private lands owned by companies or individuals operating wood-using plants.

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

Forest type—A classification of forest land based on the species presently forming a plurality of the live-tree stocking.

Forest type group—A combination of forest types that share closely associated species or site requirements and are generally combined for brevity of reporting.

Major eastern forest type groups:

White-red-jack pine—Forests in which eastern white pine, red pine, or jack pine, singly or in combination, comprise a plurality of the stocking. Common associates include hemlock, aspen, birch, and maple.

Spruce-fir—Forests in which spruce or true firs, singly or in combination, comprise a plurality of the stocking. Common associates include white cedar, tamarack, maple, birch, and hemlock.

Longleaf-slash pine—Forests in which longleaf or slash pine, singly or in combination, comprise a plurality of the stocking. Common associates include other southern pines, oak, and gum.

Loblolly-shortleaf pine—Forests in which loblolly pine, shortleaf pine, or southern yellow pines, except longleaf or slash pine, singly or in combination, comprise a plurality of the stocking. Common associates include oak, hickory, and gum.

Oak-pine—Forests in which hardwoods (usually upland oaks) comprise a plurality of the stocking, but in which pine or eastern redcedar comprises 25-50 percent of the stocking. Common associates include gum, hickory, and yellow-poplar.

Oak-hickory—Forests in which upland oaks or hickory, singly or in combination, comprise a plurality of the stocking except where pines comprise 25-50 percent, in which case the stand is classified as oak-pine. Common associates include yellow-poplar, elm, maple, and black walnut.

Oak-gum-cypress—Bottomland forests in which tupelo, blackgum, sweetgum, oaks, or southern cypress, singly or in combination, comprise a plurality of the stocking except where pines comprise 25-50 percent, in which case the stand is classified as oak-pine. Common associates include cottonwood, willow, ash, elm, hackberry, and maple.

Elm-ash-cottonwood—Forests in which elm, ash, or cottonwood, singly or in combination, comprise a plurality of the stocking. Common associates include willow, sycamore, beech, and maple.

Maple-beech-birch—Forests in which maple, beech, or yellow birch, singly or in combination, comprise a plurality of the stocking. Common associates include hemlock, elm, basswood, and white pine.

Aspen-birch—Forests in which aspen, balsam poplar, paper birch, or gray birch, singly or in combination, comprise a plurality of the stocking. Common associates include maple and balsam fir.

Major western forest type groups:

Douglas-fir—Forests in which Douglas-fir comprises a plurality of the stocking. Common associates include western hemlock, western redcedar, the true firs, redwood, ponderosa pine, and larch.

Hemlock-Sitka spruce—Forests in which western hemlock and/or Sitka spruce comprise a plurality of the stocking. Common associates include Douglas-fir, silver fir, and western redcedar.

Redwood—Forests in which redwood comprises a plurality of the stocking. Common associates include Douglas-fir, grand fir, and tanoak.

Ponderosa pine—Forests in which ponderosa pine comprises a plurality of the stocking. Common associates include Jeffrey pine, sugar pine, limber pine, Arizona pine, Apache pine, Chihuahua pine, Douglas-fir, incense-cedar, and white fir.

Western white pine—Forests in which western white pine comprises a plurality of the stocking. Common associates include western redcedar, larch, white fir, Douglas-fir, lodgepole pine, and Engelmann spruce.

Lodgepole pine—Forests in which lodgepole pine comprises a plurality of the stocking. Common associates include alpine fir, western white pine, Engelmann spruce, aspen, and larch.

Larch—Forests in which western larch comprises a plurality of the stocking. Common associates include Douglas-fir, grand fir, western redcedar, and western white pine.

Fir-spruce—Forests in which true firs, Engelmann spruce, or Colorado blue spruce, singly or in combination, comprise a plurality of the stocking. Common associates include mountain hemlock and lodgepole pine.

Western hardwoods—Forests in which aspen, red alder, or other western hardwoods, singly or in combination, comprise a plurality of the stocking.

Chaparral—Forests of heavily branched, dwarfed trees or shrubs, usually evergreen, the crown canopy of which at maturity covers more than 50 percent of the ground and whose primary value is watershed protection. The more common chaparral constituents are species of *Quercus, Cercocarpus, Garrya, Ceanothus, Arctostaphylos,* and *Adenostoma*. Types dominated by such shrubs as *Artemisia, Chrysothamnus, Purshia, Gutierrezia*, or semidesert species are not commonly considered chaparral.

Pinyon-juniper—Forests in which pinyon or juniper, or both, comprise a plurality of the stocking.

Other softwoods—Forests in which other softwood species not mentioned above comprise a plurality of the stocking. These are primarily black spruce forests in interior Alaska.

Fuelwood—Wood used for conversion to some form of energy, primarily in residential use.

Growing stock—A classification of timber inventory that includes live trees of commercial species meeting specified standards of quality or vigor. Cull trees are excluded. When associated with volume, includes only trees 5.0 inches d.b.h. and larger.

Hardwood—A dicotyledonous tree, usually broad-leaved and deciduous.

Industrial wood—All commercial roundwood products except fuelwood.

International 1/4-inch rule—A log rule, or formula, for estimating the board-foot volume of logs. The mathematical formula is:

$$(0.22D^2 - 0.17D)(0.904762),$$

for 4-foot sections, where D = diameter inside bark at the small end of the section.

Land area—The area of dry land and land temporarily or partly covered by water, such as marshes, swamps, and river flood plains; streams, sloughs, estuaries, and canals less than 200 feet wide; and lakes, reservoirs, and ponds less than 4.5 acres in area.

Live cull—A classification that includes live, cull trees. When associated with volume, it is the net volume in live, cull trees that are 5.0 inches d.b.h. and larger.

Logging residues—The unused portions of growing-stock trees cut or killed by logging and left in the woods.

Lowland forest types— Generally refers to the elm-ash-cottonwood and oak-gum-cypress forest types.

National forest—An ownership class of Federal lands, designated by Executive order or statute as national forests or purchase units, and other lands under the administration of the Forest Service including experimental areas and Bankhead-Jones Title III lands.

Native American land—(a) Lands held in trust by the United States or individual States for Native American tribes or individual Native Americans; (b) Lands owned in fee by Native American tribes whether subject to Federal or State restrictions against alienation or not.

Net annual growth—The average annual net increase in the volume of trees during the period between inventories. Components include the increment in net volume of trees at the beginning of the specific year surviving to its end, plus the net volume of trees reaching the minimum size class during the year, minus the volume of trees that died during the year, and minus the net volume of trees that became cull trees during the year.

Net volume in board feet—The gross board-foot volume of the saw log portion of live sawtimber trees less deductions for rot or other defect affecting use for lumber.

Net volume in cubic feet—The gross volume in cubic feet less deductions for rot, roughness, and poor form. Volume is computed for the central stem from a 1-foot stump to a minimum 4.0-inch top diameter outside bark, or to the point where the central stem breaks into limbs.

Noncommercial species—Tree species of typically small size, poor form, or inferior quality, which normally do not develop into trees suitable for industrial wood products.

Nonforest land—Land that has never supported forests and lands formerly forested where use of timber management is precluded by development for other uses. (Note: Includes area used for crops, improved pasture, residential areas, city parks, improved roads of any width and adjoining clearings, powerline clearings of any width, and 1- to 4.5-acre areas of water classified by the Bureau of the Census as land. If intermingled in forest areas, unimproved roads and nonforest strips must be more than 120 feet wide, and clearings, etc., must be more than 1 acre in area, to qualify as nonforest land.)

Nonindustrial private—An ownership class of private lands where the owner does not operate wood-using plants.

Nonstocked areas—Timberland less than 10 percent stocked with all live trees.

Other Federal—An ownership class of Federal lands other than those administered by the Forest Service or the Bureau of Land Management. This category includes the National Park Service, Fish and Wildlife Service, Departments of Defense and Energy, and miscellaneous Federal ownerships.

Other forest land—Forest land other than timberland and productive reserved forest land. It includes available forest land, which is incapable of annually producing 20 cubic feet per acre of industrial wood under natural conditions because of adverse site conditions such as sterile soils, dry climate, poor drainage, high elevation, steepness, or rockiness.

Other land—Nonforest land less the area in streams, sloughs, estuaries, and canals between 120 and 200 feet wide and lakes, reservoirs, and ponds between 1 and 4.5 acres in area.

Other private—An ownership class of private lands that are not owned by forest industry or farmers.

Other products—A miscellaneous category of roundwood products that includes such items as cooperage, pilings, poles, posts, shakes, shingles, board mills, charcoal, and export logs.

Other public—An ownership class that includes all public lands except national forests. This category generally includes State, county, and municipal ownerships.

Other red oaks—A group of species in the genus *Quercus* that includes scarlet oak, northern pin oak, southern red oak, bear oak, shingle oak, laurel oak, blackjack oak, water oak, pin oak, willow oak, and black oak.

Other removals—Unutilized wood volume from cut or otherwise killed growing-stock, from cultural operations such as precommercial thinnings, or from timberland clearing. Does not include volume removed from inventory through reclassification of timberland to productive reserved forest land.

Other sources—Sources of roundwood products that are non-growing-stock. These include salvable dead trees, rough and rotten trees, trees of noncommercial species, trees less than 5.0 inches d.b.h., tops, and roundwood harvested from nonforest land (for example, fence rows).

Other white oaks—A group of species in the genus *Quercus* that includes overcup oak, chestnut oak, and post oak.

Ownership—The property owned by one ownership unit, including all parcels of land in the United States.

Ownership unit—A classification of ownership encompassing all types of legal entities having an ownership interest in land, regardless of the number of people involved. A unit may be an individual; a combination of persons; a legal entity such as a corporation, partnership, club, or trust; or a public agency. An ownership unit has control of a parcel or group of parcels of land.

Planted forest—Planted forests are areas deemed to be forest by RPA definition and made up of at least 40 percent planted trees of either native or exotic species. Planted forests may be divided into two groups:

> **Plantations**—Forest stands consisting almost exclusively of planted trees, of native or exotic species, and intensively managed to maintain this composition to maturity. Management practices may include extensive site preparation prior to planting and suppression of competing vegetation.
>
> **Augmented forest**—Forest stands consisting of at least 40 percent planted trees, of native or exotic species, but not intensively managed to assure dominance of these trees in the stand at maturity. Management practices may include suppression of competing vegetation at the time of planting.

Poletimber trees—Live trees at least 5.0 inches in d.b.h., but smaller than sawtimber trees.

Primary wood-using mill—A mill that converts roundwood products into other wood products. Common examples are sawmills that convert saw logs into lumber and pulpmills that convert pulpwood into wood pulp.

Productivity class—A classification of forest land in terms of potential annual cubic-foot volume growth per acre at culmination of mean annual increment in fully stocked natural stands.

Pulpwood—Roundwood, whole-tree chips, or wood residues that are used for the production of wood pulp.

Reserved forest land—Forest land withdrawn from timber utilization through statute, administrative regulation, or designation without regard to productive status.

Residues—Bark and woody materials that are generated in primary wood-using mills when roundwood products are converted to other products. Examples are slabs, edgings, trimmings, miscuts, sawdust, shavings, veneer cores and clippings, and pulp screenings. Includes bark residues and wood residues (both coarse and fine materials) but excludes logging residues.

Rotten tree—A live tree of commercial species that does not contain a saw log now or prospectively primarily because of rot (that is, when rot accounts for more than 50 percent of the total cull volume).

Rough tree—(a) A live tree of commercial species that does not contain a saw log now or prospectively primarily because of roughness (that is, when sound cull due to such factors as poor form, splits, or cracks accounts for more than 50 percent of the total cull volume) or (b) a live tree of noncommercial species.

Roundwood products—Logs, bolts, and other round timber generated from harvesting trees for industrial or consumer use.

Rural-urban continuum—A classification of U.S. counties by urban characteristic as described by Butler and Beale (1993). Classes are generically defined as follows:

Major metro

Major metro- Central: Central counties of metropolitan areas of 1 million population or more

Major metro- Fringe: Fringe counties of metropolitan areas of 1 million population or more

Intermediate and small metro

Intermediate metro: Counties in metropolitan areas of 250,000 - 1,000,000 population

Small metro: Counties in metropolitan areas of less than 250,000 population

Large town

Large town metro: Urban population of 20,000 or more, adjacent to a metropolitan area

Large town nonmetro: Urban population of 20,000 or more, not adjacent to a metropolitan area

Small town

Small town metro: Urban population of 2,500-19,999, adjacent to a metropolitan area

Small town nonmetro: Urban population of 2,500-19,999, not adjacent to a metropolitan area

Rural

Rural metro: Completely rural (no places with a population of 2,500 or more) adjacent to a metropolitan area

Rural nonmetro: Completely rural (no places with a population of 2,500 or more) not adjacent to a metropolitan area

Salvable dead tree—A downed or standing dead tree that is considered currently or potentially merchantable by regional standards.

Saplings—Live trees 1.0 inch through 4.9 inches d.b.h.

Saw log—A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with a minimum diameter inside bark of 6 inches for softwoods and 8 inches for hardwoods, or meeting other combinations of size and defect specified by regional standards.

Sawtimber—A classification of timber inventory that is composed of sawtimber trees of commercial species.

Sawtimber trees—Live trees containing at least one 12-foot saw log or two noncontiguous 8-foot logs, and meeting regional specifications for freedom from defect. Softwood trees must be at least 9.0 inches d.b.h., and hardwood trees must be at least 11.0 inches d.b.h.

Seedlings—Live trees less than 1.0 inch d.b.h. and at least 1 foot in height.

Select red oaks—A group of species in the genus *Quercus* that includes cherrybark oak, northern red oak, and Shumard oak.

Select white oaks—A group of species in the genus *Quercus* that includes white oak, swamp white oak, bur oak, swamp chestnut oak, and chinkapin oak.

Softwood—A coniferous tree, usually evergreen, having needles or scale-like leaves.

Sound dead—The net volume in salvable dead trees.

Stand size class—A classification of forest land based on the size class of all live trees in the area. The classes include:

Nonstocked stands—Forest land that is stocked with less than 10 percent of full stocking with all live trees. Examples are recently cut-over areas or reverting agricultural fields.

Seedling-sapling stands—Forest land that is stocked with at least 10 percent of full stocking with all live trees with half or more of such stocking in seedlings or saplings or both.

Poletimber stands—Forest land that is stocked with at least 10 percent of full stocking with all live trees with half or more of such stocking in poletimber or sawtimber trees or both, and in which the stocking of poletimber exceeds that of sawtimber.

Sawtimber stands—Forest land that is stocked with at least 10 percent of full stocking with all live trees with half or more of such stocking in poletimber or sawtimber trees or both, and in which the stocking of sawtimber is at least equal to that of poletimber.

State—An ownership class of public lands owned by States or lands leased by States for more than 50 years.

Stocking—The degree of occupancy of land by trees, measured by basal area or number of trees by size and spacing, or both, compared to a stocking standard; that is, the basal area or number of trees, or both, required to fully utilize the growth potential of the land.

Timberland—Forest land that is producing or is capable of producing crops of industrial wood and not withdrawn from timber utilization by statute or administrative regulation. (Note: Areas qualifying as timberland are capable of producing in excess of 20 cubic feet per acre per year of industrial wood in natural stands. Currently inaccessible and inoperable areas are included.)

Tops—The wood of a tree above the merchantable height (or above the point on the stem 4.0 inches diameter outside bark [d.o.b.]). It includes the usable material in the uppermost stem.

Unreserved forest land—Forest land that is not withdrawn from harvest by statute or administrative regulation. Includes forest lands that are not capable of producing in excess of 20 cubic feet per acre per year of industrial wood in natural stands.

Veneer log—A roundwood product from which veneer is sliced or sawn and that usually meets certain standards of minimum diameter and length and maximum defect.

Weight—The weight of wood and bark, oven-dry basis (approximately 12 percent moisture content).

Xerophytic plants—Plants growing where soil moisture conditions are very dry most of the time.

Appendix A: Procedures for the Update

Timing of Inventory Data

The tables in this report are dated 1997 for area and volume and 1996 for growth, mortality, and removals. These dates are used as nominal dates for national reporting. Actual inventory for a particular State is the most recent inventory available and may not have been collected in 1996-97. Until recently, forest inventory in the United States has been a cyclic process with new inventories conducted in each State every 10-12 years. When national statistics are compiled, these data are updated to the extent possible. Tables in this appendix describe when the inventories actually occurred and whether they have been updated for this report.

Adjustments to Historic Inventory Data

Historic data presented in this report for previous national assessments may be adjusted from those found in the original publications. Generally, this is due to changes in data classifications, regional reporting boundaries, or occasionally when data are deemed to be inaccurate due to errors in reporting.

The Database

In 1987, the first national database was developed for the assessment. It was a summary database that placed all inventory data in a common format at the State/owner level of resolution. In 1992, the summary database was made available online. For 1997, standard Eastwide and Westwide data files were used wherever possible as a basis for county level summary.

The complete RPA logical database for 1997 is composed of four physical databases. The first two physical databases are the Eastwide and Westwide standard databases. Eastwide databases are available for all States in the North and South and are summarized to compile the county level data in the national summary database. Westwide standard files are available for all non-NFS lands in the West except Alaska and Hawaii and for NFS lands in Oregon, Washington, Utah, and Arizona. The remaining areas compiled multi-county summary data from historic inventory records. The third database is the national timber products output database composed of data from surveys of primary wood-using facilities (sawmills, pulpmills, veneer mills, chip mills, etc.) as well as residential fuelwood and post producers (Smith 1991 and May 1998). This database provides county level removals data for the United States. The fourth database is the national summary database that draws upon each of the other physical databases as well as "value-added" data from the Bureau of the Census such as total county land area, county latitude and longitude envelope, and population. The national summary database is available via the Internet and can provide data at the county level for most of the United States. The exceptions to this general rule are areas of the interior West and Alaska where data are stored in multi-county groups.

For more information on these databases, log on to http://fia.fs.fed.us. Further information on data collection procedures is available from the USDA Forest Service Research Stations and Regions listed in tables A-1 and A-2.

Appendix Table A-1. Addresses of USDA Forest Service Research Stations with responsibilities for forest inventories in the United States and their areas of responsibility[a]

Address	Areas of responsibility
Northeastern Research Station 11 Campus Boulevard Newtown Square, PA 19073	Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, and West Virginia
North Central Research Station 1992 Folwell Avenue St. Paul, MN 55108	Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, and Wisconsin
Southern Research Station 200 Weaver Blvd. P.O. Box 2680 Asheville, NC 28802	Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and Puerto Rico
Pacific Northwest Research Station P.O. Box 3890 Portland, OR 97208	Alaska, California, Hawaii, Oregon, and Washington
Rocky Mountain Research Station Natural Resources Research Center 2150 Centre Avenue, Building A Fort Collins, CO 80526-2098	Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming

[a] *For additional information, visit the Forest Inventory and Analysis Web site: www.fia.fs.fed.us.*

Appendix Table A-2. Addresses of National Forest System regional offices in the United States

Address	Region	Location of National Forests
Forest Service, USDA Northern Region Federal Building P.O. Box 7669 Missoula, MT 59807	Region 1	Montana, northern Idaho, North Dakota, and northwestern South Dakota
Forest Service, USDA Rocky Mountain Region 11177 West 8th Avenue P.O. Box 25127 Lakewood, CO 80225	Region 2	Colorado, Kansas, Nebraska, South Dakota, and eastern Wyoming
Forest Service, USDA Southwestern Region Federal Building 517 Gold Avenue S.W. Albuquerque, NM 87102	Region 3	Arizona and New Mexico
Forest Service, USDA Intermountain Region Federal Building 324 25th Street Ogden, UT 84401	Region 4	Southern Idaho, Nevada, Utah, and western Wyoming
Forest Service, USDA Pacific Southwest Region 1323 Club Drive Vallejo, CA 94592	Region 5	California
Forest Service, USDA Pacific Northwest Region 333 S.W. 1st Avenue P.O. Box 3623 Portland, OR 97208	Region 6	Oregon and Washington
Forest Service, USDA Southern Region 1720 Peachtree Road, N.W. Atlanta, GA 30309	Region 8	Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Oklahoma, Tennessee, Texas, Virginia, West Virginia, and Puerto Rico
Forest Service, USDA Eastern Region 310 West Wisconsin Avenue Room 580 Milwaukee, WI 53203	Region 9	Connecticut, Delaware, Illinois, Indiana, Iowa Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, New Hampshire, New Jersey New York, Ohio, Pennsylvania, Rhode Island, Vermont, West Virginia, and Wisconsin
Forest Service, USDA Alaska Region P.O. Box 21628 Juneau, AK 99802-1628	Region 10	Alaska

For additional information, contact the Internet sites for the regional offices through the USDA Forest Service home page: http://www.fs.fed.us. Timber inventories are managed by the forest management staff in each regional office.

Some inventories reported in this document were not actually conducted in 1996-1997, but rather data were collected periodically. A full accounting of the inventory status for national forests, States (non-national forest), and timber products output data found in this report is provided in this appendix.

Appendix Table A-3. Dates of source data for RPA inventory and removals statistics

	Forest inventory data		Timber products output (removals) data			
Region/State	Non-NFS lands	NFS lands	Pulpwood	Saw logs/ Veneer	Fuelwood	Other products
Northeast:						
Connecticut	1985		1996	1984*u*	1984	1984*u*
Delaware	1986		1996	1985*u*	1985	1985*u*
Maine	1995	1995	1996	1995	1995	1995
Maryland	1986	1986	1996	1985*u*	1985	1985*u*
Massachusetts	1985	1985	1996	1984*u*	1984	1984*u*
New Hampshire	1997	1997	1996	1996	1996	1996
New Jersey	1986		1996	1986*u*	1986	1986*u*
New York	1993	1995	1996	1993*u*	1993	1993*u*
Pennsylvania	1989	1995	1996	1988*u*	1988	1988*u*
Rhode Island	1985	1985	1996	1984*u*	1984	1984*u*
Vermont	1997	1997	1996	1996	1996	1996
West Virginia	1989	1995	1996	1994*u*	1994	1994*u*
North Central:						
Illinois	1985	1985	1996	1996	1985*u*	1996
Indiana	1997	1997	1996	1995	1996	1995
Iowa	1990		1996	1994	1995	1994
Michigan	1993	1993	1996	1994	1992	1994
Minnesota	1990	1990	1996	1992	1988*u*	1992
Missouri	1989	1989	1996	1994	1987*u*	1994
Ohio	1994	1995	1996	1989*u*	1989	1989u
Wisconsin	1996	1996	1996	1994	1994	1994
Southeast:						
Florida	1995	1995	1995	1995	1981*u*	1995
Georgia	1997	1997	1995	1995	1981*u*	1995
North Carolina	1990	1990	1995	1995	1981*u*	1995
South Carolina	1993	1993	1995	1995	1981*u*	1995
Virginia	1992	1992	1995	1995	1981*u*	1995
South Central:						
Alabama	1990	1990	1995	1995	1981*u*	1995
Arkansas	1995	1995	1996	1996	1981*u*	1996
Kentucky	1988	1988	1995	1995	1981*u*	1995
Louisiana	1991	1991	1996	1996	1981*u*	1996
Mississippi	1994	1994	1995	1995	1981*u*	1995
Oklahoma	1989-93	1993	1996	1996	1981*u*	1996
Tennessee	1989	1989	1995	1995	1981*u*	1995
Texas	1992	1992	1994	1994	1981*u*	1994

(continued on next page)

(Appendix Table A-3 continued)

Region/State	Forest inventory data		Timber products output (removals) data			
	Non-NFS lands	NFS lands	Pulpwood	Saw logs/ Veneer	Fuelwood	Other products
Great Plains:						
Kansas	1990		1996	1993	1994	1993
Nebraska	1994	1994	1996	1993	1994	1993
North Dakota	1994	1994	1996	1993	1994	1993
South Dakota	1996	1986*u*	1996	1993	1994	1993
Intermountain:						
Arizona	1985	1996	1995	1995	1984	1995
Colorado	1983	1981-88*u*	1996	1996	1982	1996
Idaho	1990	1990-95*u*	1995	1995	1990	1995
Montana	1988	1995	1993u	1993*u*	1989	1993*u*
Nevada	1989u	1987*u*	1996	1996	1996	1996
New Mexico	1987	1987	1995	1995	1986	1995
Utah	1993	1993	1992	1992	1992	1992
Wyoming	1984	1985-93*u*	1996	1996	1983u	1996
Pacific Northwest:						
Alaska	1977-94	1978-85	1995	1995	1982u	1995
Oregon	1992	1994-96	1994	1994	1994	1994
Washington	1988-91	1995	1996	1996	1996	1996
Pacific Southwest:						
California	1994	1995	1994	1994	1994	1994
Hawaii	1985		1995	1995	1995	1995

u = source data updated to 1996 for reporting.

Accuracy of the Data

All of the data for the national assessment of forests are collected under the guidance of the USDA Forest Service and compiled by the agency's Forest Inventory and Analysis (FIA) program. All data are collected by the FIA program in cooperation with State forestry agencies or National Forest System (NFS) regions.

Inventories conducted by FIA are designed to meet the following statistical guidelines for accuracy within one standard deviation at the 67 percent level for each State:

+/- 3-5 percent per million acres of timberland
+/- 10 percent per million acres of all other forest land
+/- 5 percent per billion cubic feet of growing-stock volume on timberland
+/- 10 percent per billion cubic feet of growing-stock growth
+/- 15 percent per billion cubic feet of growing-stock mortality
+/- 15 percent per billion cubic feet of growing-stock removals

Since these guidelines are applied at the State level, the accuracy of data for any national or regional total for these categories will be improved.

Inventories conducted historically on NFS lands would have similar accuracy estimates in the Eastern United States and Alaska where FIA conducted these inventories. In other NFS regions, regional inventory data were converted to emulate FIA classifications and thus specific accuracy estimates are difficult to derive. Overall, historic NFS data are presumed to have similar error characteristics except where errors of omission may have occurred.

Appendix B: Metric Equivalents for Various Units of Measure

1 acre = 0.404686 hectares
1,000 acres = 404.686 hectares
1 board foot = 0.00348 cubic meters
1,000 board feet, International 1/4-inch log rule = 3.48 cubic meters
1 cubic foot = 0.028317 cubic meters
1,000 cubic feet = 28.317 cubic meters
1 inch = 2.54 centimeters or 0.0254 meters
1 foot = 30.48 centimeters or 0.3048 meters
1 mile = 1.609 kilometers
1 square foot = 0.0929 square meters
1 square foot per acre basal area = 0.229568 square meters per hectare
1 ton = 0.90718 metric tons
Breast height = 1.37 meters above ground level

Appendix C: Common and Scientific Names of Major Tree Species

Common name	Scientific name
Eastern Softwoods:	
True firs	*Abies* Mill.
Balsam fir	*A. balsamea* (L.) Mill.
Fraser fir	*A. fraseri* (Pursh) Poir.
Eastern redcedar	*Juniperus virginiana* L.
Tamarack	*Larix laricina* (Du Roi) K. Koch
Spruce	*Picea* A. Dietr.
Jack pine	*Pinus banksiana* Lamb.
Shortleaf pine	*P. echinata* Mill.
Slash pine	*P. elliottii* Engelm.
Longleaf pine	*P. palustris* Mill.
Red pine	*P. resinosa* Ait.
Eastern white pine	*P. strobus* L.
Loblolly pine	*P. taeda* L.
Baldcypress	*Taxodium* Rich.
Northern white-cedar	*Thuja occidentalis* L.
Eastern hemlock	*Tsuga canadensis* (L.) Carr.
Eastern Hardwoods:	
Maple	*Acer* L.
Red (soft) maple	*A. rubrum* L.
Sugar (hard) maple	*A. saccharum* Marsh.
Birch	*Betula* L.
Yellow birch	*B. alleghaniensis* Britton
Paper birch	*B. papyrifera* Marsh.
Gray birch	*B. populifolia* Marsh.
Hackberry	*Celtis occidentalis* L.
American beech	*Fagus grandifolia* Ehrh.
Ash	*Fraxinus* L.
Black walnut	*Juglans nigra* L.
Sweetgum	*Liquidambar styraciflua* L.
Yellow-poplar	*Liriodendron tulipifera* L.
Tupelo, gum	*Nyssa* L.
Black tupelo	*N. sylvatica* Marsh. var. *sylvatica*
Sycamore	*Platanus occidentalis* L.
Aspen	*Populus* L.
Balsam poplar	*P. balsamifera* L.
Eastern cottonwood	*P. deltoides* Bartr. ex Marsh.
Black cherry	*Prunus serotina* Ehrh.
Oak	*Quercus* L.
White oak	*Q. alba* L.
Swamp white oak	*Q. bicolor* Willd.
Scarlet oak	*Q. coccinea* Muenchh.
Northern pin oak	*Q. ellipsoidalis* E. J. Hill
Southern red oak	*Q. falcata* Michx.
Cherrybark oak	*Q. falcata* var. *pagodifolia* Ell.
Bear oak	*Q. ilicifolia* Wangenh.
Shingle oak	*Q. imbricaria* Michx.
Overcup oak	*Q. lyrata* Walt.
Bur oak	*Q. macrocarpa* Michx.
Blackjack oak	*Q. marilandica* Muenchh.
Swamp chestnut oak	*Q. michauxii* Nutt.
Chinkapin oak	*Q. muehlenbergii* Engelm.
Water oak	*Q. nigra* L.
Pin oak	*Q. palustris* Muenchh.
Willow oak	*Q. phellos* L.
Chestnut oak	*Q. prinus* L.
Northern red oak	*Q. rubra* L.
Shumard oak	*Q. shumardii* Buckl.
Post oak	*Q. stellata* Wangenh. var. *stellata*
Black oak	*Q. velutina* Lam.
Willow	*Salix* L.
Basswood	*Tilia* L.
Elm	*Ulmus* L.
Western Softwoods:	
True firs	*Abies* Mill.
Pacific silver fir	*A. amabilis* Dougl. ex Forbes
White fir	*A. concolor* (Gord. & Glend.) Lindl. ex Hildebr.
Grand fir	*A. grandis* (Dougl. ex D. Don) Lindl.
Subalpine fir	*A. lasiocarpa* (Hook.) Nutt.
Juniper	*Juniperus* L.
Incense-cedar	*Libocedrus decurrens* Torr.
Engelmann spruce	*Picea engelmannii* Parry ex Engelm.
Blue spruce	*P. pungens* Engelm.
Sitka spruce	*P. sitchensis* (Bong.) Carr.
Lodgepole pine	*Pinus contorta* Dougl. ex Loud.
Pinyon pine	*P. edulis* Engelm.
Apache pine	*P. engelmannii* Carr.
Limber pine	*P. flexilis* James
Jeffrey pine	*P. jeffreyi* Grev. & Balf.
Sugar pine	*P. lambertiana* Dougl.
Chihuahua pine	*P. leiophylla* var. *chihuahuana* (Engelm.) Shaw
Western white pine	*P. monticola* Dougl. ex D. Don
Ponderosa pine	*P. ponderosa* Dougl. ex Laws.
Arizona pine	*P. ponderosa* var. *arizonica* (Engelm.) Shaw
Douglas-fir	*Pseudotsuga menziesii* (Mirb.) Franco
Redwood	*Sequoia sempervirens* (D. Don) Endl.
Western redcedar	*Thuja plicata* Donn ex D. Don
Western hemlock	*Tsuga heterophylla* (Raf.) Sarg.
Mountain hemlock	*T. mertensiana* (Bong.) Carr.
Western Hardwoods:	
Red alder	*Alnus rubra* Bong.
Tanoak	*Lithocarpus densiflorus* (Hook & Arn.) Rehd.
Cottonwood	*Populus* L.
Oak	*Quercus* L.

Source: Little 1979.

List of Tables

Forest Area

Timberland Area

Volume

Change

Biomass

Products

Board Foot

Table 1—Land area in the United States by major class, region, subregion, and State, 1997

Region, subregion, and State	Total land area	Land class				
		Forest land				
		Total forest land	Timberland	Reserved[a]	Other[b]	Other land
		Thousand acres				
North:						
Northeast:						
Connecticut	3,101	1,863	1,815	23	25	1,238
Delaware	1,251	389	376	3	10	862
Maine	19,753	17,711	16,952	346	412	2,043
Maryland	6,295	2,701	2,423	153	124	3,594
Massachusetts	5,016	3,264	2,965	149	150	1,752
New Hampshire	5,740	4,955	4,551	117	287	785
New Jersey	4,748	1,991	1,864	105	21	2,757
New York	30,223	18,581	15,406	2,953	222	11,642
Pennsylvania	28,685	16,905	15,853	833	219	11,780
Rhode Island	669	409	356	8	45	260
Vermont	5,920	4,607	4,461	91	55	1,312
West Virginia	15,415	12,108	11,900	181	27	3,307
Total	126,817	85,484	78,923	4,963	1,598	41,333
North Central:						
Illinois	35,579	4,294	4,058	236	0	31,285
Indiana	22,957	4,501	4,342	159	0	18,456
Iowa	35,760	2,050	1,944	88	19	33,710
Michigan	36,358	19,335	18,667	577	90	17,023
Minnesota	50,954	16,796	14,819	1,136	842	34,158
Missouri	44,094	14,047	13,411	325	311	30,047
Ohio	26,210	7,855	7,568	140	147	18,355
Wisconsin	34,761	15,963	15,701	201	61	18,798
Total	286,673	84,842	80,510	2,862	1,470	201,832
North Total:	413,491	170,326	159,433	7,825	3,067	243,165
South:						
Southeast:						
Florida	34,520	16,254	14,605	601	1,048	18,266
Georgia	37,068	24,413	23,796	595	22	12,656
North Carolina	31,180	19,298	18,639	615	44	11,882
South Carolina	19,271	12,651	12,419	232	0	6,620
Virginia	25,342	16,047	15,345	655	47	9,295
Total	147,380	88,662	84,803	2,698	1,161	58,718
South Central:						
Alabama	32,480	21,964	21,911	52	0	10,517
Arkansas	33,328	18,790	18,392	231	167	14,538
Kentucky	25,429	12,684	12,347	305	32	12,744
Louisiana	27,882	13,783	13,693	90	0	14,099
Mississippi	30,025	18,595	18,587	8	0	11,429
Oklahoma	43,954	7,665	6,234	45	1,387	36,289
Tennessee	26,380	13,603	13,265	337	0	12,778
Texas	167,626	18,354	11,766	133	6,455	149,272
Total	387,105	125,438	116,196	1,202	8,040	261,667
South Total:	534,485	214,100	200,999	3,900	9,201	320,385

Table 1—(continued).

Region, subregion, and State	Total land area	Land class: Forest land: Total forest land	Land class: Forest land: Timberland	Land class: Forest land: Reserved[a]	Land class: Forest land: Other[b]	Land class: Other land
	Thousand acres					
Rocky Mountain:						
Great Plains:						
Kansas	52,367	1,545	1,491	18	37	50,822
Nebraska	49,202	947	898	32	18	48,255
North Dakota	44,156	674	442	0	232	43,483
South Dakota	48,571	1,632	1,487	22	123	46,939
Total	194,297	4,798	4,317	71	409	189,499
Intermountain:						
Arizona	72,731	19,926	4,073	1,771	14,082	52,805
Colorado	66,387	21,270	11,555	2,407	7,307	45,116
Idaho	52,961	21,937	17,123	3,529	1,285	31,024
Montana	93,156	23,232	19,164	3,620	448	69,924
Nevada	70,276	9,928	169	688	9,071	60,348
New Mexico	77,674	15,505	4,833	1,420	9,252	62,169
Utah	52,588	15,705	4,700	770	10,235	36,883
Wyoming	62,147	10,944	5,085	3,903	1,957	51,202
Total	547,918	138,447	66,701	18,108	53,637	409,471
Rocky Mountain Total:	742,214	143,244	71,018	18,180	54,046	598,970
Pacific Coast:						
Alaska:						
Alaska	365,039	127,380	12,395	9,836	105,148	237,660
Total	365,039	127,380	12,395	9,836	105,148	237,660
Pacific Northwest:						
Oregon	61,444	29,720	23,749	2,482	3,489	31,723
Washington	42,613	21,892	17,418	3,495	980	20,721
Total	104,057	51,612	41,167	5,977	4,469	52,444
Pacific Southwest:						
California	99,823	38,547	17,952	5,968	14,627	61,276
Hawaii	4,111	1,748	700	196	853	2,363
Total	103,934	40,296	18,652	6,164	15,480	63,639
Pacific Coast Total:	573,030	219,288	72,214	21,977	125,097	353,743
United States:	2,263,220	746,958	503,664	51,882	191,412	1,516,262

[a] For 1997, reserved forest includes lands previously classified as unproductive reserved and tabulated under the other forest category.

[b] For 1997, other forest no longer includes lands classified as unproductive reserved. This area, amounting to about 12 million acres in 1987, is now included in the reserved forest category.

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

Table 2—Forest land area in the United States by ownership, region, subregion, and State, 1997

Region, subregion, and State	All ownerships	Public							Private[a]		
			Federal								
		Total public	Total Federal	National forest	Bureau of Land Management	Other	State	County and municipal	Total private	Forest industry	Non-industrial private
					Thousand acres						
North:											
Northeast:											
Connecticut	1,863	272	13	0	0	13	180	80	1,591	0	1,591
Delaware	389	16	2	0	0	2	15	0	373	31	342
Maine	17,711	979	125	49	0	76	738	116	16,732	7,449	9,283
Maryland	2,701	434	74	0	0	74	337	23	2,267	137	2,130
Massachusetts	3,264	642	69	0	0	69	341	232	2,622	71	2,552
New Hampshire	4,955	1,093	730	708	0	22	237	126	3,862	519	3,343
New Jersey	1,991	605	96	0	0	96	382	127	1,386	0	1,386
New York	18,581	4,127	108	9	0	99	3,640	378	14,454	1,225	13,229
Pennsylvania	16,905	4,403	587	460	0	127	3,529	287	12,502	613	11,889
Rhode Island	409	95	5	0	0	5	88	3	314	0	314
Vermont	4,607	727	347	317	0	31	310	70	3,880	227	3,653
West Virginia	12,108	1,520	1,164	1,002	0	163	311	44	10,588	887	9,701
Total	85,484	14,914	3,320	2,544	0	776	10,107	1,487	70,570	11,158	59,412
North Central:											
Illinois	4,294	647	343	276	0	68	178	125	3,648	13	3,635
Indiana	4,501	771	425	191	0	234	323	22	3,731	17	3,713
Iowa	2,050	244	74	0	0	74	127	42	1,807	0	1,807
Michigan	19,335	7,197	2,987	2,737	0	250	3,946	264	12,138	1,520	10,618
Minnesota	16,796	9,507	3,070	2,740	29	300	3,773	2,664	7,290	761	6,529
Missouri	14,047	2,421	1,830	1,483	0	347	523	69	11,626	222	11,403
Ohio	7,855	690	241	216	0	25	294	156	7,165	174	6,990
Wisconsin	15,963	4,767	1,643	1,421	0	222	823	2,300	11,196	1,105	10,091
Total	84,842	26,242	10,613	9,064	29	1,520	9,987	5,642	58,599	3,814	54,785
North Total:	170,326	41,156	13,933	11,608	29	2,296	20,094	7,129	129,170	14,972	114,197
South:											
Southeast:											
Florida	16,254	4,096	2,477	1,139	0	1,338	1,522	97	12,158	4,018	8,140
Georgia	24,413	2,364	1,915	863	0	1,052	336	113	22,048	4,381	17,667
North Carolina	19,298	2,523	2,001	1,230	0	770	438	85	16,774	2,252	14,522
South Carolina	12,651	1,310	980	598	0	383	276	54	11,341	2,322	9,019
Virginia	16,047	2,580	2,211	1,640	0	571	270	99	13,466	1,537	11,929
Total	88,662	12,874	9,584	5,470	0	4,114	2,843	448	75,788	14,511	61,277
South Central:											
Alabama	21,964	1,183	869	619	0	250	218	95	20,781	4,796	15,985
Arkansas	18,790	3,530	3,060	2,479	0	580	403	67	15,260	4,498	10,762
Kentucky	12,684	1,316	1,103	645	0	458	213	0	11,368	205	11,164
Louisiana	13,783	1,304	797	567	0	230	300	207	12,479	3,899	8,579
Mississippi	18,595	1,944	1,534	1,099	0	435	311	100	16,651	3,241	13,411
Oklahoma	7,665	657	491	236	0	255	139	27	7,008	1,049	5,959
Tennessee	13,603	1,840	1,088	617	0	471	692	59	11,762	1,122	10,641
Texas	18,354	909	787	608	0	180	75	47	17,446	3,720	13,726
Total	125,438	12,683	9,729	6,870	0	2,859	2,351	603	112,755	22,529	90,226
South Total:	214,100	25,557	19,314	12,340	0	6,974	5,193	1,051	188,543	37,040	151,503

Table 2—(continued).

Region, subregion, and State	All ownerships	Public							Private[a]		
			Federal								
		Total public	Total Federal	National forest	Bureau of Land Management	Other	State	County and municipal	Total private	Forest industry	Non-industrial private
					Thousand acres						
Rocky Mountain:											
Great Plains:											
Kansas	1,545	109	65	0	0	65	32	13	1,436	0	1,436
Nebraska	947	133	52	47	0	6	71	10	814	0	814
North Dakota	674	232	198	182	2	14	34	0	442	0	442
South Dakota	1,632	1,075	1,008	994	6	8	66	1	557	0	557
Total	4,798	1,550	1,323	1,223	8	93	202	24	3,248	0	3,248
Intermountain:											
Arizona	19,926	11,712	10,534	8,546	1,188	800	1,164	13	8,214	13	8,201
Colorado	21,270	15,332	14,735	10,135	4,110	490	518	79	5,939	0	5,939
Idaho	21,937	18,548	17,356	16,416	893	47	1,166	25	3,389	1,284	2,106
Montana	23,231	16,965	16,215	14,552	817	846	743	7	6,267	1,618	4,649
Nevada	9,928	9,348	9,332	2,769	6,274	289	16	0	580	25	555
New Mexico	15,505	9,463	8,572	7,387	1,048	136	878	13	6,042	0	6,042
Utah	15,705	12,960	11,941	5,633	6,073	235	1,005	14	2,744	0	2,744
Wyoming	10,944	8,967	8,689	5,816	1,004	1,869	278	0	1,977	0	1,977
Total	138,447	103,294	97,374	71,255	21,408	4,710	5,770	151	35,152	2,939	32,213
Rocky Mountain Total:	143,244	104,844	98,697	72,478	21,416	4,803	5,972	175	38,401	2,939	35,461
Pacific Coast:											
Alaska:											
Alaska	127,380	91,505	66,749	11,250	21,230	34,268	24,736	20	35,875	0	35,875
Total	127,380	91,505	66,749	11,250	21,230	34,268	24,736	20	35,875	0	35,875
Pacific Northwest:											
Oregon	29,720	18,945	17,822	14,316	3,314	192	933	191	10,775	5,290	5,485
Washington	21,892	12,081	9,541	8,037	50	1,454	2,270	270	9,811	4,305	5,506
Total	51,612	31,026	27,363	22,352	3,365	1,646	3,203	460	20,586	9,595	10,991
Pacific Southwest:											
California	38,547	21,794	20,654	16,748	2,260	1,647	739	400	16,754	3,140	13,613
Hawaii	1,748	593	12	0	0	12	573	8	1,155	0	1,155
Total	40,296	22,387	20,666	16,748	2,260	1,659	1,312	408	17,909	3,140	14,768
Pacific Coast Total:	219,288	144,918	114,778	50,351	26,854	37,573	29,251	889	74,370	12,736	61,634
United States:	746,958	316,475	246,722	146,777	48,299	51,646	60,510	9,244	430,483	67,687	362,796

[a] Native American lands are included exclusively in the nonindustrial private owner group for 1997 only. For 1987 and earlier years, these lands may be included in the other public owner group.

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

Table 3—Forest area in the United States[a] by region, subregion, and State, 1997, 1987, 1977, 1963, 1953, 1938, 1907, and 1630

Region, subregion, and State	1997	1987[b]	1977[c]	1963[d]	1953[e]	1938[f]	1907[g]	1630[h]
				Thousand acres				
North:								
Northeast:								
Connecticut	1,863	1,815	1,861	1,910	1,990	1,809	1,600	2,930
Delaware	389	398	392	392	454	423	350	1,130
Maine	17,711	17,713	17,718	17,425	17,088	16,036	14,900	18,180
Maryland	2,701	2,632	2,653	2,920	2,920	2,595	2,200	5,730
Massachusetts	3,264	3,097	2,952	3,070	3,288	3,283	2,000	4,630
New Hampshire	4,955	5,021	5,014	5,019	4,848	4,664	3,500	5,490
New Jersey	1,991	1,985	1,928	2,371	2,098	2,157	2,000	4,330
New York	18,581	18,775	18,380	15,865	14,450	13,321	12,000	27,450
Pennsylvania	16,905	16,997	16,826	16,486	14,805	13,945	9,200	27,260
Rhode Island	409	399	404	434	434	360	250	650
Vermont	4,607	4,509	4,512	4,230	3,860	3,549	2,500	5,550
West Virginia	12,108	11,942	11,669	11,469	10,327	10,074	9,100	14,610
Total	85,484	85,283	84,309	81,591	76,562	72,216	59,600	117,940
North Central:								
Illinois	4,294	4,266	4,151	4,144	3,890	3,600	2,500	13,805
Indiana	4,501	4,439	3,943	4,018	4,103	3,580	4,000	19,520
Iowa	2,050	1,562	1,561	2,620	2,600	2,550	2,500	5,340
Michigan	19,335	18,220	18,691	19,699	19,592	19,073	15,500	33,110
Minnesota	16,796	16,583	16,709	17,403	17,826	19,615	15,500	31,500
Missouri	14,047	12,523	12,876	15,296	15,177	16,200	18,300	26,390
Ohio	7,855	7,309	7,037	6,091	5,500	5,110	4,800	23,470
Wisconsin	15,963	15,319	14,908	14,885	15,559	16,946	16,000	26,520
Total	84,842	80,221	79,876	84,156	84,247	86,674	79,100	179,655
North Total:	170,326	165,504	164,185	165,747	160,809	158,890	138,700	297,595
South:								
Southeast:								
Florida	16,254	16,721	17,040	19,050	20,817	21,740	24,128	29,840
Georgia	24,413	24,187	24,556	26,365	24,057	21,433	22,300	35,700
North Carolina	19,298	19,281	19,913	20,662	20,113	18,400	19,600	29,630
South Carolina	12,651	12,257	12,569	12,250	11,943	10,704	12,000	17,570
Virginia	16,047	16,108	16,387	16,412	16,032	14,832	14,000	24,480
Total	88,662	88,554	90,465	94,739	92,962	87,109	92,028	137,220
South Central:								
Alabama	21,964	21,725	21,525	21,770	20,771	18,878	20,000	29,540
Arkansas	18,790	16,987	16,852	20,051	19,681	20,963	24,200	31,940
Kentucky	12,684	12,256	12,161	11,791	11,647	11,546	10,000	23,140
Louisiana	13,783	13,883	14,348	16,176	16,230	16,211	16,500	26,160
Mississippi	18,595	16,693	16,716	17,076	16,890	16,253	17,500	26,700
Oklahoma	7,665	7,283	8,513	9,235	10,329	10,415	10,500	13,330
Tennessee	13,603	13,258	13,184	13,629	12,808	13,000	15,000	24,010
Texas	18,354	20,505	23,279	23,954	24,708	26,949	30,000	41,980
Total	125,438	122,590	126,578	133,682	133,064	134,215	143,700	216,800
South Total:	214,100	211,144	217,043	228,421	226,026	221,324	235,728	354,020

Table 3—(continued).

Region, subregion, and State	1997	1987[b]	1977[c]	1963[d]	1953[e]	1938[f]	1907[g]	1630[h]
				Thousand acres				
Rocky Mountain:								
Great Plains:								
Kansas	1,545	1,358	1,344	1,351	1,668	2,408	2,648	1,570
Nebraska	947	722	1,029	1,162	903	1,188	1,472	1,470
North Dakota	674	460	422	439	473	495	384	450
South Dakota	1,632	1,690	1,702	1,837	2,169	2,080	2,200	2,480
Total	4,798	4,230	4,497	4,789	5,213	6,171	6,704	5,970
Intermountain:								
Arizona	19,926	19,384	18,494	19,902	19,212	20,106	21,000	21,570
Colorado	21,270	21,338	22,271	22,583	22,000	21,720	21,440	21,440
Idaho	21,937	21,818	21,727	21,815	21,025	21,713	22,400	24,130
Montana	23,232	21,910	22,559	22,048	22,330	22,415	22,500	23,320
Nevada	9,928	8,928	7,683	9,000	9,500	10,750	12,000	12,000
New Mexico	15,505	15,826	15,360	15,487	15,550	15,334	15,168	15,680
Utah	15,705	16,234	15,557	14,955	16,219	16,310	16,400	17,890
Wyoming	10,944	9,966	10,028	9,777	10,513	10,757	11,000	12,490
Total	138,447	135,404	133,679	135,567	136,349	139,105	141,908	148,520
Rocky Mountain Total:	143,244	139,634	138,176	140,356	141,562	145,276	148,612	154,490
Pacific Coast:								
Alaska:								
Alaska	127,380	129,045	129,100	129,100	129,100	129,100	129,100	129,100
Total	127,380	129,045	129,100	129,100	129,100	129,100	129,100	129,100
Pacific Northwest:								
Oregon	29,720	28,773	29,810	30,739	30,261	30,381	30,500	30,590
Washington	21,892	22,521	23,181	23,050	23,868	24,684	25,500	25,670
Total	51,612	51,294	52,991	53,789	54,129	55,065	56,000	56,260
Pacific Southwest:								
California	38,547	39,381	40,152	42,541	42,541	48,159	49,000	51,970
Hawaii	1,748	1,748	1,986	1,982	2,000	2,000	2,000	2,000
Total	40,296	41,129	42,138	44,523	44,541	50,159	51,000	53,970
Pacific Coast Total:	219,288	221,468	224,229	227,412	227,770	234,324	236,100	239,330
United States:	746,958	737,750	743,633	761,936	756,167	759,814	759,140	1,045,435

[a] Estimates for 1938 include forest area for regions that would become the States of Alaska and Hawaii. All data prior to 1953 are based on partial inventories or estimates from surveyors data. Estimates for 1907 include forest area for regions that would become the States of Alaska, Arizona, Hawaii, and New Mexico. Estimates for 1630 represent the forest area in North America for regions that would become the 50 States within the current United States.

[b] Data for 1987 based on Waddell *et al* . (1989).

[c] Data for 1977 based on USDA Forest Service (1982).

[d] Data for 1963 based on USDA Forest Service (1965).

[e] Data for 1953 based on USDA Forest Service (1958).

[f] Data for 1938 based on U.S. Congress (1938).

[g] Data for 1907 based on Kellogg (1909).

[h] Data for 1630 were also from Kellogg (1909) as an estimate of the original forest area based on the current estimate of forest and historic land clearing information. These data are provided here for general reference purposes only to convey the relative extent of the forest estate, in what is now the United States, at the time of European settlement.

Table 4—Forest land area in the United States by productivity class, region, subregion, and State 1997

Region, subregion, and State	Total	Productivity class[a] 120 + cu. ft.	85-119 cu. ft.	50-84 cu. ft.	20-49 cu. ft.	0-19 cu. ft.	Reserved forest land
				Thousand acres			
North:							
Northeast:							
Connecticut	1,863	77	125	556	1,055	25	23
Delaware	389	31	59	160	126	10	3
Maine	17,711	241	1,825	6,065	8,822	412	346
Maryland	2,701	208	491	887	837	124	153
Massachusetts	3,264	296	419	1,063	1,187	150	149
New Hampshire	4,955	65	539	1,389	2,558	287	117
New Jersey	1,991	50	144	473	1,198	21	105
New York	18,581	817	1,595	3,757	9,237	222	2,953
Pennsylvania	16,905	716	1,471	3,838	9,828	219	833
Rhode Island	409	0	19	60	277	45	8
Vermont	4,607	74	487	1,019	2,881	55	91
West Virginia	12,108	971	2,718	3,839	4,373	27	181
Total	85,484	3,546	9,893	23,105	42,379	1,598	4,963
North Central:							
Illinois	4,294	288	1,440	1,730	600	0	236
Indiana	4,501	1,082	1,641	1,203	416	0	159
Iowa	2,050	82	573	911	377	19	88
Michigan	19,335	963	4,398	7,735	5,572	90	577
Minnesota	16,796	270	2,975	5,387	6,187	842	1,136
Missouri	14,047	124	555	6,420	6,312	311	325
Ohio	7,855	387	583	1,495	5,103	147	140
Wisconsin	15,963	1,014	4,022	7,013	3,652	61	201
Total	84,842	4,211	16,186	31,895	28,218	1,470	2,862
North Total:	170,326	7,756	26,079	55,000	70,598	3,067	7,825
South:							
Southeast:							
Florida	16,254	205	1,939	8,677	3,784	1,047	602
Georgia	24,413	983	6,110	15,008	1,695	22	595
North Carolina	19,298	1,105	5,607	9,681	2,245	44	615
South Carolina	12,651	435	3,321	7,340	1,324	0	232
Virginia	16,047	562	3,293	9,489	2,001	47	655
Total	88,662	3,291	20,270	50,194	11,049	1,160	2,699
South Central:							
Alabama	21,964	7,262	8,134	5,700	816	0	52
Arkansas	18,790	3,452	5,061	7,121	2,758	167	231
Kentucky	12,684	1,102	2,065	3,876	5,305	32	305
Louisiana	13,783	6,363	4,485	2,547	298	0	90
Mississippi	18,595	7,906	7,354	3,036	291	0	8
Oklahoma	7,665	175	423	2,503	3,132	1,387	45
Tennessee	13,603	2,064	3,602	5,648	1,951	0	337
Texas	18,354	3,716	4,768	2,707	576	6,455	133
Total	125,438	32,038	35,893	33,138	15,126	8,040	1,202
South Total:	214,100	35,329	56,163	83,332	26,175	9,200	3,901

Table 4—(continued).

Region, subregion, and State	Total	Productivity class[a]					Reserved forest land
		120 + cu. ft.	85-119 cu. ft.	50-84 cu. ft.	20-49 cu. ft.	0-19 cu. ft.	
				Thousand acres			
Rocky Mountain:							
Great Plains:							
Kansas	1,545	62	256	558	614	37	18
Nebraska	947	23	173	269	432	18	32
North Dakota	674	0	19	98	325	232	0
South Dakota	1,632	1	11	183	1,292	123	22
Total	4,798	87	458	1,109	2,664	409	71
Intermountain:							
Arizona	19,926	1	9	905	3,157	14,082	1,771
Colorado	21,270	7	423	3,061	8,064	7,307	2,407
Idaho	21,937	3,006	4,925	5,402	3,790	1,285	3,529
Montana	23,231	453	2,129	7,099	9,483	448	3,620
Nevada	9,928	16	31	42	80	9,071	688
New Mexico	15,505	2	93	1,250	3,488	9,252	1,420
Utah	15,705	7	210	1,395	3,089	10,235	770
Wyoming	10,944	0	122	1,178	3,785	1,957	3,903
Total	138,447	3,494	7,941	20,332	34,934	53,637	18,108
Rocky Mountain Total:	143,244	3,580	8,399	21,441	37,598	54,046	18,180
Pacific Coast:							
Alaska:							
Alaska	127,380	2,109	1,202	761	8,323	105,148	9,836
Total	127,380	2,109	1,202	761	8,323	105,148	9,836
Pacific Northwest:							
Oregon	29,720	10,830	4,902	4,949	3,068	3,489	2,482
Washington	21,892	9,849	3,101	2,760	1,708	980	3,495
Total	51,612	20,680	8,003	7,709	4,775	4,469	5,977
Pacific Southwest:							
California	38,547	5,623	5,227	4,611	2,490	14,627	5,968
Hawaii	1,748	700	0	0	0	853	196
Total	40,296	6,323	5,227	4,611	2,490	15,480	6,164
Pacific Coast Total:	219,288	29,112	14,432	13,081	15,589	125,097	21,977
United States:	746,958	75,778	105,074	172,853	149,959	191,410	51,883

[a] Productivity classes are displayed as cubic feet per acre per year.

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

Table 5—Forest land area in the Western United States by forest type group, subregion, productivity class, and ownership group, 1997

Subregion and productivity class[a]	All forest types	Forest type group														
		Douglas-fir	Ponderosa pine	Western white pine	Fir-spruce	Hemlock-Sitka spruce	Larch	Lodgepole pine	Redwood	Other softwoods	Western hardwoods	Pinyon-juniper	Chaparral	Nonstocked	Unknown[b]
						Thousand acres										
						All ownership groups										
Great Plains:																
120 +	87	0	0	0	0	0	0	0	0	5	82	0	0	0	0
85 to 119	458	0	1	0	0	0	0	0	0	53	404	0	0	0	0
50 to 84	1,109	0	46	0	17	0	0	0	0	96	943	0	0	7	0
20 to 49	2,664	0	823	0	5	0	0	0	0	416	1,397	0	0	23	0
Other forest	409	0	29	0	0	0	0	0	0	7	24	0	0	349	0
Reserved	71	0	10	0	0	0	0	0	0	13	18	0	0	0	30
Total	4,798	0	908	0	23	0	0	0	0	588	2,869	0	0	380	30
Intermountain:															
120 +	3,494	1,397	320	77	1,069	397	52	132	0	0	51	0	0	0	0
85 to 119	7,941	2,661	477	31	3,012	616	336	527	0	0	278	0	0	2	0
50 to 84	20,332	6,484	2,632	23	5,981	475	369	2,424	0	113	1,796	17	0	17	0
20 to 49	34,934	7,103	11,453	1	4,151	22	117	6,613	0	1,224	3,845	348	0	57	0
Other forest	53,637	214	362	0	404	0	15	802	0	1,281	7,333	42,561	126	536	0
Reserved	18,108	3,109	1,757	3	4,698	68	43	3,778	0	1,673	597	2,315	0	67	0
Total	138,446	20,969	17,002	134	19,315	1,578	932	14,277	0	4,292	13,900	45,242	126	680	0
Alaska:															
120 +	2,109	0	0	0	0	2,036	0	0	0	0	57	0	0	17	0
85 to 119	1,202	0	0	0	0	1,177	0	0	0	0	16	0	0	9	0
50 to 84	761	0	0	0	3	668	0	0	0	6	83	0	0	1	0
20 to 49	8,323	0	0	0	3,104	937	0	0	0	149	4,010	0	0	123	0
Other forest	105,148	0	0	0	35,958	3,822	0	113	0	60,925	4,275	0	0	55	0
Reserved	9,836	0	0	0	1,352	3,915	0	0	0	1,888	1,877	0	0	804	0
Total	127,379	0	0	0	40,418	12,556	0	113	0	62,968	10,317	0	0	1,008	0
Pacific Northwest:															
120 +	20,680	10,151	288	11	2,046	4,049	83	474	6	28	3,247	0	0	297	0
85 to 119	8,003	3,013	1,377	14	1,209	603	112	697	0	66	791	11	0	109	0
50 to 84	7,709	2,514	2,469	4	815	342	79	761	0	69	442	92	0	123	0
20 to 49	4,775	1,234	2,152	22	209	78	13	476	0	50	232	164	0	146	0
Other forest	4,469	324	809	2	16	35	0	19	0	20	499	2,285	235	225	0
Reserved	5,977	1,268	202	37	1,432	2,152	55	246	0	123	173	0	0	28	261
Total	51,613	18,505	7,297	91	5,726	7,260	342	2,672	6	355	5,383	2,552	235	928	261
Pacific Southwest:															
120 +	6,323	651	2,427	0	839	7	0	15	657	75	1,257	0	0	396	0
85 to 119	5,227	1,021	1,772	5	1,401	0	0	8	71	7	905	0	0	38	0
50 to 84	4,611	267	2,247	50	623	5	0	92	4	280	986	0	0	58	0
20 to 49	2,490	38	822	41	73	0	0	51	0	1,036	388	5	0	36	0
Other forest	15,480	2	60	10	10	0	0	1	0	3,738	5,649	1,456	4,385	169	0
Reserved	6,164	423	617	261	1,259	13	0	287	178	1,662	863	161	441	0	0
Total	40,295	2,402	7,944	366	4,205	24	0	453	910	6,798	10,049	1,622	4,827	697	0
West total:															
120 +	32,693	12,200	3,034	88	3,954	6,488	134	621	663	107	4,694	0	0	710	0
85 to 119	22,831	6,695	3,627	50	5,621	2,397	449	1,232	71	126	2,393	11	0	159	0
50 to 84	34,521	9,264	7,393	76	7,439	1,490	448	3,277	4	563	4,250	109	0	207	0
20 to 49	53,187	8,375	15,250	64	7,542	1,037	130	7,139	0	2,875	9,872	517	0	385	0
Other forest	179,143	541	1,261	12	36,388	3,858	15	936	0	65,971	17,779	46,302	4,746	1,335	0
Reserved	40,157	4,801	2,585	301	8,741	6,148	98	4,311	178	5,359	3,529	2,476	441	898	291
Total	362,532	41,875	33,151	591	69,686	21,418	1,274	17,515	916	75,001	42,519	49,416	5,187	3,693	291

Table 5—(continued).

Subregion and productivity class[a]	All forest types	Forest type group: Douglas-fir	Ponderosa pine	Western white pine	Fir-spruce	Hemlock-Sitka spruce	Larch	Lodgepole pine	Redwood	Other softwoods	Western hardwoods	Pinyon-juniper	Chaparral	Nonstocked	Unknown[b]
						Thousand acres									
						National forest									
Great Plains:															
120 +	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 to 119	18	0	1	0	0	0	0	0	0	17	0	0	0	0	0
50 to 84	85	0	46	0	17	0	0	0	0	18	4	0	0	0	0
20 to 49	896	0	823	0	5	0	0	0	0	39	29	0	0	0	0
Other forest	214	0	29	0	0	0	0	0	0	0	17	0	0	168	0
Reserved	10	0	10	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,223	0	908	0	23	0	0	0	0	74	50	0	0	168	0
Intermountain:															
120 +	2,098	877	185	45	670	229	28	64	0	0	0	0	0	0	0
85 to 119	5,087	1,742	224	25	2,112	307	242	385	0	0	46	0	0	2	0
50 to 84	13,139	3,997	1,281	23	4,698	310	195	1,803	0	40	759	17	0	17	0
20 to 49	22,255	4,256	5,062	1	3,537	22	81	5,680	0	871	2,340	348	0	57	0
Other forest	15,715	173	212	0	343	0	15	777	0	777	3,324	9,431	126	536	0
Reserved	12,961	2,776	1,438	3	3,780	68	43	1,771	0	1,668	441	915	0	59	0
Total	71,255	13,821	8,402	96	15,140	937	603	10,480	0	3,357	6,910	10,710	126	672	0
Alaska:															
120 +	1,851	0	0	0	0	1,777	0	0	0	0	57	0	0	17	0
85 to 119	821	0	0	0	0	812	0	0	0	0	0	0	0	9	0
50 to 84	394	0	0	0	3	390	0	0	0	0	0	0	0	1	0
20 to 49	715	0	0	0	19	658	0	0	0	0	27	0	0	11	0
Other forest	3,110	0	0	0	26	2,896	0	113	0	8	12	0	0	55	0
Reserved	4,360	0	0	0	0	3,615	0	0	0	0	0	0	0	745	0
Total	11,251	0	0	0	48	10,148	0	113	0	8	96	0	0	838	0
Pacific Northwest:															
120 +	8,240	3,727	238	11	1,737	1,557	68	455	0	21	395	0	0	32	0
85 to 119	4,508	1,256	1,117	8	928	384	54	583	0	23	133	11	0	11	0
50 to 84	4,198	907	1,809	4	444	218	48	516	0	39	64	92	0	57	0
20 to 49	1,089	149	477	22	36	17	0	166	0	35	26	150	0	12	0
Other forest	265	27	28	2	0	8	0	12	0	15	8	140	0	26	0
Reserved	4,052	867	143	35	1,177	1,304	16	213	0	123	146	0	0	28	0
Total	22,352	6,933	3,812	81	4,322	3,487	186	1,945	0	256	772	393	0	165	0
Pacific Southwest:															
120 +	2,478	391	1,324	0	754	0	0	0	0	0	9	0	0	0	0
85 to 119	3,337	873	995	5	1,296	0	0	0	0	0	168	0	0	0	0
50 to 84	2,770	174	1,343	47	531	5	0	74	4	279	314	0	0	0	0
20 to 49	1,501	22	221	41	66	0	0	34	0	1,025	91	0	0	0	0
Other forest	2,928	2	2	10	10	0	0	1	0	2,222	467	214	0	0	0
Reserved	3,733	382	380	261	901	6	0	100	4	1,285	303	112	0	0	0
Total	16,747	1,844	4,264	363	3,558	11	0	210	8	4,811	1,353	327	0	0	0
West total:															
120 +	14,668	4,995	1,748	56	3,161	3,563	96	519	0	21	461	0	0	48	0
85 to 119	13,771	3,871	2,337	38	4,336	1,504	296	968	0	40	347	11	0	22	0
50 to 84	20,585	5,078	4,478	73	5,693	922	242	2,394	4	376	1,141	109	0	75	0
20 to 49	26,456	4,427	6,583	64	3,663	698	81	5,880	0	1,971	2,513	498	0	80	0
Other forest	22,233	202	271	12	379	2,903	15	903	0	3,022	3,829	9,784	126	785	0
Reserved	25,116	4,026	1,970	298	5,859	4,992	59	2,084	4	3,075	890	1,027	0	831	0
Total	122,829	22,598	17,386	540	23,091	14,583	789	12,748	8	8,505	9,181	11,430	126	1,843	0

Table 5—(continued).

Subregion and productivity class[a]	All forest types	Forest type group													
		Douglas-fir	Ponderosa pine	Western white pine	Fir-spruce	Hemlock-Sitka spruce	Larch	Lodgepole pine	Redwood	Other soft-woods	Western hard-woods	Pinyon-juniper	Chaparral	Non-stocked	Unknown[b]
						Thousand acres									
						Other public									
Great Plains:															
120 +	12	0	0	0	0	0	0	0	0	0	12	0	0	0	0
85 to 119	27	0	0	0	0	0	0	0	0	5	22	0	0	0	0
50 to 84	87	0	0	0	0	0	0	0	0	11	72	0	0	4	0
20 to 49	131	0	0	0	0	0	0	0	0	49	77	0	0	5	0
Other forest	15	0	0	0	0	0	0	0	0	0	1	0	0	14	0
Reserved	55	0	0	0	0	0	0	0	0	13	18	0	0	0	23
Total	327	0	0	0	0	0	0	0	0	78	202	0	0	22	23
Intermountain:															
120 +	432	137	35	6	168	54	6	15	0	0	11	0	0	0	0
85 to 119	759	282	48	0	253	109	23	14	0	0	30	0	0	0	0
50 to 84	1,657	680	138	0	332	57	35	182	0	22	210	0	0	0	0
20 to 49	3,210	1,003	1,111	0	214	0	2	418	0	166	295	0	0	0	0
Other forest	21,275	30	61	0	54	0	0	11	0	369	1,115	19,635	0	0	0
Reserved	4,706	239	250	0	734	0	0	1,970	0	5	134	1,367	0	5	0
Total	32,039	2,371	1,643	6	1,756	221	67	2,610	0	562	1,797	21,001	0	5	0
Alaska:															
120 +	107	0	0	0	0	107	0	0	0	0	0	0	0	0	0
85 to 119	149	0	0	0	0	137	0	0	0	0	12	0	0	0	0
50 to 84	206	0	0	0	0	123	0	0	0	0	83	0	0	0	0
20 to 49	4,363	0	0	0	1,588	75	0	0	0	57	2,576	0	0	67	0
Other forest	69,959	0	0	0	16,310	651	0	0	0	50,292	2,706	0	0	0	0
Reserved	5,470	0	0	0	1,347	301	0	0	0	1,888	1,877	0	0	58	0
Total	80,254	0	0	0	19,245	1,394	0	0	0	52,237	7,254	0	0	125	0
Pacific Northwest:															
120 +	3,234	1,943	0	0	66	571	0	0	0	7	619	0	0	28	0
85 to 119	810	500	63	0	53	69	19	15	0	0	82	0	0	9	0
50 to 84	805	480	64	0	39	32	12	33	0	14	133	0	0	0	0
20 to 49	703	278	211	0	6	7	0	59	0	0	115	7	0	20	0
Other forest	1,337	96	150	0	0	0	0	0	0	5	68	910	57	51	0
Reserved	1,785	392	51	3	248	797	4	7	0	0	24	0	0	0	259
Total	8,674	3,690	538	3	411	1,476	35	113	0	26	1,041	917	57	108	259
Pacific Southwest:															
120 +	483	11	48	0	0	0	0	0	85	18	148	0	0	173	0
85 to 119	123	0	59	0	11	0	0	0	1	0	51	0	0	0	0
50 to 84	82	6	28	0	0	0	0	1	0	0	46	0	0	0	0
20 to 49	80	0	47	0	0	0	0	3	0	0	23	2	0	5	0
Other forest	2,486	0	7	0	0	0	0	0	0	129	381	737	1,203	29	0
Reserved	2,386	39	234	0	358	7	0	187	173	374	531	48	435	0	0
Total	5,640	56	424	0	368	7	0	191	259	521	1,180	787	1,638	208	0
West total:															
120 +	4,269	2,091	83	6	234	733	6	15	85	26	790	0	0	201	0
85 to 119	1,868	782	170	0	318	316	41	28	1	5	197	0	0	9	0
50 to 84	2,836	1,166	230	0	370	213	47	216	0	47	544	0	0	4	0
20 to 49	8,486	1,282	1,369	0	1,808	82	2	480	0	272	3,086	9	0	97	0
Other forest	95,072	127	218	0	16,364	651	0	11	0	50,794	4,272	21,282	1,259	94	0
Reserved	14,402	670	535	3	2,687	1,104	4	2,164	173	2,280	2,585	1,415	435	63	282
Total	126,933	6,117	2,605	9	21,781	3,098	102	2,915	259	53,424	11,474	22,706	1,695	468	282

Table 5—(continued).

Subregion and productivity class[a]	All forest types	Forest type group													
		Douglas-fir	Ponderosa pine	Western white pine	Fir-spruce	Hemlock-Sitka spruce	Larch	Lodgepole pine	Redwood	Other soft-woods	Western hard-woods	Pinyon-juniper	Chaparral	Non-stocked	Unknown[b]
						Thousand acres									
						Forest industry									
Great Plains:															
120 +	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 to 119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 to 84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reserved	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intermountain:															
120 +	399	142	4	13	150	64	12	14	0	0	0	0	0	0	0
85 to 119	802	252	17	0	347	128	32	27	0	0	0	0	0	0	0
50 to 84	1,211	493	137	0	225	95	90	157	0	5	8	0	0	0	0
20 to 49	515	325	27	0	63	0	8	86	0	5	0	0	0	0	0
Other forest	13	0	0	0	0	0	0	0	0	0	0	13	0	0	0
Reserved	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2,940	1,213	185	13	786	286	141	283	0	10	8	13	0	0	0
Alaska:															
120 +	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 to 119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 to 84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reserved	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Northwest:															
120 +	5,632	3,076	0	0	119	1,397	6	6	0	0	882	0	0	147	0
85 to 119	1,200	706	40	0	143	96	20	0	0	36	128	0	0	30	0
50 to 84	1,093	408	251	0	218	48	0	78	0	16	48	0	0	25	0
20 to 49	1,197	245	593	0	113	20	0	169	0	7	0	7	0	43	0
Other forest	474	50	166	0	0	21	0	7	0	0	27	103	61	39	0
Reserved	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	9,596	4,486	1,050	0	592	1,582	26	260	0	60	1,085	110	61	284	0
Pacific Southwest:															
120 +	1,550	128	583	0	50	0	0	6	363	8	379	0	0	32	0
85 to 119	758	56	344	0	65	0	0	8	36	0	239	0	0	9	0
50 to 84	513	8	290	3	50	0	0	0	0	0	151	0	0	10	0
20 to 49	162	9	98	0	7	0	0	0	0	7	42	0	0	0	0
Other forest	158	0	11	0	0	0	0	0	0	18	86	4	30	8	0
Reserved	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	3,141	201	1,326	3	172	0	0	14	399	33	898	4	30	59	0
West total:															
120 +	7,581	3,346	587	13	319	1,460	18	25	363	8	1,261	0	0	180	0
85 to 119	2,759	1,015	401	0	555	223	52	35	36	36	367	0	0	39	0
50 to 84	2,816	909	678	3	493	143	90	234	0	21	207	0	0	36	0
20 to 49	1,874	579	718	0	183	20	8	255	0	19	42	7	0	43	0
Other forest	645	50	177	0	0	21	0	7	0	18	113	120	91	46	0
Reserved	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	15,675	5,899	2,562	16	1,550	1,868	168	557	399	103	1,991	127	91	343	0

Table 5—(continued).

Subregion and productivity class[a]	All forest types	Forest type group: Douglas-fir	Ponderosa pine	Western white pine	Fir-spruce	Hemlock-Sitka spruce	Larch	Lodgepole pine	Redwood	Other softwoods	Western hardwoods	Pinyon-juniper	Chaparral	Nonstocked	Unknown[b]
							Thousand acres								
							Nonindustrial private								
Great Plains:															
120 +	75	0	0	0	0	0	0	0	0	5	70	0	0	0	0
85 to 119	413	0	0	0	0	0	0	0	0	30	382	0	0	0	0
50 to 84	937	0	0	0	0	0	0	0	0	67	867	0	0	4	0
20 to 49	1,637	0	0	0	0	0	0	0	0	328	1,291	0	0	18	0
Other forest	180	0	0	0	0	0	0	0	0	7	6	0	0	168	0
Reserved	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	3,248	0	0	0	0	0	0	0	0	436	2,617	0	0	189	6
Intermountain:															
120 +	565	241	95	13	80	50	6	40	0	0	40	0	0	0	0
85 to 119	1,293	385	189	6	299	72	40	101	0	0	201	0	0	0	0
50 to 84	4,325	1,315	1,076	0	726	13	48	282	0	46	819	0	0	0	0
20 to 49	8,954	1,518	5,253	0	337	0	26	429	0	182	1,209	0	0	0	0
Other forest	16,634	11	90	0	7	0	0	14	0	135	2,894	13,483	0	0	0
Reserved	442	94	68	0	183	0	0	37	0	0	22	34	0	3	0
Total	32,213	3,564	6,771	19	1,633	134	120	903	0	364	5,185	13,517	0	3	0
Alaska:															
120 +	151	0	0	0	0	151	0	0	0	0	0	0	0	0	0
85 to 119	232	0	0	0	0	228	0	0	0	0	4	0	0	0	0
50 to 84	161	0	0	0	0	155	0	0	0	6	0	0	0	0	0
20 to 49	3,246	0	0	0	1,498	204	0	0	0	92	1,407	0	0	45	0
Other forest	32,079	0	0	0	19,622	276	0	0	0	10,625	1,556	0	0	0	0
Reserved	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0
Total	35,875	0	0	0	21,125	1,014	0	0	0	10,723	2,967	0	0	45	0
Pacific Northwest:															
120 +	3,573	1,406	49	0	125	524	9	14	6	0	1,352	0	0	90	0
85 to 119	1,486	551	157	7	85	54	19	100	0	7	448	0	0	59	0
50 to 84	1,613	718	346	0	114	44	20	134	0	0	197	0	0	41	0
20 to 49	1,786	562	872	0	54	34	13	81	0	7	91	0	0	71	0
Other forest	2,393	151	465	0	16	7	0	0	0	0	396	1,133	117	109	0
Reserved	140	9	8	0	7	52	34	26	0	0	3	0	0	0	2
Total	10,991	3,397	1,896	7	400	714	95	354	6	14	2,486	1,133	117	370	2
Pacific Southwest:															
120 +	1,812	121	472	0	35	7	0	9	209	49	720	0	0	191	0
85 to 119	1,010	92	373	0	29	0	0	0	34	7	446	0	0	29	0
50 to 84	1,247	79	586	0	42	0	0	16	0	1	475	0	0	47	0
20 to 49	748	7	456	0	0	0	0	14	0	4	233	4	0	30	0
Other forest	9,908	0	41	0	0	0	0	0	0	1,368	4,714	500	3,153	132	0
Reserved	45	2	3	0	0	0	0	0	1	3	30	0	6	0	0
Total	14,770	300	1,930	0	106	7	0	39	244	1,432	6,618	503	3,158	430	0
West total:															
120 +	6,175	1,768	616	13	240	731	14	62	215	53	2,182	0	0	281	0
85 to 119	4,434	1,028	719	12	413	354	59	201	34	44	1,482	0	0	89	0
50 to 84	8,284	2,111	2,007	0	882	212	68	432	0	120	2,358	0	0	92	0
20 to 49	16,370	2,087	6,581	0	1,889	237	40	524	0	613	4,231	4	0	164	0
Other forest	61,193	162	595	0	19,645	283	0	14	0	12,135	9,566	15,115	3,269	409	0
Reserved	639	105	79	0	196	52	34	63	1	3	55	34	6	3	9
Total	97,095	7,261	10,597	26	23,265	1,869	215	1,296	250	12,969	19,873	15,153	3,275	1,038	9

[a] Productivity classes are displayed as cubic feet per acre per year.

[b] Poorly stocked reserved and other forest lands have insufficient data to determine a forest type.

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

Table 6—Forest land area in the Eastern United States by forest type group, subregion, productivity class, and ownership group, 1997

Subregion and productivity class[a]	All forest types	Forest type group: White-red-jack pine	Spruce-fir	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cotton-wood	Maple-beech-birch	Aspen-birch	Other forest types	Non-stocked	Un-known[b]
						Thousand acres								
						All ownership groups								
Northeast:														
120 +	3,546	404	292	0	87	144	1,026	38	331	1,185	40	0	0	0
85 to 119	9,893	1,119	1,228	0	203	451	3,499	57	207	2,540	582	0	6	0
50 to 84	23,105	2,345	2,898	0	364	814	7,136	140	435	7,552	1,417	0	5	0
20 to 49	42,379	2,410	3,160	0	897	1,016	12,765	190	1,334	18,763	1,752	0	93	0
Other forest	1,598	73	441	0	74	64	256	19	243	214	73	0	139	0
Reserved	4,963	90	643	0	74	15	1,108	2	35	2,765	197	0	34	0
Total	85,484	6,441	8,662	0	1,699	2,504	25,790	446	2,585	33,019	4,061	0	277	0
North Central:														
120 +	4,211	756	458	0	53	88	789	55	561	992	449	0	10	0
85 to 119	16,186	1,126	929	0	36	81	3,221	62	1,652	4,612	4,417	0	51	0
50 to 84	31,895	1,233	1,524	0	67	402	11,782	45	2,099	8,618	6,053	0	72	0
20 to 49	28,218	1,119	4,696	0	557	599	9,461	183	3,382	5,948	2,107	0	167	0
Other forest	1,470	10	755	0	12	92	264	13	84	52	51	0	135	2
Reserved	2,862	307	425	0	12	28	755	7	288	324	704	1	4	8
Total	84,842	4,551	8,787	0	737	1,290	26,272	365	8,066	20,546	13,781	1	439	10
Southeast:														
120 +	3,291	329	0	199	1,159	605	734	219	7	6	0	0	33	0
85 to 119	20,270	53	0	2,032	6,158	2,599	6,185	2,583	346	112	0	0	202	0
50 to 84	50,194	144	2	6,274	13,039	6,388	15,610	7,560	349	194	0	0	634	0
20 to 49	11,049	12	9	1,492	1,871	1,794	3,537	1,945	70	22	0	0	297	0
Other forest	1,160	0	0	2	0	0	11	361	12	0	0	66	615	91
Reserved	2,699	27	0	86	189	134	293	570	17	12	0	14	198	1,159
Total	88,663	565	11	10,085	22,416	11,520	26,370	13,238	801	346	0	80	1,979	1,250
South Central:														
120 +	32,038	34	0	746	9,837	5,582	8,831	6,341	524	90	0	0	54	0
85 to 119	35,893	20	0	1,313	10,364	6,236	12,181	5,214	348	144	0	0	74	0
50 to 84	33,138	32	0	937	6,133	5,120	16,452	3,771	353	218	0	0	122	0
20 to 49	15,126	21	0	136	1,158	1,485	10,785	862	303	360	0	0	17	0
Other forest	8,040	0	0	0	81	51	3,132	5	21	0	0	4,744	6	0
Reserved	1,202	6	0	6	107	112	438	40	6	0	0	0	107	380
Total	125,437	113	0	3,138	27,680	18,586	51,819	16,233	1,555	812	0	4,744	380	380
East total:														
120 +	43,086	1,523	750	945	11,136	6,419	11,379	6,654	1,422	2,272	489	0	97	0
85 to 119	82,243	2,319	2,157	3,345	16,760	9,367	25,086	7,916	2,553	7,408	4,999	0	332	0
50 to 84	138,331	3,754	4,424	7,211	19,603	12,723	50,980	11,516	3,236	16,583	7,470	0	833	0
20 to 49	96,773	3,562	7,865	1,628	4,483	4,895	36,547	3,179	5,088	25,092	3,859	0	574	0
Other forest	12,267	83	1,196	2	166	208	3,663	399	360	266	124	4,810	896	93
Reserved	11,726	429	1,068	92	382	290	2,595	620	346	3,100	901	15	343	1,547
Total	384,426	11,670	17,460	13,223	52,530	33,902	130,250	30,284	13,005	54,721	17,842	4,825	3,075	1,640

Table 6— (continued).

Subregion and productivity class[a]	All forest types	Forest type group												
		White-red-jack pine	Spruce-fir	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cotton-wood	Maple-beech-birch	Aspen-birch	Other forest types	Non-stocked	Un-known[b]
						Thousand acres								
						National forest								
Northeast:														
120 +	39	5	0	0	0	0	10	0	0	24	0	0	0	0
85 to 119	129	11	17	0	6	3	58	0	0	34	0	0	0	0
50 to 84	554	21	38	0	7	18	157	0	0	306	8	0	0	0
20 to 49	1,307	8	76	0	21	7	316	0	0	822	57	0	0	0
Other forest	235	0	171	0	0	0	5	0	12	24	0	0	23	0
Reserved	279	0	54	0	0	0	8	0	0	182	36	0	0	0
Total	2,543	45	356	0	34	28	554	0	12	1,392	101	0	23	0
North Central:														
120 +	342	157	67	0	6	7	39	3	3	22	37	0	0	0
85 to 119	1,549	274	203	0	12	3	153	0	27	308	568	0	0	0
50 to 84	3,307	279	276	0	16	100	1,000	5	50	877	699	0	4	0
20 to 49	2,676	224	672	0	162	73	581	0	208	423	323	0	9	0
Other forest	90	0	36	0	0	16	18	0	2	0	1	0	17	0
Reserved	1,100	205	227	0	3	14	113	0	35	74	429	0	0	0
Total	9,064	1,139	1,481	0	199	213	1,904	8	325	1,704	2,057	0	30	0
Southeast:														
120 +	281	51	0	4	45	53	110	11	0	6	0	0	0	0
85 to 119	832	2	0	76	227	83	369	40	7	27	0	0	2	0
50 to 84	2,310	38	2	268	379	272	1,162	126	0	38	0	0	25	0
20 to 49	1,171	4	4	144	164	165	586	93	0	4	0	0	7	0
Other forest	52	0	0	0	0	0	0	0	0	0	0	0	0	52
Reserved	823	27	0	24	77	45	155	64	3	12	0	8	61	349
Total	5,469	122	6	516	892	618	2,382	334	10	87	0	8	95	401
South Central:														
120 +	1,528	17	0	100	605	399	264	131	0	11	0	0	0	0
85 to 119	1,512	11	0	139	645	328	324	53	0	11	0	0	0	0
50 to 84	2,619	15	0	124	772	523	1,139	23	0	22	0	0	0	0
20 to 49	799	11	0	18	87	101	560	0	0	22	0	0	0	0
Other forest	11	0	0	0	0	0	11	0	0	0	0	0	0	0
Reserved	402	5	0	6	64	32	96	0	0	0	0	0	96	103
Total	6,871	59	0	387	2,173	1,383	2,394	207	0	66	0	0	96	103
East total:														
120 +	2,190	231	67	105	656	460	423	145	3	63	37	0	0	0
85 to 119	4,022	298	220	216	890	417	904	93	34	380	568	0	2	0
50 to 84	8,789	353	317	392	1,174	913	3,457	154	50	1,243	707	0	29	0
20 to 49	5,953	247	753	162	434	346	2,043	93	208	1,271	380	0	17	0
Other forest	389	0	207	0	0	16	34	0	14	24	1	0	40	52
Reserved	2,604	237	281	29	144	91	371	64	38	268	465	8	156	452
Total	23,947	1,366	1,845	904	3,298	2,243	7,232	549	347	3,249	2,158	8	244	504

Table 6—(continued).

Subregion and productivity class[a]	All forest types	Forest type group												
		White-red-jack pine	Spruce-fir	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cotton-wood	Maple-beech-birch	Aspen-birch	Other forest types	Non-stocked	Un-known[b]
						Thousand acres								
						Other public								
Northeast:														
120 +	234	49	49	0	2	5	44	0	21	57	7	0	0	0
85 to 119	603	130	27	0	23	51	168	6	21	158	19	0	0	0
50 to 84	1,884	168	206	0	57	58	765	28	24	479	98	0	0	0
20 to 49	4,853	234	106	0	285	133	2,042	29	144	1,740	140	0	0	0
Other forest	136	4	24	0	8	0	25	8	20	39	6	0	2	0
Reserved	4,659	90	583	0	74	15	1,101	2	35	2,572	154	0	34	0
Total	12,369	675	995	0	449	262	4,145	73	265	5,045	424	0	36	0
North Central:														
120 +	612	152	138	0	6	13	53	0	40	78	132	0	0	0
85 to 119	2,814	321	273	0	0	3	292	7	213	402	1,292	0	11	0
50 to 84	5,593	420	474	0	4	21	1,025	7	297	1,307	2,016	0	22	0
20 to 49	5,740	503	2,148	0	29	15	748	23	744	741	723	0	66	0
Other forest	763	0	621	0	0	0	14	13	31	2	25	0	57	0
Reserved	1,656	62	172	0	9	14	631	7	239	245	268	1	3	6
Total	17,178	1,458	3,826	0	48	66	2,763	57	1,564	2,775	4,456	1	159	6
Southeast:														
120 +	140	3	0	35	52	25	16	7	1	0	0	0	0	0
85 to 119	904	4	0	191	257	109	160	158	19	2	0	0	4	0
50 to 84	2,453	6	0	525	516	218	483	650	19	0	0	0	35	0
20 to 49	1,283	0	0	346	212	290	181	225	1	2	0	0	26	0
Other forest	750	0	0	1	0	0	2	252	2	0	0	49	420	24
Reserved	1,876	0	0	62	113	90	138	506	14	0	0	6	138	810
Total	7,406	13	0	1,160	1,150	732	980	1,798	56	4	0	55	623	834
South Central:														
120 +	1,368	0	0	28	258	219	317	479	61	0	0	0	7	0
85 to 119	1,512	6	0	29	209	192	411	574	62	5	0	0	24	0
50 to 84	1,399	5	0	51	115	178	641	344	54	6	0	0	5	0
20 to 49	681	0	0	12	59	100	394	107	0	9	0	0	0	0
Other forest	58	0	0	0	13	0	41	0	4	0	0	0	0	0
Reserved	795	1	0	0	43	80	342	40	6	0	0	0	6	277
Total	5,813	12	0	120	697	769	2,146	1,544	187	20	0	0	42	277
East total:														
120 +	2,354	203	187	63	318	263	430	486	122	136	138	0	7	0
85 to 119	5,833	461	300	220	489	354	1031	746	314	568	1,311	0	39	0
50 to 84	11,329	599	681	576	693	475	2,914	1,029	395	1,791	2,114	0	62	0
20 to 49	12,557	737	2,255	357	584	539	3,365	383	888	2,493	863	0	92	0
Other forest	1,707	4	645	1	22	0	82	273	57	40	31	49	479	24
Reserved	8,986	152	755	62	238	199	2,212	556	293	2,817	423	7	180	1,092
Total	42,766	2,156	4,823	1,279	2,344	1,830	10,034	3,473	2,069	7,845	4,880	56	859	1,116

Table 6—(continued).

Subregion and productivity class[a]	All forest types	Forest type group: White-red-jack pine	Spruce-fir	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cotton-wood	Maple-beech-birch	Aspen-birch	Other forest types	Non-stocked	Un-known[b]
						Thousand acres								
						Forest industry								
Northeast:														
120 +	241	35	46	0	18	2	52	0	12	71	7	0	0	0
85 to 119	1,121	43	378	0	10	24	179	3	6	417	62	0	0	0
50 to 84	3,696	139	1,497	0	38	38	317	7	39	1,277	343	0	0	0
20 to 49	5,938	166	1,389	0	30	62	350	3	27	3,455	441	0	15	0
Other forest	162	0	108	0	0	0	0	0	21	7	6	0	21	0
Reserved	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	11,158	383	3,418	0	96	126	898	13	105	5,227	859	0	36	0
North Central:														
120 +	121	15	46	0	0	0	15	0	2	21	24	0	0	0
85 to 119	698	79	103	0	0	2	32	0	17	183	279	0	4	0
50 to 84	1,496	101	150	0	4	14	180	0	48	670	328	0	1	0
20 to 49	1,480	71	409	0	13	16	194	0	136	528	112	0	1	0
Other forest	18	0	11	0	0	0	1	0	1	0	1	0	3	0
Reserved	2	2	0	0	0	0	0	0	0	0	0	0	0	0
Total	3,815	268	719	0	17	32	422	0	204	1,402	744	0	9	0
Southeast:														
120 +	381	12	0	46	186	57	27	33	3	0	0	0	16	0
85 to 119	3,337	0	0	648	1,525	283	344	403	51	1	0	0	82	0
50 to 84	9,143	5	0	2,112	3,648	715	843	1,607	50	1	0	0	162	0
20 to 49	1,648	0	0	276	412	208	150	504	16	0	0	0	81	0
Other forest	3	0	0	0	0	0	0	1	0	0	0	0	1	0
Reserved	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	14,512	17	0	3,082	5,771	1,263	1,364	2,548	120	2	0	0	342	0
South Central:														
120 +	7,503	5	0	273	3,222	1,210	1,259	1,433	83	0	0	0	19	0
85 to 119	8,623	0	0	498	4,095	1,632	1,467	892	24	0	0	0	16	0
50 to 84	5,529	0	0	355	2,404	966	1,220	538	16	7	0	0	23	0
20 to 49	874	0	0	28	270	121	378	69	3	6	0	0	0	0
Other forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reserved	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	22,529	5	0	1,154	9,991	3,929	4,324	2,932	126	13	0	0	58	0
East total:														
120 +	8,247	66	91	319	3,426	1,269	1,354	1,466	99	92	31	0	35	0
85 to 119	13,779	122	481	1,146	5,630	1,940	2,021	1,299	98	600	341	0	102	0
50 to 84	19,863	245	1,647	2,467	6,094	1,733	2,560	2,152	153	1,955	671	0	186	0
20 to 49	9,940	237	1,798	304	725	407	1,072	576	181	3,989	552	0	97	0
Other forest	182	0	119	0	0	0	1	1	22	7	7	0	25	0
Reserved	2	2	0	0	0	0	0	0	0	0	0	0	0	0
Total	52,013	672	4,136	4,236	15,875	5,349	7,008	5,494	553	6,643	1,602	0	445	0

Table 6—(continued).

Subregion and productivity class[a]	All forest types	Forest type group												
		White-red-jack pine	Spruce-fir	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cotton-wood	Maple-beech-birch	Aspen-birch	Other forest types	Non-stocked	Un-known[b]
						Thousand acres								
						Nonindustrial private								
Northeast:														
120 +	3,031	315	197	0	67	137	919	38	298	1,032	27	0	0	0
85 to 119	8,039	935	806	0	164	374	3,094	47	181	1,932	501	0	5	0
50 to 84	16,972	2,016	1,156	0	262	700	5,898	104	372	5,491	968	0	5	0
20 to 49	30,282	2,002	1,589	0	560	814	10,058	158	1,164	12,745	1,116	0	78	0
Other forest	1,064	69	138	0	65	64	226	12	191	144	61	0	94	0
Reserved	25	0	6	0	0	0	0	0	0	12	7	0	0	0
Total	59,413	5,337	3,892	0	1,118	2,089	20,195	359	2,206	21,356	2,680	0	182	0
North Central:														
120 +	3,135	432	207	0	41	68	682	52	517	871	255	0	10	0
85 to 119	11,126	453	351	0	24	73	2,744	54	1,395	3,718	2,278	0	36	0
50 to 84	21,498	433	623	0	43	266	9,576	33	1,704	5,764	3,010	0	45	0
20 to 49	18,323	321	1,466	0	354	496	7,937	160	2,293	4,256	949	0	91	0
Other forest	599	10	87	0	12	76	231	0	50	50	23	0	58	2
Reserved	104	38	26	0	0	0	12	0	14	4	7	0	1	2
Total	54,785	1,687	2,760	0	474	979	21,182	299	5,973	14,663	6,522	0	241	4
Southeast:														
120 +	2,490	263	0	114	877	469	580	168	3	0	0	0	16	0
85 to 119	15,197	47	0	1,117	4,149	2,125	5,313	1,981	270	83	0	0	113	0
50 to 84	36,288	95	0	3,369	8,496	5,182	13,122	5,178	279	155	0	0	412	0
20 to 49	6,946	8	5	726	1,084	1,131	2,619	1,123	53	15	0	0	182	0
Other forest	355	0	0	1	0	0	9	109	9	0	0	17	194	15
Reserved	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	61,276	413	5	5,327	14,606	8,907	21,643	8,559	614	253	0	17	917	15
South Central:														
120 +	21,639	12	0	345	5,753	3,754	6,991	4,299	380	78	0	0	28	0
85 to 119	24,247	3	0	647	5,415	4,085	9,979	3,694	261	128	0	0	34	0
50 to 84	23,592	11	0	407	2,842	3,453	13,453	2,866	283	184	0	0	93	0
20 to 49	12,772	10	0	79	741	1,163	9,453	685	300	324	0	0	17	0
Other forest	7,971	0	0	0	67	51	3,080	5	17	0	0	4,744	6	0
Reserved	6	0	0	0	0	0	0	0	0	0	0	0	6	0
Total	90,227	36	0	1,478	14,818	12,506	42,956	11,549	1,241	714	0	4,744	184	0
East total:														
120 +	30,295	1,022	404	458	6,737	4,427	9,172	4,557	1,198	1,982	283	0	55	0
85 to 119	58,609	1,438	1,157	1,764	9,751	6,656	21,130	5,778	2,106	5,860	2,779	0	189	0
50 to 84	98,350	2,556	1,779	3,776	11,643	9,601	42,049	8,181	2,638	11,593	3,978	0	556	0
20 to 49	68,323	2,341	3,059	805	2,739	3,603	30,066	2,127	3,810	17,340	2,064	0	367	0
Other forest	9,989	79	225	1	144	192	3,546	126	267	195	84	4,761	352	17
Reserved	135	38	32	0	0	0	12	0	14	16	13	0	7	2
Total	265,701	7,474	6,656	6,804	31,014	24,479	105,975	20,769	10,033	36,986	9,201	4,761	1,526	19

[a] Productivity classes are displayed as cubic feet per acre per year.

[b] Poorly stocked reserved and other forest lands have insufficient data to determine a forest type.

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

Table 7—Forest land area in the Eastern and Western United States by rural-urban continuum class and forest type group, 1997

Forest type group	Total	Predominant county population continuum class				
		Major metro	Intermediate-small metro	Large town	Small town	Rural
			Thousand acres			
East:						
White-red-jack pine	11,669	1,958	2,275	452	4,765	2,218
Spruce-fir	17,460	275	2,250	2,436	9,738	2,760
Longleaf-slash pine	13,223	2,726	1,387	384	5,979	2,746
Loblolly-shortleaf pine	52,530	8,851	5,567	1,893	25,295	10,924
Oak-pine	33,901	6,588	3,872	1,087	15,139	7,216
Oak-hickory	130,250	25,809	15,597	2,948	55,276	30,621
Oak-gum-cypress	30,285	5,935	3,891	950	14,341	5,169
Elm-ash-cottonwood	13,004	3,225	1,915	527	5,464	1,873
Maple-beech-birch	54,722	8,255	7,958	4,115	25,503	8,891
Aspen-birch	17,842	514	2,755	1,028	8,893	4,652
Other forest types	4,825	29	105	683	2,051	1,957
Nonstocked	3,075	692	761	63	1,001	558
Unknown[a]	1,640	458	155	57	436	534
East total:	384,426	65,315	48,490	16,622	173,879	80,120
West:						
Douglas-fir	41,875	4,489	6,460	4,259	14,515	12,152
Ponderosa pine	33,151	2,193	2,795	4,726	12,237	11,200
Western white pine	591	175	37	12	331	36
Fir-spruce	69,686	2,141	2,057	2,696	10,608	52,185
Hemlock-Sitka spruce	21,418	1,533	1,934	1,119	3,280	13,552
Larch	1,274	4	42	245	657	327
Lodgepole pine	17,515	205	390	2,421	5,337	9,162
Redwood	916	201	302	343	69	0
Other softwoods	42,519	6,264	5,359	3,277	9,541	18,077
Western hardwoods	75,001	3,625	839	484	3,554	66,499
Pinyon-juniper	49,416	2,932	2,920	8,887	17,607	17,070
Chaparral	5,187	3,324	612	29	1,000	221
Nonstocked	3,693	247	372	677	604	1,794
Unknown[a]	291	36	29	175	25	25
West total:	362,532	27,369	24,148	29,350	79,365	202,299
United States:	746,958	92,684	72,638	45,972	253,245	282,419

[a] Some low productivity and reserved forest land has not been inventoried and its forest type group remains unclassified.

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

Table 8—Area of planted and natural forest land in the Northern, Southern, and Western United States by forest type group and major ownership group, 1997.

Forest type group[a]	All owners			National Forest			Other public		
	Total	Planted	Natural	Total	Planted	Natural	Total	Planted	Natural
	Thousand acres								
Northern:									
White-red-jack pine	10,991	2,729	8,262	1,185	554	631	2,132	715	1,417
Spruce-fir	17,449	469	16,980	1,838	69	1,769	4,822	112	4,710
Longleaf-slash pine	0	0	0	0	0	0	0	0	0
Loblolly-shortleaf pine	2,434	252	2,183	233	87	147	496	27	470
Oak-pine	3,794	188	3,606	241	32	209	329	33	296
Oak-hickory	52,062	256	51,806	2,456	14	2,443	6,908	29	6,880
Oak-gum-cypress	812	4	808	8	0	8	130	0	130
Elm-ash-cottonwood	10,651	79	10,571	337	0	337	1,828	14	1,814
Maple-beech-birch	53,565	270	53,295	3,096	18	3,079	7,820	38	7,782
Aspen-birch	17,842	60	17,782	2,159	2	2,156	4,881	3	4,877
Other forest types	1	0	1	0	0	0	1	0	1
Nonstocked	716	13	704	54	0	54	195	1	194
Unknown[b]	10	0	10	0	0	0	6	0	6
Northern Total:	170,326	4,319	166,007	11,608	775	10,833	29,548	973	28,575
Southern:									
White-red-jack pine	677	104	573	182	6	175	24	1	23
Spruce-fir	11	0	11	6	0	6	0	0	0
Longleaf-slash pine	13,223	7,839	5,384	903	254	650	1,279	391	888
Loblolly-shortleaf pine	50,096	22,085	28,011	3,064	694	2,371	1,847	370	1,477
Oak-pine	30,107	3,950	26,157	2,002	172	1,830	1,501	88	1,414
Oak-hickory	78,189	1,533	76,656	4,776	94	4,682	3,125	22	3,103
Oak-gum-cypress	29,473	158	29,315	542	0	542	3,342	14	3,329
Elm-ash-cottonwood	2,354	41	2,313	10	0	10	242	0	242
Maple-beech-birch	1,157	8	1,150	152	0	152	25	0	25
Aspen-birch	0	0	0	0	0	0	0	0	0
Other forest types	4,824	0	4,824	8	0	8	55	0	55
Nonstocked	2,358	87	2,271	191	3	188	665	8	658
Unknown[b]	1,630	0	1,630	504	0	504	1,111	0	1,111
Southern Total:	214,100	35,805	178,295	12,340	1,223	11,117	13,217	893	12,324
Western[c]:									
Douglas-fir	41,875	7,402 [c]	34,473	22,598	[c]	[c]	6,117	[c]	[c]
Ponderosa pine	33,151	2,328 [c]	30,823	17,386	[c]	[c]	2,605	[c]	[c]
Western white pine	591	45 [c]	546	540	[c]	[c]	9	[c]	[c]
Fir-spruce	69,686	1,216 [c]	68,470	23,091	[c]	[c]	21,781	[c]	[c]
Hemlock-Sitka spruce	21,418	194 [c]	21,224	14,583	[c]	[c]	3,098	[c]	[c]
Larch	1,274	859 [c]	415	789	[c]	[c]	102	[c]	[c]
Lodgepole pine	17,515	988 [c]	16,527	12,748	[c]	[c]	2,915	[c]	[c]
Redwood	916	0 [c]	916	8	[c]	[c]	259	[c]	[c]
Other softwoods	42,519	195 [c]	42,324	9,181	[c]	[c]	11,474	[c]	[c]
Western hardwoods	75,001	397 [c]	74,604	8,505	[c]	[c]	53,424	[c]	[c]
Pinyon-juniper	49,416	0 [c]	49,416	11,430	[c]	[c]	22,706	[c]	[c]
Chaparral	5,187	0 [c]	5,187	126	[c]	[c]	1,695	[c]	[c]
Nonstocked	3,693	0 [c]	3,693	1,843	[c]	[c]	468	[c]	[c]
Unknown[b]	291	0 [c]	291	0	[c]	[c]	282	[c]	[c]
Western Total:	362,532	13,624 [c]	348,908	122,829	[c]	[c]	126,933	[c]	[c]
United States:	746,958	53,748 [c]	693,210	146,777	[c]	[c]	169,699	[c]	[c]

Table 8—(continued).

Forest type group[a]	Forest industry			Nonindustrial private		
	Total	Planted	Natural	Total	Planted	Natural
	Thousand acres					
Northern:						
White-red-jack pine	650	210	439	7,025	1,249	5,775
Spruce-fir	4,137	85	4,052	6,651	203	6,448
Longleaf-slash pine	0	0	0	0	0	0
Loblolly-shortleaf pine	114	38	76	1,591	100	1,490
Oak-pine	156	4	152	3,067	119	2,949
Oak-hickory	1,319	25	1,294	41,377	188	41,189
Oak-gum-cypress	13	0	13	660	4	656
Elm-ash-cottonwood	308	0	308	8,178	65	8,113
Maple-beech-birch	6,628	32	6,597	36,020	182	35,838
Aspen-birch	1,602	8	1,593	9,201	46	9,155
Other forest types	0	0	0	0	0	0
Nonstocked	45	3	42	423	9	414
Unknown[b]	0	0	0	4	0	4
Northern Total:	14,972	405	14,567	114,197	2,166	112,031
Southern:						
White-red-jack pine	21	14	7	450	83	367
Spruce-fir	0	0	0	5	0	5
Longleaf-slash pine	4,236	3,491	744	6,805	3,703	3,102
Loblolly-shortleaf pine	15,761	10,946	4,815	29,423	10,075	19,348
Oak-pine	5,192	1,775	3,416	21,412	1,915	19,498
Oak-hickory	5,688	623	5,065	64,599	794	63,805
Oak-gum-cypress	5,480	49	5,431	20,109	95	20,014
Elm-ash-cottonwood	246	15	231	1,856	26	1,830
Maple-beech-birch	14	0	14	966	8	959
Aspen-birch	0	0	0	0	0	0
Other forest types	0	0	0	4,761	0	4,761
Nonstocked	400	33	367	1,102	43	1,059
Unknown[b]	0	0	0	15	0	15
Southern Total:	37,040	16,948	20,092	151,503	16,742	134,761
Western[c]:						
Douglas-fir	5,899	[c]	[c]	7,261	[c]	[c]
Ponderosa pine	2,562	[c]	[c]	10,597	[c]	[c]
Western white pine	16	[c]	[c]	26	[c]	[c]
Fir-spruce	1,550	[c]	[c]	23,265	[c]	[c]
Hemlock-Sitka spruce	1,868	[c]	[c]	1,869	[c]	[c]
Larch	168	[c]	[c]	215	[c]	[c]
Lodgepole pine	557	[c]	[c]	1,296	[c]	[c]
Redwood	399	[c]	[c]	250	[c]	[c]
Other softwoods	1,991	[c]	[c]	19,873	[c]	[c]
Western hardwoods	103	[c]	[c]	12,969	[c]	[c]
Pinyon-juniper	127	[c]	[c]	15,153	[c]	[c]
Chaparral	91	[c]	[c]	3,275	[c]	[c]
Nonstocked	343	[c]	[c]	1,038	[c]	[c]
Unknown[b]	—	[c]	[c]	9	[c]	[c]
Western Total:	15,675	[c]	[c]	97,095	[c]	[c]
United States:	67,687	[c]	[c]	362,796	[c]	[c]

[a] Forest type reflects the current dominant species by plurality of stocking and may not reflect the actual species planted at the time of stand origin.

[b] Some low productivity and reserved forest land has not been inventoried and its forest type group remains unclassified.

[c] Approximately 13.6 million acres of forest in the West are planted, primarily to augment natural regeneration after a harvest and assure adequate stocking of desired species. The species planted are usually native, making these stands difficult to detect during field sampling. Additionally, there are thousands of acres of more traditional "plantations" such as those found in the east that are not currently identified during field sampling. Refer to the text accompanying this report for a discussion of planted forest in the west.

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

Table 9—Forest land area in the United States by average d.b.h. class and forest type group, 1997

Forest type group	Total	Average d.b.h class (inches)			
		1.0-4.9	5.0-9.9	10.0+	Un-determined[a]
		Thousand acres			
East:					
White-red-jack pine	11,669	1,502	2,695	7,472	1
Spruce-fir	17,460	6,114	6,504	4,630	211
Longleaf-slash pine	13,223	4,458	4,207	4,502	55
Loblolly-shortleaf pine	52,530	16,795	15,140	20,461	134
Oak-pine	33,901	12,034	8,416	13,417	33
Oak-hickory	130,250	28,311	36,568	63,517	1,854
Oak-gum-cypress	30,285	5,413	6,040	18,170	661
Elm-ash-cottonwood	13,004	3,241	3,764	5,970	29
Maple-beech-birch	54,722	8,770	17,307	28,645	0
Aspen-birch	17,842	6,695	7,182	3,961	4
Other forest types	4,825	0	1	0	4,824
Nonstocked	3,075	2,367	0	0	708
Unknown[b]	1,640	7	0	8	1,625
East total:	384,426	95,709	107,824	170,754	10,139
West:					
Douglas-fir	41,875	6,607	3,879	29,586	1,804
Ponderosa pine	33,151	4,095	3,133	24,905	1,017
Western white pine	591	118	47	381	45
Fir-spruce	69,686	14,422	5,577	25,078	24,609
Hemlock-Sitka spruce	21,418	2,312	1,217	13,520	4,369
Larch	1,274	240	254	742	38
Lodgepole pine	17,515	2,944	5,689	6,489	2,394
Redwood	916	32	43	666	174
Other softwoods	75,001	4,801	1,261	2,237	66,702
Western hardwoods	42,519	7,189	12,916	11,447	10,967
Pinyon-juniper	49,416	5,914	16,658	21,492	5,352
Chaparral	5,187	31	10	84	5,061
Nonstocked	3,693	2,652	8	0	1,034
Unknown[b]	291	0	0	0	291
West total:	362,532	51,358	50,690	136,627	123,857
United States:	746,958	147,066	158,514	307,381	133,996

[a] Undetermined stands are predominantly in reserved and low productivity forests that currently do not have field data to establish average d.b.h.

[b] Some low productivity and reserved forest land has not been inventoried and its forest type group remains unclassified.

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

Table 10—Timberland area in the United States by ownership, region, subregion, and State, 1997, 1987, 1977, 1963, and 1953

Region, subregion, and State	Year	All ownerships	Public							Private[a]		
				Federal								
			Total public	Total Federal	National forest	Bureau of Land Management	Other	State	County and municipal	Total private	Forest industry	Non-industrial private
			Thousand acres									
North:												
Northeast:												
Connecticut	1997	1,815	249	10	0	0	10	163	77	1,565	0	1,565
	1987	1,776	246	16	0	0	16	156	74	1,530	0	1,530
	1977	1,806	147	2	0	0	2	120	24	1,659	0	1,659
	1963	1,894	155	1	0	0	1	122	32	1,739	3	1,736
	1953	1,973	155	1	0	0	1	122	32	1,818	3	1,815
Delaware	1997	376	13	0	0	0	0	13	0	363	31	332
	1987	388	14	0	0	0	0	14	0	374	30	344
	1977	384	14	1	0	0	1	13	0	370	30	341
	1963	391	9	1	0	0	1	8	0	382	25	357
	1953	392	13	1	0	0	1	10	2	379	21	358
Maine	1997	16,952	629	51	32	0	20	469	109	16,323	7,298	9,024
	1987	17,174	495	76	46	0	30	331	88	16,679	8,286	8,393
	1977	16,864	541	73	38	0	36	354	114	16,323	8,083	8,240
	1963	16,779	205	66	39	0	27	64	75	16,574	6,521	10,053
	1953	16,609	182	90	39	0	51	41	51	16,427	6,617	9,810
Maryland	1997	2,423	281	22	0	0	22	236	23	2,143	137	2,006
	1987	2,462	280	22	0	0	22	236	22	2,182	133	2,049
	1977	2,523	243	25	0	0	25	185	33	2,280	139	2,141
	1963	2,846	214	54	0	0	54	128	32	2,632	57	2,575
	1953	2,855	214	54	0	0	54	128	32	2,641	57	2,584
Massachusetts	1997	2,965	480	48	0	0	48	275	157	2,486	71	2,415
	1987	3,010	474	40	0	0	40	292	142	2,536	81	2,455
	1977	2,798	365	10	0	0	10	240	116	2,432	30	2,402
	1963	3,041	399	29	0	0	29	280	90	2,642	30	2,612
	1953	3,259	399	29	0	0	29	280	90	2,860	259	2,601
New Hampshire	1997	4,551	793	440	417	0	22	228	125	3,758	513	3,246
	1987	4,803	788	536	506	0	30	133	119	4,015	662	3,353
	1977	4,692	580	472	459	0	13	79	29	4,112	947	3,165
	1963	4,938	697	579	569	0	10	66	52	4,241	793	3,448
	1953	4,819	682	585	580	0	5	45	52	4,137	771	3,366
New Jersey	1997	1,864	500	49	0	0	49	351	100	1,364	0	1,364
	1987	1,914	533	246	0	0	246	224	63	1,381	0	1,381
	1977	1,857	319	28	0	0	28	246	45	1,538	16	1,522
	1963	2,262	254	17	0	0	17	237	0	2,008	4	2,004
	1953	2,050	181	1	0	0	1	130	50	1,869	4	1,865
New York	1997	15,406	1,154	86	9	0	77	852	215	14,252	1,220	13,032
	1987	15,798	1,215	123	6	0	117	899	193	14,583	1,116	13,467
	1977	15,405	979	95	6	0	89	721	163	14,426	1,034	13,392
	1963	13,417	895	98	0	0	98	714	83	12,522	1,172	11,350
	1953	11,952	895	98	0	0	98	714	83	11,057	1,172	9,885
Pennsylvania	1997	15,853	3,519	498	446	0	51	2,788	233	12,334	613	11,721
	1987	15,918	3,487	543	478	0	65	2,731	213	12,431	879	11,552
	1977	15,924	3,471	503	485	0	18	2,796	173	12,453	964	11,489
	1963	16,279	3,300	485	450	0	35	2,659	156	12,979	442	12,537
	1953	14,574	3,229	492	454	0	38	2,580	157	11,345	442	10,903

Table 10—(continued)

Region, subregion, and State	Year	All owner-ships	Public							Privatea		
				Federal								
			Total public	Total Federal	National 'forest	Bureau of Land Manage-ment	Other	State	County and muni-cipal	Total private	Forest industry	Non-industrial private
						Thousand acres						
Rhode Island	1997	356	69	5	0	0	5	64	0	287	0	287
	1987	368	78	3	0	0	3	68	7	290	0	290
	1977	395	32	0	0	0	0	20	12	363	0	363
	1963	429	26	0	0	0	0	13	13	403	0	403
	1953	430	26	0	0	0	0	13	13	404	0	404
Vermont	1997	4,461	593	251	221	0	31	271	70	3,868	227	3,642
	1987	4,424	660	251	251	0	0	330	79	3,764	352	3,412
	1977	4,430	422	213	209	0	4	168	41	4,008	666	3,342
	1963	4,211	329	231	223	0	8	79	19	3,882	528	3,354
	1953	3,846	297	199	191	0	8	79	19	3,549	528	3,021
West Virginia	1997	11,900	1,324	1,033	904	0	128	253	38	10,576	887	9,689
	1987	11,799	1,320	1,070	916	0	154	250	0	10,479	1,036	9,443
	1977	11,484	1,121	892	853	0	39	229	0	10,363	880	9,483
	1963	11,389	1,036	883	869	0	14	144	9	10,353	530	9,823
	1953	10,276	982	895	881	0	14	83	4	9,294	270	9,024
Northeast total:	1997	78,923	9,603	2,491	2,029	0	462	5,966	1,146	69,320	10,996	58,324
	1987	79,834	9,590	2,926	2,203	0	723	5,665	1,000	70,244	12,575	57,669
	1977	78,561	8,233	2,312	2,049	0	263	5,171	750	70,328	12,789	57,539
	1963	77,875	7,519	2,444	2,150	0	294	4,514	561	70,356	10,105	60,251
	1953	73,035	7,255	2,445	2,145	0	300	4,225	585	65,780	10,144	55,636
North Central:												
Illinois	1997	4,058	417	321	254	0	66	55	42	3,641	13	3,628
	1987	4,030	389	292	226	0	66	55	42	3,641	13	3,628
	1977	4,033	330	273	211	0	62	22	35	3,703	15	3,688
	1963	4,034	240	229	188	0	42	11	0	3,794	17	3,777
	1953	3,830	226	216	184	0	32	10	0	3,604	10	3,594
Indiana	1997	4,342	624	373	170	0	203	238	13	3,719	17	3,701
	1987	4,296	535	329	166	0	163	177	29	3,761	18	3,743
	1977	3,815	410	239	162	0	77	170	1	3,405	27	3,378
	1963	3,930	294	177	112	0	65	115	2	3,636	9	3,627
	1953	4,015	283	172	112	0	60	109	2	3,732	9	3,723
Iowa	1997	1,944	156	44	0	0	44	74	38	1,788	0	1,788
	1987	1,460	102	43	0	0	43	52	7	1,358	0	1,358
	1977	1,460	111	55	0	0	55	51	5	1,350	17	1,333
	1963	2,000	53	29	3	0	26	22	3	1,947	6	1,940
	1953	2,595	36	12	3	0	9	22	2	2,559	0	2,559
Michigan	1997	18,667	6,628	2,643	2,593	0	50	3,728	256	12,039	1,514	10,525
	1987	17,364	6,288	2,520	2,475	0	45	3,581	187	11,076	1,966	9,110
	1977	18,199	6,360	2,489	2,435	8	45	3,763	109	11,839	2,137	9,702
	1963	19,121	6,288	2,509	2,410	9	90	3,695	85	12,832	1,548	11,284
	1953	19,121	6,288	2,509	2,410	9	90	3,695	85	12,832	1,548	11,284
Minnesota	1997	14,819	7,680	2,115	1,917	26	172	3,063	2,503	7,139	751	6,388
	1987	13,572	6,814	1,826	1,670	44	112	2,654	2,334	6,758	788	5,970
	1977	13,695	6,862	1,870	1,715	10	145	2,651	2,342	6,834	772	6,062
	1963	15,412	7,638	2,298	2,142	64	92	2,611	2,730	7,774	716	7,058
	1953	16,580	8,407	2,338	2,195	49	94	2,450	3,619	8,173	578	7,595

Table 10—(continued)

Region, subregion, and State	Year	All ownerships	Public							Private[a]		
				Federal								
			Total public	Total Federal	National forest	Bureau of Land Management	Other	State	County and municipal	Total private	Forest industry	Non-industrial private
			Thousand acres									
Missouri	1997	13,411	2,052	1,608	1,361	0	246	403	42	11,359	222	11,137
	1987	11,995	1,657	1,390	1,303	0	87	242	25	10,338	231	10,107
	1977	12,289	1,532	1,313	1,246	0	67	187	32	10,757	362	10,394
	1963	13,500	1,571	1,362	1,311	0	51	184	25	11,929	280	11,649
	1953	14,300	1,617	1,461	1,339	1	121	156	0	12,683	460	12,223
Ohio	1997	7,568	531	220	216	0	4	227	84	7,036	174	6,862
	1987	7,141	423	171	171	0	0	173	79	6,718	186	6,532
	1977	6,916	411	168	159	0	9	202	42	6,505	186	6,319
	1963	6,041	360	88	88	0	0	231	41	5,681	74	5,607
	1953	5,450	297	88	88	0	0	168	41	5,153	30	5,123
Wisconsin	1997	15,701	4,546	1,520	1,363	0	157	744	2,282	11,155	1,102	10,053
	1987	14,726	4,167	1,419	1,242	0	177	569	2,179	10,559	1,159	9,400
	1977	14,478	4,318	1,383	1,266	0	117	568	2,366	10,161	1,148	9,012
	1963	14,693	4,459	1,487	1,372	5	110	541	2,431	10,234	933	9,301
	1953	15,349	4,720	1,624	1,357	5	262	444	2,652	10,629	942	9,687
North Central total:	1997	80,510	22,633	8,843	7,874	26	942	8,530	5,260	57,877	3,795	54,082
	1987	74,584	20,375	7,990	7,253	44	693	7,503	4,882	54,209	4,361	49,848
	1977	74,885	20,333	7,790	7,194	18	578	7,613	4,931	54,552	4,664	49,887
	1963	78,731	20,905	8,179	7,626	78	476	7,410	5,316	57,826	3,583	54,243
	1953	81,240	21,875	8,420	7,688	64	668	7,054	6,401	59,365	3,577	55,788
North total:	1997	159,433	32,237	11,334	9,904	26	1,404	14,497	6,406	127,197	14,791	112,406
	1987	154,418	29,965	10,916	9,456	44	1,416	13,168	5,882	124,453	16,936	107,517
	1977	153,446	28,566	10,102	9,243	18	841	12,784	5,681	124,880	17,453	107,426
	1963	156,606	28,424	10,623	9,776	78	770	11,924	5,877	128,182	13,688	114,494
	1953	154,275	29,130	10,865	9,833	64	968	11,279	6,986	125,145	13,721	111,424
South:												
Southeast:												
Florida	1997	14,605	2,786	1,570	984	0	586	1,138	78	11,819	4,016	7,803
	1987	14,983	2,434	1,561	990	0	571	814	59	12,549	4,770	7,779
	1977	15,843	2,151	1,579	1,005	0	574	532	40	13,692	4,658	9,034
	1963	16,830	2,201	1,621	1,030	3	588	540	40	14,629	4,767	9,862
	1953	18,135	2,215	1,777	1,035	14	728	382	56	15,920	4,369	11,551
Georgia	1997	23,796	1,751	1,380	711	0	669	260	111	22,045	4,381	17,664
	1987	23,660	1,609	1,421	790	0	631	118	70	22,051	4,983	17,068
	1977	24,106	1,589	1,453	813	0	640	100	36	22,517	4,629	17,888
	1963	26,298	1,813	1,678	746	0	932	111	24	24,485	4,068	20,417
	1953	23,969	1,685	1,560	644	0	916	102	23	22,284	4,246	18,038
North Carolina	1997	18,639	1,878	1,448	1,011	0	437	346	84	16,760	2,252	14,508
	1987	18,749	1,861	1,440	1,025	0	415	339	82	16,888	2,337	14,551
	1977	19,435	1,717	1,319	1,029	0	290	320	78	17,718	2,140	15,578
	1963	19,989	1,664	1,291	1,033	0	257	307	66	18,326	2,495	15,831
	1953	19,582	1,540	1,251	1,020	0	232	253	36	18,043	2,584	15,459
South Carolina	1997	12,419	1,078	867	524	0	343	177	33	11,341	2,322	9,019
	1987	12,179	1,173	913	577	0	336	233	27	11,006	2,626	8,380
	1977	12,496	1,085	895	573	0	322	167	23	11,411	2,215	9,196
	1963	12,170	1,034	858	564	0	294	153	23	11,137	2,010	9,127
	1953	11,884	955	802	563	0	239	128	25	10,929	1,650	9,279

Table 10—(continued)

Region, subregion, and State	Year	All owner-ships	Public							Private[a]		
				Federal								
			Total public	Total Federal	National forest	Bureau of Land Manage-ment	Other	State	County and muni-cipal	Total private	Forest industry	Non-industrial private
			Thousand acres									
Virginia	1997	15,345	1,880	1,586	1,365	0	221	211	83	13,465	1,537	11,927
	1987	15,570	1,993	1,707	1,486	0	221	209	77	13,577	1,834	11,743
	1977	15,939	1,921	1,669	1,424	0	245	183	69	14,018	1,670	12,348
	1963	15,752	1,536	1,395	1,203	0	192	88	52	14,218	1,454	12,764
	1953	15,497	1,493	1,355	1,198	0	157	86	52	14,004	1,095	12,909
Southeast total:	1997	84,803	9,373	6,851	4,594	0	2,257	2,133	389	75,430	14,508	60,922
	1987	85,141	9,070	7,042	4,868	0	2,174	1,713	315	76,071	16,550	59,521
	1977	87,818	8,462	6,914	4,843	0	2,071	1,303	246	79,356	15,312	64,044
	1963	91,040	8,246	6,842	4,575	3	2,264	1,199	205	82,794	14,794	68,000
	1953	89,067	7,887	6,745	4,459	14	2,272	951	192	81,180	13,944	67,236
South Central:												
Alabama	1997	21,911	1,130	823	573	0	250	212	95	20,781	4,796	15,985
	1987	21,659	1,161	951	689	5	257	147	63	20,498	4,464	16,034
	1977	21,498	1,091	860	659	0	201	172	59	20,407	4,330	16,077
	1963	21,744	1,003	800	630	3	167	157	46	20,741	3,818	16,923
	1953	20,756	968	791	616	10	165	150	27	19,788	3,138	16,650
Arkansas	1997	18,392	3,275	2,813	2,350	0	463	394	67	15,118	4,498	10,620
	1987	16,673	3,011	2,659	2,329	0	330	311	41	13,662	4,240	9,422
	1977	16,793	2,918	2,658	2,350	1	307	240	20	13,875	4,156	9,719
	1963	19,971	2,856	2,651	2,385	3	263	194	11	17,115	4,007	13,108
	1953	19,627	2,916	2,799	2,292	122	385	115	2	16,711	4,157	12,554
Kentucky	1997	12,347	1,004	863	628	0	235	141	0	11,344	205	11,139
	1987	11,909	890	856	583	0	273	34	0	11,019	205	10,814
	1977	11,902	895	819	589	0	230	76	1	11,007	255	10,752
	1963	11,651	652	575	438	0	137	77	0	10,999	308	10,691
	1953	11,497	725	672	455	0	217	53	0	10,772	308	10,464
Louisiana	1997	13,693	1,214	707	477	0	230	300	207	12,479	3,899	8,579
	1987	13,872	1,331	833	621	0	212	330	168	12,541	3,603	8,938
	1977	14,292	1,024	715	581	1	133	299	10	13,268	3,773	9,495
	1963	16,036	883	704	575	11	118	174	5	15,153	3,032	12,121
	1953	16,039	848	666	535	4	127	177	5	15,191	3,166	12,025
Mississippi	1997	18,587	1,936	1,526	1,091	0	435	311	100	16,651	3,241	13,411
	1987	16,674	1,720	1,488	1,240	0	248	100	132	14,954	2,864	12,090
	1977	16,504	1,663	1,202	1,121	1	80	95	366	14,841	2,995	11,846
	1963	17,044	1,708	1,255	1,109	4	142	55	398	15,336	2,526	12,810
	1953	16,853	1,709	1,235	1,036	4	195	54	420	15,144	2,461	12,683
Oklahoma	1997	6,234	574	435	214	0	221	118	21	5,659	1,049	4,610
	1987	6,087	586	464	243	0	221	115	7	5,501	1,046	4,455
	1977	5,536	448	342	219	0	123	91	15	5,088	1,009	4,079
	1963	4,892	427	291	223	3	65	136	0	4,465	865	3,600
	1953	5,075	494	309	213	7	89	185	0	4,581	889	3,692
Tennessee	1997	13,265	1,509	1,027	556	0	471	422	59	11,757	1,122	10,635
	1987	12,840	1,360	958	581	6	371	373	29	11,480	1,220	10,260
	1977	12,862	1,161	856	558	0	298	283	22	11,701	1,212	10,489
	1963	13,365	1,199	834	591	0	243	344	21	12,166	923	11,243
	1953	12,551	1,114	806	564	0	242	298	10	11,437	713	10,724

Table 10—(continued)

Region, subregion, and State	Year	All ownerships	Public							Private[a]		
				Federal								
			Total public	Total Federal	National forest	Bureau of Land Management	Other	State	County and municipal	Total private	Forest industry	Non-industrial private
						Thousand acres						
Texas	1997	11,766	776	661	569	0	92	68	47	10,990	3,720	7,271
	1987	12,414	795	708	610	0	98	75	12	11,619	3,796	7,823
	1977	12,426	773	717	576	0	141	49	7	11,653	3,818	7,835
	1963	12,960	832	780	623	0	157	50	2	12,128	3,362	8,766
	1953	13,081	782	745	654	0	91	35	2	12,299	3,019	9,280
South Central total:	1997	116,196	11,417	8,855	6,457	0	2,397	1,966	597	104,778	22,529	82,249
	1987	112,128	10,854	8,917	6,896	11	2,010	1,485	452	101,274	21,438	79,836
	1977	111,812	9,973	8,169	6,653	3	1,513	1,305	500	101,839	21,548	80,291
	1963	117,663	9,560	7,890	6,574	24	1,292	1,187	483	108,103	18,841	89,262
	1953	115,479	9,556	8,023	6,365	147	1,511	1,067	466	105,923	17,851	88,072
South total:	1997	200,999	20,791	15,706	11,052	0	4,654	4,099	986	180,208	37,037	143,171
	1987	197,269	19,924	15,959	11,764	11	4,184	3,198	767	177,345	37,988	139,357
	1977	199,630	18,435	15,083	11,496	3	3,584	2,608	746	181,195	36,860	144,335
	1963	208,703	17,806	14,732	11,149	27	3,556	2,386	688	190,897	33,635	157,262
	1953	204,546	17,443	14,768	10,824	161	3,783	2,018	658	187,103	31,795	155,308
Rocky Mountain:												
Great Plains:												
Kansas	1997	1,491	92	53	0	0	53	32	8	1,399	0	1,399
	1987	1,207	46	37	0	0	37	7	2	1,161	0	1,161
	1977	1,187	37	27	0	0	27	8	2	1,151	0	1,151
	1963	1,194	37	27	0	0	27	8	2	1,158	0	1,158
	1953	1,208	27	27	0	0	27	0	0	1,181	0	1,181
Nebraska	1997	898	108	48	47	0	2	50	10	790	0	790
	1987	537	55	29	29	0	0	22	4	482	0	482
	1977	593	54	43	29	0	14	10	1	539	0	539
	1963	675	52	42	28	0	14	10	1	623	0	623
	1953	734	56	45	28	0	17	11	1	678	0	678
North Dakota	1997	442	55	28	14	0	14	26	0	387	0	387
	1987	338	36	12	0	0	12	22	2	302	0	302
	1977	405	63	53	0	0	53	10	0	342	0	342
	1963	424	65	55	0	1	54	10	0	359	0	359
	1953	451	68	57	0	1	57	11	0	383	0	383
South Dakota	1997	1,487	1,001	946	938	0	8	54	1	485	0	485
	1987	1,447	1,005	915	914	0	1	87	3	442	21	421
	1977	1,467	1,038	965	953	6	6	70	3	429	16	413
	1963	1,541	1,039	973	957	7	9	66	0	502	17	485
	1953	1,621	1,037	970	951	7	11	67	0	585	17	568
Great Plains total:	1997	4,317	1,256	1,076	999	0	76	162	18	3,062	0	3,062
	1987	3,529	1,142	993	943	0	50	138	11	2,387	21	2,366
	1977	3,652	1,190	1,087	982	6	99	98	5	2,462	16	2,446
	1963	3,834	1,192	1,097	985	8	104	94	2	2,641	17	2,624
	1953	4,014	1,188	1,099	979	8	112	88	1	2,827	17	2,809
Intermountain:												
Arizona	1997	4,073	2,775	2,763	2,720	20	23	12	0	1,297	0	1,297
	1987	3,789	2,527	2,515	2,471	20	24	12	0	1,262	0	1,262
	1977	3,896	2,513	2,480	2,462	18	0	32	2	1,382	0	1,382
	1963	3,693	2,382	2,349	2,347	2	0	32	2	1,311	0	1,311
	1953	3,621	2,304	2,271	2,269	2	0	32	2	1,317	0	1,317

Table 10—(continued)

Region, subregion, and State	Year	All ownerships	Public							Private[a]		
				Federal								
			Total public	Total Federal	National forest	Bureau of Land Management	Other	State	County and municipal	Total private	Forest industry	Non-industrial private
			Thousand acres									
Colorado	1997	11,555	8,331	7,968	6,885	1,069	14	311	52	3,224	0	3,224
	1987	11,740	8,464	8,144	7,062	1,074	8	274	46	3,276	0	3,276
	1977	11,315	8,166	7,933	7,506	422	5	189	45	3,148	15	3,134
	1963	12,359	9,128	8,893	8,474	414	5	189	45	3,231	15	3,216
	1953	12,283	9,038	8,802	8,382	416	5	190	45	3,245	15	3,231
Idaho	1997	17,123	13,901	12,896	12,354	512	29	980	25	3,222	1,284	1,938
	1987	14,534	11,397	10,310	9,705	558	47	1,036	51	3,137	1,198	1,939
	1977	13,541	10,450	9,570	9,153	409	8	861	19	3,091	947	2,144
	1963	15,725	12,643	11,761	11,251	503	8	864	19	3,082	950	2,133
	1953	15,540	12,445	11,558	11,046	505	8	867	19	3,095	954	2,142
Montana	1997	19,164	13,207	12,485	11,602	783	100	715	7	5,957	1,618	4,340
	1987	14,737	9,382	8,742	8,300	431	11	638	2	5,355	1,703	3,652
	1977	14,359	9,169	8,635	8,162	420	53	530	5	5,190	1,055	4,135
	1963	16,830	11,629	11,093	10,560	480	53	531	5	5,201	1,059	4,143
	1953	16,753	11,529	10,992	10,456	482	54	533	5	5,224	1,063	4,161
Nevada	1997	169	86	70	57	5	8	16	0	82	25	57
	1987	221	109	106	99	6	1	3	0	112	0	112
	1977	134	66	61	61	0	0	3	1	69	8	60
	1963	142	73	68	68	0	0	3	1	69	8	61
	1953	142	73	68	68	0	0	3	1	69	8	61
New Mexico	1997	4,833	2,875	2,778	2,733	44	0	84	13	1,958	0	1,958
	1987	5,180	3,005	2,893	2,863	30	0	112	0	2,175	5	2,170
	1977	5,538	3,037	2,867	2,818	39	9	171	0	2,500	0	2,500
	1963	5,746	3,198	3,026	2,941	77	9	172	0	2,549	138	2,411
	1953	5,627	3,067	2,895	2,809	77	9	172	0	2,559	138	2,421
Utah	1997	4,700	3,822	3,603	3,265	338	0	212	7	878	0	878
	1987	3,078	2,481	2,314	2,108	175	31	150	17	597	0	597
	1977	3,405	2,670	2,431	2,277	154	0	239	0	735	0	735
	1963	3,872	3,051	2,811	2,657	155	0	240	0	821	0	821
	1953	3,882	3,058	2,817	2,662	155	0	241	0	824	0	824
Wyoming	1997	5,085	3,641	3,438	2,964	474	0	203	0	1,444	0	1,444
	1987	4,332	2,888	2,685	2,211	474	0	203	0	1,444	37	1,407
	1977	4,334	3,355	3,245	3,045	200	0	111	0	979	54	925
	1963	4,721	3,739	3,628	3,233	395	0	111	0	982	55	927
	1953	4,738	3,752	3,641	3,244	397	0	112	0	986	55	932
Intermountain total:	1997	66,701	48,638	46,001	42,580	3,245	175	2,534	103	18,063	2,926	15,137
	1987	57,611	40,253	37,709	34,819	2,768	122	2,428	116	17,358	2,943	14,415
	1977	56,521	39,427	37,220	35,483	1,663	74	2,136	71	17,094	2,079	15,014
	1963	63,086	45,842	43,629	41,530	2,025	75	2,142	72	17,244	2,223	15,021
	1953	62,585	45,267	43,044	40,935	2,033	75	2,152	72	17,318	2,233	15,086
Rocky Mountain total:	1997	71,018	49,893	47,076	43,579	3,246	252	2,696	121	21,125	2,926	18,199
	1987	61,140	41,395	38,702	35,762	2,768	172	2,566	127	19,745	2,964	16,781
	1977	60,173	40,617	38,307	36,465	1,669	173	2,234	76	19,556	2,095	17,460
	1963	66,920	47,034	44,726	42,515	2,033	179	2,236	74	19,885	2,240	17,645
	1953	66,599	46,455	44,143	41,914	2,041	187	2,240	73	20,145	2,250	17,895

Table 10—(continued)

Region, subregion, and State	Year	All ownerships	Public							Private[a]		
				Federal				State	County and municipal			
			Total public	Total Federal	National forest	Bureau of Land Management	Other			Total private	Forest industry	Non-industrial private
			Thousand acres									
Pacific Coast:												
Alaska:												
Alaska	1997	12,395	8,605	4,306	3,780	407	119	4,279	20	3,790	0	3,790
	1987	15,763	9,578	4,936	4,476	336	124	4,622	20	6,185	0	6,185
	1977	19,722	19,164	15,751	6,529	9,096	126	3,396	17	558	0	558
	1963	20,119	19,729	19,444	6,828	12,490	126	280	5	390	0	390
	1953	20,342	20,086	20,007	6,873	13,008	126	75	4	257	0	257
Alaska total:	1997	12,395	8,605	4,306	3,780	407	119	4,279	20	3,790	0	3,790
	1987	15,763	9,578	4,936	4,476	336	124	4,622	20	6,185	0	6,185
	1977	19,722	19,164	15,751	6,529	9,096	126	3,396	17	558	0	558
	1963	20,119	19,729	19,444	6,828	12,490	126	280	5	390	0	390
	1953	20,342	20,086	20,007	6,873	13,008	126	75	4	257	0	257
Pacific Northwest:												
Oregon	1997	23,749	15,123	14,217	11,999	2,213	6	815	91	8,626	5,012	3,613
	1987	22,801	14,107	13,178	10,868	2,304	6	827	102	8,694	5,114	3,580
	1977	24,211	14,743	13,817	11,633	2,178	6	820	106	9,468	5,522	3,946
	1963	25,623	15,233	14,296	12,065	2,224	7	797	140	10,390	5,088	5,302
	1953	25,688	14,706	13,654	11,296	2,350	8	797	255	10,982	4,661	6,321
Washington	1997	17,418	8,464	6,209	6,036	33	139	2,035	220	8,954	4,109	4,845
	1987	17,514	7,941	5,691	5,524	37	130	2,025	225	9,573	4,588	4,985
	1977	17,922	7,648	5,382	5,167	47	168	2,084	182	10,274	4,319	5,955
	1963	18,860	8,118	5,829	5,594	93	142	2,100	189	10,742	4,338	6,404
	1953	19,188	8,191	5,882	5,595	174	113	2,095	214	10,997	4,385	6,612
Pacific Northwest total:	1997	41,167	23,587	20,426	18,035	2,246	145	2,850	310	17,580	9,121	8,458
	1987	40,315	22,048	18,869	16,392	2,341	136	2,852	327	18,267	9,702	8,565
	1977	42,133	22,391	19,199	16,800	2,225	174	2,904	288	19,742	9,841	9,901
	1963	44,483	23,351	20,125	17,659	2,317	149	2,897	329	21,132	9,426	11,706
	1953	44,876	22,897	19,536	16,891	2,524	121	2,892	469	21,979	9,046	12,933
Pacific Southwest:												
California	1997	17,952	10,516	10,319	10,086	218	15	159	38	7,437	2,982	4,455
	1987	16,712	9,158	9,051	8,742	300	9	95	12	7,554	2,757	4,797
	1977	16,303	8,540	8,434	8,168	226	40	79	27	7,763	2,687	5,076
	1963	17,198	9,316	9,244	8,918	286	40	67	5	7,882	2,445	5,437
	1953	17,127	8,931	8,730	8,372	318	40	193	8	8,196	2,167	6,029
Hawaii	1997	700	338	0	0	0	0	336	2	362	0	362
	1987	700	338	0	0	0	0	336	2	362	0	362
	1977	948	454	12	0	0	12	442	0	494	0	494
	1963	1,089	496	9	0	0	9	487	0	593	0	593
	1953	1,089	496	9	0	0	9	487	0	593	0	593
Pacific Southwest total:	1997	18,652	10,854	10,319	10,086	218	15	495	40	7,798	2,982	4,816
	1987	17,412	9,496	9,051	8,742	300	9	431	14	7,916	2,757	5,159
	1977	17,251	8,994	8,446	8,168	226	52	521	27	8,257	2,687	5,570
	1963	18,287	9,812	9,253	8,918	286	49	554	5	8,475	2,445	6,030
	1953	18,216	9,427	8,739	8,372	318	49	680	8	8,789	2,167	6,622

Table 10—(continued)

Region, subregion, and State	Year	All ownerships	Public							Private[a]		
				Federal								
			Total public	Total Federal	National forest	Bureau of Land Management	Other	State	County and municipal	Total private	Forest industry	Non-industrial private
			Thousand acres									
Pacific Coast total:	1997	72,214	43,046	35,052	31,901	2,871	279	7,624	370	29,168	12,103	17,064
	1987	73,490	41,122	32,856	29,610	2,977	269	7,905	361	32,368	12,459	19,909
	1977	79,106	50,549	43,396	31,497	11,547	352	6,821	332	28,557	12,528	16,029
	1963	82,889	52,892	48,822	33,405	15,093	324	3,731	339	29,997	11,871	18,126
	1953	83,434	52,140	48,282	32,136	15,850	296	3,647	481	31,025	11,213	19,812
United States:	1997	503,664	145,967	109,168	96,435	6,143	6,590	28,915	7,883	357,698	66,858	290,840
	1987	486,317	132,406	98,433	86,592	5,800	6,041	26,837	7,137	353,911	70,347	283,564
	1977	492,355	138,169	106,887	88,701	13,237	4,949	24,447	6,835	354,186	68,937	285,249
	1963	515,118	146,157	118,903	96,845	17,230	4,828	20,277	6,977	368,962	61,434	307,528
	1953	508,854	145,436	118,056	94,707	18,116	5,234	19,183	8,197	363,419	58,979	304,440

a Native American lands are included exclusively in the nonindustrial private owner group for 1997 only. For 1987 and earlier years, these lands may be included in the other public owner group.

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

Table 11—Timberland area in the United States by ownership group, region, subregion, and State, 1997

Region, subregion, and State	All ownerships	Ownership group: National forest	Other public	Forest industry	Non-industrial private
	Thousand acres				
North:					
Northeast:					
Connecticut	1,815	0	249	0	1,565
Delaware	376	0	13	31	332
Maine	16,952	32	598	7,298	9,024
Maryland	2,423	0	281	137	2,006
Massachusetts	2,965	0	480	71	2,415
New Hampshire	4,551	417	375	513	3,246
New Jersey	1,864	0	500	0	1,364
New York	15,406	9	1,144	1,220	13,032
Pennsylvania	15,853	446	3,072	613	11,721
Rhode Island	356	0	69	0	287
Vermont	4,461	221	372	227	3,642
West Virginia	11,900	904	420	887	9,689
Total	78,923	2,029	7,574	10,996	58,324
North Central:					
Illinois	4,058	254	163	13	3,628
Indiana	4,342	170	454	17	3,701
Iowa	1,944	0	156	0	1,788
Michigan	18,667	2,593	4,034	1,514	10,525
Minnesota	14,819	1,917	5,763	751	6,388
Missouri	13,411	1,361	691	222	11,137
Ohio	7,568	216	316	174	6,862
Wisconsin	15,701	1,363	3,183	1,102	10,053
Total	80,510	7,874	14,759	3,795	54,082
North total:	159,433	9,904	22,333	14,791	112,406
South:					
Southeast:					
Florida	14,605	984	1,802	4,016	7,803
Georgia	23,796	711	1,040	4,381	17,664
North Carolina	18,639	1,011	868	2,252	14,508
South Carolina	12,419	524	554	2,322	9,019
Virginia	15,345	1,365	515	1,537	11,927
Total	84,803	4,594	4,779	14,508	60,922
South Central:					
Alabama	21,911	573	557	4,796	15,985
Arkansas	18,392	2,350	925	4,498	10,620
Kentucky	12,347	628	376	205	11,139
Louisiana	13,693	477	738	3,899	8,579
Mississippi	18,587	1,091	845	3,241	13,411
Oklahoma	6,234	214	360	1,049	4,610
Tennessee	13,265	556	953	1,122	10,635
Texas	11,766	569	207	3,720	7,271
Total	116,196	6,457	4,960	22,529	82,249
South total:	200,999	11,052	9,739	37,037	143,171
Rocky Mountain:					
Great Plains:					
Kansas	1,491	0	92	0	1,399
Nebraska	898	47	61	0	790
North Dakota	442	14	41	0	387
South Dakota	1,487	938	63	0	485
Total	4,317	999	257	0	3,062
Intermountain:					
Arizona	4,073	2,720	55	0	1,297
Colorado	11,555	6,885	1,446	0	3,224
Idaho	17,123	12,354	1,547	1,284	1,938
Montana	19,164	11,602	1,605	1,618	4,340
Nevada	169	57	30	25	57
New Mexico	4,833	2,733	141	0	1,958
Utah	4,700	3,265	557	0	878
Wyoming	5,085	2,964	677	0	1,444
Total	66,701	42,580	6,058	2,926	15,137
Rocky Mountain Total:	71,018	43,579	6,315	2,926	18,199
Pacific Coast:					
Alaska:					
Alaska	12,395	3,780	4,825	0	3,790
Total	12,395	3,780	4,825	0	3,790
Pacific Northwest:					
Oregon	23,749	11,999	3,125	5,012	3,613
Washington	17,418	6,036	2,427	4,109	4,845
Total	41,167	18,035	5,552	9,121	8,458
Pacific Southwest:					
California	17,952	10,086	430	2,982	4,455
Hawaii	700	0	338	0	362
Total	18,652	10,086	768	2,982	4,816
Pacific Coast total:	72,214	31,901	11,145	12,103	17,064
United States:	503,664	96,435	49,532	66,858	290,840

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

Table 12—Timberland area in the Eastern United States by forest type group, subregion, and stand-age class, 1997

Subregion and stand-age class	All forest types	Forest type group											
		White-red-jack pine	Spruce-fir	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cotton-wood	Maple-beech-birch	Aspen-birch	Other forest types	Non-stocked
(Years)						*Thousand acres*							
Northeast:													
0 to 19	3,209	89	512	0	83	35	467	6	109	1,412	460	0	37
20 to 39	9,138	695	956	0	319	248	1,963	63	713	3,311	833	0	37
40 to 59	15,067	1,382	877	0	555	767	5,476	117	571	4,577	745	0	0
60 to 79	17,632	1,111	1,305	0	265	608	6,890	121	282	6,486	565	0	0
80 to 99	10,775	738	855	0	75	157	4,029	36	164	4,389	332	0	0
100 to 149	4,376	347	945	0	17	95	1,216	3	57	1,637	58	0	0
150 to 199	172	6	112	0	0	0	0	0	0	47	7	0	0
200 and older	20	0	20	0	0	0	0	0	0	0	0	0	0
Uneven aged	18,536	1,911	1,996	0	236	515	4,384	79	411	8,181	793	0	29
Total	78,923	6,278	7,578	0	1,550	2,425	24,426	425	2,307	30,040	3,792	0	104
North Central:													
0 to 19	11,180	813	741	0	92	160	2,392	18	881	2,527	3,317	0	239
20 to 39	14,400	1,295	1,619	0	208	253	3,363	71	1,668	3,057	2,832	0	33
40 to 59	20,426	1,223	1,840	0	229	362	5,926	84	2,042	4,944	3,761	0	14
60 to 79	17,205	499	1,582	0	104	228	6,051	84	1,626	4,615	2,409	0	6
80 to 99	9,037	256	927	0	46	99	4,081	49	687	2,366	522	0	3
100 to 149	4,872	118	790	0	8	36	1,915	12	358	1,499	138	0	0
150 to 199	231	2	93	0	0	0	49	4	13	65	5	0	0
200 and older	25	5	8	0	0	0	0	0	2	6	4	0	0
Uneven aged	3,135	23	6	0	26	31	1,477	23	415	1,091	37	0	5
Total	80,510	4,234	7,607	0	713	1,170	25,252	345	7,694	20,170	13,025	0	300
Southeast:													
0 to 19	28,276	77	0	4,608	10,350	4,265	5,587	2,254	145	11	0	0	979
20 to 39	17,347	122	0	2,906	6,219	2,173	3,838	1,819	164	12	0	0	95
40 to 59	18,468	129	7	1,552	4,152	2,595	6,583	3,119	221	56	0	0	56
60 to 79	13,805	145	4	781	1,270	1,690	6,488	3,072	165	163	0	0	25
80 to 99	4,863	36	0	138	192	519	2,463	1,388	65	54	0	0	7
100 to 149	480	5	0	10	3	32	277	152	0	0	0	0	2
150 to 199	1,560	23	0	2	42	108	830	504	12	38	0	0	1
200 and older	4	0	0	0	0	4	0	0	0	0	0	0	0
Uneven aged	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	84,803	538	11	9,997	22,227	11,386	26,066	12,307	772	334	0	0	1,165
South Central:													
0 to 19	28,562	11	0	1,031	11,816	5,052	8,520	1,599	251	25	0	0	256
20 to 39	37,294	54	0	1,625	11,573	8,156	12,555	2,889	320	112	0	0	10
40 to 59	30,309	25	0	393	3,463	4,306	15,515	6,003	417	186	0	0	0
60 to 79	11,249	10	0	68	467	559	5,536	4,242	205	162	0	0	0
80 to 99	3,680	0	0	15	52	178	2,066	1,167	107	97	0	0	0
100 to 149	9	0	0	0	0	0	9	0	0	0	0	0	0
150 to 199	685	0	0	0	0	13	644	0	6	21	0	0	0
200 and older	0	0	0	0	0	0	0	0	0	0	0	0	0
Uneven aged	4,408	7	0	0	121	159	3,404	288	221	208	0	0	0
Total	116,196	107	0	3,131	27,492	18,423	48,249	16,188	1,527	812	0	0	266
East total:													
0 to 19	71,227	989	1,253	5,639	22,341	9,512	16,966	3,877	1,386	3,975	3,777	0	1,511
20 to 39	78,179	2,166	2,575	4,531	18,320	10,829	21,719	4,842	2,865	6,492	3,665	0	176
40 to 59	84,270	2,759	2,723	1,945	8,399	8,031	33,499	9,322	3,251	9,763	4,506	0	70
60 to 79	59,891	1,765	2,892	849	2,105	3,086	24,965	7,519	2,277	11,427	2,974	0	31
80 to 99	28,355	1,031	1,782	152	365	953	12,638	2,640	1,023	6,906	853	0	11
100 to 149	9,737	469	1,736	10	28	163	3,417	166	415	3,136	196	0	2
150 to 199	2,647	31	205	2	42	121	1,523	508	31	171	12	0	1
200 and older	49	5	28	0	0	4	0	0	2	6	4	0	0
Uneven aged	26,079	1,941	2,002	0	383	705	9,266	391	1,048	9,480	830	0	34
Total	360,432	11,157	15,196	13,129	51,982	33,404	123,992	29,265	12,299	51,356	16,818	0	1,835

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

Table 13—Timberland area in the Western United States by forest type group, subregion, and stand age class, 1997

Subregion and stand age class *(Years)*	All forest types	Forest type group												
		Douglas-fir	Pon-derosa pine	Western white pine	Fir-spruce	Hemlock-Sitka spruce	Larch	Lodge-pole pine	Red-wood	Other soft-woods	Western hard-woods	Pinyon-juniper	Chap-arral	Non-stocked
							Thousand acres							
Great Plains:														
0 to 19	449	0	49	0	0	0	0	0	0	79	309	0	0	12
20 to 39	928	0	20	0	0	0	0	0	0	93	813	0	0	3
40 to 59	952	0	42	0	0	0	0	0	0	66	840	0	0	4
60 to 79	863	0	122	0	1	0	0	0	0	148	588	0	0	5
80 to 99	738	0	262	0	11	0	0	0	0	182	275	0	0	8
100 to 149	276	0	265	0	9	0	0	0	0	0	2	0	0	0
150 to 199	95	0	93	0	2	0	0	0	0	0	0	0	0	0
200 and older	17	0	17	0	0	0	0	0	0	0	0	0	0	0
Uneven aged	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	4,317	0	870	0	23	0	0	0	0	568	2,826	0	0	30
Intermountain:														
0 to 19	6,684	1,654	1,790	47	1,226	118	100	698	0	149	761	64	0	77
20 to 39	2,691	534	388	30	764	55	84	337	0	80	415	4	0	0
40 to 59	5,750	1,521	1,311	39	939	235	93	768	0	70	774	2	0	0
60 to 79	13,384	3,423	3,769	0	1,855	314	231	1,971	0	146	1,628	47	0	0
80 to 99	14,976	3,925	3,848	15	2,562	387	177	2,321	0	136	1,567	38	0	0
100 to 149	15,123	4,136	2,675	0	4,131	264	114	2,571	0	291	770	170	0	0
150 to 199	6,077	1,844	902	0	1,934	113	65	830	0	296	52	41	0	0
200 and older	2,016	608	201	0	801	23	10	200	0	170	4	0	0	0
Uneven aged	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	66,701	17,645	14,882	131	14,213	1,510	873	9,696	0	1,338	5,970	365	0	77
Alaska:														
0 to 19	505	0	0	0	47	249	0	0	0	0	156	0	0	53
20 to 39	1,325	0	0	0	135	37	0	0	0	3	1,112	0	0	39
40 to 59	2,152	0	0	0	898	57	0	0	0	79	1,115	0	0	4
60 to 79	1,145	0	0	0	484	15	0	0	0	18	629	0	0	0
80 to 99	1,086	0	0	0	443	286	0	0	0	7	351	0	0	0
100 to 149	1,225	0	0	0	418	136	0	0	0	38	600	0	0	33
150 to 199	937	0	0	0	543	286	0	0	0	3	105	0	0	0
200 and older	3,829	0	0	0	59	3,753	0	0	0	0	3	0	0	14
Uneven aged	190	0	0	0	80	0	0	0	0	8	94	0	0	8
Total	12,395	0	0	0	3,107	4,818	0	0	0	155	4,165	0	0	150
Pacific Northwest:														
0 to 19	7,090	3,211	629	7	416	859	18	399	0	35	836	77	0	604
20 to 39	5,414	2,545	283	13	188	915	10	157	0	26	1,263	0	0	13
40 to 59	6,148	2,797	696	6	203	852	29	364	6	7	1,154	8	0	27
60 to 79	5,460	2,210	1,216	0	461	436	86	390	0	6	602	45	0	8
80 to 99	4,884	1,798	1,269	4	582	337	58	415	0	34	343	42	0	3
100 to 149	6,913	2,584	1,428	15	1,270	608	50	500	0	70	304	69	0	14
150 to 199	2,942	1,009	549	4	661	440	27	122	0	21	91	19	0	0
200 and older	2,315	759	217	4	497	625	8	60	0	14	119	8	0	5
Uneven aged	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	41,167	16,912	6,286	52	4,278	5,072	288	2,407	6	213	4,712	267	0	675

Table 13—(continued).

Subregion and stand age class *(Years)*	All forest types	Forest type group												
		Douglas-fir	Pon-derosa pine	Western white pine	Fir-spruce	Hemlock-Sitka spruce	Larch	Lodge-pole pine	Red-wood	Other soft-woods	Western hard-woods	Pinyon-juniper	Chap-arral	Non-stocked
						Thousand acres								
Pacific Southwest:														
0 to 19	2,417	167	561	3	79	0	0	9	44	465	556	5	0	528
20 to 39	1,138	165	278	0	29	0	0	0	171	11	484	0	0	0
40 to 59	1,611	83	578	0	36	7	0	8	202	73	624	0	0	0
60 to 79	2,063	95	1,027	18	122	0	0	17	144	2	638	0	0	0
80 to 99	2,496	171	1,269	0	360	0	0	33	58	68	538	0	0	0
100 to 149	5,271	274	2,591	22	1,377	1	0	43	49	401	512	0	0	0
150 to 199	2,232	631	626	17	684	4	0	30	8	123	110	0	0	0
200 and older	1,425	391	338	36	248	0	0	25	56	255	75	0	0	0
Uneven aged	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	18,652	1,977	7,267	95	2,936	12	0	165	732	1,398	3,536	5	0	528
West total:														
0 to 19	17,144	5,032	3,029	57	1,768	1,226	118	1,107	44	727	2,618	146	0	1,273
20 to 39	11,497	3,244	968	43	1,117	1,007	94	495	171	212	4,087	4	0	55
40 to 59	16,613	4,401	2,626	44	2,076	1,151	122	1,139	208	295	4,507	9	0	35
60 to 79	22,915	5,729	6,133	18	2,923	765	317	2,378	144	320	4,085	91	0	13
80 to 99	24,180	5,894	6,648	19	3,958	1,009	235	2,769	58	427	3,073	80	0	11
100 to 149	28,807	6,994	6,959	37	7,206	1,009	164	3,114	49	801	2,188	238	0	47
150 to 199	12,283	3,484	2,170	21	3,824	842	92	982	8	443	357	61	0	0
200 and older	9,602	1,758	773	39	1,604	4,401	19	285	56	438	201	8	0	19
Uneven aged	190	0	0	0	80	0	0	0	0	8	94	0	0	8
Total	143,232	36,534	29,305	278	24,557	11,411	1,161	12,269	738	3,671	21,210	638	0	1,460

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

Table 14—Timberland area in the United States by forest type group, subregion, and stand size class, 1997

Subregion and stand size class	All forest types	Forest type group											
		White-red-jack pine	Spruce-fir	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cotton-wood	Maple-beech-birch	Aspen-birch	Other forest types	Non-stocked
						Thousand acres							
Northeast:													
Nonstocked	104	0	0	0	0	0	0	0	0	0	0	0	104
Seedling-sapling	12,285	353	2,111	0	344	259	2,588	82	620	4,420	1,508	0	0
Poletimber	26,022	1,053	2,993	0	516	874	7,882	129	812	10,001	1,763	0	0
Sawtimber	40,513	4,871	2,474	0	690	1,291	13,956	214	875	15,619	521	0	0
Total	78,923	6,278	7,578	0	1,550	2,425	24,426	425	2,307	30,040	3,792	0	104
North Central:													
Nonstocked	300	0	0	0	0	0	0	0	0	0	0	0	300
Seedling-sapling	19,640	1,007	3,088	0	165	278	4,269	18	1,827	4,023	4,965	0	1
Poletimber	25,025	1,458	2,740	0	210	382	6,727	60	2,291	6,314	4,842	0	0
Sawtimber	35,545	1,769	1,779	0	338	510	14,257	267	3,576	9,833	3,218	0	0
Total	80,510	4,234	7,607	0	713	1,170	25,252	345	7,694	20,170	13,025	0	300
Southeast:													
Nonstocked	1,165	0	0	0	0	0	0	0	0	0	0	0	1,165
Seedling-sapling	25,511	51	4	3,646	7,764	4,794	6,348	2,737	157	10	0	0	0
Poletimber	22,385	69	5	3,365	6,993	2,457	6,435	2,853	162	46	0	0	0
Sawtimber	35,742	417	2	2,986	7,470	4,135	13,283	6,717	453	278	0	0	0
Total	84,803	538	11	9,997	22,227	11,386	26,066	12,307	772	334	0	0	1,165
South Central:													
Nonstocked	266	0	0	0	0	0	0	0	0	0	0	0	266
Seedling-sapling	33,111	24	0	810	8,407	6,587	14,344	2,477	341	121	0	0	0
Poletimber	30,018	7	0	841	7,293	4,566	13,882	2,884	312	233	0	0	0
Sawtimber	52,801	76	0	1,481	11,792	7,271	20,023	10,827	873	459	0	0	0
Total	116,196	107	0	3,131	27,492	18,423	48,249	16,188	1,527	812	0	0	266
East total:													
Nonstocked	1,834	0	0	0	0	0	0	0	0	0	0	0	1,834
Seedling-sapling	90,547	1,436	5,203	4,455	16,680	11,918	27,548	5,314	2,945	8,574	6,473	0	1
Poletimber	103,450	2,588	5,738	4,207	15,012	8,279	34,926	5,926	3,577	16,594	6,604	0	0
Sawtimber	164,601	7,133	4,255	4,467	20,291	13,207	61,518	18,025	5,777	26,188	3,740	0	0
Total	360,432	11,157	15,196	13,129	51,982	33,404	123,992	29,265	12,299	51,356	16,818	0	1,835

Table 14—(continued).

Subregion and stand size class	All forest types	Forest type group												
		Douglas-fir	Ponderosa pine	Western white pine	Fir-spruce	Hemlock-Sitka spruce	Larch	Lodgepole pine	Redwood	Other softwoods	Western hardwoods	Pinyon-juniper	Chaparral	Nonstocked
		Thousand acres												
Great Plains:														
Nonstocked	53	0	21	0	0	0	0	0	0	0	1	0	0	30
Seedling-sapling	761	0	34	0	0	0	0	0	0	148	578	0	0	0
Poletimber	1,254	0	229	0	2	0	0	0	0	122	901	0	0	0
Sawtimber	2,250	0	585	0	20	0	0	0	0	298	1,347	0	0	0
Total	4,317	0	870	0	23	0	0	0	0	568	2,826	0	0	30
Intermountain:														
Nonstocked	2,664	640	1,112	7	405	37	8	122	0	109	147	0	0	77
Seedling-sapling	6,542	1,585	909	57	1,579	121	181	1,114	0	123	868	5	0	0
Poletimber	12,079	1,684	1,226	37	1,405	160	187	3,988	0	295	2,987	112	0	0
Sawtimber	45,417	13,736	11,636	31	10,825	1,192	498	4,472	0	811	1,968	248	0	0
Total	66,701	17,645	14,882	131	14,213	1,510	873	9,696	0	1,338	5,970	365	0	77
Alaska:														
Nonstocked	163	0	0	0	7	0	0	0	0	6	0	0	0	150
Seedling-sapling	2,186	0	0	0	461	319	0	0	0	78	1,327	0	0	0
Poletimber	2,764	0	0	0	762	150	0	0	0	68	1,784	0	0	0
Sawtimber	7,282	0	0	0	1,876	4,349	0	0	0	3	1,053	0	0	0
Total	12,395	0	0	0	3,107	4,818	0	0	0	155	4,165	0	0	150
Pacific Northwest:														
Nonstocked	1,047	81	199	0	20	8	2	28	0	0	15	28	0	667
Seedling-sapling	8,955	3,760	794	37	968	1,187	37	1,046	0	73	1,046	8	0	0
Poletimber	5,421	1,754	643	4	271	492	58	674	0	48	1,456	13	0	8
Sawtimber	25,744	11,317	4,650	11	3,020	3,385	190	660	6	91	2,195	219	0	0
Total	41,167	16,912	6,286	52	4,278	5,072	288	2,407	6	213	4,712	267	0	675
Pacific Southwest:														
Nonstocked	1,772	12	125	0	9	0	0	0	0	915	182	0	0	528
Seedling-sapling	1,291	194	557	0	131	0	0	9	32	37	325	5	0	0
Poletimber	2,203	162	746	0	174	0	0	25	43	377	675	0	0	0
Sawtimber	13,387	1,609	5,839	95	2,622	12	0	131	657	68	2,354	0	0	0
Total	18,652	1,977	7,267	95	2,936	12	0	165	732	1,398	3,536	5	0	528
West total:														
Nonstocked	5,699	733	1,457	7	441	45	10	150	0	1,030	345	28	0	1,453
Seedling-sapling	19,734	5,539	2,295	94	3,139	1,627	218	2,169	32	460	4,144	18	0	0
Poletimber	23,720	3,600	2,844	40	2,614	802	245	4,686	43	910	7,803	125	0	8
Sawtimber	94,079	26,663	22,709	137	18,363	8,938	688	5,264	662	1,272	8,917	467	0	0
Total	143,232	36,534	29,305	278	24,557	11,411	1,161	12,269	738	3,671	21,210	638	0	1,460

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

Table 15—Area of timberland in the United States by stand size class and region and subregion, 1997, 1987, 1977, 1963, and 1953

Region and subregion	Year	Total	Sawtimber	Poletimber	Seedling/ sapling	Nonstocked
			Thousand acres			
North:						
Northeast	1997	78,923	40,513	26,022	12,285	104
	1987	79,835	41,299	27,588	10,676	271
	1977	78,561	33,801	21,614	21,071	2,075
	1963	77,875	32,095	29,968	13,560	2,252
	1953	73,035	27,639	30,287	12,631	2,478
North Central	1997	80,510	35,545	25,025	19,640	300
	1987	74,585	26,017	28,018	19,022	1,528
	1977	74,885	21,971	29,774	20,811	2,329
	1963	78,731	18,559	27,730	21,718	10,724
	1953	81,240	15,414	26,712	26,524	12,590
North total:	1997	159,433	76,058	51,047	31,925	403
	1987	154,419	67,316	55,606	29,698	1,799
	1977	153,446	55,772	51,388	41,882	4,404
	1963	156,606	50,654	57,698	35,278	12,976
	1953	154,275	43,053	56,999	39,155	15,068
South:						
Southeast	1997	84,803	35,742	22,385	25,511	1,165
	1987	85,141	36,415	25,189	20,273	3,264
	1977	87,818	32,878	28,619	22,162	4,159
	1963	91,040	32,777	25,687	23,763	8,813
	1953	89,067	25,669	29,709	21,804	11,885
South Central	1997	116,196	52,801	30,018	33,111	266
	1987	112,127	48,622	34,688	28,677	140
	1977	111,812	43,789	32,611	34,331	1,081
	1963	117,663	39,645	48,571	26,456	2,991
	1953	115,479	39,736	53,172	18,051	4,520
South total:	1997	200,999	88,543	52,403	58,622	1,431
	1987	197,268	85,037	59,877	48,950	3,404
	1977	199,630	76,667	61,230	56,493	5,240
	1963	208,703	72,422	74,258	50,219	11,804
	1953	204,546	65,405	82,881	39,855	16,405
East total:	1997	360,432	164,601	103,450	90,547	1,834
	1987	351,687	152,342	115,495	78,648	5,202
	1977	353,076	132,439	112,618	98,375	9,644
	1963	365,309	123,076	131,956	85,497	24,780
	1953	358,821	108,458	139,880	79,010	31,473

Table 15—(continued).

Region and subregion	Year	Total	Sawtimber	Poletimber	Seedling/ sapling	Nonstocked
			Thousand acres			
Rocky Mountain:						
Great Plains	1997	4,317	2,250	1,254	761	53
	1987	3,529	1,993	758	675	102
	1977	3,652	2,003	756	396	497
	1963	3,834	1,554	1,141	567	572
	1953	4,014	1,341	1,302	850	521
Intermountain	1997	66,701	45,416	12,078	6,543	2,664
	1987	57,610	40,526	9,453	6,308	1,324
	1977	56,521	35,880	12,197	5,873	2,571
	1963	63,086	37,109	16,531	5,459	3,987
	1953	62,585	29,613	19,412	8,823	4,737
Rocky Mountain total:	1997	71,018	47,666	13,332	7,304	2,717
	1987	61,139	42,519	10,211	6,983	1,426
	1977	60,173	37,883	12,953	6,269	3,068
	1963	66,920	38,663	17,672	6,026	4,559
	1953	66,599	30,954	20,714	9,673	5,258
Pacific Coast:						
Alaska	1997	12,395	7,282	2,764	2,186	163
	1987	15,763	10,155	3,018	2,423	168
	1977	19,720	14,592	2,487	2,492	149
	1963	20,119	18,041	751	1,121	206
	1953	20,342	19,499	357	357	129
Pacific Northwest	1997	41,167	25,744	5,421	8,955	1,047
	1987	40,315	24,093	7,672	7,403	1,147
	1977	42,133	26,230	7,196	6,711	1,996
	1963	44,483	29,143	7,864	5,969	1,507
	1953	44,876	28,367	8,418	5,428	2,663
Pacific Southwest	1997	18,652	13,387	2,203	1,291	1,772
	1987	17,412	13,747	1,597	1,956	112
	1977	17,251	12,066	1,440	1,995	1,750
	1963	18,287	12,984	964	129	4,210
	1953	18,216	14,213	1,319	97	2,587
Pacific Coast total:	1997	72,214	46,413	10,387	12,431	2,982
	1987	73,490	47,994	12,286	11,782	1,427
	1977	79,104	52,888	11,123	11,198	3,895
	1963	82,889	60,168	9,579	7,219	5,923
	1953	83,434	62,079	10,094	5,882	5,379
West total:	1997	143,232	94,079	23,719	19,735	5,699
	1987	134,629	90,513	22,498	18,765	2,853
	1977	139,277	90,771	24,076	17,467	6,963
	1963	149,809	98,831	27,251	13,245	10,482
	1953	150,033	93,033	30,808	15,555	10,637
United States:	1997	503,664	258,680	127,169	110,283	7,533
	1987	486,316	242,855	137,993	97,413	8,055
	1977	492,353	223,210	136,694	115,842	16,607
	1963	515,118	221,907	159,207	98,742	35,262
	1953	508,854	201,491	170,688	94,565	42,110

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

Table 16—Timberland area in the United States by major geographic region and forest type group, 1997, 1987, 1977, 1963, and 1953

Region	Year	All eastern types	White-red-jack pine	Spruce-fir	Longleaf-slash pine	Loblolly-shortleaf-pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Maple-beech-birch	Aspen-birch	Non-stocked
						Thousand acres							
North	1997	159,433	10,512	15,185	0	2,263	3,595	49,678	770	10,000	50,210	16,818	404
	1987	154,418	13,030	16,421	0	2,294	3,457	45,945	778	11,009	42,263	17,346	1,876
	1977	153,446	11,362	17,468	0	2,468	3,115	42,262	518	18,050	34,300	19,149	4,754
	1963	156,606	10,083	18,558	0	3,298	1,496	48,700	1,199	15,882	30,264	22,429	4,698
	1953	154,275	8,940	18,887	0	3,569	1,022	46,455	1,212	19,673	23,248	24,637	6,633
South	1997	200,999	645	11	13,129	49,719	29,809	74,315	28,495	2,299	1,146	0	1,431
	1987	197,269	519	18	15,640	46,694	28,043	71,239	27,596	3,036	884	0	3,599
	1977	199,630	407	8	16,725	47,433	31,453	66,307	26,116	4,171	1,776	0	5,234
	1963	208,703	439	15	24,902	52,201	24,310	61,801	34,747	3,461	566	0	6,261
	1953	204,546	329	12	26,926	51,792	23,970	54,872	34,498	4,051	750	0	7,346
East total:	1997	360,432	11,157	15,196	13,129	51,982	33,404	123,992	29,265	12,299	51,356	16,818	1,835
	1987	351,687	13,789	16,752	15,407	48,335	31,148	116,997	27,977	14,210	43,939	17,676	5,457
	1977	353,076	11,769	17,476	16,725	49,901	34,568	108,569	26,635	22,222	36,076	19,149	9,988
	1963	365,309	10,522	18,573	24,902	55,499	25,806	110,500	35,946	19,342	30,830	22,429	10,959
	1953	358,821	9,269	18,899	26,926	55,360	24,992	101,326	35,710	23,724	23,998	24,637	13,979

Table 16—(continued).

Region	Year	All western types	Douglas-fir	Ponderosa-Jeffrey pine	Western white pine	Fir-spruce	Hemlock-Sitka spruce	Larch	Lodgepole pine	Redwood	Other western softwood types	Western hardwood types	Pinyon-juniper	Non-stocked
							Thousand acres							
Rocky Mountain	1997	71,018	17,645	15,752	131	14,236	1,510	873	9,696	0	1,906	8,796	365	108
	1987	61,140	14,119	14,555	276	11,684	1,580	1,856	9,973	0	319	5,105	1,673	1,576
	1977	60,173	12,729	15,285	333	10,545	1,298	1,822	10,225	0	528	4,745	2,663	2,556
	1963	66,920	13,027	18,292	2,286	8,682	194	2,586	12,752	0	0	5,756	3,345	3,280
	1953	66,599	11,923	18,800	2,670	7,529	99	2,677	13,326	0	0	5,600	3,973	3,241
Pacific West	1997	59,819	18,889	13,553	147	7,214	5,084	288	2,573	738	1,610	8,248	273	1,203
	1987	57,727	19,768	11,236	14	10,438	4,034	873	2,233	1,129	319	6,849	834	814
	1977	59,384	18,666	11,969	126	8,197	4,819	683	2,917	662	0	7,566	3,780	3,782
	1963	62,770	21,989	15,744	2,431	6,120	3,928	794	2,422	1,468	0	4,734	3,139	3,242
	1953	63,092	20,646	16,281	2,797	4,441	4,881	888	2,703	1,283	0	4,773	4,398	4,370
Alaska	1997	12,395	0	0	0	3,107	4,818	0	0	0	155	4,165	0	150
	1987	15,763	0	0	0	5,661	5,560	0	0	0	181	4,358	4	4
	1977	19,722	0	0	0	2,715	12,063	0	0	0	0	4,857	87	49
	1963	20,119	0	0	0	0	19,113	0	0	0	0	0	1,006	277
	1953	20,342	0	0	0	0	19,438	0	0	0	0	0	904	190
West total:	1997	143,232	36,534	29,305	278	24,557	11,411	1,161	12,269	738	3,671	21,210	638	1,460
	1987	134,630	33,887	25,791	290	27,783	11,174	2,729	12,205	1,129	819	16,312	2,511	2,394
	1977	139,279	31,395	27,253	459	21,457	18,180	2,504	13,142	662	528	17,168	6,529	6,387
	1963	149,809	35,017	34,036	4,718	14,803	23,235	3,380	15,174	1,468	0	10,489	7,490	6,799
	1953	150,033	32,570	35,081	5,467	11,970	24,419	3,565	16,030	1,283	0	10,373	9,275	7,800

Table 17—Net volume of timber on timberland in the United States by class of timber, species group, region, subregion, and State, 1997

Region, subregion, and State	All timber			Growing stock			Live cull			Sound dead		
	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods
						Million cubic feet						
North:												
Northeast:												
Connecticut	2,943	465	2,478	2,755	442	2,313	122	14	108	66	9	57
Delaware	689	177	511	639	169	471	27	0	27	23	9	14
Maine	22,310	12,305	10,005	20,891	11,682	9,209	1,067	401	665	352	221	131
Maryland	4,763	832	3,931	4,511	816	3,695	204	6	198	47	10	38
Massachusetts	5,309	1,706	3,604	4,862	1,608	3,254	387	73	314	61	25	35
New Hampshire	9,671	4,048	5,623	9,039	3,819	5,220	517	170	348	115	59	56
New Jersey	2,489	536	1,953	2,378	523	1,855	70	5	65	40	8	33
New York	23,074	5,613	17,461	21,828	5,400	16,427	1,085	169	916	162	43	119
Pennsylvania	25,874	2,389	23,485	24,903	2,329	22,574	748	41	707	223	19	204
Rhode Island	434	46	388	394	44	350	23	1	22	17	0	17
Vermont	9,441	3,083	6,358	8,675	2,863	5,812	623	146	477	142	74	69
West Virginia	21,249	1,279	19,970	20,303	1,250	19,054	833	14	820	113	16	97
Total	128,246	32,479	95,767	121,179	30,945	90,234	5,705	1,040	4,665	1,362	494	868
North Central:												
Illinois	5,408	122	5,286	4,835	117	4,717	513	3	509	60	1	60
Indiana	7,809	297	7,512	6,900	278	6,623	909	19	889	0	0	0
Iowa	2,581	37	2,544	1,669	18	1,651	872	19	854	40	0	40
Michigan	29,632	8,185	21,448	26,735	7,600	19,134	2,652	503	2,149	245	81	164
Minnesota	17,469	5,008	12,460	15,268	4,703	10,564	1,936	247	1,689	265	58	207
Missouri	13,935	944	12,991	8,998	863	8,135	4,857	76	4,781	80	5	75
Ohio	10,601	410	10,191	10,159	401	9,758	354	4	350	88	5	83
Wisconsin	21,323	4,790	16,533	18,509	4,450	14,059	2,265	203	2,062	548	136	412
Total	108,758	19,793	88,965	93,072	18,431	74,640	14,360	1,075	13,285	1,327	287	1,040
North total:	237,005	52,272	184,733	214,251	49,376	164,874	20,065	2,115	17,950	2,689	780	1,909
South:												
Southeast:												
Florida	17,029	9,533	7,495	15,366	9,424	5,942	1,649	101	1,548	13	8	5
Georgia	33,664	15,319	18,345	31,704	15,224	16,480	1,957	94	1,863	3	1	2
North Carolina	34,756	12,648	22,108	32,742	12,530	20,212	1,939	77	1,862	75	41	34
South Carolina	17,902	8,115	9,787	16,685	8,034	8,651	1,185	60	1,125	32	21	11
Virginia	28,660	6,736	21,924	26,487	6,648	19,838	2,126	75	2,051	47	13	35
Total	132,011	52,352	79,659	122,985	51,861	71,124	8,856	407	8,449	170	84	87
South Central:												
Alabama	24,804	11,341	13,463	23,075	11,101	11,974	1,661	192	1,469	68	49	20
Arkansas	23,993	9,631	14,362	21,686	9,342	12,344	2,098	200	1,898	209	89	120
Kentucky	16,699	1,253	15,446	15,952	1,213	14,739	621	25	597	126	16	110
Louisiana	20,772	10,137	10,635	18,844	9,928	8,916	1,894	194	1,700	33	15	18
Mississippi	22,757	9,426	13,332	20,611	9,208	11,402	2,038	154	1,884	108	63	45
Oklahoma	4,894	1,465	3,429	3,624	1,421	2,203	1,253	39	1,214	17	5	12
Tennessee	18,404	3,017	15,387	16,646	2,893	13,753	1,633	89	1,544	125	35	90
Texas	14,291	8,056	6,235	12,939	7,879	5,060	1,290	130	1,160	62	48	15
Total	146,614	54,326	92,288	133,377	52,985	80,392	12,488	1,022	11,466	749	319	431
South total:	278,625	106,678	171,947	256,361	104,846	151,515	21,344	1,430	19,914	920	402	517

Table 17—(continued).

Region, subregion, and state	All timber			Growing stock			Live cull			Sound dead		
	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods
						Million cubic feet						
Rocky Mountain:												
Great Plains:												
Kansas	2,017	22	1,996	1,254	17	1,238	704	5	698	60	0	60
Nebraska	1,331	260	1,071	854	212	643	449	42	407	28	7	21
North Dakota	513	5	507	330	3	327	147	2	145	36	0	36
South Dakota	1,669	1,394	275	1,492	1,331	161	135	27	108	42	36	6
Total	5,530	1,681	3,849	3,931	1,563	2,368	1,434	76	1,358	166	43	123
Intermountain:												
Arizona	7,126	6,267	858	5,977	5,609	368	1,001	539	462	147	120	28
Colorado	22,382	17,962	4,420	20,028	16,163	3,865	293	200	93	2,061	1,599	462
Idaho	42,025	41,112	913	39,256	38,472	784	677	621	56	2,092	2,019	73
Montana	38,298	37,698	601	34,815	34,254	561	487	459	28	2,996	2,984	11
Nevada	455	387	68	339	306	33	19	13	6	97	69	28
New Mexico	6,592	5,640	952	5,578	5,029	549	771	425	345	243	186	58
Utah	8,917	6,910	2,007	7,363	5,708	1,655	432	304	127	1,123	898	224
Wyoming	9,055	8,504	550	8,012	7,578	433	165	100	65	878	826	52
Total	134,850	124,481	10,369	121,370	113,119	8,251	3,843	2,662	1,182	9,637	8,700	937
Rocky Mountain total	140,381	126,162	14,218	125,300	114,682	10,618	5,278	2,737	2,540	9,803	8,743	1,060
Pacific Coast:												
Alaska:												
Alaska	35,058	31,707	3,352	32,955	29,810	3,145	689	504	185	1,414	1,393	21
Total	35,058	31,707	3,352	32,955	29,810	3,145	689	504	185	1,414	1,393	21
Pacific Northwest:												
Oregon	87,820	80,646	7,174	83,296	76,770	6,526	934	396	538	3,590	3,480	110
Washington	67,936	61,211	6,725	65,722	59,199	6,523	281	128	154	1,932	1,884	48
Total	155,756	141,857	13,899	149,018	135,969	13,049	1,216	524	692	5,522	5,364	158
Pacific Southwest:												
California	59,031	49,854	9,177	57,505	49,167	8,337	1,269	431	839	257	256	1
Hawaii	334	4	330	280	4	276	41	0	41	12	0	12
Total	59,365	49,858	9,507	57,785	49,172	8,613	1,311	431	880	269	256	14
Pacific Coast total:	250,179	223,422	26,758	239,758	214,950	24,808	3,216	1,458	1,757	7,206	7,013	192
United States:	906,190	508,535	397,655	835,670	483,855	351,816	49,902	7,741	42,161	20,617	16,939	3,678

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

Table 18—Net volume of softwood growing stock on timberland in the United States by ownership group, region, subregion, and State, 1997, 1987, 1977, 1963, and 1953

Region, subregion, and State	All owners					National forest					Other public[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
	Million cubic feet														
North:															
Northeast:															
Connecticut	442	414	425	214	158	0	0	0	0	0	42	69	50	22	16
Delaware	169	173	168	231	236	0	0	0	0	0	7	8	9	5	5
Maine	11,682	14,510	16,060	12,563	10,093	48	24	22	18	15	508	527	265	136	112
Maryland	816	805	793	775	717	0	0	0	0	0	79	78	82	31	28
Massachusetts	1,608	1,689	1,439	972	631	0	0	0	0	0	223	270	263	120	78
New Hampshire	3,819	3,408	3,526	2,534	2,208	332	360	276	290	253	357	227	59	71	62
New Jersey	523	563	252	282	250	0	0	0	0	0	221	256	58	29	26
New York	5,400	4,935	3,524	3,037	2,748	6	1	0	0	0	734	648	442	381	344
Pennsylvania	2,329	1,983	1,778	1,436	1,229	63	68	60	45	38	390	230	213	172	147
Rhode Island	44	59	108	23	15	0	0	0	0	0	12	26	4	2	1
Vermont	2,863	2,010	1,826	1,379	1,251	66	45	39	38	35	152	130	92	42	38
West Virginia	1,250	1,060	1,092	588	492	267	180	239	141	118	73	27	18	33	28
Total	30,945	31,609	30,991	24,034	20,028	782	678	636	532	459	2,797	2,496	1,555	1,044	885
North Central:															
Illinois	117	118	81	25	17	47	47	35	17	5	25	25	15	1	0
Indiana	278	201	88	52	27	29	22	14	8	3	34	17	20	12	14
Iowa	18	7	6	5	4	0	0	0	0	0	0	0	0	0	0
Michigan	7,600	6,558	5,201	3,624	2,370	1,504	1,337	954	587	271	2,031	1,745	1,307	852	534
Minnesota	4,703	4,086	3,477	3,384	2,698	1,030	919	871	905	780	2,072	1,875	1,565	1,565	1,115
Missouri	863	601	392	316	264	311	273	177	163	134	68	22	12	7	5
Ohio	401	326	274	109	96	29	20	16	8	7	46	26	25	10	9
Wisconsin	4,450	4,112	3,340	2,112	1,549	627	652	475	300	136	994	1,130	784	496	485
Total	18,431	16,009	12,859	9,627	7,025	3,578	3,270	2,542	1,988	1,336	5,272	4,840	3,728	2,943	2,162
North total:	49,376	47,618	43,850	33,661	27,053	4,360	3,948	3,178	2,520	1,795	8,070	7,336	5,283	3,987	3,047
South:															
Southeast:															
Florida	9,424	9,305	8,750	6,685	5,384	995	873	912	657	549	1,542	1,155	752	386	312
Georgia	15,224	15,870	16,096	12,513	10,751	506	377	468	398	366	1,202	969	856	809	656
North Carolina	12,530	12,286	11,526	9,634	9,097	546	523	496	356	337	745	579	404	347	273
South Carolina	8,034	8,835	8,708	6,066	4,800	582	744	758	603	582	604	585	462	326	112
Virginia	6,648	6,323	5,928	5,276	5,516	362	331	312	229	240	359	351	296	221	231
Total	51,861	52,619	51,008	40,174	35,548	2,991	2,848	2,946	2,243	2,074	4,452	3,639	2,770	2,089	1,584
South Central:															
Alabama	11,101	11,328	11,469	8,684	5,875	562	659	561	417	278	270	229	216	167	98
Arkansas	9,342	8,586	7,973	5,812	4,640	1,895	1,677	1,520	1,149	886	284	224	155	54	41
Kentucky	1,213	1,110	916	567	493	158	164	153	160	139	35	4	4	72	63
Louisiana	9,928	10,552	9,342	6,357	4,253	732	775	724	511	268	351	277	206	120	83
Mississippi	9,208	9,746	8,930	5,259	3,674	1,374	1,474	1,253	1,089	579	508	268	376	221	342
Oklahoma	1,421	998	1,011	692	541	228	169	127	98	73	73	58	50	2	2
Tennessee	2,893	2,710	2,203	1,480	1,227	303	346	274	293	220	302	241	189	102	102
Texas	7,879	7,964	8,356	6,062	4,211	1,143	1,202	1,058	1,157	680	128	157	144	86	49
Total	52,985	52,994	50,200	34,913	24,914	6,396	6,466	5,670	4,874	3,123	1,951	1,458	1,340	824	780
South total:	104,846	105,613	101,208	75,087	60,462	9,387	9,314	8,616	7,117	5,197	6,403	5,097	4,110	2,913	2,364

Table 18—(continued).

Region, subregion, and State	All owners					National forest					Other public[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
	Million cubic feet														
Rocky Mountain:															
Great Plains:															
Kansas	17	6	1	0	0	0	0	0	0	0	1	0	0	0	0
Nebraska	212	177	148	103	73	54	31	28	22	19	22	17	13	8	4
North Dakota	3	3	0	0	0	1	0	0	0	0	0	0	0	0	0
South Dakota	1,331	1,726	1,650	1,369	1,236	1,090	1,270	1,345	1,140	1,046	47	118	100	62	51
Total	1,563	1,912	1,799	1,472	1,309	1,145	1,301	1,373	1,162	1,065	70	135	113	70	55
Intermountain:															
Arizona	5,609	5,980	4,763	4,689	4,600	3,931	4,176	3,208	3,077	2,888	47	1,753	1,449	1,502	1,596
Colorado	16,163	16,226	12,624	11,774	10,926	11,792	11,811	9,486	8,823	8,205	1,362	1,365	713	670	618
Idaho	38,472	32,088	31,662	30,242	28,677	29,580	23,440	21,589	20,212	18,894	3,353	3,480	3,267	3,092	2,992
Montana	34,254	27,611	27,691	29,793	27,367	25,148	18,595	18,090	19,612	17,444	2,318	2,458	2,543	2,494	2,335
Nevada	306	390	250	244	235	127	206	86	86	79	56	12	9	9	9
New Mexico	5,029	5,628	5,797	5,739	5,514	3,126	3,730	2,872	2,836	2,578	124	676	1,347	1,337	1,352
Utah	5,708	3,913	3,562	3,726	3,657	4,575	3,031	2,808	2,937	2,785	374	345	412	431	476
Wyoming	7,578	6,550	6,963	5,544	5,261	5,570	4,542	5,569	4,234	4,075	724	870	576	542	490
Total	113,119	98,386	93,312	91,751	86,237	83,849	69,531	63,708	61,817	56,948	8,357	10,959	10,316	10,077	9,868
Rocky Mountain total:	114,682	100,298	95,111	93,223	87,546	84,993	70,832	65,081	62,979	58,013	8,427	11,094	10,429	10,147	9,923
Pacific Coast:															
Alaska:															
Alaska	29,810	37,051	48,277	49,426	49,149	18,733	24,068	35,414	38,228	38,850	5,090	5,880	12,200	10,915	10,081
Total	29,810	37,051	48,277	49,426	49,149	18,733	24,068	35,414	38,228	38,850	5,090	5,880	12,200	10,915	10,081
Pacific Northwest:															
Oregon	76,770	70,554	74,735	83,427	87,580	47,993	42,102	44,904	48,100	45,488	12,058	12,805	12,709	13,235	15,272
Washington	59,199	60,130	57,800	61,567	61,994	27,321	23,497	22,833	25,361	25,504	9,723	13,798	13,200	13,088	12,605
Total	135,969	130,684	132,535	144,994	149,574	75,314	65,599	67,737	73,461	70,992	21,781	26,603	25,909	26,323	27,877
Pacific Southwest:															
California	49,167	46,307	45,975	53,365	58,006	29,539	27,213	28,073	29,391	29,590	1,320	1,245	1,108	1,435	1,892
Hawaii	4	4	4	4	4	0	0	0	0	0	3	3	3	3	3
Total	49,172	46,311	45,979	53,369	58,010	29,539	27,213	28,073	29,391	29,590	1,323	1,248	1,111	1,438	1,895
Pacific Coast total:	214,950	214,046	226,791	247,789	256,733	123,586	116,880	131,224	141,080	139,432	28,194	33,731	39,220	38,676	39,853
United States:	483,855	467,575	466,960	449,760	431,794	222,326	200,974	208,099	213,696	204,437	51,093	57,258	59,042	55,723	55,187

Table 18—(continued).

Region, subregion, and State	Forest Industry					Nonindustrial private[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
					Million cubic feet					
North:										
Northeast:										
Connecticut	0	0	0	0	0	399	345	375	192	142
Delaware	18	18	28	17	14	144	147	131	209	217
Maine	4,771	7,849	9,120	5,222	4,194	6,356	6,110	6,653	7,187	5,772
Maryland	80	79	91	69	64	657	648	620	675	625
Massachusetts	86	64	24	80	52	1,299	1,355	1,152	772	501
New Hampshire	269	433	800	426	371	2,862	2,388	2,391	1,747	1,522
New Jersey	0	0	0	1	1	302	307	194	252	223
New York	355	403	382	329	298	4,304	3,883	2,700	2,327	2,106
Pennsylvania	82	91	71	57	49	1,794	1,594	1,434	1,162	995
Rhode Island	0	0	0	0	0	32	33	104	21	14
Vermont	73	128	212	203	184	2,572	1,707	1,483	1,096	994
West Virginia	69	126	96	23	19	842	727	739	391	327
Total	5,803	9,191	10,824	6,427	5,246	21,563	19,244	17,976	16,031	13,438
North Central:										
Illinois	0	0	1	2	1	46	46	30	5	11
Indiana	0	0	1	0	0	214	162	53	32	10
Iowa	0	0	0	0	0	18	7	6	5	4
Michigan	764	885	808	641	563	3,301	2,591	2,132	1,544	1,002
Minnesota	302	336	265	284	232	1,298	956	776	630	571
Missouri	36	21	21	9	7	448	285	182	137	118
Ohio	24	2	4	4	4	301	278	229	87	76
Wisconsin	300	409	590	374	110	2,529	1,921	1,491	942	818
Total	1,426	1,653	1,690	1,314	917	8,155	6,246	4,899	3,382	2,610
North total:	7,229	10,844	12,514	7,741	6,163	29,718	25,490	22,875	19,413	16,048
South:										
Southeast:										
Florida	2,311	2,687	2,789	2,153	1,689	4,576	4,590	4,297	3,489	2,834
Georgia	3,227	3,443	2,836	2,361	2,031	10,289	11,081	11,936	8,945	7,698
North Carolina	1,884	1,646	1,157	1,339	1,546	9,356	9,538	9,469	7,592	6,941
South Carolina	1,672	1,774	1,417	1,156	700	5,175	5,732	6,071	3,981	3,406
Virginia	1,136	1,167	943	800	837	4,791	4,474	4,377	4,026	4,208
Total	10,231	10,717	9,142	7,809	6,803	34,187	35,415	36,150	28,033	25,087
South Central:										
Alabama	2,999	2,802	2,883	2,404	1,634	7,271	7,638	7,809	5,696	3,865
Arkansas	3,472	3,191	3,120	3,196	2,372	3,691	3,494	3,178	1,413	1,341
Kentucky	12	6	6	12	10	1,008	936	753	323	281
Louisiana	2,855	2,779	2,725	2,825	1,952	5,990	6,721	5,687	2,901	1,950
Mississippi	1,892	1,822	1,726	1,460	1,454	5,436	6,182	5,575	2,489	1,299
Oklahoma	574	350	517	456	359	546	421	317	136	107
Tennessee	302	289	232	93	74	1,985	1,834	1,508	992	831
Texas	2,126	2,276	3,221	2,641	1,883	4,481	4,329	3,933	2,178	1,599
Total	14,231	13,515	14,430	13,087	9,738	30,408	31,555	28,760	16,128	11,273
South total:	24,462	24,232	23,572	20,896	16,541	64,594	66,970	64,910	44,161	36,360

Table 18—(continued).

Region, subregion, and State	Forest Industry					Nonindustrial private[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
					Million cubic feet					
Rocky Mountain:										
Great Plains:										
Kansas	0	0	0	0	0	16	6	1	0	0
Nebraska	0	0	0	0	0	135	129	107	73	50
North Dakota	0	0	0	0	0	2	3	0	0	0
South Dakota	0	12	19	10	8	194	326	186	157	131
Total	0	12	19	10	8	348	464	294	230	181
Intermountain:										
Arizona	0	0	0	0	0	1,631	51	106	110	116
Colorado	0	0	21	20	19	3,010	3,050	2,404	2,261	2,084
Idaho	2,593	2,312	2,913	3,346	3,438	2,947	2,856	3,893	3,592	3,353
Montana	2,157	2,963	2,097	2,864	3,104	4,632	3,595	4,961	4,823	4,484
Nevada	23	0	16	15	15	100	172	139	134	132
New Mexico	0	3	0	112	113	1,779	1,219	1,578	1,454	1,471
Utah	0	0	0	0	0	759	537	342	358	396
Wyoming	0	53	61	57	52	1,284	1,085	757	711	644
Total	4,773	5,331	5,108	6,414	6,741	16,141	12,565	14,180	13,443	12,680
Rocky Mountain total:	4,773	5,343	5,127	6,424	6,749	16,489	13,029	14,474	13,673	12,861
Pacific Coast:										
Alaska:										
Alaska	0	0	0	0	0	5,987	7,103	663	283	218
Total	0	0	0	0	0	5,987	7,103	663	283	218
Pacific Northwest:										
Oregon	9,673	10,011	12,110	15,464	19,060	7,046	5,636	5,012	6,628	7,760
Washington	11,532	14,404	13,717	15,907	17,640	10,611	8,431	8,050	7,211	6,245
Total	21,205	24,415	25,827	31,371	36,700	17,657	14,067	13,062	13,839	14,005
Pacific Southwest:										
California	8,592	7,918	7,457	9,639	11,268	9,716	9,931	9,337	12,900	15,256
Hawaii	0	0	0	0	0	1	1	1	1	1
Total	8,592	7,918	7,457	9,639	11,268	9,717	9,932	9,338	12,901	15,257
Pacific Coast total:	29,797	32,333	33,284	41,010	47,968	33,361	31,102	23,063	27,023	29,480
United States:	66,262	72,752	74,497	76,071	77,421	144,162	136,591	125,322	104,270	94,749

[a] Native American lands are included exclusively in the nonindustrial private owner group for 1997 only. For 1987 and earlier years, these lands may be included in the other public owner group.

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

Table 19—Net volume of growing stock on timberland in the Eastern United States by species, region, and subregion, 1997, 1987, 1977, and 1963

Region and subregion	Year	Total all species	Softwoods									
			Total soft-woods	Longleaf and slash pines	Loblolly and shortleaf pines	Other yellow pines	White and red pines	Jack pine	Spruce and balsam fir	Eastern hemlock	Cypress	Other soft-woods
			Million cubic feet									
North:												
Northeast	1997	121,179	30,945	0	652	1,717	9,460	14	9,184	6,949	3	2,965
	1987	112,133	31,609	0	658	1,573	7,977	0	12,977	5,878	0	2,547
	1977	98,311	30,991	0	656	1,368	7,123	0	14,895	5,006	0	1,943
	1963	76,869	24,034	0	701	1,119	4,958	46	11,042	4,113	0	2,056
North Central	1997	93,072	18,431	0	737	373	5,597	1,550	4,579	1,082	22	4,491
	1987	77,905	16,009	0	561	158	4,396	1,646	4,711	876	31	3,630
	1977	64,697	12,859	0	402	214	2,411	1,851	4,038	1,260	31	2,652
	1963	51,419	9,627	0	307	110	1,794	1,520	2,954	1,040	15	1,888
North total:	1997	214,251	49,376	0	1,390	2,090	15,058	1,564	13,763	8,031	25	7,456
	1987	190,038	47,618	0	1,219	1,731	12,373	1,646	17,688	6,753	31	6,178
	1977	163,008	43,850	0	1,058	1,582	9,534	1,851	18,934	6,265	31	4,596
	1963	128,288	33,661	0	1,008	1,229	6,752	1,566	13,995	5,153	15	3,944
South:												
Southeast	1997	122,985	51,861	11,044	27,248	6,855	1,733	0	24	413	4,066	478
	1987	120,773	52,619	12,598	26,441	6,989	1,457	0	24	396	4,306	408
	1977	111,699	51,008	12,284	25,910	6,897	1,068	0	25	324	4,101	400
	1963	87,172	40,174	9,477	21,877	4,121	480	0	33	242	3,677	267
South Central	1997	133,377	52,985	4,886	41,517	2,774	281	0	0	213	2,317	997
	1987	123,868	52,994	5,039	42,006	2,670	207	0	1	115	2,225	732
	1977	111,674	50,200	5,114	40,108	2,375	185	0	0	67	1,829	522
	1963	86,900	34,913	3,806	27,874	1,341	146	0	0	182	1,332	231
South total:	1997	256,361	104,846	15,931	68,765	9,629	2,014	0	24	626	6,382	1,475
	1987	244,641	105,613	17,638	68,447	9,659	1,663	0	25	511	6,530	1,140
	1977	223,373	101,208	17,398	66,018	9,272	1,253	0	25	391	5,929	922
	1963	174,072	75,087	13,284	49,751	5,462	626	0	33	424	5,009	498
East total:	1997	470,612	154,222	15,931	70,154	11,719	17,072	1,564	13,787	8,657	6,408	8,931
	1987	434,679	153,231	17,638	69,666	11,390	14,037	1,646	17,713	7,264	6,561	7,317
	1977	386,381	145,058	17,398	67,076	10,854	10,787	1,851	18,958	6,657	5,960	5,518
	1963	302,360	108,748	13,284	50,759	6,691	7,378	1,566	14,028	5,577	5,023	4,442

Table 19—(continued).

Region and subregion	Year	Hardwoods									
		Total hard-woods	Select white oaks	Select red oaks	Other white oaks	Other red oaks	Hickory	Yellow birch	Hard maple	Soft maple	Beech
		Million cubic feet									
North:											
Northeast	1997	90,234	4,437	8,625	4,271	4,932	2,846	3,062	11,533	16,741	5,466
	1987	80,524	4,384	8,137	4,928	5,405	2,791	2,987	10,104	13,544	4,685
	1977	67,320	4,721	7,616	4,589	4,890	2,563	2,452	7,755	10,645	3,807
	1963	52,835	3,402	6,536	3,709	2,550	1,810	3,791	5,883	6,515	3,973
North Central	1997	74,640	7,550	5,983	1,474	5,682	3,572	786	8,369	7,662	1,122
	1987	61,896	6,001	4,774	1,528	5,077	2,912	674	6,335	5,542	854
	1977	51,838	5,277	4,006	1,365	4,579	2,605	807	4,814	3,302	896
	1963	41,792	3,730	3,373	405	2,340	1,449	872	4,025	2,572	835
North total:	1997	164,874	11,987	14,608	5,745	10,615	6,417	3,848	19,902	24,403	6,588
	1987	142,420	10,385	12,911	6,456	10,482	5,703	3,661	16,439	19,086	5,538
	1977	119,158	9,121	12,186	5,788	7,991	4,401	3,719	12,972	14,985	5,278
	1963	94,627	6,093	11,705	6,642	4,567	3,241	6,790	10,536	11,668	7,115
South:											
Southeast	1997	71,124	7,167	3,126	6,008	12,307	3,593	83	467	5,712	1,000
	1987	68,154	6,639	3,074	5,563	11,826	3,641	62	402	5,221	942
	1977	60,691	6,152	2,650	5,009	10,841	3,680	61	299	3,845	805
	1963	46,998	4,753	1,966	3,886	7,837	3,314	39	158	2,555	561
South Central	1997	80,392	9,194	4,620	7,186	15,900	7,625	5	1,411	2,283	1,458
	1987	70,874	7,974	3,969	6,722	15,062	7,254	6	933	1,719	1,193
	1977	61,474	6,623	3,071	6,362	12,584	6,816	0	758	1,319	1,054
	1963	51,987	5,262	2,053	5,607	9,652	5,799	11	428	898	1,116
South total:	1997	151,516	16,361	7,746	13,194	28,207	11,218	87	1,878	7,996	2,458
	1987	139,028	14,613	7,043	12,285	26,889	10,895	68	1,335	6,940	2,135
	1977	122,165	12,769	5,715	11,353	23,402	10,451	62	1,051	5,201	1,856
	1963	98,985	10,015	4,021	9,467	17,469	9,069	51	580	3,492	1,667
East total:	1997	316,390	28,348	22,354	18,939	38,821	17,635	3,936	21,780	32,399	9,047
	1987	281,448	24,998	19,955	18,741	37,370	16,598	3,730	17,774	26,026	7,673
	1977	241,323	22,230	17,227	17,679	32,904	15,442	3,409	12,806	19,176	6,781
	1963	193,612	17,154	13,364	16,832	25,683	13,941	4,815	8,117	12,657	7,123

Table 19—(continued).

Region and subregion	Year	Hardwoods								
		Sweet-gum	Tupelo and black gum	Ash	Bass-wood	Yellow poplar	Cotton-wood and aspen	Black walnut	Black cherry[a]	Other hard-woods
		Million cubic feet								
North:										
Northeast	1997	556	588	4,748	1,476	4,740	3,611	295	4,683	7,623
	1987	486	491	3,656	1,162	2,925	3,219	211	3,738	7,671
	1977	418	409	2,656	1,073	2,630	2,145	192	3,000	5,760
	1963	460	333	1,898	1,221	1,968	1,719	154	0	6,915
North Central	1997	148	199	4,798	3,098	1,686	12,061	804	1,639	8,007
	1987	122	79	3,657	2,476	1,073	10,521	612	1,144	8,516
	1977	153	89	2,818	1,861	641	9,669	459	530	7,967
	1963	168	63	2,127	1,505	441	8,807	340	0	8,740
North total:	1997	704	787	9,546	4,574	6,426	15,672	1,099	6,322	15,631
	1987	608	570	7,313	3,639	3,998	13,740	823	4,881	16,187
	1977	653	541	5,158	2,700	3,516	10,938	551	3,530	15,129
	1963	824	596	3,400	2,187	3,524	3,079	275	0	12,385
South:										
Southeast	1997	7,573	7,248	1,752	334	9,538	92	197	311	4,618
	1987	7,487	7,854	1,735	314	8,392	107	181	222	4,491
	1977	6,850	7,462	1,492	259	6,732	117	138	155	4,143
	1963	5,582	7,106	1,348	247	3,845	53	160	0	3,588
South Central	1997	9,058	4,106	2,689	275	5,283	621	362	452	7,862
	1987	8,244	3,962	2,219	257	3,845	580	281	0	6,653
	1977	6,826	3,921	1,967	246	2,847	504	271	195	6,110
	1963	6,059	4,057	1,757	277	1,823	469	296	0	6,423
South total:	1997	16,631	11,354	4,441	609	14,821	713	559	763	12,480
	1987	15,732	11,816	3,954	571	12,237	687	462	222	11,144
	1977	13,678	11,436	3,452	506	9,637	616	407	349	10,225
	1963	11,644	11,240	3,100	524	5,718	514	453	0	9,960
East total:	1997	17,336	12,141	13,987	5,183	21,247	16,384	1,658	7,085	28,111
	1987	16,339	12,387	11,267	4,210	16,235	14,427	1,286	5,103	27,331
	1977	15,623	13,058	8,428	2,981	13,752	10,501	942	3,555	24,829
	1963	15,565	14,886	6,369	2,204	9,826	2,815	775	0	21,485

[a] Separate black cherry data not available for 1963, included in other hardwoods category.
Note: Data may not add to totals because of rounding.

Table 20—Net volume of growing stock on timberland in the Western United States by species, subregion, and State, 1997

Subregion and State	All species	Softwoods								
		Total soft-woods	Douglas-fir	Ponderosa and Jeffrey pines	True fir	Western hemlock	Sugar pine	Western white pine	Redwood	Sitka spruce
					Million cubic feet					
Great Plains:										
Kansas	1,254	17	0	0	0	0	0	0	0	0
Nebraska	854	212	0	0	0	0	0	0	0	0
North Dakota	330	3	0	0	0	0	0	0	0	0
South Dakota	1,492	1,331	0	1,028	0	0	0	0	0	0
Total	3,931	1,563	0	1,028	0	0	0	0	0	0
Intermountain:										
Arizona	5,978	5,609	570	4,372	275	0	0	0	0	0
Colorado	20,028	16,163	2,092	2,120	2,514	0	0	0	0	0
Idaho	39,256	38,472	12,328	2,718	9,402	868	0	420	0	0
Montana	34,815	34,254	10,574	2,841	3,496	195	0	107	0	0
Nevada	339	306	0	103	117	0	1	4	0	0
New Mexico	5,576	5,028	957	2,655	752	0	0	0	0	0
Utah	7,363	5,708	1,432	462	1,485	0	0	0	0	0
Wyoming	8,012	7,578	1,100	1,155	871	0	0	1	0	0
Total	121,368	113,118	29,052	16,426	18,912	1,063	1	534	0	0
Alaska:										
Alaska	32,955	29,810	0	0	2	11,425	0	0	0	8,519
Total	32,955	29,810	0	0	2	11,425	0	0	0	8,519
Pacific Northwest:										
Oregon	83,293	76,767	44,080	8,153	8,879	6,383	689	244	32	274
Washington	65,725	59,202	25,479	3,411	7,453	13,423	0	142	0	54
Total	149,018	135,969	69,559	11,564	16,332	19,806	689	386	32	328
Pacific Southwest:										
California	57,505	49,168	13,898	9,722	13,346	31	2,960	276	4,610	0
Hawaii	280	4	0	0	0	0	0	0	0	0
Total	57,785	49,172	13,898	9,722	13,346	31	2,960	276	4,610	0
West total:	365,057	329,631	112,509	38,741	48,592	32,324	3,650	1,196	4,642	8,848

Table 20—(continued).

Subregion and State	Softwoods - continued						Hardwoods				
	Engelmann and other spruces	Western larch	Incense-cedar	Lodgepole pine	Western red-cedar[a]	Other soft-woods	Total hard-woods	Cotton-wood and aspen	Red alder	Oak	Other hard-woods
					Million cubic feet						
Great Plains:											
Kansas	0	0	0	0	0	17	1,238	0	0	0	1,238
Nebraska	0	0	0	0	0	212	643	0	0	0	643
North Dakota	0	0	0	0	0	3	327	0	0	0	327
South Dakota	48	0	0	0	0	255	161	9	0	0	152
Total	48	0	0	0	0	486	2,368	9	0	0	2,359
Intermountain:											
Arizona	265	0	0	0	0	127	368	330	0	0	39
Colorado	5,699	0	0	3,663	0	76	3,865	3,865	0	0	0
Idaho	2,507	1,463	0	5,500	2,230	1,036	784	625	0	0	159
Montana	3,444	2,241	0	9,757	336	1,263	561	486	0	0	75
Nevada	25	0	3	39	0	14	33	33	0	0	0
New Mexico	369	0	0	0	0	294	549	381	0	0	168
Utah	1,531	0	0	708	0	91	1,655	1,655	0	0	0
Wyoming	1,420	0	0	2,603	0	428	433	432	0	0	1
Total	15,260	3,704	3	22,269	2,567	3,329	8,250	7,808	0	0	442
Alaska:											
Alaska	4,605	0	0	43	1,310	3,902	3,145	1,555	33	0	1,557
Total	4,605	0	0	43	1,310	3,902	3,145	1,555	33	0	1,557
Pacific Northwest:											
Oregon	1,252	785	723	2,227	1,502	1,544	6,526	94	3,182	456	2,794
Washington	1,573	1,468	0	1,785	3,532	881	6,523	645	4,353	28	1,496
Total	2,825	2,254	723	4,012	5,034	2,425	13,049	740	7,535	484	4,290
Pacific Southwest:											
California	36	0	2,849	911	2	528	8,337	35	218	4,320	3,765
Hawaii	0	0	0	0	0	4	276	0	0	0	276
Total	36	0	2,849	911	2	532	8,613	35	218	4,320	4,041
West total:	22,773	5,958	3,574	27,234	8,913	10,675	35,425	10,147	7,786	4,804	12,689

[a] Western redcedar volume may be included in other western softwood volume. Western redcedar volume in Oregon for national forest lands includes some incense-cedar.

Note: Data may not add to totals because of rounding. Total volume by State in this table may differ slightly from volume by State in other tables because of rounding.

Table 21—Net volume of softwood growing stock on timberland in the Eastern United States by species, subregion, and State, 1997

Subregion and State	Total	Longleaf and slash pines	Loblolly and shortleaf pines	Other yellow pines	White and red pines	Jack pine	Spruce and balsam fir	Eastern hemlock	Cypress	Other soft-woods
					Million cubic feet					
Northeast:										
Connecticut	441	0	0	7	175	0	0	243	0	16
Delaware	169	0	143	26	0	0	0	0	0	0
Maine	11,682	0	0	25	2,132	2	6,131	1,286	0	2,105
Maryland	816	0	469	258	52	0	2	22	3	9
Massachusetts	1,608	0	0	79	1,085	0	73	349	0	21
New Hampshire	3,819	0	0	41	1,914	0	1,008	833	0	22
New Jersey	523	0	22	327	20	0	0	8	0	146
New York	5,400	0	0	128	2,263	11	673	1,865	0	461
Pennsylvania	2,329	0	1	282	763	1	21	1,199	0	62
Rhode Island	44	0	0	8	35	0	0	0	0	1
Vermont	2,863	0	0	1	783	0	1,116	846	0	117
West Virginia	1,250	0	17	535	238	0	159	297	0	4
Total	30,945	0	652	1,717	9,460	14	9,184	6,949	3	2,965
North Central:										
Illinois	117	0	65	3	29	1	0	0	9	11
Indiana	278	0	39	95	85	5	0	0	4	50
Iowa	18	0	0	0	0	0	0	0	0	18
Michigan	7,600	0	0	87	2,505	605	1,690	664	0	2,049
Minnesota	4,703	0	0	3	870	558	2,023	0	0	1,249
Missouri	863	0	625	2	14	0	0	0	9	213
Ohio	401	0	8	175	178	0	1	16	0	22
Wisconsin	4,451	0	0	7	1,916	382	865	401	0	880
Total	18,431	0	737	373	5,597	1,550	4,579	1,082	22	4,491
Southeast:										
Florida	9,424	5,362	933	680	0	0	0	0	2,329	121
Georgia	15,224	4,210	8,997	856	305	0	0	16	800	40
North Carolina	12,530	601	7,831	2,572	717	0	20	217	436	136
South Carolina	8,034	871	6,016	542	49	0	0	15	451	90
Virginia	6,648	0	3,471	2,204	663	0	4	165	50	92
Total	51,861	11,044	27,248	6,855	1,733	0	24	413	4,066	478
South Central:										
Alabama	11,101	1,953	8,075	806	4	0	0	6	160	97
Arkansas	9,342	0	8,865	0	0	0	0	0	247	229
Kentucky	1,213	0	271	603	23	0	0	65	3	248
Louisiana	9,928	1,227	7,107	92	0	0	0	0	1,497	5
Mississippi	9,208	1,367	7,385	159	0	0	0	0	215	82
Oklahoma	1,421	0	1,369	0	0	0	0	0	3	48
Tennessee	2,893	0	1,065	1,114	254	0	0	142	81	237
Texas	7,879	339	7,380	0	0	0	0	0	109	50
Total	52,985	4,886	41,517	2,774	281	0	0	213	2,317	997
East total:	154,222	15,931	70,154	11,719	17,072	1,564	13,787	8,657	6,408	8,931

Note: Data may not add to totals because of rounding. Volume by State in this table may differ slightly from volume by State in other tables because of rounding.

Table 22—Net volume of hardwood growing stock on timberland in the Eastern United States by species, subregion, and State, 1997

Subregion and State	Total	Select white oaks	Select red oaks	Other white oaks	Other red oaks	Hickory	Yellow birch	Hard maple	Soft maple	Beech
					Million cubic feet					
Northeast:										
Connecticut	2,313	168	461	46	281	115	38	103	577	39
Delaware	471	67	12	5	80	7	0	0	112	10
Maine	9,209	17	499	0	20	1	940	1,584	2,328	929
Maryland	3,695	412	283	257	482	135	3	56	498	148
Massachusetts	3,254	140	617	5	370	54	89	219	963	98
New Hampshire	5,220	73	788	3	93	30	471	766	1,319	442
New Jersey	1,855	197	146	127	300	52	5	45	273	33
New York	16,427	269	1,250	268	209	442	580	3,532	3,554	1,280
Pennsylvania	22,574	1,279	2,515	1,635	1,195	612	244	2,193	4,475	1,122
Rhode Island	350	38	73	0	106	2	5	1	76	10
Vermont	5,812	22	289	23	4	45	489	1,941	1,041	486
West Virginia	19,054	1,755	1,691	1,903	1,793	1,351	197	1,095	1,524	870
Total	90,234	4,437	8,625	4,271	4,932	2,846	3,062	11,533	16,741	5,466
North Central:										
Illinois	4,717	883	314	134	748	522	0	163	342	12
Indiana	6,623	783	392	141	621	709	0	666	346	162
Iowa	1,651	336	189	2	90	139	0	47	163	0
Michigan	19,134	821	1,607	1	399	158	501	4,064	3,463	478
Minnesota	10,564	650	821	0	37	26	23	408	347	0
Missouri	8,135	2,217	374	881	2,458	886	0	67	123	1
Ohio	9,758	933	557	314	670	912	2	799	971	422
Wisconsin	14,059	927	1,730	0	660	219	261	2,155	1,907	48
Total	74,640	7,550	5,983	1,474	5,682	3,572	786	8,369	7,662	1,122
Southeast:										
Florida	5,942	30	2	443	1,374	122	0	13	445	7
Georgia	16,480	1,458	384	1,164	3,966	853	0	21	937	75
North Carolina	20,212	2,065	1,032	1,499	2,541	961	68	173	2,159	355
South Carolina	8,651	733	226	332	1,735	395	0	8	633	38
Virginia	19,838	2,880	1,484	2,570	2,692	1,262	15	251	1,538	523
Total	71,124	7,167	3,126	6,008	12,307	3,593	83	467	5,712	1,000
South Central:										
Alabama	11,974	1,109	379	875	2,723	1,138	0	35	269	103
Arkansas	12,344	2,154	1,106	1,281	2,628	1,253	0	63	135	65
Kentucky	14,739	1,982	777	1,288	1,918	1,771	2	814	753	665
Louisiana	8,916	411	365	450	1,990	563	0	7	244	149
Mississippi	11,402	975	749	559	2,716	786	0	13	195	130
Oklahoma	2,203	158	170	509	382	288	0	3	29	0
Tennessee	13,753	2,093	836	1,570	2,045	1,608	3	471	601	311
Texas	5,060	311	238	655	1,499	219	0	5	57	37
Total	80,392	9,194	4,620	7,186	15,900	7,625	5	1,411	2,283	1,458
East total:	316,390	28,348	22,354	18,939	38,821	17,635	3,936	21,780	32,399	9,047

Table 22—(continued).

Subregion and State	Sweetgum	Tupelo and black gum	Ash	Bass-wood	Yellow-poplar	Cotton-wood and aspen	Black walnut	Black cherry	Other hard-woods
					Million cubic feet				
Northeast:									
Connecticut	0	8	153	2	38	20	0	28	237
Delaware	85	27	8	0	32	1	1	16	9
Maine	0	0	402	34	0	1,225	0	34	1,195
Maryland	318	134	79	13	555	18	19	82	201
Massachusetts	0	10	207	6	6	62	0	162	246
New Hampshire	0	0	287	19	0	253	0	60	617
New Jersey	138	55	159	8	151	11	19	14	123
New York	0	10	1,417	470	61	1,047	27	1,075	935
Pennsylvania	8	151	1,138	320	816	665	100	2,391	1,715
Rhode Island	0	3	23	0	0	2	0	1	8
Vermont	0	0	410	43	0	261	0	120	639
West Virginia	7	189	464	562	3,081	45	128	700	1,698
Total	556	588	4,748	1,476	4,740	3,611	295	4,683	7,623
North Central:									
Illinois	45	28	261	54	52	160	119	88	792
Indiana	85	50	494	70	747	219	174	152	811
Iowa	0	0	56	106	0	170	64	19	270
Michigan	0	6	1,155	909	39	3,696	54	497	1,289
Minnesota	0	0	892	699	0	4,781	14	16	1,850
Missouri	8	46	147	14	4	155	148	19	586
Ohio	11	68	803	153	845	298	182	648	1,171
Wisconsin	0	0	989	1,092	0	2,581	48	200	1,239
Total	148	199	4,798	3,098	1,686	12,061	804	1,639	8,007
Southeast:									
Florida	563	1,484	339	13	83	0	0	21	1,002
Georgia	2,408	1,932	313	14	1,981	7	21	98	847
North Carolina	2,051	1,937	488	130	3,271	28	49	85	1,320
South Carolina	1,626	1,436	271	4	731	53	12	26	392
Virginia	924	459	341	172	3,472	2	115	80	1,058
Total	7,573	7,248	1,752	334	9,538	92	197	311	4,618
South Central:									
Alabama	1,934	1,039	260	38	1,010	15	7	58	982
Arkansas	1,510	464	347	20	11	143	31	59	1,073
Kentucky	217	239	570	124	1,961	74	183	103	1,299
Louisiana	1,664	1,090	426	6	62	132	2	20	1,338
Mississippi	2,009	733	370	18	575	108	10	91	1,365
Oklahoma	37	19	125	1	0	90	32	13	348
Tennessee	582	273	430	66	1,665	33	91	102	972
Texas	1,105	248	161	2	0	27	5	6	484
Total	9,058	4,106	2,689	275	5,283	621	362	452	7,862
East total:	17,336	12,141	13,987	5,183	21,247	16,384	1,658	7,085	28,111

Note: Data may not add to totals because of rounding. Volume by State in this table may differ from volume by State in other tables because of rounding.

Table 23—Net volume of hardwood growing stock on timberland in the United States by ownership group, region, subregion, and State, 1997, 1987, 1977, 1963, and 1953

Region, subregion, and State	All owners					National forest					Other public[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
	Million cubic feet														
North:															
Northeast:															
Connecticut	2,313	2,293	2,237	1,548	1,146	0	0	0	0	0	370	343	190	164	121
Delaware	471	469	457	318	219	0	0	0	0	0	40	17	18	6	4
Maine	9,209	7,938	6,543	6,048	5,378	45	27	46	21	18	367	253	87	60	51
Maryland	3,695	3,685	2,699	2,359	2,053	0	0	0	0	0	432	437	260	163	142
Massachusetts	3,254	3,040	2,454	1,567	1,240	0	0	0	0	0	597	504	326	208	164
New Hampshire	5,220	4,471	3,760	2,659	1,757	597	727	623	732	483	426	226	128	57	38
New Jersey	1,855	1,332	1,282	1,112	917	0	0	0	0	0	382	315	182	57	47
New York	16,427	15,154	9,732	8,605	7,775	18	6	0	0	0	1,327	1,245	647	572	517
Pennsylvania	22,574	22,763	21,625	15,602	11,716	983	1,184	1,184	591	444	4,766	4,645	4,175	3,012	2,262
Rhode Island	350	369	305	217	146	0	0	0	0	0	56	84	17	16	11
Vermont	5,812	4,233	3,164	2,320	2,228	339	331	155	158	152	590	507	157	114	109
West Virginia	19,054	14,777	13,062	10,480	8,622	1,715	1,799	1,741	1,078	886	806	534	291	409	337
Total	90,234	80,524	67,320	52,835	43,197	3,696	4,074	3,749	2,580	1,983	10,158	9,110	6,478	4,838	3,803
North Central:															
Illinois	4,717	4,717	4,185	3,387	2,387	257	257	198	109	69	250	250	174	61	36
Indiana	6,623	5,015	3,671	3,366	2,876	280	217	156	145	50	717	511	250	229	186
Iowa	1,651	1,244	1,032	1,329	1,357	0	0	0	3	1	164	145	118	53	19
Michigan	19,134	14,414	13,103	10,668	7,610	2,100	1,689	1,392	1,035	578	3,332	2,587	2,524	2,176	1,419
Minnesota	10,564	9,645	7,978	6,060	4,253	1,193	1,045	1,000	808	570	3,619	3,543	2,899	2,320	1,434
Missouri	8,135	7,334	5,631	5,489	5,450	872	899	665	632	578	437	265	153	96	109
Ohio	9,758	7,227	6,121	3,762	3,153	302	202	190	86	72	531	321	312	223	187
Wisconsin	14,059	12,300	10,117	7,731	6,412	1,277	1,161	882	673	564	2,381	2,490	1,913	1,461	1,193
Total	74,640	61,896	51,838	41,792	33,498	6,281	5,470	4,483	3,491	2,482	11,430	10,112	8,343	6,619	4,583
North total:	164,874	142,420	119,158	94,627	76,695	9,977	9,544	8,232	6,071	4,465	21,588	19,222	14,821	11,457	8,386
South:															
Southeast:															
Florida	5,942	5,665	4,700	4,001	3,517	269	214	187	139	103	1,065	741	238	108	76
Georgia	16,480	14,917	13,322	10,188	8,600	922	874	841	723	611	927	588	443	295	250
North Carolina	20,212	19,778	17,705	13,526	12,323	1,913	1,929	1,462	1,163	936	767	574	382	311	197
South Carolina	8,651	8,898	8,089	6,202	5,412	369	407	385	259	195	362	336	278	167	76
Virginia	19,838	18,896	16,875	13,081	11,681	2,300	2,079	1,804	1,051	939	942	767	651	274	246
Total	71,124	68,154	60,691	46,998	41,533	5,773	5,503	4,679	3,335	2,784	4,062	3,006	1,992	1,155	845
South Central:															
Alabama	11,974	10,484	9,489	7,782	6,477	369	326	259	218	147	464	330	203	142	83
Arkansas	12,344	10,655	9,048	9,257	9,469	1,942	1,529	1,247	997	656	1,156	639	475	563	360
Kentucky	14,739	13,500	11,052	8,357	5,858	883	799	627	448	314	501	393	351	258	181
Louisiana	8,916	8,440	7,813	8,311	6,756	293	290	214	147	89	674	617	306	142	114
Mississippi	11,402	10,069	8,305	6,282	6,370	760	662	502	395	144	804	363	366	188	199
Oklahoma	2,203	1,221	1,051	827	840	66	80	75	55	43	152	130	97	31	31
Tennessee	13,753	11,582	9,798	7,818	7,023	701	626	503	388	276	1,087	716	510	403	378
Texas	5,060	4,923	4,918	3,353	3,682	236	190	149	145	116	118	119	93	23	19
Total	80,392	70,874	61,474	51,987	46,475	5,249	4,502	3,576	2,793	1,785	4,956	3,307	2,401	1,750	1,365
South total:	151,515	139,028	122,165	98,985	88,008	11,022	10,005	8,255	6,128	4,569	9,018	6,313	4,393	2,905	2,210

Table 23—(continued).

Region, subregion, and State	All owners					National forest					Other public[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
								Million cubic feet							
Rocky Mountain:															
Great Plains:															
Kansas	1,238	847	584	483	477	0	0	0	0	0	67	46	24	20	16
Nebraska	643	312	304	292	285	0	1	1	0	0	53	16	13	9	7
North Dakota	327	239	257	248	257	1	0	0	0	0	32	39	79	77	79
South Dakota	161	70	128	79	79	9	9	9	3	2	7	11	22	14	13
Total	2,368	1,468	1,273	1,102	1,098	10	10	10	3	2	159	112	138	120	115
Intermountain:															
Arizona	368	336	220	206	174	164	151	133	126	103	0	185	48	44	39
Colorado	3,865	3,222	2,413	2,031	1,787	2,531	1,876	1,638	1,315	1,147	285	304	150	139	124
Idaho	784	503	223	235	213	268	152	67	86	77	116	149	49	46	42
Montana	561	405	287	267	248	108	40	46	33	28	37	33	62	59	55
Nevada	33	29	13	14	12	27	27	13	14	12	5	1	0	0	0
New Mexico	549	496	599	545	457	371	308	240	222	178	16	41	32	29	25
Utah	1,655	881	878	989	898	1,146	572	444	592	546	127	68	145	133	118
Wyoming	433	341	232	207	187	169	76	81	67	61	79	81	58	54	48
Total	8,251	6,213	4,865	4,494	3,976	4,783	3,202	2,662	2,455	2,152	664	862	544	504	451
Rocky Mountain total:	10,618	7,681	6,138	5,596	5,074	4,793	3,212	2,672	2,458	2,154	823	974	682	624	566
Pacific Coast:															
Alaska:															
Alaska	3,145	4,209	4,222	4,191	4,189	176	146	237	248	248	1,930	1,751	3,864	3,861	3,902
Total	3,145	4,209	4,222	4,191	4,189	176	146	237	248	248	1,930	1,751	3,864	3,861	3,902
Pacific Northwest:															
Oregon	6,526	6,066	4,819	5,146	4,217	1,185	1,135	897	870	723	1,535	1,124	1,198	830	628
Washington	6,523	6,937	5,703	4,101	2,859	372	335	141	146	121	1,311	1,319	1,124	754	507
Total	13,049	13,003	10,522	9,247	7,076	1,557	1,470	1,038	1,016	844	2,846	2,443	2,322	1,584	1,135
Pacific Southwest:															
California	8,337	7,464	3,693	2,975	2,828	2,264	2,184	1,133	1,286	1,276	319	554	283	190	218
Hawaii	276	276	198	219	220	0	0	0	0	0	122	122	95	99	99
Total	8,613	7,740	3,891	3,194	3,048	2,264	2,184	1,133	1,286	1,276	440	676	378	289	317
Pacific Coast total:	24,808	24,952	18,635	16,632	14,313	3,997	3,800	2,408	2,550	2,368	5,216	4,870	6,564	5,734	5,354
United States:	351,816	314,081	266,096	215,840	184,090	29,789	26,561	21,567	17,207	13,556	36,645	31,379	26,460	20,720	16,516

Table 23—(continued).

Region, subregion, and State	Forest Industry					Nonindustrial private[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
	Million cubic feet									
North:										
Northeast:										
Connecticut	0	0	0	2	2	1,943	1,950	2,047	1,382	1,023
Delaware	2	8	10	23	13	429	444	429	289	202
Maine	3,582	3,711	3,311	2,490	2,215	5,215	3,947	3,099	3,477	3,094
Maryland	107	102	97	61	53	3,157	3,146	2,342	2,135	1,858
Massachusetts	82	94	43	121	96	2,575	2,442	2,085	1,238	980
New Hampshire	452	628	629	364	241	3,745	2,890	2,380	1,506	995
New Jersey	0	0	28	2	2	1,473	1,017	1,072	1,053	868
New York	1,522	1,253	902	798	721	13,560	12,650	8,183	7,235	6,537
Pennsylvania	1,120	1,246	945	682	512	15,706	15,688	15,321	11,317	8,498
Rhode Island	0	0	0	0	0	294	285	288	201	135
Vermont	277	346	533	401	385	4,607	3,049	2,319	1,647	1,582
West Virginia	1,558	1,447	1,138	610	502	14,975	10,997	9,892	8,383	6,897
Total	8,700	8,835	7,636	5,554	4,742	67,680	58,505	49,457	39,863	32,669
North Central:										
Illinois	14	14	12	10	15	4,196	4,196	3,801	3,207	2,267
Indiana	26	24	22	20	21	5,599	4,263	3,243	2,972	2,619
Iowa	0	0	12	4	5	1,487	1,099	902	1,269	1,332
Michigan	1,572	1,744	1,657	1,398	1,175	12,130	8,394	7,530	6,059	4,438
Minnesota	369	430	371	295	213	5,383	4,627	3,708	2,637	2,036
Missouri	137	185	146	100	109	6,688	5,985	4,667	4,661	4,654
Ohio	198	105	183	104	87	8,727	6,599	5,436	3,349	2,807
Wisconsin	957	928	973	742	423	9,444	7,721	6,349	4,855	4,232
Total	3,274	3,430	3,376	2,673	2,048	53,655	42,884	35,636	29,009	24,385
North total:	11,974	12,265	11,012	8,227	6,790	121,335	101,389	85,093	68,872	57,054
South:										
Southeast:										
Florida	1,230	1,477	1,511	1,209	1,053	3,378	3,232	2,764	2,545	2,285
Georgia	1,914	2,388	2,097	1,396	1,178	12,718	11,067	9,941	7,774	6,561
North Carolina	1,433	1,540	1,402	1,393	1,762	16,099	15,735	14,459	10,659	9,428
South Carolina	1,262	1,554	1,418	1,165	651	6,658	6,601	6,008	4,611	4,490
Virginia	1,017	1,198	1,114	1,057	944	15,579	14,852	13,306	10,699	9,552
Total	6,857	8,157	7,542	6,220	5,588	54,432	51,487	46,478	36,288	32,316
South Central:										
Alabama	1,921	1,739	1,647	1,230	887	9,220	8,089	7,380	6,192	5,360
Arkansas	1,923	2,337	2,023	2,194	1,359	7,324	6,150	5,303	5,503	7,094
Kentucky	230	231	241	244	171	13,125	12,077	9,833	7,407	5,192
Louisiana	1,778	1,652	1,851	1,447	1,077	6,171	5,881	5,442	6,575	5,476
Mississippi	1,379	1,357	1,407	977	664	8,460	7,687	6,030	4,722	5,363
Oklahoma	173	157	211	130	129	1,811	854	668	611	637
Tennessee	919	984	881	537	408	11,046	9,256	7,904	6,490	5,961
Texas	1,165	1,137	1,400	994	961	3,542	3,477	3,276	2,191	2,586
Total	9,488	9,594	9,661	7,753	5,656	60,699	53,471	45,836	39,691	37,669
South total:	16,344	17,751	17,203	13,973	11,244	115,131	104,958	92,314	75,979	69,985

Table 23—(continued).

Region, subregion, and State	Forest Industry					Nonindustrial private[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
					Million cubic feet					
Rocky Mountain:										
Great Plains:										
Kansas	0	0	0	0	0	1,170	801	560	463	461
Nebraska	0	0	0	0	0	590	295	290	283	278
North Dakota	0	0	0	0	0	294	200	178	171	178
South Dakota	0	0	1	0	0	145	50	96	62	64
Total	0	0	1	0	0	2,198	1,346	1,124	979	981
Intermountain:										
Arizona	0	0	0	0	0	204	0	39	36	32
Colorado	0	0	0	0	0	1,049	1,042	625	577	516
Idaho	20	17	28	34	35	381	185	79	69	59
Montana	10	16	6	8	9	407	316	173	167	156
Nevada	1	0	0	0	0	0	1	0	0	0
New Mexico	0	0	0	15	13	163	147	327	279	241
Utah	0	0	0	0	0	383	241	289	264	234
Wyoming	0	0	3	3	3	186	184	90	83	75
Total	31	33	37	60	60	2,773	2,116	1,622	1,475	1,313
Rocky Mountain total:	31	33	38	60	60	4,971	3,462	2,746	2,454	2,294
Pacific Coast:										
Alaska:										
Alaska	0	0	0	0	0	1,040	2,312	121	82	39
Total	0	0	0	0	0	1,040	2,312	121	82	39
Pacific Northwest:										
Oregon	1,502	1,524	1,302	1,211	940	2,303	2,283	1,422	2,235	1,926
Washington	1,973	2,364	2,053	1,464	960	2,882	2,919	2,385	1,737	1,271
Total	3,475	3,888	3,355	2,675	1,900	5,185	5,202	3,807	3,972	3,197
Pacific Southwest:										
California	1,701	1,374	679	449	336	4,054	3,352	1,598	1,050	998
Hawaii	0	0	0	0	0	154	154	103	120	121
Total	1,701	1,374	679	449	336	4,208	3,506	1,701	1,170	1,119
Pacific Coast total:	5,176	5,262	4,034	3,124	2,236	10,433	11,020	5,629	5,224	4,355
United States:	33,526	35,311	32,287	25,384	20,330	251,870	220,829	185,782	152,529	133,688

[a] Native American lands are included exclusively in the nonindustrial private owner group for 1997 only. For 1987 and earlier years, these lands may be included in the other public owner group.

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

Table 24—Net volume of growing stock on timberland in the Western United States by species, region, and subregion, 1997, 1987, 1977, and 1963

Region and subregion	Year	All species	Softwoods								
			Total soft-woods	Douglas-fir	Ponderosa and Jeffrey pines	True fir	Western hemlock	Sugar pine	Western white pine	Redwood	Sitka spruce
			Million cubic feet								
Rocky Mountain:											
Great Plains	1997	3,931	1,563	0	1,028	0	0	0	0	0	0
	1987	3,394	1,912	0	1,834	0	0	0	0	0	0
	1977	3,072	1,799	0	1,707	0	0	0	0	0	0
	1963	2,574	1,472	0	1,388	0	0	0	0	0	0
Intermountain	1997	121,368	113,118	29,052	16,426	18,912	1,063	1	534	0	0
	1987	104,603	98,386	22,560	15,544	14,861	971	2	1,578	0	0
	1977	98,177	93,312	20,475	14,762	13,591	1,462	1	2,184	0	0
	1963	96,245	91,751	19,913	15,650	12,984	1,694	4	3,069	0	0
Rocky Mountain total:	1997	125,299	114,681	29,052	17,454	18,912	1,063	1	534	0	0
	1987	107,997	100,298	22,560	17,378	14,861	971	2	1,578	0	0
	1977	101,249	95,111	20,475	16,469	13,591	1,462	1	2,184	0	0
	1963	98,819	93,223	19,913	17,038	12,984	1,694	4	3,069	0	0
Pacific Coast:											
Alaska[a]	1997	32,955	29,810	0	0	2	11,425	0	0	0	8,519
	1987	41,262	37,051	0	0	15	15,873	0	0	0	10,145
	1977	52,499	48,277	0	0	179	30,259	0	0	0	10,500
	1963	53,617	49,426	0	0	97	30,083	0	0	0	16,111
Pacific Northwest	1997	149,018	135,969	69,559	11,564	16,332	19,806	689	386	32	328
	1987	143,700	130,711	63,660	11,094	17,060	20,049	588	343	45	1,771
	1977	143,057	132,535	60,076	12,634	16,926	24,266	761	888	91	1,466
	1963	154,241	144,994	64,250	15,613	19,816	24,892	900	1,231	46	1,601
Pacific Southwest	1997	57,785	49,172	13,898	9,722	13,346	31	2,960	276	4,610	0
	1987	54,055	46,311	12,700	8,695	12,689	42	3,031	319	5,114	36
	1977	49,870	45,979	12,786	9,124	12,804	129	3,355	231	4,302	48
	1963	56,559	53,365	17,277	10,210	13,428	69	3,694	305	5,352	33
Pacific Coast total:	1997	239,758	214,951	83,457	21,286	29,680	31,262	3,649	662	4,642	8,848
	1987	239,017	214,073	76,361	19,789	29,765	35,964	3,619	662	5,159	11,952
	1977	245,426	226,791	72,862	21,758	29,909	54,654	4,116	1,119	4,393	12,014
	1963	264,417	247,785	81,526	25,823	33,340	55,044	4,594	1,537	5,398	17,745
West total:	1997	365,057	329,631	112,509	38,741	48,592	32,324	3,650	1,196	4,642	8,848
	1987	347,014	314,371	98,921	37,166	44,626	36,935	3,621	2,240	5,159	11,952
	1977	346,675	321,902	93,337	38,226	43,500	56,116	4,117	3,303	4,393	12,014
	1963	363,236	341,008	101,439	42,861	46,324	56,739	4,598	4,606	5,398	17,745

Table 24—(continued).

Region and subregion	Year	Softwoods					Hardwoods				
		Engelmann and other spruces	Western larch	Incense-cedar	Lodgepole pine	Other soft-woods	Total hard-woods	Cotton-wood and aspen	Red alder	Oak	Other hard-woods
						Million cubic feet					
Rocky Mountain:											
Great Plains	1997	48	0	0	0	486	2,368	9	0	0	2,359
	1987	61	0	0	0	17	1,482	463	0	314	705
	1977	62	0	0	0	30	1,273	424	0	197	651
	1963	63	0	0	0	21	1,102	387	0	217	499
Intermountain	1997	15,260	3,704	3	22,269	5,896	8,250	7,808	0	0	442
	1987	13,515	4,816	3	21,131	3,405	6,217	6,172	0	0	45
	1977	12,932	3,876	1	19,857	4,171	4,865	4,758	0	0	107
	1963	12,689	6,153	4	16,806	2,785	4,494	4,421	6	0	67
Rocky Mountain total:	1997	15,308	3,704	3	22,269	6,382	10,618	7,817	0	0	2,801
	1987	13,576	4,816	3	21,131	3,422	7,699	6,635	0	314	750
	1977	12,994	3,876	1	19,857	4,201	6,138	5,182	0	197	759
	1963	12,752	6,153	4	16,806	2,806	5,596	4,808	6	217	565
Pacific Coast:											
Alaska	1997	4,605	0	0	38	4,827	3,145	1,555	33	0	1,557
	1987	6,052	0	0	39	4,927	4,211	1,827	62	0	2,322
	1977	2,889	0	0	57	4,392	4,222	1,863	214	0	2,145
	1963	6	0	0	28	3,101	4,191	3,706	436	0	48
Pacific Northwest	1997	2,825	2,254	723	4,012	7,459	13,049	740	7,535	484	4,290
	1987	1,863	2,365	624	4,479	6,768	12,990	600	8,290	606	3,494
	1977	1,273	2,568	648	5,640	5,298	10,522	348	6,781	486	2,906
	1963	1,386	2,413	776	3,826	8,243	9,247	346	5,111	756	3,034
Pacific Southwest	1997	36	0	2,849	911	534	8,613	35	218	4,320	4,041
	1987	14	0	2,365	861	445	7,744	20	133	5,728	1,863
	1977	7	0	2,004	870	319	3,891	21	64	1,796	2,010
	1963	0	0	1,699	903	395	3,194	41	61	892	2,200
Pacific Coast total:	1997	7,466	2,254	3,571	4,960	12,821	24,808	2,330	7,786	4,804	9,888
	1987	7,929	2,365	2,989	5,379	12,140	24,944	2,447	8,485	6,334	7,679
	1977	4,169	2,568	2,652	6,567	10,009	18,635	2,232	7,059	2,282	7,062
	1963	1,392	2,413	2,476	4,757	11,739	16,632	4,094	5,609	1,647	5,282
West total:[a]	1997	22,773	5,958	3,574	27,229	19,203	35,425	10,147	7,786	4,804	12,689
	1987	27,072	7,181	2,992	26,549	20,412	32,644	9,082	8,485	6,648	8,429
	1977	19,697	6,444	2,653	26,481	18,509	24,773	7,414	7,059	2,480	7,821
	1963	13,970	8,567	2,479	21,592	17,586	22,228	8,901	5,615	1,864	5,848

[a] Data for Englemann and other spruces included in other softwoods for 1963.

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

Table 25—Net volume of all growing stock on timberland in the United States by ownership group, region, subregion, and State, 1997, 1987, 1977, 1963, and 1953

Region, subregion, and State	All owners					National forest					Other public[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
								Million cubic feet							
North:															
Northeast:															
Connecticut	2,755	2,707	2,662	1,762	1,304	0	0	0	0	0	412	412	240	186	137
Delaware	639	642	625	549	455	0	0	0	0	0	47	25	27	11	9
Maine	20,891	22,448	22,603	18,611	15,471	93	51	68	39	33	875	780	352	196	163
Maryland	4,511	4,490	3,492	3,134	2,770	0	0	0	0	0	511	515	342	194	170
Massachusetts	4,862	4,729	3,893	2,539	1,871	0	0	0	0	0	820	774	589	328	242
New Hampshire	9,039	7,879	7,286	5,193	3,965	929	1,087	899	1,022	736	783	453	187	128	100
New Jersey	2,378	1,895	1,534	1,394	1,167	0	0	0	0	0	603	571	240	86	73
New York	21,828	20,089	13,256	11,642	10,523	24	7	0	0	0	2,062	1,893	1,089	953	861
Pennsylvania	24,903	24,746	23,403	17,038	12,945	1,045	1,252	1,244	636	482	5,156	4,875	4,388	3,184	2,409
Rhode Island	394	428	413	240	161	0	0	0	0	0	68	110	21	18	12
Vermont	8,675	6,243	4,990	3,699	3,479	404	376	194	196	187	741	637	249	156	147
West Virginia	20,303	15,837	14,154	11,068	9,114	1,982	1,979	1,980	1,219	1,004	878	561	309	442	365
Total	121,179	112,133	98,311	76,869	63,225	4,478	4,752	4,385	3,112	2,442	12,956	11,606	8,033	5,882	4,688
North Central:															
Illinois	4,835	4,835	4,266	3,412	2,404	304	304	233	126	74	275	275	189	62	36
Indiana	6,900	5,216	3,759	3,418	2,903	309	239	170	153	53	751	528	270	241	200
Iowa	1,669	1,251	1,038	1,334	1,361	0	0	0	3	1	164	145	118	53	19
Michigan	26,735	20,972	18,304	14,292	9,980	3,604	3,026	2,346	1,622	849	5,363	4,332	3,831	3,028	1,953
Minnesota	15,268	13,731	11,455	9,444	6,951	2,223	1,964	1,871	1,713	1,350	5,691	5,418	4,464	3,885	2,549
Missouri	8,998	7,935	6,023	5,805	5,714	1,184	1,172	842	795	712	505	287	165	103	114
Ohio	10,159	7,553	6,395	3,871	3,249	330	222	206	94	79	577	347	337	233	196
Wisconsin	18,509	16,412	13,457	9,843	7,961	1,905	1,813	1,357	973	700	3,376	3,620	2,697	1,957	1,678
Total	93,072	77,905	64,697	51,419	40,523	9,859	8,740	7,025	5,479	3,818	16,702	14,952	12,071	9,562	6,745
North total:	214,251	190,038	163,008	128,288	103,748	14,337	13,492	11,410	8,591	6,260	29,657	26,558	20,104	15,444	11,433
South:															
Southeast:															
Florida	15,366	14,970	13,450	10,686	8,901	1,264	1,087	1,099	796	652	2,607	1,896	990	494	388
Georgia	31,704	30,787	29,418	22,701	19,351	1,428	1,251	1,309	1,121	977	2,129	1,557	1,299	1,104	906
North Carolina	32,742	32,064	29,231	23,160	21,420	2,459	2,452	1,958	1,519	1,273	1,512	1,153	786	658	470
South Carolina	16,685	17,733	16,797	12,268	10,212	951	1,151	1,143	862	777	966	921	740	493	188
Virginia	26,487	25,219	22,803	18,357	17,197	2,663	2,410	2,116	1,280	1,179	1,300	1,118	947	495	477
Total	122,985	120,773	111,699	87,172	77,081	8,764	8,351	7,625	5,578	4,858	8,514	6,645	4,762	3,244	2,429
South Central:															
Alabama	23,075	21,812	20,958	16,466	12,352	931	985	820	635	425	733	559	419	309	181
Arkansas	21,686	19,241	17,021	15,069	14,109	3,837	3,206	2,767	2,146	1,542	1,440	863	630	617	401
Kentucky	15,952	14,610	11,968	8,924	6,351	1,041	963	780	608	453	536	397	355	330	244
Louisiana	18,844	18,992	17,155	14,668	11,009	1,024	1,065	938	658	357	1,026	894	512	262	197
Mississippi	20,611	19,815	17,235	11,541	10,044	2,133	2,136	1,755	1,484	723	1,312	631	742	409	541
Oklahoma	3,624	2,219	2,062	1,519	1,381	294	249	202	153	116	225	188	147	33	33
Tennessee	16,646	14,292	12,001	9,298	8,250	1,004	972	777	681	496	1,390	957	699	505	480
Texas	12,939	12,887	13,274	9,415	7,893	1,379	1,392	1,207	1,302	796	246	276	237	109	68
Total	133,377	123,868	111,674	86,900	71,389	11,645	10,968	9,246	7,667	4,908	6,907	4,765	3,741	2,574	2,145
South total:	256,361	244,641	223,373	174,072	148,470	20,409	19,319	16,871	13,245	9,766	15,421	11,410	8,503	5,818	4,574

Table 25—(continued).

Region, subregion, and State	All owners					National forest					Other public[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
								Million cubic feet							
Rocky Mountain:															
Great Plains:															
Kansas	1,254	853	585	483	477	0	0	0	0	0	68	46	24	20	16
Nebraska	854	489	452	395	358	54	32	29	22	19	75	33	26	17	11
North Dakota	330	242	257	248	257	2	0	0	0	0	32	39	79	77	79
South Dakota	1,492	1,796	1,778	1,448	1,315	1,099	1,279	1,354	1,143	1,048	55	129	122	76	64
Total	3,931	3,380	3,072	2,574	2,407	1,155	1,311	1,383	1,165	1,067	230	247	251	190	170
Intermountain:															
Arizona	5,977	6,316	4,983	4,895	4,774	4,095	4,327	3,341	3,203	2,991	47	1,938	1,497	1,546	1,635
Colorado	20,028	19,448	15,037	13,805	12,713	14,323	13,687	11,124	10,138	9,352	1,646	1,669	863	809	742
Idaho	39,256	32,591	31,885	30,477	28,890	29,848	23,592	21,656	20,298	18,971	3,468	3,629	3,316	3,138	3,034
Montana	34,815	28,016	27,978	30,060	27,615	25,256	18,635	18,136	19,645	17,472	2,354	2,491	2,605	2,553	2,390
Nevada	339	419	263	258	247	154	233	99	100	91	62	13	9	9	9
New Mexico	5,578	6,124	6,396	6,284	5,971	3,497	4,038	3,112	3,058	2,756	140	717	1,379	1,366	1,377
Utah	7,363	4,794	4,440	4,715	4,555	5,721	3,603	3,252	3,529	3,331	500	413	557	564	594
Wyoming	8,012	6,891	7,195	5,751	5,448	5,739	4,618	5,650	4,301	4,136	803	951	634	596	538
Total	121,370	104,599	98,177	96,245	90,213	88,632	72,733	66,370	64,272	59,100	9,020	11,821	10,860	10,581	10,319
Rocky Mountain total:	125,300	107,979	101,249	98,819	92,620	89,787	74,044	67,753	65,437	60,167	9,250	12,068	11,111	10,771	10,489
Pacific Coast:															
Alaska:															
Alaska	32,955	41,260	52,499	53,617	53,338	18,909	24,214	35,651	38,476	39,098	7,020	7,631	16,064	14,776	13,983
Total	32,955	41,260	52,499	53,617	53,338	18,909	24,214	35,651	38,476	39,098	7,020	7,631	16,064	14,776	13,983
Pacific Northwest:															
Oregon	83,296	76,620	79,554	88,573	91,797	49,178	43,237	45,801	48,970	46,211	13,593	13,929	13,907	14,065	15,900
Washington	65,724	67,067	63,503	65,668	64,853	27,693	23,832	22,974	25,507	25,625	11,034	15,117	14,324	13,842	13,112
Total	149,020	143,687	143,057	154,241	156,650	76,871	67,069	68,775	74,477	71,836	24,627	29,046	28,231	27,907	29,012
Pacific Southwest:															
California	57,505	53,771	49,668	56,340	60,834	31,803	29,397	29,206	30,677	30,866	1,639	1,799	1,391	1,625	2,110
Hawaii	280	280	202	223	224	0	0	0	0	0	125	125	98	102	102
Total	57,785	54,051	49,870	56,563	61,058	31,803	29,397	29,206	30,677	30,866	1,763	1,924	1,489	1,727	2,212
Pacific Coast total:	239,760	238,998	245,426	264,421	271,046	127,583	120,680	133,632	143,630	141,800	33,410	38,601	45,784	44,410	45,207
United States:	835,672	781,656	733,056	665,600	615,884	252,115	227,535	229,666	230,903	217,993	87,738	88,637	85,502	76,443	71,703

Table 25—(continued).

Region, subregion, and State	Forest Industry					Nonindustrial private[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
	Million cubic feet									
North:										
Northeast:										
Connecticut	0	0	0	2	2	2,343	2,295	2,422	1,574	1,165
Delaware	20	26	38	40	27	573	591	560	498	419
Maine	8,352	11,560	12,431	7,712	6,409	11,571	10,057	9,752	10,664	8,866
Maryland	187	181	188	130	117	3,813	3,794	2,962	2,810	2,483
Massachusetts	168	158	67	201	148	3,874	3,797	3,237	2,010	1,481
New Hampshire	721	1,061	1,429	790	612	6,607	5,278	4,771	3,253	2,517
New Jersey	0	0	28	3	3	1,775	1,324	1,266	1,305	1,091
New York	1,877	1,656	1,284	1,127	1,019	17,864	16,533	10,883	9,562	8,643
Pennsylvania	1,202	1,337	1,016	739	561	17,500	17,282	16,755	12,479	9,493
Rhode Island	0	0	0	0	0	326	318	392	222	149
Vermont	350	474	745	604	569	7,180	4,756	3,802	2,743	2,576
West Virginia	1,627	1,573	1,234	633	521	15,816	11,724	10,631	8,774	7,224
Total	14,503	18,026	18,460	11,981	9,988	89,243	77,749	67,433	55,894	46,107
North Central:										
Illinois	14	14	13	12	16	4,242	4,242	3,831	3,212	2,278
Indiana	26	24	23	20	21	5,814	4,425	3,296	3,004	2,629
Iowa	0	0	12	4	5	1,505	1,106	908	1,274	1,336
Michigan	2,336	2,629	2,465	2,039	1,738	15,431	10,985	9,662	7,603	5,440
Minnesota	672	766	636	579	445	6,681	5,583	4,484	3,267	2,607
Missouri	173	206	167	109	116	7,136	6,270	4,849	4,798	4,772
Ohio	223	107	187	108	91	9,029	6,877	5,665	3,436	2,883
Wisconsin	1,257	1,337	1,563	1,116	533	11,972	9,642	7,840	5,797	5,050
Total	4,700	5,083	5,066	3,987	2,965	61,811	49,130	40,535	32,391	26,995
North total:	19,204	23,109	23,526	15,968	12,953	151,053	126,879	107,968	88,285	73,102
South:										
Southeast:										
Florida	3,541	4,164	4,300	3,362	2,742	7,954	7,822	7,061	6,034	5,119
Georgia	5,141	5,831	4,933	3,757	3,209	23,007	22,148	21,877	16,719	14,259
North Carolina	3,317	3,186	2,559	2,732	3,308	25,454	25,273	23,928	18,251	16,369
South Carolina	2,934	3,328	2,835	2,321	1,351	11,833	12,333	12,079	8,592	7,896
Virginia	2,154	2,365	2,057	1,857	1,781	20,370	19,326	17,683	14,725	13,760
Total	17,088	18,874	16,684	14,029	12,391	88,619	86,902	82,628	64,321	57,403
South Central:										
Alabama	4,920	4,541	4,530	3,634	2,521	16,491	15,727	15,189	11,888	9,225
Arkansas	5,394	5,528	5,143	5,390	3,731	11,015	9,644	8,481	6,916	8,435
Kentucky	242	237	247	256	181	14,133	13,013	10,586	7,730	5,473
Louisiana	4,633	4,431	4,576	4,272	3,029	12,161	12,602	11,129	9,476	7,426
Mississippi	3,270	3,179	3,133	2,437	2,118	13,896	13,869	11,605	7,211	6,662
Oklahoma	748	507	728	586	488	2,357	1,275	985	747	744
Tennessee	1,221	1,273	1,113	630	482	13,032	11,090	9,412	7,482	6,792
Texas	3,291	3,413	4,621	3,635	2,844	8,023	7,806	7,209	4,369	4,185
Total	23,719	23,109	24,091	20,840	15,394	91,106	85,026	74,596	55,819	48,942
South total:	40,807	41,983	40,775	34,869	27,785	179,725	171,928	157,224	120,140	106,345

Table 25—(continued).

Region, subregion, and State	Forest industry					Nonindustrial private[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
					Million cubic feet					
Rocky Mountain:										
Great Plains:										
Kansas	0	0	0	0	0	1,186	807	561	463	461
Nebraska	0	0	0	0	0	725	424	397	356	328
North Dakota	0	0	0	0	0	296	203	178	171	178
South Dakota	0	12	20	10	8	339	376	282	219	195
Total	0	12	20	10	8	2,546	1,810	1,418	1,209	1,162
Intermountain:										
Arizona	0	0	0	0	0	1,835	51	145	146	148
Colorado	0	0	21	20	19	4,059	4,092	3,029	2,838	2,600
Idaho	2,613	2,329	2,941	3,380	3,473	3,328	3,041	3,972	3,661	3,412
Montana	2,167	2,979	2,103	2,872	3,113	5,038	3,911	5,134	4,990	4,640
Nevada	24	0	16	15	15	100	173	139	134	132
New Mexico	0	3	0	127	126	1,942	1,366	1,905	1,733	1,712
Utah	0	0	0	0	0	1,142	778	631	622	630
Wyoming	0	53	64	60	55	1,470	1,269	847	794	719
Total	4,803	5,364	5,145	6,474	6,801	18,914	14,681	15,802	14,918	13,993
Rocky Mountain total:	4,803	5,376	5,165	6,484	6,809	21,461	16,491	17,220	16,127	15,155
Pacific Coast:										
Alaska:										
Alaska	0	0	0	0	0	7,027	9,415	784	365	257
Total	0	0	0	0	0	7,027	9,415	784	365	257
Pacific Northwest:										
Oregon	11,176	11,535	13,412	16,675	20,000	9,349	7,919	6,434	8,863	9,686
Washington	13,504	16,768	15,770	17,371	18,600	13,493	11,350	10,435	8,948	7,516
Total	24,680	28,303	29,182	34,046	38,600	22,842	19,269	16,869	17,811	17,202
Pacific Southwest:										
California	10,294	9,292	8,136	10,088	11,604	13,769	13,283	10,935	13,950	16,254
Hawaii	0	0	0	0	0	156	155	104	121	122
Total	10,294	9,292	8,136	10,088	11,604	13,925	13,438	11,039	14,071	16,376
Pacific Coast total:	34,973	37,595	37,318	44,134	50,204	43,794	42,122	28,692	32,247	33,835
United States:	99,787	108,063	106,784	101,455	97,751	396,032	357,420	311,104	256,799	228,437

[a] Native American lands are included exclusively in the nonindustrial private owner group for 1997 only. For 1987 and earlier years, these lands may be included in the other public owner group.

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

Table 26—Net volume of hardwood growing stock on timberland in the Eastern United States by species, subregion, and diameter class, 1997

Subregion and diameter class (in inches)	Total	Select white oaks	Select red oaks	Other white oaks	Other red oaks	Hickory	Yellow birch	Hard maple	Soft maple	Beech
					Million cubic feet					
Northeast:										
5.0 - 6.9	8,137	310	362	255	260	261	317	955	2,051	551
7.0 - 8.9	13,420	537	772	577	522	473	516	1,660	3,177	813
9.0 - 10.9	15,604	696	1,118	773	701	576	578	1,963	3,306	944
11.0 - 12.9	14,110	662	1,300	713	712	492	491	1,824	2,614	841
13.0 - 14.9	12,048	615	1,254	625	716	402	388	1,539	2,021	674
15.0 - 16.9	9,054	501	1,082	480	609	269	262	1,174	1,300	522
17.0 - 18.9	6,165	355	851	302	445	156	184	764	827	407
19.0 - 20.9	4,145	247	578	201	340	110	111	525	494	272
21.0 - 28.9	6,160	396	1,039	300	524	95	176	905	772	387
29.0 +	1,391	118	270	47	103	11	40	225	179	56
Total	90,234	4,437	8,625	4,271	4,932	2,846	3,062	11,533	16,741	5,466
North Central:										
5.0 - 6.9	7,436	443	197	167	350	354	81	1,082	1,060	55
7.0 - 8.9	10,575	669	433	230	569	542	106	1,384	1,348	80
9.0 - 10.9	12,210	928	709	234	731	590	127	1,414	1,354	114
11.0 - 12.9	11,341	988	866	223	836	595	114	1,173	1,082	115
13.0 - 14.9	9,678	1,048	870	200	830	502	100	957	827	130
15.0 - 16.9	7,475	976	759	159	728	409	93	776	597	123
17.0 - 18.9	5,305	767	610	109	517	279	59	572	443	124
19.0 - 20.9	3,499	539	453	73	372	120	40	405	286	94
21.0 - 28.9	5,798	957	851	74	622	171	62	554	527	231
29.0 +	1,323	237	236	6	126	10	4	55	138	55
Total	74,640	7,550	5,983	1,474	5,682	3,572	786	8,369	7,662	1,122
Southeast:										
5.0 - 6.9	5,598	401	115	337	869	265	8	48	803	52
7.0 - 8.9	7,861	643	168	652	1,279	419	11	63	930	73
9.0 - 10.9	9,542	905	244	773	1,609	566	12	56	877	97
11.0 - 12.9	10,208	1,051	336	803	1,734	562	3	53	841	111
13.0 - 14.9	9,781	1,066	381	764	1,644	511	6	56	713	124
15.0 - 16.9	8,365	952	410	632	1,392	429	11	59	514	140
17.0 - 18.9	6,387	724	339	570	1,128	322	8	44	404	128
19.0 - 20.9	4,613	509	315	406	875	202	7	29	249	82
21.0 - 28.9	7,219	788	644	789	1,396	283	17	44	335	164
29.0 +	1,550	130	176	282	381	34	0	13	47	30
Total	71,124	7,167	3,126	6,008	12,307	3,593	83	467	5,712	1,000

Table 26—(continued).

Subregion and diameter class (in inches)	Total	Select white oaks	Select red oaks	Other white oaks	Other red oaks	Hickory	Yellow birch	Hard maple	Soft maple	Beech
					Million cubic feet					
South Central:										
5.0 - 6.9	6,605	668	162	584	872	681	1	161	437	46
7.0 - 8.9	9,823	1,077	334	976	1,467	1,084	1	217	445	81
9.0 - 10.9	11,838	1,370	473	1,151	2,011	1,326	0	239	391	106
11.0 - 12.9	11,180	1,375	541	1,039	2,069	1,281	0	208	267	122
13.0 - 14.9	10,815	1,316	596	950	2,227	1,068	1	194	217	160
15.0 - 16.9	8,941	1,090	535	777	1,911	791	0	134	174	156
17.0 - 18.9	6,848	852	491	541	1,596	519	0	102	104	178
19.0 - 20.9	4,877	539	422	396	1,191	332	0	72	92	153
21.0 - 28.9	7,807	790	830	639	2,044	451	1	73	132	367
29.0 +	1,657	116	236	132	512	93	0	11	24	88
Total	80,392	9,194	4,620	7,186	15,900	7,625	5	1,411	2,283	1,458
East total:										
5.0 - 6.9	27,775	1,821	836	1,343	2,350	1,561	407	2,246	4,351	704
7.0 - 8.9	41,679	2,926	1,706	2,436	3,837	2,519	634	3,324	5,900	1,047
9.0 - 10.9	49,195	3,898	2,544	2,930	5,053	3,058	717	3,671	5,928	1,261
11.0 - 12.9	46,840	4,076	3,042	2,778	5,351	2,929	609	3,257	4,804	1,190
13.0 - 14.9	42,322	4,046	3,100	2,539	5,418	2,483	495	2,746	3,778	1,088
15.0 - 16.9	33,835	3,518	2,786	2,048	4,641	1,897	366	2,143	2,585	942
17.0 - 18.9	24,705	2,698	2,291	1,521	3,686	1,276	250	1,482	1,777	836
19.0 - 20.9	17,134	1,834	1,768	1,075	2,778	764	158	1,031	1,122	601
21.0 - 28.9	26,984	2,931	3,363	1,802	4,586	1,000	256	1,576	1,766	1,150
29.0 +	5,921	601	918	466	1,122	148	44	303	388	228
Total	316,390	28,348	22,354	18,939	38,821	17,635	3,936	21,780	32,399	9,047

Table 26—(continued).

Subregion and diameter class (in inches)	Sweetgum	Tupelo and black gum	Ash	Basswood	Yellow-poplar	Cotton-wood and aspen	Black walnut	Black cherry	Other eastern hard-woods
					Million cubic feet				
Northeast:									
5.0 - 6.9	54	99	475	71	146	411	22	316	1,221
7.0 - 8.9	80	95	702	157	312	731	42	537	1,717
9.0 - 10.9	90	99	857	194	501	799	49	724	1,637
11.0 - 12.9	83	77	781	259	636	683	50	766	1,126
13.0 - 14.9	95	65	663	261	708	485	53	716	769
15.0 - 16.9	59	60	488	206	709	267	34	576	456
17.0 - 18.9	40	30	289	123	591	100	20	405	277
19.0 - 20.9	21	25	197	95	437	72	12	262	146
21.0 - 28.9	29	36	226	97	581	47	12	326	212
29.0 +	4	2	70	14	119	16	1	53	62
Total	556	588	4,748	1,476	4,740	3,611	295	4,683	7,623
North Central:									
5.0 - 6.9	9	28	641	219	57	1,184	55	193	1,262
7.0 - 8.9	15	29	837	404	105	1,835	95	255	1,640
9.0 - 10.9	21	29	815	567	169	2,442	120	299	1,548
11.0 - 12.9	23	22	700	591	195	2,314	150	259	1,095
13.0 - 14.9	22	31	587	467	223	1,739	145	228	771
15.0 - 16.9	20	20	423	333	238	1,074	97	154	497
17.0 - 18.9	14	16	300	204	201	543	74	107	366
19.0 - 20.9	10	7	202	126	177	258	38	62	238
21.0 - 28.9	14	14	252	170	292	451	30	74	450
29.0 +	0	3	41	17	29	220	0	7	139
Total	148	199	4,798	3,098	1,686	12,061	804	1,639	8,007
Southeast:									
5.0 - 6.9	778	699	149	13	437	4	11	72	537
7.0 - 8.9	1,034	931	188	27	674	9	21	64	675
9.0 - 10.9	1,235	1,102	254	37	926	7	35	57	751
11.0 - 12.9	1,167	1,184	262	52	1,275	5	37	40	692
13.0 - 14.9	1,108	1,083	238	54	1,384	9	31	26	584
15.0 - 16.9	790	833	210	57	1,429	8	25	15	461
17.0 - 18.9	539	548	142	31	1,123	7	9	17	306
19.0 - 20.9	354	343	120	29	861	5	16	6	206
21.0 - 28.9	508	424	162	25	1,254	21	12	10	345
29.0 +	60	102	27	10	176	17	2	2	62
Total	7,573	7,248	1,752	334	9,538	92	197	311	4,618

Table 26—(continued).

Subregion and diameter class (in inches)	Sweetgum	Tupelo and black gum	Ash	Basswood	Yellow poplar	Cotton-wood and aspen	Black walnut	Black cherry	Other eastern hard-woods
					Million cubic feet				
South Central:									
5.0 - 6.9	956	378	243	18	233	7	35	90	1,031
7.0 - 8.9	1,391	561	364	27	432	18	55	87	1,204
9.0 - 10.9	1,605	720	404	36	593	29	78	92	1,213
11.0 - 12.9	1,326	614	375	48	737	37	58	52	1,031
13.0 - 14.9	1,204	621	339	41	821	39	50	40	932
15.0 - 16.9	940	483	305	36	790	48	36	39	695
17.0 - 18.9	596	330	235	23	615	54	23	29	561
19.0 - 20.9	426	162	161	18	431	67	12	10	392
21.0 - 28.9	541	215	232	25	561	195	14	11	685
29.0 +	72	22	31	3	70	127	1	3	117
Total	9,058	4,106	2,689	275	5,283	621	362	452	7,862
East total:									
5.0 - 6.9	1,797	1,205	1,509	321	874	1,606	122	672	4,051
7.0 - 8.9	2,520	1,616	2,091	615	1,522	2,594	213	944	5,236
9.0 - 10.9	2,951	1,951	2,329	833	2,188	3,277	282	1,172	5,149
11.0 - 12.9	2,599	1,897	2,120	950	2,843	3,040	294	1,116	3,945
13.0 - 14.9	2,430	1,800	1,826	822	3,135	2,271	278	1,011	3,057
15.0 - 16.9	1,809	1,396	1,427	631	3,166	1,397	193	784	2,109
17.0 - 18.9	1,189	923	966	381	2,530	704	126	559	1,510
19.0 - 20.9	812	536	679	268	1,905	402	78	340	983
21.0 - 28.9	1,092	689	872	317	2,688	713	69	422	1,692
29.0 +	136	129	169	45	394	381	4	66	379
Total	17,336	12,141	13,987	5,183	21,247	16,384	1,658	7,085	28,111

Note: Data may not add to totals because of rounding. Total volume by State in this table may differ slightly from volume by State in other tables because of rounding.

Table 27—Net volume of softwood growing stock on timberland in the Eastern United States by species, subregion, and diameter class, 1997

Subregion and diameter class (in inches)	Total	Longleaf and slash pines	Loblolly and shortleaf pines	Other yellow pines	White and red pines	Jack pine	Spruce and balsam fir	Eastern hemlock	Cypress	Other soft-woods
					Million cubic feet					
Northeast:										
5.0 - 6.9	3,744	0	64	215	499	3	1,912	595	0	456
7.0 - 8.9	5,318	0	100	392	860	2	2,382	930	0	651
9.0 - 10.9	5,133	0	115	410	1,059	5	1,943	1,014	0	588
11.0 - 12.9	4,751	0	129	322	1,277	3	1,401	1,108	0	511
13.0 - 14.9	3,810	0	101	214	1,351	1	763	1,037	0	343
15.0 - 16.9	2,783	0	71	104	1,145	0	439	803	1	221
17.0 - 18.9	1,827	0	41	38	881	0	193	552	1	121
19.0 - 20.9	1,227	0	18	17	729	0	79	339	0	45
21.0 - 28.9	1,935	0	13	5	1,308	0	72	506	0	29
29.0 +	417	0	0	0	350	0	0	66	0	0
Total	30,945	0	652	1,717	9,460	14	9,184	6,949	3	2,965
North Central:										
5.0 - 6.9	3,571	0	98	52	590	270	1,431	39	0	1,090
7.0 - 8.9	4,149	0	140	90	939	432	1,272	64	0	1,212
9.0 - 10.9	3,316	0	163	89	821	399	828	107	0	909
11.0 - 12.9	2,374	0	146	64	700	259	476	137	0	591
13.0 - 14.9	1,579	0	105	34	567	122	247	155	2	348
15.0 - 16.9	1,058	0	51	26	448	45	151	157	2	177
17.0 - 18.9	772	0	20	14	402	16	92	135	3	90
19.0 - 20.9	542	0	10	4	336	4	45	100	2	42
21.0 - 28.9	893	0	3	0	643	2	37	168	8	32
29.0 +	178	0	0	0	151	0	0	21	4	1
Total	18,431	0	737	373	5,597	1,550	4,579	1,082	22	4,491
Southeast:										
5.0 - 6.9	6,621	1,724	3,316	962	98	0	3	34	363	120
7.0 - 8.9	9,358	2,277	4,695	1,544	152	0	4	37	540	109
9.0 - 10.9	9,146	1,987	4,585	1,615	178	0	5	37	653	86
11.0 - 12.9	8,043	1,752	4,135	1,241	174	0	7	46	637	53
13.0 - 14.9	6,447	1,417	3,413	787	180	0	2	35	568	47
15.0 - 16.9	4,732	969	2,735	376	198	0	3	45	383	25
17.0 - 18.9	3,032	513	1,815	180	180	0	0	43	286	16
19.0 - 20.9	1,888	222	1,163	82	183	0	0	29	196	12
21.0 - 28.9	2,293	181	1,307	66	316	0	0	71	342	10
29.0 +	301	2	83	2	76	0	1	37	99	1
Total	51,861	11,044	27,248	6,855	1,733	0	24	413	4,066	478

Table 27—(continued).

Subregion and diameter class (in inches)	Total	Longleaf and slash pines	Loblolly and shortleaf pines	Other yellow pines	White and red pines	Jack pine	Spruce and balsam fir	Eastern hemlock	Cypress	Other soft-woods
					Million cubic feet					
South Central:										
5.0 - 6.9	4,772	452	3,654	300	11	0	0	16	51	288
7.0 - 8.9	7,530	738	5,763	582	23	0	0	20	126	278
9.0 - 10.9	8,014	900	6,179	549	29	0	0	24	153	180
11.0 - 12.9	8,364	943	6,504	502	31	0	0	32	237	116
13.0 - 14.9	7,602	804	6,005	349	27	0	0	27	317	73
15.0 - 16.9	6,117	532	4,971	188	35	0	0	22	339	30
17.0 - 18.9	4,172	287	3,379	114	31	0	0	21	322	17
19.0 - 20.9	2,677	140	2,193	78	29	0	0	15	215	8
21.0 - 28.9	3,344	92	2,652	106	55	0	0	31	402	6
29.0 +	393	0	218	6	11	0	0	4	154	0
Total	52,985	4,886	41,517	2,774	281	0	0	213	2,317	997
East total:										
5.0 - 6.9	18,707	2,176	7,132	1,529	1,198	273	3,346	684	415	1,954
7.0 - 8.9	26,355	3,016	10,699	2,608	1,974	435	3,658	1,050	666	2,250
9.0 - 10.9	25,610	2,887	11,041	2,663	2,086	404	2,776	1,182	806	1,763
11.0 - 12.9	23,532	2,694	10,914	2,129	2,181	262	1,883	1,323	874	1,272
13.0 - 14.9	19,439	2,221	9,624	1,385	2,124	123	1,012	1,253	886	811
15.0 - 16.9	14,690	1,500	7,828	694	1,826	45	593	1,027	725	452
17.0 - 18.9	9,803	800	5,255	345	1,495	16	284	752	613	243
19.0 - 20.9	6,333	361	3,384	181	1,277	4	124	483	413	107
21.0 - 28.9	8,465	273	3,975	178	2,322	2	109	776	752	77
29.0 +	1,289	2	301	8	589	0	2	128	258	2
Total	154,222	15,931	70,154	11,719	17,072	1,564	13,787	8,657	6,408	8,931

Note: Data may not add to totals because of rounding. Total volume by State in this table may differ slightly from volume by State in other tables because of rounding.

Table 28—Net volume of growing stock on timberland in the Western United States by species, subregion, and diameter class, 1997

Subregion and diameter class (in inches)	Total	Softwoods								
		Total soft-woods	Douglas-fir	Ponderosa and Jeffrey pine	True fir	Western hemlock	Sugar pine	Western white pine	Redwood	Sitka spruce
					Million cubic feet					
Great Plains:										
5.0 - 6.9	320	145	0	89	0	0	0	0	0	0
7.0 - 8.9	492	267	0	190	0	0	0	0	0	0
9.0 - 10.9	536	271	0	184	0	0	0	0	0	0
11.0 - 12.9	506	266	0	181	0	0	0	0	0	0
13.0 - 14.9	460	221	0	148	0	0	0	0	0	0
15.0 - 16.9	369	157	0	95	0	0	0	0	0	0
17.0 - 18.9	294	107	0	59	0	0	0	0	0	0
19.0 - 20.9	217	64	0	39	0	0	0	0	0	0
21.0 - 28.9	481	63	0	42	0	0	0	0	0	0
29.0 +	257	2	0	2	0	0	0	0	0	0
Total	3,931	1,563	0	1,028	0	0	0	0	0	0
Intermountain:										
5.0 - 6.9	10,626	9,164	1,419	658	1,993	71	0	17	0	0
7.0 - 8.9	16,611	14,678	2,502	1,254	2,554	121	0	36	0	0
9.0 - 10.9	17,770	15,933	3,243	1,736	2,702	116	0	40	0	0
11.0 - 12.9	16,397	15,176	3,672	1,947	2,619	145	0	53	0	0
13.0 - 14.9	13,647	12,897	3,615	2,005	2,182	129	0	93	0	0
15.0 - 16.9	11,044	10,605	3,336	1,718	1,785	98	0	72	0	0
17.0 - 18.9	8,644	8,428	2,792	1,479	1,378	87	0	47	0	0
19.0 - 20.9	6,625	6,485	2,171	1,176	1,014	83	0	41	0	0
21.0 - 28.9	14,235	14,056	4,612	3,042	1,849	155	0	96	0	0
29.0 +	5,769	5,695	1,689	1,410	836	57	0	38	0	0
Total	121,368	113,118	29,052	16,426	18,912	1,063	1	534	0	0
Alaska:										
5.0 - 6.9	1,326	743	0	0	0	178	0	0	0	68
7.0 - 8.9	2,248	1,538	0	0	0	310	0	0	0	139
9.0 - 10.9	2,296	1,830	0	0	0	446	0	0	0	247
11.0 - 12.9	2,403	2,044	0	0	0	566	0	0	0	283
13.0 - 14.9	2,387	2,162	0	0	2	691	0	0	0	380
15.0 - 16.9	2,277	1,995	0	0	0	666	0	0	0	412
17.0 - 18.9	2,175	2,052	0	0	0	784	0	0	0	534
19.0 - 20.9	2,110	2,008	0	0	0	895	0	0	0	545
21.0 - 28.9	7,141	6,908	0	0	0	3,289	0	0	0	2,038
29.0 +	8,593	8,530	0	0	0	3,599	0	0	0	3,874
Total	32,955	29,810	0	0	2	11,425	0	0	0	8,519

Table 28—(continued).

Subregion and diameter class (in inches)	Total	Softwoods								
		Total soft-woods	Douglas-fir	Ponderosa and Jeffrey pine	True fir	Western hemlock	Sugar pine	Western white pine	Redwood	Sitka spruce
					Million cubic feet					
Pacific Northwest:										
5.0 - 6.9	4,509	3,767	1,225	334	547	609	6	12	0	1
7.0 - 8.9	8,438	6,983	2,558	599	959	1,237	7	20	0	4
9.0 - 10.9	11,006	9,101	3,621	868	1,182	1,647	15	35	1	5
11.0 - 12.9	12,480	10,397	4,427	994	1,378	1,933	18	33	1	9
13.0 - 14.9	12,169	10,471	4,825	1,026	1,323	1,820	15	26	2	9
15.0 - 16.9	11,690	10,273	5,011	950	1,294	1,732	15	31	1	10
17.0 - 18.9	10,743	9,629	4,744	865	1,276	1,563	17	32	3	9
19.0 - 20.9	9,615	8,884	4,517	826	1,213	1,287	19	28	4	9
21.0 - 28.9	28,112	26,732	13,741	2,728	3,580	3,653	100	88	6	39
29.0 +	40,256	39,732	24,889	2,374	3,580	4,324	478	80	15	233
Total	149,018	135,969	69,559	11,564	16,332	19,806	689	386	32	328
Pacific Southwest:										
5.0 - 6.9	1,461	820	314	120	234	3	15	1	40	0
7.0 - 8.9	2,336	1,444	499	270	399	1	42	4	67	0
9.0 - 10.9	2,939	2,064	670	394	587	3	57	8	134	0
11.0 - 12.9	3,411	2,462	656	529	780	5	58	13	169	0
13.0 - 14.9	3,557	2,676	680	605	809	0	79	10	209	0
15.0 - 16.9	3,775	3,070	748	696	920	5	87	10	298	0
17.0 - 18.9	3,795	3,134	723	711	964	3	120	16	284	0
19.0 - 20.9	3,784	3,201	703	746	923	0	152	13	373	0
21.0 - 28.9	12,917	11,369	2,644	2,546	3,112	7	668	76	1,296	0
29.0 +	19,810	18,931	6,261	3,105	4,619	5	1,683	126	1,740	0
Total	57,785	49,172	13,898	9,722	13,346	31	2,960	276	4,610	0
West total:										
5.0 - 6.9	18,241	14,639	2,957	1,202	2,774	861	21	30	40	70
7.0 - 8.9	30,125	24,911	5,559	2,313	3,911	1,670	49	60	67	143
9.0 - 10.9	34,548	29,198	7,534	3,182	4,471	2,212	72	84	135	251
11.0 - 12.9	35,197	30,345	8,755	3,651	4,777	2,649	76	99	170	293
13.0 - 14.9	32,220	28,427	9,120	3,785	4,316	2,641	94	129	211	389
15.0 - 16.9	29,156	26,101	9,096	3,459	3,999	2,502	102	113	299	423
17.0 - 18.9	25,651	23,350	8,260	3,114	3,619	2,436	137	95	287	543
19.0 - 20.9	22,350	20,642	7,391	2,787	3,149	2,265	171	82	377	554
21.0 - 28.9	62,886	59,128	20,996	8,357	8,541	7,104	768	261	1,302	2,076
29.0 +	74,685	72,890	32,840	6,891	9,035	7,985	2,161	244	1,754	4,106
Total	365,057	329,631	112,509	38,741	48,592	32,324	3,650	1,196	4,642	8,848

Table 28—(continued).

Subregion and diameter class (in inches)	Softwoods -- continued						Hardwoods				
	Engelmann and other spruces	Western larch	Incense-cedar	Lodge-pole pine	Western red-cedar	Other soft-woods	Total hard-woods	Cotton-wood and aspen	Red alder	Oak	Other hard-woods
	Million cubic feet										
Great Plains:											
5.0 - 6.9	5	0	0	0	0	50	175	5	0	0	170
7.0 - 8.9	10	0	0	0	0	67	225	2	0	0	222
9.0 - 10.9	10	0	0	0	0	77	265	1	0	0	264
11.0 - 12.9	6	0	0	0	0	79	240	1	0	0	239
13.0 - 14.9	5	0	0	0	0	68	239	0	0	0	239
15.0 - 16.9	6	0	0	0	0	56	212	0	0	0	212
17.0 - 18.9	3	0	0	0	0	45	187	0	0	0	187
19.0 - 20.9	2	0	0	0	0	23	153	0	0	0	153
21.0 - 28.9	1	0	0	0	0	21	418	0	0	0	418
29.0 +	0	0	0	0	0	0	255	0	0	0	255
Total	48	0	0	0	0	486	2,368	9	0	0	2,359
Intermountain:											
5.0 - 6.9	720	202	0	3,645	196	242	1,462	1,261	0	0	201
7.0 - 8.9	1,276	381	0	5,919	211	422	1,933	1,843	0	0	90
9.0 - 10.9	1,616	490	0	5,286	230	473	1,837	1,774	0	0	63
11.0 - 12.9	1,870	475	0	3,686	230	480	1,222	1,189	0	0	32
13.0 - 14.9	1,869	422	0	1,963	204	413	750	723	0	0	27
15.0 - 16.9	1,747	324	0	991	208	324	439	432	0	0	7
17.0 - 18.9	1,508	322	0	426	163	226	216	209	0	0	7
19.0 - 20.9	1,250	228	0	186	139	198	139	136	0	0	3
21.0 - 28.9	2,675	617	0	154	439	417	178	171	0	0	7
29.0 +	728	242	2	13	546	134	74	70	0	0	3
Total	15,260	3,704	3	22,269	2,567	3,329	8,250	7,808	0	0	442
Alaska:											
5.0 - 6.9	417	0	0	1	15	55	583	205	2	0	376
7.0 - 8.9	911	0	0	3	32	126	710	264	0	0	445
9.0 - 10.9	879	0	0	5	38	184	466	159	7	0	300
11.0 - 12.9	869	0	0	6	39	261	359	158	4	0	197
13.0 - 14.9	654	0	0	3	76	335	224	104	4	0	116
15.0 - 16.9	465	0	0	8	67	333	281	189	6	0	86
17.0 - 18.9	237	0	0	7	79	375	124	95	4	0	24
19.0 - 20.9	94	0	0	1	104	331	102	93	2	0	7
21.0 - 28.9	76	0	0	3	332	1,048	233	226	4	0	4
29.0 +	4	0	0	0	441	558	63	62	0	0	1
Total	4,605	0	0	38	1,222	3,605	3,145	1,555	33	0	1,557

Table 28—(continued).

Subregion and diameter class (in inches)	Softwoods -- continued						Hardwoods				
	Engelmann and other spruces	Western larch	Incense-cedar	Lodge-pole pine	Western red-cedar	Other soft-woods	Total hard-woods	Cotton-wood and aspen	Red alder	Oak	Other hard-woods
					Million cubic feet						
Pacific Northwest:											
5.0 - 6.9	70	95	19	673	130	45	742	15	375	41	311
7.0 - 8.9	119	172	30	951	225	103	1,454	36	865	46	507
9.0 - 10.9	193	246	33	851	249	157	1,905	71	1,195	60	579
11.0 - 12.9	235	250	30	619	283	185	2,083	60	1,409	54	559
13.0 - 14.9	249	257	28	422	288	180	1,698	49	1,119	67	463
15.0 - 16.9	258	241	39	214	276	200	1,417	59	941	42	375
17.0 - 18.9	244	221	25	146	278	205	1,113	69	667	49	328
19.0 - 20.9	232	188	40	65	272	184	731	64	374	29	265
21.0 - 28.9	559	439	145	63	975	617	1,380	207	531	63	579
29.0 +	666	144	334	9	2,057	550	524	110	58	32	324
Total	2,825	2,254	723	4,012	5,034	2,425	13,049	740	7,535	484	4,290
Pacific Southwest:											
5.0 - 6.9	1	0	76	13	0	5	641	1	17	335	288
7.0 - 8.9	0	0	116	34	1	13	892	2	41	434	414
9.0 - 10.9	1	0	134	59	0	17	876	1	48	421	406
11.0 - 12.9	0	0	160	69	0	25	948	2	42	442	463
13.0 - 14.9	4	0	175	80	0	25	882	1	26	431	423
15.0 - 16.9	4	0	186	93	0	22	704	5	11	327	362
17.0 - 18.9	0	0	194	76	0	43	661	1	4	346	311
19.0 - 20.9	3	0	184	67	0	38	583	2	10	267	303
21.0 - 28.9	10	0	660	242	1	108	1,548	15	14	825	694
29.0 +	13	0	964	178	0	237	879	4	5	493	377
Total	36	0	2,849	911	2	532	8,613	35	218	4,320	4,041
West total:											
5.0 - 6.9	1,213	297	95	4,332	342	398	3,602	1,487	393	376	1,347
7.0 - 8.9	2,317	554	146	6,908	468	730	5,213	2,147	907	480	1,679
9.0 - 10.9	2,698	736	167	6,201	517	908	5,349	2,007	1,249	481	1,613
11.0 - 12.9	2,980	725	190	4,380	552	1,029	4,852	1,410	1,455	496	1,490
13.0 - 14.9	2,781	679	203	2,468	568	1,023	3,793	876	1,150	498	1,269
15.0 - 16.9	2,481	565	226	1,306	552	935	3,055	685	958	369	1,042
17.0 - 18.9	1,992	543	219	655	520	894	2,301	374	675	395	857
19.0 - 20.9	1,580	416	224	318	515	774	1,709	295	387	296	731
21.0 - 28.9	3,320	1,056	805	462	1,747	2,210	3,758	619	548	888	1,702
29.0 +	1,411	387	1,300	199	3,044	1,479	1,794	247	64	525	959
Total	22,773	5,958	3,574	27,229	8,825	10,378	35,425	10,147	7,786	4,804	12,689

Note: Data may not add to totals because of rounding. Total volume by State in this table may differ slightly from volume by State in other tables because of rounding.

Table 29—Net volume of growing stock on planted and natural timberland in the Northern, Southern, and Western United States by forest type group and major ownership group, 1997.

Forest type group[a]	All ownership groups			Public ownerships			Private ownerships		
	Total	Planted	Natural	Total	Planted	Natural	Total	Planted	Natural
	Thousand cubic feet								
Northern:									
White-red-jack pine	19,467	4,144	15,323	4,680	1,834	2,846	14,788	2,310	12,478
Spruce-fir	17,254	455	16,799	4,792	208	4,584	12,462	247	12,215
Longleaf-slash pine	0	0	0	0	0	0	0	0	0
Loblolly-shortleaf pine	2,406	347	2,059	696	163	533	1,709	183	1,526
Oak-pine	4,839	258	4,581	708	84	624	4,131	175	3,956
Oak-hickory	66,359	205	66,154	10,557	32	10,525	55,803	173	55,630
Oak-gum-cypress	1,151	11	1,140	219	0	219	933	11	921
Elm-ash-cottonwood	10,688	71	10,616	2,015	20	1,996	8,672	52	8,621
Maple-beech-birch	74,280	234	74,046	13,811	72	13,740	60,468	162	60,306
Aspen-birch	17,789	57	17,732	6,510	15	6,495	11,279	42	11,236
Nonstocked	18	0	18	6	0	6	13	0	13
Northern Total:	214,251	5,783	208,468	43,994	2,428	41,567	170,257	3,356	166,901
Southern:									
White-red-jack pine	1,626	274	1,352	495	52	443	1,131	223	908
Spruce-fir	16	0	16	7	0	7	9	0	9
Longleaf-slash pine	13,733	6,283	7,450	2,949	569	2,380	10,784	5,714	5,069
Loblolly-shortleaf pine	65,252	17,816	47,436	9,117	1,173	7,943	56,135	16,642	39,493
Oak-pine	33,500	1,591	31,909	4,983	183	4,799	28,518	1,408	27,110
Oak-hickory	90,376	444	89,932	11,863	49	11,814	78,513	395	78,118
Oak-gum-cypress	46,838	74	46,764	5,630	2	5,627	41,208	71	41,136
Elm-ash-cottonwood	3,142	37	3,105	424	0	424	2,718	37	2,681
Maple-beech-birch	1,841	2	1,839	358	0	358	1,483	2	1,481
Aspen-birch	0	0	0	0	0	0	0	0	0
Nonstocked	38	2	37	6	0	6	32	2	31
Southern Total:	256,361	26,522	229,839	35,830	2,028	33,802	220,532	24,494	196,038
Western[b] :									
Douglas-fir	112,158	[b]	[b]	81,525	[b]	[b]	30,633	[b]	[b]
Ponderosa pine	48,113	[b]	[b]	28,889	[b]	[b]	19,224	[b]	[b]
Western white pine	411	[b]	[b]	365	[b]	[b]	46	[b]	[b]
Fir-spruce	70,775	[b]	[b]	61,893	[b]	[b]	8,882	[b]	[b]
Hemlock-Sitka spruce	58,777	[b]	[b]	44,153	[b]	[b]	14,624	[b]	[b]
Larch	2,970	[b]	[b]	2,238	[b]	[b]	731	[b]	[b]
Lodgepole pine	25,995	[b]	[b]	22,597	[b]	[b]	3,398	[b]	[b]
Redwood	4,997	[b]	[b]	640	[b]	[b]	4,356	[b]	[b]
Other softwoods	3,020	[b]	[b]	2,287	[b]	[b]	733	[b]	[b]
Western hardwoods	37,498	[b]	[b]	15,251	[b]	[b]	22,247	[b]	[b]
Pinyon-juniper	167	[b]	[b]	164	[b]	[b]	3	[b]	[b]
Nonstocked	180	[b]	[b]	26	[b]	[b]	154	[b]	[b]
Western Total:	365,060	[b]	[b]	260,029	[b]	[b]	105,031	[b]	[b]
United States:	835,672	[b]	[b]	339,853	[b]	[b]	495,819	[b]	[b]

[a] Forest type reflects the current dominant species by plurality of stocking and may not reflect the actual species planted at the time of stand origin.

[b] Approximately 13.6 million acres of forest in the West are planted, primarily to augment natural regeneration after a harvest and assure adequate stocking of desired species. The species planted are usually native, making these stands difficult to detect during field sampling. Additionally, there are thousands of acres of more traditional "plantations" such as those found in the east that are not currently identified during field sampling. Refer to the text accompanying this report for a discussion of planted forest in the west.

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

Table 30—Net volume of softwood growing stock on timberland in the United States by diameter class, region, and subregion, 1997, 1987, 1977, 1963, and 1953

Region and subregion	Year	Total	Diameter class (Inches) 5.0 to 6.9	7.0 to 8.9	9.0 to 10.9	11.0 to 12.9	13.0 to 14.9	15.0 to 16.9	17.0 to 18.9	19.0 to 20.9	21.0 to 28.9	29.0+
			Million cubic feet									
North:												
Northeast	1997	30,945	3,744	5,318	5,133	4,751	3,810	2,783	1,827	1,227	1,935	417
	1987	31,609	4,751	6,404	6,043	4,919	3,351	2,288	1,426	904	1,291	232
	1977	30,991	7,639	7,255	5,431	3,877	2,547	1,711	1,018	607	767	138
	1963	24,034	6,046	5,713	4,061	2,882	1,978	1,304	766	517	677	85
	1953	20,028	4,628	4,734	3,147	2,498	1,791	1,190	721	527	702	90
North Central	1997	18,431	3,571	4,149	3,316	2,374	1,579	1,058	772	542	893	178
	1987	16,009	3,429	3,816	2,939	1,964	1,285	865	609	426	598	81
	1977	12,859	3,163	3,103	2,190	1,430	949	695	491	315	461	60
	1963	9,627	2,618	2,227	1,510	1,075	678	503	361	247	348	59
	1953	7,025	1,802	1,592	1,167	862	516	348	261	161	274	41
North total:	1997	49,376	7,314	9,467	8,449	7,125	5,389	3,841	2,599	1,769	2,828	595
	1987	47,618	8,180	10,220	8,982	6,883	4,636	3,153	2,035	1,330	1,889	313
	1977	43,850	10,802	10,358	7,621	5,307	3,496	2,406	1,509	922	1,228	198
	1963	33,661	8,665	7,941	5,572	3,958	2,657	1,808	1,127	764	1,025	144
	1953	27,053	6,430	6,326	4,314	3,360	2,307	1,538	982	688	976	131
South:												
Southeast	1997	51,861	6,621	9,358	9,146	8,043	6,447	4,732	3,032	1,888	2,293	301
	1987	52,619	6,483	9,420	9,878	8,847	6,834	4,544	2,886	1,640	1,845	242
	1977	51,008	6,929	9,384	9,780	8,535	6,467	4,337	2,500	1,408	1,487	181
	1963	40,174	5,464	7,649	8,224	7,231	4,877	2,972	1,742	939	955	121
	1953	35,548	4,547	6,776	7,473	6,574	4,265	2,550	1,464	805	969	125
South Central	1997	52,985	4,772	7,530	8,014	8,364	7,602	6,117	4,172	2,677	3,344	393
	1987	52,994	4,765	7,521	8,985	8,978	7,515	5,788	3,885	2,418	2,844	298
	1977	50,200	5,178	7,691	8,771	8,451	6,923	5,126	3,406	2,082	2,340	232
	1963	34,913	3,875	5,425	6,017	5,819	4,776	3,653	2,366	1,415	1,444	122
	1953	24,914	2,596	3,834	4,554	4,338	3,473	2,556	1,645	886	910	122
South total:	1997	104,846	11,393	16,888	17,160	16,407	14,049	10,849	7,204	4,564	5,637	694
	1987	105,613	11,248	16,941	18,863	17,825	14,349	10,332	6,771	4,058	4,689	540
	1977	101,208	12,107	17,075	18,551	16,986	13,390	9,463	5,906	3,490	3,827	413
	1963	75,087	9,339	13,074	14,241	13,050	9,653	6,625	4,108	2,354	2,399	243
	1953	60,462	7,143	10,610	12,027	10,912	7,738	5,106	3,109	1,691	1,879	247
Rocky Mountain:												
Great Plains	1997	1,563	145	267	271	266	221	157	107	64	63	2
	1987	1,912	162	278	334	339	285	215	156	74	69	1
	1977	1,799	147	267	324	315	263	195	130	83	72	2
	1963	1,472	97	168	216	232	208	186	139	104	116	6
	1953	1,309	68	132	174	197	177	176	136	111	131	8
Intermountain	1997	113,118	9,164	14,678	15,933	15,176	12,897	10,605	8,428	6,485	14,056	5,695
	1987	98,386	8,639	12,318	13,388	12,425	10,685	8,957	7,142	5,603	13,161	6,074
	1977	93,318	9,383	11,772	11,883	10,950	9,682	8,172	6,912	5,681	13,305	5,580
	1963	91,751	10,286	9,969	10,325	10,129	9,423	8,503	7,251	6,057	14,484	5,323
	1953	86,237	8,573	8,455	8,956	8,968	8,542	7,858	6,884	5,886	14,935	7,178

Table 30—(continued).

Region and subregion	Year	Total	Diameter class (Inches) 5.0 to 6.9	7.0 to 8.9	9.0 to 10.9	11.0 to 12.9	13.0 to 14.9	15.0 to 16.9	17.0 to 18.9	19.0 to 20.9	21.0 to 28.9	29.0+
						Million cubic feet						
Rocky Mountain	1997	114,681	9,309	14,945	16,204	15,442	13,118	10,762	8,535	6,549	14,120	5,697
total:	1987	100,298	8,801	12,596	13,722	12,764	10,970	9,172	7,298	5,677	13,230	6,075
	1977	95,111	9,529	12,038	12,206	11,264	9,944	8,366	7,041	5,763	13,376	5,581
	1963	93,223	10,383	10,137	10,541	10,361	9,631	8,689	7,390	6,161	14,600	5,329
	1953	87,546	8,641	8,587	9,130	9,165	8,719	8,034	7,020	5,997	15,066	7,186
Pacific Coast:												
Alaska	1997	29,810	743	1,538	1,830	2,044	2,162	1,995	2,052	2,008	6,908	8,530
	1987	37,051	956	1,934	2,394	2,705	2,675	2,662	2,750	2,506	8,797	9,670
	1977	48,277	1,346	1,849	2,754	3,521	3,996	4,116	3,685	3,424	11,547	12,042
	1963	49,426	1,204	1,619	2,460	3,269	3,788	4,056	3,800	3,604	12,288	13,340
	1953	49,149	1,103	1,495	2,279	3,097	3,619	3,963	3,792	3,624	12,414	13,764
Pacific Northwest	1997	135,969	3,767	6,983	9,101	10,397	10,471	10,273	9,629	8,884	26,732	39,732
	1987	130,684	4,154	7,662	9,780	10,863	10,636	10,266	9,527	8,533	24,926	34,337
	1977	132,535	5,821	7,235	8,235	8,800	8,719	8,682	8,493	7,859	26,299	42,392
	1963	144,994	4,954	6,573	7,546	8,263	8,405	8,608	8,482	8,109	28,664	55,390
	1953	149,574	4,264	5,593	6,366	7,370	7,242	8,090	7,844	7,967	29,507	65,331
Pacific Southwest	1997	49,172	820	1,444	2,064	2,462	2,676	3,070	3,134	3,201	11,369	18,931
	1987	46,311	891	1,417	1,754	2,135	2,383	2,627	2,791	2,664	10,222	19,429
	1977	45,979	769	1,259	1,613	1,885	2,213	2,387	2,456	2,511	10,016	20,870
	1963	53,369	925	1,472	1,810	2,029	2,171	2,260	2,313	2,342	10,020	28,027
	1953	58,010	766	1,245	1,603	1,835	2,055	2,160	2,269	2,282	10,141	33,654
Pacific Coast total:	1997	214,951	5,330	9,966	12,994	14,903	15,309	15,339	14,815	14,093	45,009	67,193
	1987	214,046	6,001	11,013	13,928	15,703	15,694	15,555	15,068	13,703	43,945	63,436
	1977	226,791	7,936	10,343	12,602	14,206	14,928	15,185	14,634	13,794	47,862	75,304
	1963	247,789	7,083	9,664	11,816	13,561	14,364	14,924	14,595	14,055	50,972	96,757
	1953	256,733	6,133	8,333	10,248	12,302	12,916	14,213	13,905	13,873	52,062	112,749
United States:	1997	483,854	33,346	51,266	54,808	53,877	47,865	40,791	33,153	26,975	67,593	74,179
	1987	467,575	34,230	50,770	55,495	53,175	45,649	38,212	31,172	24,768	63,753	70,364
	1977	466,960	40,374	49,812	50,980	47,763	41,758	35,419	29,089	23,968	66,295	81,495
	1963	449,760	35,470	40,814	42,170	40,930	36,304	32,045	27,220	23,334	68,997	102,471
	1953	431,794	28,346	33,857	35,719	35,737	31,679	28,892	25,016	22,248	69,981	120,314

Note: Data may not add to totals because of rounding. Total volume by State in this table may differ slightly from total volume by State in other tables because of rounding.

Table 31—Net volume of hardwood growing stock on timberland in the United States by diameter class, region, and subregion, 1997, 1987, 1977, 1963, and 1953

Region and subregion	Year	Total	Diameter class (Inches) 5.0 to 6.9	7.0 to 8.9	9.0 to 10.9	11.0 to 12.9	13.0 to 14.9	15.0 to 16.9	17.0 to 18.9	19.0 to 20.9	21.0 to 28.9	29.0+
			Million cubic feet									
North:												
Northeast	1997	90,234	8,137	13,420	15,604	14,110	12,048	9,054	6,165	4,145	6,160	1,391
	1987	80,524	9,280	13,288	14,328	12,619	10,359	7,344	5,022	3,090	4,402	794
	1977	67,320	10,488	12,220	12,275	9,872	7,790	5,458	3,558	2,240	2,968	451
	1963	52,835	8,564	9,762	9,402	7,351	5,794	4,155	2,866	1,887	2,655	399
	1953	43,197	6,926	7,703	7,332	5,712	4,652	3,578	2,532	1,660	2,709	395
North Central	1997	74,640	7,436	10,575	12,210	11,341	9,678	7,475	5,305	3,499	5,798	1,323
	1987	61,896	8,177	10,121	10,432	9,074	7,103	5,452	3,829	2,604	4,076	1,028
	1977	51,838	7,773	9,665	9,338	7,414	5,925	4,203	2,775	1,753	2,468	521
	1963	41,792	6,652	7,943	7,236	5,615	4,407	3,275	2,202	1,503	2,466	491
	1953	33,498	4,766	5,925	6,037	4,359	3,630	2,705	1,928	1,319	2,401	428
North total:	1997	164,874	15,573	23,995	27,814	25,451	21,726	16,529	11,471	7,644	11,958	2,714
	1987	142,420	17,457	23,409	24,760	21,693	17,462	12,796	8,851	5,694	8,478	1,822
	1977	119,158	18,261	21,885	21,613	17,286	13,715	9,661	6,333	3,993	5,436	972
	1963	94,627	15,216	17,705	16,638	12,966	10,201	7,430	5,068	3,390	5,121	890
	1953	76,695	11,692	13,628	13,369	10,071	8,282	6,283	4,460	2,979	5,110	823
South:												
Southeast	1997	71,124	5,598	7,861	9,542	10,208	9,781	8,365	6,387	4,613	7,219	1,550
	1987	68,154	5,963	8,156	9,556	10,345	9,516	7,805	5,787	3,815	5,947	1,264
	1977	60,691	6,005	8,037	9,192	9,239	8,346	6,500	4,616	2,985	4,766	1,005
	1963	46,998	4,573	6,190	7,214	7,300	6,575	4,848	3,552	2,358	3,681	707
	1953	41,533	3,558	5,218	6,391	6,315	5,900	4,309	3,293	2,226	3,603	720
South Central	1997	80,392	6,605	9,823	11,838	11,180	10,815	8,941	6,848	4,877	7,807	1,657
	1987	70,874	7,385	9,914	11,340	10,493	9,487	7,505	5,295	3,430	5,129	891
	1977	61,474	7,426	8,978	9,843	8,852	8,019	6,404	4,380	2,782	4,055	733
	1963	51,987	5,821	7,545	8,571	7,810	6,827	5,129	3,572	2,407	3,687	618
	1953	46,475	4,529	6,170	7,308	7,028	6,304	4,901	3,553	2,354	3,739	589
South total:	1997	151,516	12,202	17,684	21,380	21,389	20,596	17,306	13,235	9,490	15,026	3,207
	1987	139,028	13,348	18,070	20,896	20,838	19,003	15,310	11,082	7,245	11,076	2,155
	1977	122,165	13,431	17,015	19,035	18,091	16,365	12,904	8,996	5,767	8,821	1,738
	1963	98,985	10,394	13,735	15,785	15,110	13,402	9,977	7,124	4,765	7,368	1,325
	1953	88,008	8,087	11,388	13,699	13,343	12,204	9,210	6,846	4,580	7,342	1,309
Rocky Mountain:												
Great Plains	1997	2,368	175	225	265	240	239	212	187	153	418	255
	1987	1,468	168	158	177	148	136	116	96	82	230	161
	1977	1,273	133	149	169	155	136	114	90	76	230	21
	1963	1,102	107	125	145	120	109	97	81	72	226	21
	1953	1,098	92	130	139	106	121	113	97	78	199	22
Intermountain	1997	8,250	1,462	1,933	1,837	1,222	750	439	216	139	178	74
	1987	6,213	1,086	1,423	1,424	888	550	317	167	124	163	75
	1977	4,865	797	1,164	1,007	738	462	278	175	95	133	14
	1963	4,494	551	949	940	740	510	319	197	116	156	16
	1953	3,976	444	802	817	660	467	298	188	114	158	25

Table 31—(continued).

Region and subregion	Year	Total	Diameter class (Inches) 5.0 to 6.9	7.0 to 8.9	9.0 to 10.9	11.0 to 12.9	13.0 to 14.9	15.0 to 16.9	17.0 to 18.9	19.0 to 20.9	21.0 to 28.9	29.0+
						Million cubic feet						
Rocky Mountain	1997	10,618	1,636	2,158	2,103	1,461	989	652	402	292	596	328
total:	1987	7,681	1,254	1,581	1,601	1,036	686	433	263	206	393	236
	1977	6,138	930	1,313	1,176	893	598	392	265	171	363	35
	1963	5,596	658	1,074	1,085	860	619	416	278	188	382	37
	1953	5,074	536	932	956	766	588	411	285	192	357	47
Pacific Coast:												
Alaska	1997	3,145	583	710	466	359	224	281	124	102	233	63
	1987	4,209	664	1,030	675	562	335	337	187	135	216	70
	1977	4,222	616	915	744	416	373	304	203	148	313	190
	1963	4,191	611	886	727	410	371	304	206	152	326	199
	1953	4,189	610	874	720	407	370	305	208	155	335	205
Pacific Northwest	1997	13,049	742	1,454	1,905	2,083	1,698	1,417	1,113	731	1,380	524
	1987	13,005	826	1,567	2,079	2,116	1,813	1,364	1,020	633	1,151	438
	1977	10,522	1,199	1,475	1,594	1,520	1,299	971	762	511	924	267
	1963	9,247	1,299	1,334	1,321	1,230	1,071	782	614	441	917	238
	1953	7,076	1,037	1,062	1,049	961	807	529	458	321	671	187
Pacific Southwest	1997	8,613	641	892	876	948	882	704	661	583	1,548	879
	1987	7,740	551	798	823	781	750	699	626	485	1,412	819
	1977	3,891	254	411	415	391	368	365	299	266	720	402
	1963	3,194	201	314	296	301	328	277	266	217	567	427
	1953	3,048	193	320	250	281	301	257	242	203	536	466
Pacific Coast total:	1997	24,808	1,966	3,055	3,247	3,391	2,804	2,403	1,899	1,416	3,162	1,466
	1987	24,954	2,041	3,395	3,577	3,459	2,898	2,400	1,833	1,253	2,779	1,327
	1977	18,635	2,069	2,801	2,753	2,327	2,040	1,640	1,264	925	1,957	859
	1963	16,632	2,111	2,534	2,344	1,941	1,770	1,363	1,086	810	1,810	864
	1953	14,313	1,840	2,256	2,019	1,649	1,478	1,091	908	679	1,542	858
United States:	1997	351,815	31,377	46,892	54,544	51,692	46,115	36,890	27,006	18,843	30,742	7,715
	1987	314,083	34,100	46,455	50,834	47,026	40,049	30,939	22,029	14,398	22,726	5,540
	1977	266,096	34,691	43,014	44,577	38,597	32,718	24,597	16,858	10,856	16,577	3,604
	1963	215,840	28,379	35,048	35,852	30,877	25,992	19,186	13,556	9,153	14,681	3,116
	1953	184,090	22,155	28,204	30,043	25,829	22,552	16,995	12,499	8,430	14,351	3,037

Note: Data may not add to totals because of rounding. Total volume by State in this table may differ slightly from total volume by State in other tables because of rounding.

Table 32—Net volume of growing stock on timberland in the United States by diameter class, region, and subregion, 1997, 1987, 1977, 1963, and 1953

Region and subregion	Year	Total	Diameter class (Inches) 5.0 to 6.9	7.0 to 8.9	9.0 to 10.9	11.0 to 12.9	13.0 to 14.9	15.0 to 16.9	17.0 to 18.9	19.0 to 20.9	21.0 to 28.9	29.0+
			Million cubic feet									
North:												
Northeast	1997	121,179	11,880	18,738	20,738	18,862	15,858	11,838	7,992	5,372	8,094	1,808
	1987	112,133	14,031	19,692	20,371	17,538	13,710	9,632	6,448	3,994	5,693	1,026
	1977	98,311	18,127	19,475	17,706	13,749	10,337	7,169	4,576	2,847	3,735	589
	1963	76,869	14,610	15,475	13,463	10,233	7,772	5,459	3,632	2,404	3,332	484
	1953	63,225	11,554	12,437	10,479	8,210	6,443	4,768	3,253	2,187	3,411	485
North Central	1997	93,072	11,007	14,724	15,526	13,714	11,257	8,533	6,078	4,042	6,691	1,501
	1987	77,905	11,606	13,937	13,371	11,038	8,388	6,317	4,438	3,030	4,674	1,109
	1977	64,697	10,936	12,768	11,528	8,844	6,874	4,898	3,266	2,068	2,929	581
	1963	51,419	9,270	10,170	8,746	6,690	5,085	3,778	2,563	1,750	2,814	550
	1953	40,523	6,568	7,517	7,204	5,221	4,146	3,053	2,189	1,480	2,675	469
North total:	1997	214,251	22,887	33,462	36,264	32,576	27,115	20,371	14,070	9,413	14,785	3,308
	1987	190,038	25,637	33,629	33,742	28,576	22,098	15,949	10,886	7,024	10,367	2,135
	1977	163,008	29,063	32,243	29,234	22,593	17,211	12,067	7,842	4,915	6,664	1,170
	1963	128,288	23,880	25,645	22,209	16,923	12,857	9,237	6,195	4,154	6,146	1,034
	1953	103,748	18,122	19,954	17,683	13,431	10,589	7,821	5,442	3,667	6,086	954
South:												
Southeast	1997	122,985	12,218	17,219	18,688	18,252	16,229	13,097	9,419	6,500	9,512	1,850
	1987	120,773	12,446	17,576	19,434	19,192	16,350	12,349	8,673	5,455	7,792	1,506
	1977	111,699	12,934	17,421	18,972	17,774	14,813	10,837	7,116	4,393	6,253	1,186
	1963	87,172	10,037	13,839	15,438	14,531	11,452	7,820	5,294	3,297	4,636	828
	1953	77,081	8,105	11,994	13,864	12,889	10,165	6,859	4,757	3,031	4,572	845
South Central	1997	133,377	11,377	17,353	19,852	19,544	18,417	15,058	11,020	7,554	11,151	2,051
	1987	123,868	12,150	17,435	20,325	19,471	17,002	13,293	9,180	5,848	7,973	1,189
	1977	111,674	12,604	16,669	18,614	17,303	14,942	11,530	7,786	4,864	6,395	965
	1963	86,900	9,696	12,970	14,588	13,629	11,603	8,782	5,938	3,822	5,131	740
	1953	71,389	7,125	10,004	11,862	11,366	9,777	7,457	5,198	3,240	4,649	711
South total:	1997	256,361	23,595	34,572	38,540	37,796	34,645	28,155	20,439	14,054	20,664	3,901
	1987	244,641	24,596	35,011	39,759	38,663	33,352	25,642	17,853	11,303	15,765	2,695
	1977	223,373	25,538	34,090	37,586	35,077	29,755	22,367	14,902	9,257	12,648	2,151
	1963	174,072	19,733	26,809	30,026	28,160	23,055	16,602	11,232	7,119	9,767	1,568
	1953	148,470	15,230	21,998	25,726	24,255	19,942	14,316	9,955	6,271	9,221	1,556
Rocky Mountain:												
Great Plains	1997	3,931	320	492	536	506	460	369	294	217	481	257
	1987	3,380	330	436	511	487	421	331	252	156	299	162
	1977	3,072	280	416	493	470	399	309	220	159	302	23
	1963	2,574	204	293	361	352	317	283	220	176	342	27
	1953	2,407	160	262	313	303	298	289	233	189	330	30
Intermountain	1997	121,368	10,626	16,611	17,770	16,397	13,647	11,044	8,644	6,625	14,235	5,769
	1987	104,599	9,725	13,741	14,812	13,313	11,235	9,274	7,309	5,727	13,324	6,149
	1977	98,183	10,180	12,936	12,890	11,688	10,144	8,450	7,087	5,776	13,438	5,594
	1963	96,245	10,837	10,918	11,265	10,869	9,933	8,822	7,448	6,173	14,640	5,339
	1953	90,213	9,017	9,257	9,773	9,628	9,009	8,156	7,072	6,000	15,093	7,203

Table 32—(continued).

Region and subregion	Year	Total	Diameter class (Inches) 5.0 to 6.9	7.0 to 8.9	9.0 to 10.9	11.0 to 12.9	13.0 to 14.9	15.0 to 16.9	17.0 to 18.9	19.0 to 20.9	21.0 to 28.9	29.0+
						Million cubic feet						
Rocky Mountain	1997	125,299	10,945	17,103	18,306	16,903	14,107	11,414	8,938	6,842	14,716	6,026
total:	1987	107,979	10,055	14,177	15,323	13,800	11,656	9,605	7,561	5,883	13,623	6,311
	1977	101,255	10,460	13,352	13,383	12,158	10,543	8,759	7,307	5,935	13,740	5,617
	1963	98,819	11,041	11,211	11,626	11,221	10,250	9,105	7,668	6,349	14,982	5,366
	1953	92,620	9,177	9,519	10,086	9,931	9,307	8,445	7,305	6,189	15,423	7,233
Pacific Coast:												
Alaska	1997	32,955	1,326	2,248	2,296	2,403	2,387	2,277	2,175	2,110	7,141	8,593
	1987	41,260	1,620	2,964	3,069	3,267	3,010	2,999	2,937	2,641	9,013	9,740
	1977	52,499	1,962	2,764	3,498	3,937	4,369	4,420	3,888	3,572	11,860	12,232
	1963	53,617	1,815	2,505	3,187	3,679	4,159	4,360	4,006	3,756	12,614	13,539
	1953	53,338	1,713	2,369	2,999	3,504	3,989	4,268	4,000	3,779	12,749	13,969
Pacific Northwest	1997	149,018	4,509	8,438	11,006	12,480	12,169	11,690	10,743	9,615	28,112	40,256
	1987	143,698	4,979	9,230	11,859	12,989	12,450	11,630	10,546	9,166	26,077	34,775
	1977	143,057	7,020	8,710	9,829	10,320	10,018	9,653	9,255	8,370	27,223	42,659
	1963	154,241	6,253	7,907	8,867	9,493	9,476	9,390	9,096	8,550	29,581	55,628
	1953	156,650	5,301	6,655	7,415	8,331	8,049	8,619	8,302	8,288	30,178	65,518
Pacific Southwest	1997	57,785	1,461	2,336	2,939	3,411	3,557	3,775	3,795	3,784	12,917	19,810
	1987	54,051	1,442	2,215	2,577	2,916	3,133	3,326	3,417	3,149	11,634	20,248
	1977	49,870	1,023	1,670	2,028	2,276	2,581	2,752	2,755	2,777	10,736	21,272
	1963	56,563	1,126	1,786	2,106	2,330	2,499	2,537	2,579	2,559	10,587	28,454
	1953	61,058	959	1,565	1,853	2,116	2,356	2,417	2,511	2,485	10,677	34,120
Pacific Coast total:	1997	239,758	7,296	13,022	16,241	18,294	18,113	17,742	16,713	15,509	48,170	68,659
	1987	239,009	8,041	14,409	17,505	19,172	18,593	17,955	16,900	14,956	46,724	64,763
	1977	245,426	10,005	13,144	15,355	16,533	16,968	16,825	15,898	14,719	49,819	76,163
	1963	264,421	9,194	12,198	14,160	15,502	16,134	16,287	15,681	14,865	52,782	97,621
	1953	271,046	7,973	10,589	12,267	13,951	14,394	15,304	14,813	14,552	53,604	113,607
United States:	1997	835,669	64,723	98,158	109,352	105,569	93,981	77,681	60,159	45,818	98,335	81,894
	1987	781,667	68,329	97,226	106,329	100,211	85,699	69,151	53,200	39,166	86,479	75,904
	1977	733,062	75,066	92,829	95,558	86,361	74,477	60,018	45,949	34,826	82,871	85,101
	1963	665,600	63,848	75,863	78,021	71,806	62,296	51,231	40,776	32,487	83,677	105,589
	1953	615,884	50,502	62,060	65,762	61,568	54,232	45,886	37,515	30,679	84,334	123,350

Note: Data may not add to totals because of rounding. Total volume by State in this table may differ slightly from total volume by State in other tables because of rounding.

Table 33—Annual mortality of growing stock on timberland in the United States by ownership group, region, subregion, and species group, 1996, 1986, 1976, 1962, and 1952

Region, subregion, and species group	All owners					National forest					Other public[a]				
	1996	1986	1976	1962	1952	1996	1986	1976	1962	1952	1996	1986	1976	1962	1952
	Thousand cubic feet														
North:															
Northeast:															
Softwoods	273,609	257,140	191,544	180,000	150,800	7,549	5,393	1,746	4,180	3,570	16,790	14,875	10,561	7,927	6,911
Hardwoods	514,142	418,217	356,773	301,400	248,200	26,217	15,518	10,823	12,030	9,810	73,113	51,156	33,580	27,528	21,982
Total	787,750	675,357	548,317	481,400	399,000	33,766	20,911	12,569	16,210	13,380	89,902	66,031	44,141	35,455	28,893
North Central:															
Softwoods	181,907	110,926	132,777	113,149	64,834	32,973	19,836	21,732	24,296	16,214	60,153	41,299	36,930	33,314	19,644
Hardwoods	658,116	456,852	467,451	345,595	226,384	55,959	44,034	36,115	29,973	18,417	121,076	87,701	102,796	66,873	38,737
Total	840,022	567,778	600,228	458,744	291,218	88,932	63,870	57,847	54,269	34,631	181,229	129,000	139,726	100,187	58,381
North Total:															
Softwoods	455,516	368,066	324,321	293,149	215,634	40,522	25,229	23,478	28,476	19,784	76,943	56,174	47,491	41,241	26,555
Hardwoods	1,172,257	875,069	824,224	646,995	474,584	82,176	59,552	46,938	42,003	28,227	194,189	138,857	136,376	94,401	60,719
Total	1,627,773	1,243,135	1,148,545	940,144	690,218	122,698	84,781	70,416	70,479	48,011	271,132	195,031	183,867	135,642	87,274
South:															
Southeast:															
Softwoods	629,975	489,320	416,000	260,200	234,700	58,533	30,147	21,447	10,300	11,800	41,084	26,081	18,553	16,400	11,100
Hardwoods	603,553	371,125	286,783	301,000	283,800	53,034	35,262	24,358	19,000	18,600	31,725	14,171	13,018	9,400	6,300
Total	1,233,528	860,445	702,783	561,200	518,500	111,567	65,409	45,805	29,300	30,400	72,809	40,252	31,571	25,800	17,400
South Central:															
Softwoods	405,829	351,451	216,201	138,800	98,700	34,270	29,491	19,769	19,000	12,132	17,169	11,919	6,983	3,200	3,000
Hardwoods	596,714	460,976	359,267	469,400	355,200	28,680	18,285	14,497	20,100	12,227	50,648	30,302	18,081	12,200	8,359
Total	1,002,543	812,427	575,468	608,200	453,900	62,950	47,776	34,266	39,100	24,359	67,817	42,221	25,064	15,400	11,359
South total:															
Softwoods	1,035,804	840,771	632,201	399,000	333,400	92,803	59,638	41,216	29,300	23,932	58,253	38,000	25,536	19,600	14,100
Hardwoods	1,200,267	832,101	646,050	770,400	639,000	81,714	53,547	38,855	39,100	30,827	82,373	44,473	31,099	21,600	14,659
Total	2,236,071	1,672,872	1,278,251	1,169,400	972,400	174,517	113,185	80,071	68,400	54,759	140,626	82,473	56,635	41,200	28,759
Rocky Mountain:															
Great Plains:															
Softwoods	9,563	7,033	3,940	3,600	3,300	6,857	4,483	3,543	3,226	3,025	666	38	130	85	59
Hardwoods	38,025	7,803	29,312	25,699	24,730	245	61	0	0	0	2,902	474	4,379	4,127	3,896
Total	47,587	14,836	33,252	29,299	28,030	7,102	4,544	3,543	3,226	3,025	3,568	512	4,509	4,212	3,955
Intermountain:															
Softwoods	889,962	487,864	454,779	598,400	565,300	708,911	365,637	270,479	418,400	388,200	55,212	51,122	66,643	65,887	66,354
Hardwoods	103,244	42,628	39,160	38,900	34,600	70,177	22,143	17,860	19,500	17,200	4,036	4,082	6,709	6,107	5,443
Total	993,206	530,492	493,939	637,300	599,900	779,088	387,780	288,339	437,900	405,400	59,249	55,204	73,352	71,994	71,797
Rocky Mountain total:															
Softwoods	899,525	494,897	458,719	602,000	568,600	715,768	370,120	274,022	421,626	391,225	55,878	51,160	66,773	65,972	66,413
Hardwoods	141,268	50,431	68,472	64,599	59,330	70,422	22,204	17,860	19,500	17,200	6,939	4,556	11,088	10,234	9,339
Total	1,040,793	545,328	527,191	666,599	627,930	786,190	392,324	291,882	441,126	408,425	62,817	55,716	77,861	76,206	75,752
Pacific Coast:															
Alaska:															
Softwoods	194,542	172,267	213,596	222,195	224,700	123,624	99,767	146,799	164,133	171,090	32,908	25,451	63,781	56,741	52,563
Hardwoods	10,163	9,912	9,395	9,367	9,467	430	154	1,536	1,608	1,608	6,450	5,742	7,656	7,656	7,756
Total	204,705	182,179	222,991	231,562	234,167	124,054	99,921	148,335	165,741	172,698	39,358	31,193	71,437	64,397	60,319
Pacific Northwest:															
Softwoods	777,610	657,843	699,600	906,300	952,500	468,829	422,000	326,700	417,400	407,300	95,810	113,227	172,200	184,900	210,000
Hardwoods	118,232	72,131	71,800	64,000	50,500	4,953	4,000	6,600	7,000	6,100	23,946	12,559	11,900	16,800	13,700
Total	895,842	729,974	771,400	970,300	1,003,000	473,783	426,000	333,300	424,400	413,400	119,756	125,786	184,100	201,700	223,700
Pacific Southwest:															
Softwoods	263,106	247,804	137,700	346,100	366,800	151,846	171,205	80,800	198,100	199,500	6,002	6,395	5,100	12,800	16,500
Hardwoods	51,763	24,316	6,792	10,200	10,100	2,174	5,217	2,300	7,000	7,400	3,381	2,399	870	300	300
Total	314,869	272,120	144,492	356,300	376,900	154,020	176,422	83,100	205,100	206,900	9,383	8,794	5,970	13,100	16,800

Table 33—(continued).

Region, subregion, and species group	All owners					National forest					Other public[a]				
	1996	1986	1976	1962	1952	1996	1986	1976	1962	1952	1996	1986	1976	1962	1952
	Thousand cubic feet														
Pacific Coast total:															
Softwoods	1,235,258	1,077,914	1,050,896	1,474,595	1,544,000	744,299	692,972	554,299	779,633	777,890	134,721	145,073	241,081	254,441	279,063
Hardwoods	180,158	106,359	87,987	83,567	70,067	7,558	9,371	10,436	15,608	15,108	33,777	20,700	20,426	24,756	21,756
Total	1,415,416	1,184,273	1,138,883	1,558,162	1,614,067	751,857	702,343	564,735	795,241	792,998	168,498	165,773	261,507	279,197	300,819
United States:															
Softwoods	3,626,102	2,781,648	2,466,137	2,768,744	2,661,634	1,593,393	1,147,959	893,015	1,259,035	1,212,831	325,794	290,407	380,881	381,254	386,131
Hardwoods	2,693,950	1,863,960	1,626,733	1,565,561	1,242,981	241,870	144,674	114,089	116,211	91,362	317,278	208,586	198,989	150,991	106,473
Total	6,320,052	4,645,608	4,092,870	4,334,305	3,904,615	1,835,262	1,292,633	1,007,104	1,375,246	1,304,193	643,072	498,993	579,870	532,245	492,604

Table 33—(continued).

Region, subregion, and species group	Forest Industry					Nonindustrial private[a]				
	1996	1986	1976	1962	1952	1996	1986	1976	1962	1952
					Thousand cubic feet					
North:										
Northeast:										
Softwoods	101,024	95,216	65,375	45,251	37,876	148,245	141,656	113,862	122,642	102,443
Hardwoods	54,258	45,889	43,585	33,263	29,138	360,554	305,654	268,785	228,579	187,270
Total	155,283	141,105	108,960	78,514	67,014	508,799	447,310	382,647	351,221	289,713
North Central:										
Softwoods	17,149	13,254	22,180	17,507	8,308	71,632	36,537	51,935	38,032	20,668
Hardwoods	26,164	23,373	43,938	28,920	15,279	454,916	301,744	284,602	219,829	153,951
Total	43,313	36,627	66,118	46,427	23,587	526,548	338,281	336,537	257,861	174,619
North total:										
Softwoods	118,174	108,470	87,555	62,758	46,184	219,877	178,193	165,797	160,674	123,111
Hardwoods	80,422	69,262	87,523	62,183	44,417	815,470	607,398	553,387	448,408	341,221
Total	198,596	177,732	175,078	124,941	90,601	1,035,347	785,591	719,184	609,082	464,332
South:										
Southeast:										
Softwoods	87,772	71,127	64,000	50,200	44,200	442,587	361,965	312,000	183,300	167,600
Hardwoods	72,996	57,090	40,125	42,000	43,800	445,798	264,602	209,282	230,600	215,100
Total	160,767	128,217	104,125	92,200	88,000	888,385	626,567	521,282	413,900	382,700
South Central:										
Softwoods	97,501	85,998	64,935	52,200	38,748	256,889	224,043	124,514	64,400	44,820
Hardwoods	92,647	71,521	61,844	82,100	50,775	424,739	340,868	264,845	355,000	283,839
Total	190,148	157,519	126,779	134,300	89,523	681,628	564,911	389,359	419,400	328,659
South total:										
Softwoods	185,273	157,125	128,935	102,400	82,948	699,476	586,008	436,514	247,700	212,420
Hardwoods	165,642	128,611	101,969	124,100	94,575	870,538	605,470	474,127	585,600	498,939
Total	350,915	285,736	230,904	226,500	177,523	1,570,013	1,191,478	910,641	833,300	711,359
Rocky Mountain:										
Great Plains:										
Softwoods	0	0	24	14	9	2,040	2,512	243	275	207
Hardwoods	0	0	0	0	0	34,877	7,268	24,933	21,572	20,834
Total	0	0	24	14	9	36,917	9,780	25,176	21,847	21,041
Intermountain:										
Softwoods	41,152	27,696	22,407	22,949	22,197	84,687	43,409	95,250	91,164	88,549
Hardwoods	223	0	359	464	441	28,807	16,403	14,232	12,829	11,516
Total	41,375	27,696	22,766	23,413	22,638	113,494	59,812	109,482	103,993	100,065
Rocky Mountain total:										
Softwoods	41,152	27,696	22,431	22,963	22,206	86,727	45,921	95,493	91,439	88,756
Hardwoods	223	0	359	464	441	63,685	23,671	39,165	34,401	32,350
Total	41,375	27,696	22,790	23,427	22,647	150,412	69,592	134,658	125,840	121,106
Pacific Coast:										
Alaska:										
Softwoods	0	0	0	0	0	38,010	47,049	3,016	1,321	1,047
Hardwoods	0	0	0	0	0	3,283	4,016	203	103	103
Total	0	0	0	0	0	41,293	51,065	3,219	1,424	1,150
Pacific Northwest:										
Softwoods	111,361	74,475	134,300	222,400	255,200	101,609	48,141	66,400	81,600	80,000
Hardwoods	38,955	23,938	25,600	17,900	12,800	50,378	31,634	27,700	22,300	17,900
Total	150,316	98,413	159,900	240,300	268,000	151,987	79,775	94,100	103,900	97,900
Pacific Southwest:										
Softwoods	52,939	29,539	20,600	48,000	53,500	52,319	40,665	31,200	87,200	97,300
Hardwoods	13,976	5,280	1,700	1,500	1,100	32,232	11,420	1,922	1,400	1,300
Total	66,915	34,819	22,300	49,500	54,600	84,550	52,085	33,122	88,600	98,600

Table 33—(continued).

Region, subregion, and species group	Forest Industry					Nonindustrial private[a]				
	1996	1986	1976	1962	1952	1996	1986	1976	1962	1952
	Thousand cubic feet									
Pacific Coast total:										
Softwoods	164,300	104,014	154,900	270,400	308,700	191,938	135,855	100,616	170,121	178,347
Hardwoods	52,931	29,218	27,300	19,400	13,900	85,892	47,070	29,825	23,803	19,303
Total	217,231	133,232	182,200	289,800	322,600	277,830	182,925	130,441	193,924	197,650
United States:										
Softwoods	508,898	397,305	393,821	458,521	460,038	1,198,017	945,977	798,420	669,934	602,638
Hardwoods	299,218	227,091	217,151	206,147	153,333	1,835,585	1,283,609	1,096,504	1,092,212	891,813
Total	808,116	624,396	610,972	664,668	613,371	3,033,602	2,229,586	1,894,924	1,762,146	1,494,447

[a] Native American lands are included exclusively in the nonindustrial private owner group for 1997 only. For 1987 and earlier years, these lands may be included in the other public owner group.

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

Table 34—Net annual growth of growing stock on timberland in the United States 'by ownership group, region, subregion, and species group, 1996, 1986, 1976, 1962, and 1952

Region, subregion, and species group	All owners				
	1996	1986	1976	1962	1952
	Thousand cubic feet				
North:					
Northeast:					
Softwoods	646,083	701,741	1,067,271	821,900	652,600
Hardwoods	2,223,289	2,246,366	2,072,571	1,721,900	1,358,000
Total	2,869,371	2,948,107	3,139,842	2,543,800	2,010,600
North Central:					
Softwoods	523,127	586,546	490,986	389,027	320,702
Hardwoods	2,027,493	1,977,350	1,718,072	1,490,378	1,385,188
Total	2,550,620	2,563,896	2,209,058	1,879,405	1,705,890
North total:					
Softwoods	1,169,210	1,288,287	1,558,257	1,210,927	973,302
Hardwoods	4,250,781	4,223,716	3,790,643	3,212,778	2,743,188
Total	5,419,991	5,512,003	5,348,900	4,423,205	3,716,490
South:					
Southeast:					
Softwoods	2,778,801	2,622,053	3,104,000	2,151,467	1,874,017
Hardwoods	1,951,849	2,104,004	2,186,000	1,468,069	1,291,618
Total	4,730,651	4,726,057	5,290,000	3,619,536	3,165,635
South Central:					
Softwoods	3,110,078	2,876,764	3,210,598	2,547,300	1,767,400
Hardwoods	2,871,358	2,382,778	2,822,683	1,926,200	1,749,700
Total	5,981,436	5,259,542	6,033,281	4,473,500	3,517,100
South total:					
Softwoods	5,888,879	5,498,817	6,314,598	4,698,767	3,641,417
Hardwoods	4,823,208	4,486,782	5,008,683	3,394,269	3,041,318
Total	10,712,087	9,985,599	11,323,281	8,093,036	6,682,735
Rocky Mountain:					
Great Plains:					
Softwoods	50,448	47,412	43,521	30,419	22,220
Hardwoods	44,808	38,438	39,818	33,946	30,500
Total	95,256	85,850	83,339	64,365	52,720
Intermountain:					
Softwoods	1,912,245	1,909,449	1,550,496	1,226,400	1,077,700
Hardwoods	426,175	131,347	99,098	65,900	56,800
Total	2,338,421	2,040,796	1,649,594	1,292,300	1,134,500
Rocky Mountain total:					
Softwoods	1,962,694	1,956,861	1,594,017	1,256,819	1,099,920
Hardwoods	470,983	169,785	138,916	99,846	87,300
Total	2,433,676	2,126,646	1,732,933	1,356,665	1,187,220
Pacific Coast:					
Alaska:					
Softwoods	136,888	102,686	162,499	124,900	103,600
Hardwoods	85,888	93,664	6,824	6,725	6,725
Total	222,776	196,350	169,323	131,625	110,325
Pacific Northwest:					
Softwoods	3,080,632	3,270,724	2,158,700	1,818,600	1,472,500
Hardwoods	391,648	498,155	400,800	302,300	221,500
Total	3,472,280	3,768,879	2,559,500	2,120,900	1,694,000
Pacific Southwest:					
Softwoods	1,155,171	889,365	713,200	499,600	444,000
Hardwoods	133,172	156,834	79,137	80,000	75,000
Total	1,288,343	1,046,199	792,337	579,600	519,000
Pacific Coast total:					
Softwoods	4,372,692	4,262,775	3,034,399	2,443,100	2,020,100
Hardwoods	610,708	748,653	486,761	389,025	303,225
Total	4,983,400	5,011,428	3,521,160	2,832,125	2,323,325
United States:					
Softwoods	13,393,474	13,006,740	12,501,271	9,609,613	7,734,739
Hardwoods	10,155,680	9,628,936	9,425,003	7,095,418	6,175,031
Total	23,549,154	22,635,676	21,926,274	16,705,031	13,909,770

Table 34—(continued).

Region, subregion, and species group	National forest					Other public[a]				
	1996	1986	1976	1962	1952	1996	1986	1976	1962	1952
North:					*Thousand cubic feet*					
Northeast:										
Softwoods	13,839	19,019	18,359	15,394	13,282	60,666	53,518	48,791	31,676	27,166
Hardwoods	68,469	131,021	116,999	88,006	69,443	194,964	265,069	237,900	181,916	142,264
Total	82,308	150,040	135,358	103,400	82,725	255,631	318,587	286,691	213,592	169,430
North Central:										
Softwoods	94,231	117,617	97,660	73,431	57,215	140,565	168,327	142,017	120,065	92,256
Hardwoods	138,894	154,278	158,742	140,821	112,026	302,427	340,975	304,325	269,546	213,120
Total	233,124	271,895	256,402	214,252	169,241	442,991	509,302	446,342	389,611	305,376
North total:										
Softwoods	108,070	136,636	116,019	88,825	70,497	201,231	221,845	190,808	151,741	119,422
Hardwoods	207,362	285,299	275,741	228,827	181,469	497,391	606,044	542,225	451,462	355,384
Total	315,433	421,935	391,760	317,652	251,966	698,622	827,889	733,033	603,203	474,806
South:										
Southeast:										
Softwoods	57,179	93,774	137,000	89,697	80,313	144,516	147,893	149,000	84,254	70,017
Hardwoods	104,629	139,288	141,000	86,444	73,208	97,390	85,918	71,000	32,372	27,169
Total	161,808	233,062	278,000	176,141	153,521	241,906	233,811	220,000	116,626	97,186
South Central:										
Softwoods	192,018	230,844	245,340	336,300	211,300	65,607	54,534	71,156	57,700	56,388
Hardwoods	144,271	134,532	144,064	111,300	67,265	131,442	100,875	108,706	70,600	55,182
Total	336,289	365,376	389,404	447,600	278,565	197,049	155,409	179,862	128,300	111,570
South total:										
Softwoods	249,197	324,618	382,340	425,997	291,613	210,122	202,427	220,156	141,954	126,405
Hardwoods	248,901	273,820	285,064	197,744	140,473	228,833	186,793	179,706	102,972	82,351
Total	498,097	598,438	667,404	623,741	432,086	438,955	389,220	399,862	244,926	208,756
Rocky Mountain:										
Great Plains:										
Softwoods	41,741	32,989	31,087	20,993	14,700	835	3,105	2,977	2,006	1,469
Hardwoods	375	554	676	200	100	3,300	3,266	3,552	2,950	2,615
Total	42,117	33,543	31,763	21,193	14,800	4,135	6,371	6,529	4,956	4,084
Intermountain:										
Softwoods	1,231,826	1,263,727	1,013,396	754,900	673,400	167,534	216,692	158,464	138,559	117,646
Hardwoods	142,370	56,642	65,498	36,400	31,300	60,282	24,216	6,945	6,182	5,462
Total	1,374,195	1,320,369	1,078,894	791,300	704,700	227,816	240,908	165,409	144,741	123,108
Rocky Mountain total:										
Softwoods	1,273,567	1,296,716	1,044,483	775,893	688,100	168,369	219,797	161,441	140,565	119,115
Hardwoods	142,745	57,196	66,174	36,600	31,400	63,582	27,482	10,497	9,132	8,077
Total	1,416,312	1,353,912	1,110,657	812,493	719,500	231,951	247,279	171,938	149,697	127,192
Pacific Coast:										
Alaska:										
Softwoods	85,386	15,378	22,627	15,836	10,367	40,496	66,723	136,877	107,494	92,588
Hardwoods	4,060	768	15	16	16	61,201	55,309	6,609	6,609	6,609
Total	89,446	16,146	22,642	15,852	10,383	101,696	122,032	143,486	114,103	99,197
Pacific Northwest:										
Softwoods	1,097,597	1,076,000	538,800	506,900	440,900	557,893	634,145	467,000	403,700	258,900
Hardwoods	66,961	67,000	14,700	14,800	13,600	81,629	87,510	93,000	57,700	33,500
Total	1,164,558	1,143,000	553,500	521,700	454,500	639,522	721,655	560,000	461,400	292,400
Pacific Southwest:										
Softwoods	616,239	421,551	363,500	185,600	162,000	28,872	25,198	13,900	14,000	14,000
Hardwoods	4,123	0	16,100	30,000	29,000	5,248	15,865	7,735	5,000	6,000
Total	620,362	421,551	379,600	215,600	191,000	34,121	41,063	21,635	19,000	20,000
Pacific Coast total:										
Softwoods	1,799,222	1,512,929	924,927	708,336	613,267	627,261	726,066	617,777	525,194	365,488
Hardwoods	75,144	67,768	30,815	44,816	42,616	148,078	158,684	107,344	69,309	46,109
Total	1,874,366	1,580,697	955,742	753,152	655,883	775,339	884,750	725,121	594,503	411,597
United States:										
Softwoods	3,430,056	3,270,899	2,467,769	1,999,051	1,663,477	1,206,983	1,370,135	1,190,182	959,454	730,430
Hardwoods	674,152	684,083	657,794	507,987	395,958	937,884	979,003	839,772	632,875	491,921
Total	4,104,208	3,954,982	3,125,563	2,507,038	2,059,435	2,144,867	2,349,138	2,029,954	1,592,329	1,222,351

Table 34—(continued).

Region, subregion, and species group	Forest Industry					Nonindustrial private[a]				
	1996	1986	1976	1962	1952	1996	1986	1976	1962	1952
	Thousand cubic feet									
North:										
Northeast:										
Softwoods	64,526	188,430	377,359	236,099	178,928	507,051	440,774	622,762	538,731	433,224
Hardwoods	195,939	230,023	226,164	155,996	128,574	1,763,917	1,620,253	1,491,508	1,295,982	1,017,719
Total	260,465	418,453	603,523	392,095	307,502	2,270,967	2,061,027	2,114,270	1,834,713	1,450,943
North Central:										
Softwoods	35,442	50,172	55,090	43,948	43,288	252,890	250,430	196,219	151,583	127,943
Hardwoods	86,260	105,370	118,401	100,298	99,057	1,499,913	1,376,727	1,136,604	979,713	960,985
Total	121,701	155,542	173,491	144,246	142,345	1,752,803	1,627,157	1,332,823	1,131,296	1,088,928
North total:										
Softwoods	99,968	238,602	432,449	280,047	222,216	759,941	691,204	818,981	690,314	561,167
Hardwoods	282,199	335,393	344,565	256,294	227,631	3,263,829	2,996,980	2,628,112	2,275,695	1,978,704
Total	382,167	573,995	777,014	536,641	449,847	4,023,770	3,688,184	3,447,093	2,966,009	2,539,871
South:										
Southeast:										
Softwoods	889,665	724,829	688,000	410,752	374,583	1,687,442	1,655,557	2,130,000	1,566,764	1,349,104
Hardwoods	191,390	245,858	259,000	173,905	170,797	1,558,440	1,632,940	1,715,000	1,175,348	1,020,444
Total	1,081,055	970,687	947,000	584,657	545,380	3,245,882	3,288,497	3,845,000	2,742,112	2,369,548
South Central:										
Softwoods	1,135,049	829,133	894,423	971,400	707,496	1,717,403	1,762,253	1,999,679	1,181,900	792,216
Hardwoods	358,018	347,608	452,703	285,200	202,822	2,237,627	1,799,763	2,117,210	1,459,100	1,424,431
Total	1,493,068	1,176,741	1,347,126	1,256,600	910,318	3,955,030	3,562,016	4,116,889	2,641,000	2,216,647
South total:										
Softwoods	2,024,714	1,553,962	1,582,423	1,382,152	1,082,079	3,404,846	3,417,810	4,129,679	2,748,664	2,141,320
Hardwoods	549,408	593,466	711,703	459,105	373,619	3,796,067	3,432,703	3,832,210	2,634,448	2,444,875
Total	2,574,122	2,147,428	2,294,126	1,841,257	1,455,698	7,200,912	6,850,513	7,961,889	5,383,112	4,586,195
Rocky Mountain:										
Great Plains:										
Softwoods	0	340	608	296	233	7,872	10,978	8,849	7,124	5,818
Hardwoods	0	0	62	10	5	41,133	34,618	35,528	30,786	27,780
Total	0	340	670	306	238	49,005	45,596	44,377	37,910	33,598
Intermountain:										
Softwoods	125,967	124,840	103,030	91,385	78,404	386,918	304,190	275,606	241,556	208,250
Hardwoods	7,867	980	793	871	660	215,657	49,509	25,862	22,447	19,378
Total	133,834	125,820	103,823	92,256	79,064	602,575	353,699	301,468	264,003	227,628
Rocky Mountain total:										
Softwoods	125,967	125,180	103,638	91,681	78,637	394,790	315,168	284,455	248,680	214,068
Hardwoods	7,867	980	855	881	665	256,789	84,127	61,390	52,233	47,158
Total	133,834	126,160	104,493	92,562	79,302	651,580	399,295	345,845	301,913	261,226
Pacific Coast:										
Alaska:										
Softwoods	0	0	0	0	0	11,007	20,585	2,995	1,570	645
Hardwoods	0	0	0	0	0	20,628	37,587	200	100	100
Total	0	0	0	0	0	31,635	58,172	3,195	1,670	745
Pacific Northwest:										
Softwoods	883,870	1,029,287	691,200	464,100	399,000	541,274	531,292	461,700	443,900	373,700
Hardwoods	100,919	154,079	145,200	98,400	75,300	142,138	189,566	147,900	131,400	99,100
Total	984,788	1,183,366	836,400	562,500	474,300	683,412	720,858	609,600	575,300	472,800
Pacific Southwest:										
Softwoods	247,112	204,912	138,500	108,000	90,000	262,948	237,704	197,300	192,000	178,000
Hardwoods	45,497	45,596	19,100	15,000	11,000	78,305	95,373	36,202	30,000	29,000
Total	292,608	250,508	157,600	123,000	101,000	341,253	333,077	233,502	222,000	207,000
Pacific Coast total:										
Softwoods	1,130,981	1,234,199	829,700	572,100	489,000	815,228	789,581	661,995	637,470	552,345
Hardwoods	146,415	199,675	164,300	113,400	86,300	241,071	322,526	184,302	161,500	128,200
Total	1,277,396	1,433,874	994,000	685,500	575,300	1,056,299	1,112,107	846,297	798,970	680,545
United States:										
Softwoods	3,381,630	3,151,943	2,948,210	2,325,980	1,871,932	5,374,805	5,213,763	5,895,110	4,325,128	3,468,900
Hardwoods	985,888	1,129,514	1,221,423	829,680	688,215	7,557,756	6,836,336	6,706,014	5,124,876	4,598,937
Total	4,367,519	4,281,457	4,169,633	3,155,660	2,560,147	12,932,561	12,050,099	12,601,124	9,450,004	8,067,837

[a] Native American lands are included exclusively in the nonindustrial private owner group for 1997 only. For 1987 and earlier years, these lands may be included in the other public owner group.

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

Table 35—Annual removals of growing stock on timberland in the United States by ownership group region, subregion, group, region, subregion, and species group, 1996, 1986, and 1976

Region, subregion, and species group	All owners			National forest	Other public	Forest industry	Non-industrial private
	1996	1986	1976	1996	1996	1996	1996
				Thousand cubic feet			
North:							
Northeast:							
Softwoods	413,718	520,797	498,576	4,512	13,487	117,552	278,167
Hardwoods	860,999	781,162	803,694	16,489	45,497	158,074	640,939
Total	1,274,717	1,301,959	1,302,270	21,001	58,984	275,626	919,106
North Central:							
Softwoods	254,630	204,719	193,534	24,247	70,806	32,466	127,111
Hardwoods	1,243,071	1,201,539	999,059	64,052	231,476	104,947	842,596
Total	1,497,701	1,406,258	1,192,593	88,299	302,282	137,413	969,707
North total:							
Softwoods	668,348	725,516	692,110	28,759	84,293	150,018	405,278
Hardwoods	2,104,070	1,982,701	1,802,753	80,541	276,973	263,021	1,483,535
Total	2,772,418	2,708,217	2,494,863	109,300	361,266	413,039	1,888,813
South:							
Southeast:							
Softwoods	2,947,436	2,411,562	2,028,804	47,301	114,037	961,359	1,824,739
Hardwoods	1,511,833	1,260,821	1,002,521	51,142	38,627	284,561	1,137,503
Total	4,459,269	3,672,383	3,031,325	98,443	152,664	1,245,920	2,962,242
South Central:							
Softwoods	3,530,826	2,905,505	2,407,658	139,396	60,743	1,259,240	2,071,447
Hardwoods	2,194,685	1,625,779	1,239,717	55,512	52,710	454,322	1,632,141
Total	5,725,511	4,531,284	3,647,375	194,908	113,453	1,713,562	3,703,588
South total:							
Softwoods	6,478,262	5,317,067	4,436,462	186,697	174,780	2,220,599	3,896,186
Hardwoods	3,706,518	2,886,600	2,242,238	106,654	91,337	738,883	2,769,644
Total	10,184,780	8,203,667	6,678,700	293,351	266,117	2,959,482	6,665,830
Rocky Mountain:							
Great Plains:							
Softwoods	20,181	25,797	21,322	12,247	724	--	7,210
Hardwoods	15,113	16,260	20,600	17	424	--	14,672
Total	35,294	42,057	41,922	12,264	1,148	--	21,882
Intermountain:							
Softwoods	480,943	817,031	821,687	118,136	48,086	154,395	160,326
Hardwoods	15,757	11,635	3,054	6,299	2,007	3,398	4,053
Total	496,700	828,666	824,741	124,435	50,093	157,793	164,379
Rocky Mountain total:							
Softwoods	501,124	842,828	843,009	130,383	48,810	154,395	167,536
Hardwoods	30,870	27,895	23,654	6,316	2,431	3,398	18,725
Total	531,994	870,723	866,663	136,699	51,241	157,793	186,261

Table 35—(continued).

Region, subregion, and species group	All owners			National forest	Other public	Forest industry	Non-industrial private
	1996	1986	1976	1996	1996	1996	1996
				Thousand cubic feet			
Pacific Coast:							
Alaska:							
Softwoods	177,298	117,881	107,437	50,511	3,402	--	123,385
Hardwoods	5,229	5,211	3,164	401	1,480	--	3,348
Total	182,527	123,092	110,601	50,912	4,882	--	126,733
Pacific Northwest:							
Softwoods	1,621,480	3,121,025	3,101,707	137,483	226,575	800,856	456,566
Hardwoods	99,492	98,375	106,286	1,311	12,686	39,693	45,802
Total	1,720,969	3,219,400	3,207,993	138,793	239,260	840,548	502,368
Pacific Southwest:							
Softwoods	618,021	818,897	818,402	95,633	22,925	356,938	142,525
Hardwoods	10,036	11,579	16,805	3,508	100	5,020	1,408
Total	628,056	830,476	835,207	99,141	23,025	361,958	143,932
Pacific Coast total:							
Softwoods	2,416,799	4,057,803	4,027,546	283,627	252,902	1,157,794	722,476
Hardwoods	114,757	115,165	126,255	5,220	14,266	44,713	50,558
Total	2,531,552	4,172,968	4,153,801	288,846	267,167	1,202,506	773,033
United States:							
Softwoods	10,064,531	10,943,214	9,999,127	629,466	560,784	3,682,805	5,191,476
Hardwoods	5,956,213	5,012,361	4,194,900	198,731	385,006	1,050,014	4,322,462
Total	16,020,744	15,955,575	14,194,027	828,197	945,790	4,732,819	9,513,938

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

Table 36—Net annual growth, removals, and mortality of growing stock on timberland in the United States by species group, region, subregion, and State, 1996

Region, subregion, and State	All species			Softwoods			Hardwoods		
	Net growth	Removals	Mortality	Net growth	Removals	Mortality	Net growth	Removals	Mortality
	Thousand cubic feet								
North:									
Northeast:									
Connecticut	46,136	11,691	17,588	5,324	3,013	512	40,811	8,678	17,077
Delaware	12,225	7,654	4,088	2,633	3,966	1,544	9,592	3,688	2,544
Maine	402,249	441,730	223,295	181,572	234,039	164,637	220,676	207,691	58,658
Maryland	138,882	40,507	29,875	24,541	12,891	8,032	114,341	27,617	21,843
Massachusetts	97,580	15,703	19,352	31,765	7,987	7,757	65,815	7,715	11,596
New Hampshire	176,051	139,923	49,397	79,411	44,867	22,784	96,640	95,056	26,612
New Jersey	61,062	10,549	12,136	11,253	753	1,482	49,809	9,795	10,654
New York	589,832	141,068	109,278	145,116	42,646	23,265	444,716	98,421	86,013
Pennsylvania	630,512	219,541	177,157	69,745	18,735	11,019	560,768	200,805	166,138
Rhode Island	9,476	1,742	1,849	2,402	588	132	7,074	1,154	1,716
Vermont	195,110	77,296	48,661	70,927	37,958	15,653	124,182	39,338	33,008
West Virginia	510,256	167,313	95,073	21,393	6,272	16,791	488,863	161,041	78,282
Total	2,869,371	1,274,717	787,750	646,083	413,715	273,609	2,223,289	860,999	514,142
North Central:									
Illinois	137,441	77,167	40,005	3,823	741	818	133,619	76,426	39,187
Indiana	223,666	95,839	60,540	8,720	3,061	2,689	214,946	92,779	57,852
Iowa	41,155	25,503	15,864	840	105	59	40,314	25,398	15,806
Michigan	756,404	352,729	198,212	227,248	78,377	62,049	529,156	274,351	136,164
Minnesota	370,112	324,388	215,903	114,062	74,721	66,055	256,050	249,667	149,847
Missouri	239,389	161,069	65,605	27,569	12,695	3,052	211,819	148,374	62,553
Ohio	293,497	101,216	56,165	10,904	2,848	4,399	282,593	98,368	51,766
Wisconsin	488,957	359,789	187,728	129,961	82,081	42,787	358,996	277,708	144,941
Total	2,550,620	1,497,700	840,022	523,127	254,629	181,907	2,027,493	1,243,071	658,116
North total:	5,419,991	2,772,417	1,627,773	1,169,210	668,344	455,516	4,250,781	2,104,070	1,172,257
South:									
Southeast:									
Florida	684,839	586,211	100,041	526,274	499,369	49,962	158,565	86,841	50,080
Georgia	1,518,637	1,506,459	291,315	1,006,797	1,062,360	157,204	511,840	444,100	134,111
North Carolina	1,159,584	1,024,150	263,942	589,829	605,421	116,369	569,755	418,730	147,573
South Carolina	519,189	753,442	402,480	338,730	525,432	251,464	180,459	228,010	151,016
Virginia	848,401	589,007	175,750	317,170	254,855	54,977	531,231	334,151	120,773
Total	4,730,651	4,459,269	1,233,528	2,778,801	2,947,437	629,975	1,951,849	1,511,832	603,553
South Central:									
Alabama	1,223,677	1,441,144	198,045	657,630	985,347	106,203	566,047	455,798	91,842
Arkansas	896,274	747,179	140,764	546,133	436,826	44,997	350,141	310,354	95,767
Kentucky	384,129	249,303	88,592	25,114	15,641	12,851	359,015	233,662	75,741
Louisiana	834,007	791,336	157,640	526,081	562,933	77,642	307,926	228,403	79,997
Mississippi	1,104,610	1,157,367	163,272	639,086	729,714	74,777	465,523	427,653	88,495
Oklahoma	238,905	124,450	14,529	114,553	86,467	2,991	124,352	37,983	11,537
Tennessee	594,627	368,035	146,378	97,689	78,274	32,780	496,938	289,761	113,598
Texas	705,207	846,696	93,323	503,792	635,624	53,588	201,415	211,072	39,735
Total	5,981,436	5,725,510	1,002,543	3,110,078	3,530,826	405,829	2,871,358	2,194,686	596,714
South total:	10,712,087	10,184,779	2,236,071	5,888,879	6,478,263	1,035,804	4,823,208	3,706,518	1,200,267

Table 36—(continued).

Region, subregion, and State	All species			Softwoods			Hardwoods		
	Net growth	Removals	Mortality	Net growth	Removals	Mortality	Net growth	Removals	Mortality
	Thousand cubic feet								
Rocky Mountain:									
Great Plains:									
Kansas	25,857	6,397	19,423	1,028	64	57	24,829	6,333	19,366
Nebraska	14,082	11,086	12,957	4,042	4,495	1,484	10,040	6,590	11,473
North Dakota	6,664	1,395	4,471	112	5	0	6,552	1,390	4,471
South Dakota	48,653	16,417	10,735	45,266	15,617	8,021	3,387	800	2,714
Total	95,256	35,295	47,587	50,448	20,181	9,563	44,808	15,113	38,025
Intermountain:									
Arizona	168,535	15,442	26,783	106,917	15,437	23,467	61,618	6	3,317
Colorado	342,891	20,598	177,861	194,231	12,828	129,922	148,660	7,770	47,939
Idaho	806,378	252,435	288,225	793,597	247,041	274,016	12,782	5,393	14,209
Montana	643,948	171,301	277,125	560,727	170,735	272,818	83,222	566	4,306
Nevada	60,462	1,342	2,477	4,243	1,342	2,111	56,219	--	366
New Mexico	125,835	13,097	53,411	113,820	11,935	41,672	12,015	1,163	11,738
Utah	77,182	8,311	103,522	46,470	7,452	86,271	30,711	859	17,252
Wyoming	113,189	14,174	63,801	92,240	14,174	59,685	20,949	--	4,116
Total	2,338,421	496,700	993,206	1,912,245	480,944	889,962	426,175	15,757	103,244
Rocky Mountain total:	2,433,676	531,995	1,040,793	1,962,694	501,125	899,525	470,983	30,870	141,268
Pacific Coast:									
Alaska:									
Alaska	222,776	182,527	204,705	136,888	177,299	194,542	85,888	5,228	10,163
Total	222,776	182,527	204,705	136,888	177,299	194,542	85,888	5,228	10,163
Pacific Northwest:									
Oregon	1,738,705	855,969	465,848	1,546,190	824,253	423,469	192,515	31,715	42,379
Washington	1,733,575	865,001	429,994	1,534,443	797,226	354,141	199,132	67,776	75,853
Total	3,472,280	1,720,970	895,842	3,080,632	1,621,479	777,610	391,648	99,491	118,232
Pacific Southwest:									
California	1,287,355	628,057	313,781	1,155,171	618,020	263,106	132,184	10,036	50,675
Hawaii	988	0	1,088	0	0	0	988	0	1,088
Total	1,288,343	628,057	314,869	1,155,171	618,020	263,106	133,172	10,036	51,763
Pacific Coast total:	4,983,400	2,531,554	1,415,416	4,372,692	2,416,798	1,235,258	610,708	114,755	180,158
United States:	23,549,154	16,020,745	6,320,052	13,393,474	10,064,530	3,626,102	10,155,680	5,956,213	2,693,950

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

Table 37—Net all-live biomass on timberland in the Eastern and Western United States by rural-urban continuum class and forest type group, 1997

Forest type group	Total	Predominant county population continuum class				
		Major metro	Intermediate-small metro	Large town	Small town	Rural
			Million dry tons			
East:						
White-red-jack pine	561	104	124	21	227	84
Spruce-fir	555	8	61	94	324	67
Longleaf-slash pine	360	75	38	13	160	74
Loblolly-shortleaf pine	1,922	333	213	77	903	397
Oak-pine	1,287	253	148	44	574	268
Oak-hickory	5,953	1,220	748	142	2,432	1,411
Oak-gum-cypress	1,600	311	192	53	768	275
Elm-ash-cottonwood	491	130	70	18	204	70
Maple-beech-birch	2,632	370	377	199	1,266	420
Aspen-birch	532	13	71	34	276	138
Nonstocked	2	0	0	0	1	0
East total:	15,895	2,817	2,044	695	7,135	3,205
West:						
Douglas-fir	1,966	387	433	184	612	349
Ponderosa pine	778	81	106	109	309	173
Western white pine	7	1	1	0	5	1
Fir-spruce	1,213	98	116	84	427	487
Hemlock-Sitka spruce	937	101	136	48	202	450
Larch	54	0	1	7	31	15
Lodgepole pine	432	4	12	49	170	197
Redwood	79	20	29	27	3	0
Other hardwoods	874	121	178	91	207	278
Unclass./other forest types	58	1	6	4	22	25
Pinyon-juniper	7	0	0	4	2	1
Nonstocked	4	1	0	0	1	1
West total:	6,409	814	1,018	609	1,991	1,977
United States:	22,304	3,630	3,062	1,303	9,126	5,182

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

Table 38—Biomass on timberland in the United States by region, subregion, State, and tree component, 1997

Region, subregion, and State	All biomass	Live trees				Sound dead
		All live	Boles	Tops	Saplings	
			Million dry tons			
North:						
Northeast:						
Connecticut	82	81	51	18	12	1
Delaware	20	20	13	5	2	0
Maine	802	798	474	183	141	4
Maryland	151	151	102	35	13	1
Massachusetts	130	129	82	30	18	1
New Hampshire	304	303	199	73	31	1
New Jersey	80	80	48	18	14	1
New York	754	752	499	162	91	2
Pennsylvania	873	870	614	182	74	3
Rhode Island	13	13	8	3	2	0
Vermont	292	290	193	71	27	2
West Virginia	744	742	489	170	84	1
Total	4,246	4,229	2,771	949	508	17
North Central:						
Illinois	161	160	112	32	16	1
Indiana	208	208	151	43	14	0
Iowa	75	74	52	15	7	1
Michigan	790	787	530	155	102	3
Minnesota	460	457	298	84	75	3
Missouri	475	474	310	99	65	1
Ohio	472	471	325	101	44	1
Wisconsin	562	555	383	112	59	7
Total	3,202	3,185	2,160	642	384	17
North total:	7,448	7,414	4,931	1,591	892	34
South:						
Southeast:						
Florida	435	435	327	45	63	0
Georgia	886	886	674	91	121	0
North Carolina	891	890	695	93	103	1
South Carolina	452	451	348	45	59	0
Virginia	784	783	607	89	87	1
Total	3,448	3,446	2,651	363	432	2
South Central:						
Alabama	843	842	554	155	134	1
Arkansas	831	829	559	167	102	3
Kentucky	618	616	442	112	62	2
Louisiana	648	648	455	129	64	0
Mississippi	775	773	519	155	99	1
Oklahoma	197	197	120	40	37	0
Tennessee	670	668	451	139	79	2
Texas	463	462	318	88	56	1
Total	5,044	5,035	3,417	985	633	9
South total:	8,492	8,481	6,068	1,348	1,065	11

Table 38—(continued).

Region, subregion, and State	All biomass	Live trees				Sound dead
		All live	Boles	Tops	Saplings	
			Million dry tons			
Rocky Mountain:						
Great Plains:						
Kansas	51	50	36	10	4	1
Nebraska	29	29	22	5	2	0
North Dakota	14	13	9	3	1	0
South Dakota	31	31	24	4	2	1
Total	126	124	92	23	9	2
Intermountain:						
Arizona	118	117	78	31	7	2
Colorado	344	319	231	66	22	26
Idaho	792	766	578	144	44	26
Montana	618	581	396	132	53	37
Nevada	17	16	12	4	0	1
New Mexico	122	119	81	28	10	3
Utah	171	157	109	35	13	14
Wyoming	141	130	92	32	7	11
Total	2,324	2,204	1,576	471	156	120
Rocky Mountain total:	2,450	2,328	1,668	494	165	123
Pacific Coast:						
Alaska:						
Alaska	665	647	473	101	73	18
Total	665	647	473	101	73	18
Pacific Northwest:						
Oregon	1,410	1,365	1,145	197	23	45
Washington	1,098	1,074	877	166	31	24
Total	2,508	2,439	2,023	363	54	69
Pacific Southwest:						
California	993	989	798	133	58	3
Hawaii	5	5	4	1	0	0
Total	998	995	802	134	59	3
Pacific Coast total:	4,171	4,081	3,297	598	186	90
United States:	22,561	22,304	15,965	4,031	2,308	258

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

Table 39—Volume of roundwood products harvested in the United States by source of material, species group, region, subregion, and product, 1996

Region, subregion, and product	All sources			Source of material					
				Growing stock			Other sources		
	Total	Softwoods	Hardwoods	Total	Softwoods	Hardwoods	Total	Softwoods	Hardwoods
				Thousand cubic feet					
North:									
Northeast:									
Saw logs	714,094	259,284	454,810	609,540	207,575	401,965	104,554	51,709	52,845
Veneer logs	32,687	2,571	30,116	28,697	2,058	26,639	3,990	513	3,477
Pulpwood	523,882	214,364	309,518	420,904	167,584	253,320	102,978	46,780	56,198
Composite products	2,118	179	1,939	1,727	140	1,587	391	39	352
Fuelwood	466,915	53,265	413,650	62,623	4,983	57,640	404,292	48,282	356,010
Posts, poles, and pilings	8,141	1,919	6,222	6,740	1,274	5,466	1,401	645	756
Miscellaneous products	24,533	13,165	11,368	18,727	8,740	9,987	5,806	4,425	1,381
Total	1,772,370	544,747	1,227,623	1,148,958	392,354	756,604	623,412	152,393	471,019
North Central:									
Saw logs	565,593	77,258	488,335	515,795	74,592	441,203	49,798	2,666	47,132
Veneer logs	27,442	504	26,938	24,919	455	24,464	2,523	49	2,474
Pulpwood	539,761	154,679	385,082	454,626	137,386	317,240	85,135	17,293	67,842
Composite products	199,404	11,516	187,888	183,186	9,101	174,085	16,218	2,415	13,803
Fuelwood	375,199	15,734	359,465	67,376	5,513	61,863	307,823	10,221	297,602
Posts, poles, and pilings	9,026	7,447	1,579	6,841	6,080	761	2,185	1,367	818
Miscellaneous products	20,142	3,989	16,153	17,217	3,898	13,320	2,924	91	2,833
Total	1,736,567	271,127	1,465,440	1,269,960	237,025	1,032,936	466,606	34,102	432,504
North total:									
Saw logs	1,279,687	336,542	943,145	1,125,335	282,167	843,168	154,352	54,375	99,977
Veneer logs	60,129	3,075	57,054	53,616	2,513	51,103	6,513	562	5,951
Pulpwood	1,063,643	369,043	694,600	875,530	304,970	570,560	188,113	64,073	124,040
Composite products	201,522	11,695	189,827	184,913	9,241	175,672	16,609	2,454	14,155
Fuelwood	842,114	68,999	773,115	129,999	10,496	119,503	712,115	58,503	653,612
Posts, poles, and pilings	17,167	9,366	7,801	13,581	7,354	6,227	3,586	2,012	1,574
Miscellaneous products	44,675	17,154	27,521	35,944	12,638	23,307	8,730	4,516	4,214
Total	3,508,937	815,874	2,693,063	2,418,918	629,379	1,789,540	1,090,018	186,495	903,523
South:									
Southeast:									
Saw logs	1,563,494	1,237,480	326,014	1,515,112	1,207,371	307,741	48,382	30,109	18,273
Veneer logs	238,126	186,231	51,895	233,508	182,100	51,408	4,618	4,131	487
Pulpwood	1,791,030	1,222,614	568,416	1,602,293	1,092,627	509,666	188,737	129,987	58,750
Composite products	106,917	69,160	37,757	94,255	60,688	33,567	12,662	8,472	4,190
Fuelwood	438,921	53,308	385,613	242,396	29,017	213,378	196,525	24,291	172,235
Posts, poles, and pilings	27,610	27,541	69	25,181	25,123	58	2,429	2,418	11
Miscellaneous products	21,807	18,643	3,164	17,503	14,626	2,877	4,304	4,017	287
Total	4,187,905	2,814,977	1,372,928	3,730,248	2,611,552	1,118,695	457,657	203,425	254,233
South Central:									
Saw logs	2,117,188	1,484,302	632,886	2,019,350	1,446,019	573,331	97,838	38,283	59,555
Veneer logs	586,877	549,943	36,934	570,544	534,509	36,035	16,333	15,434	899
Pulpwood	2,102,951	1,176,538	926,413	1,897,083	1,082,767	814,317	205,868	93,771	112,096
Composite products	45,880	30,818	15,062	39,769	26,672	13,097	6,111	4,146	1,965
Fuelwood	509,061	55,736	453,325	264,963	33,824	231,139	244,098	21,912	222,186
Posts, poles, and pilings	40,713	40,686	27	35,911	35,894	16	4,802	4,792	11
Miscellaneous products	2,208	1,838	370	1,717	1,470	246	491	368	124
Total	5,404,878	3,339,861	2,065,017	4,829,337	3,161,155	1,668,181	575,541	178,706	396,836

Table 39—(continued).

Region, subregion, and product	All sources			Source of material					
				Growing stock			Other sources		
	Total	Softwoods	Hardwoods	Total	Softwoods	Hardwoods	Total	Softwoods	Hardwoods
				Thousand cubic feet					
South total:									
Saw logs	3,680,682	2,721,782	958,900	3,534,462	2,653,390	881,072	146,220	68,392	77,828
Veneer logs	825,003	736,174	88,829	804,052	716,609	87,443	20,951	19,565	1,386
Pulpwood	3,893,981	2,399,152	1,494,829	3,499,376	2,175,394	1,323,983	394,605	223,758	170,846
Composite products	152,797	99,978	52,819	134,024	87,360	46,664	18,773	12,618	6,155
Fuelwood	947,982	109,044	838,938	507,359	62,841	444,517	440,623	46,203	394,421
Posts, poles, and pilings	68,323	68,227	96	61,092	61,017	74	7,231	7,210	22
Miscellaneous products	24,015	20,481	3,534	19,220	16,096	3,123	4,795	4,385	411
Total	9,592,783	6,154,838	3,437,945	8,559,585	5,772,707	2,786,876	1,033,198	382,131	651,069
Rocky Mountain:									
Great Plains:									
Saw logs	24,095	16,673	7,422	23,479	16,533	6,946	616	140	476
Veneer logs	102	0	102	100	0	100	2	0	2
Pulpwood	0	0	0	0	0	0	0	0	0
Composite products	985	810	175	815	670	145	170	140	30
Fuelwood	42,310	1550	40760	1,287	73	1,214	41,023	1,477	39,546
Posts, poles, and pilings	667	145	522	16	16	0	651	129	522
Miscellaneous products	203	122	81	202	122	80	0	0	0
Total	68,362	19,300	49,062	25,899	17,414	8,485	42,462	1,886	40,576
Intermountain:									
Saw logs	365,770	364,425	1,346	338,055	336,831	1,224	27,715	27,593	122
Veneer logs	63,461	63,461	0	63,063	63,063	0	398	398	0
Pulpwood	26,177	26,177	0	18,715	18,715	0	7,462	7,462	0
Composite products	4,608	0	4,608	4,567	0	4,567	41	0	41
Fuelwood	130,189	97,179	33,009	6,049	2,821	3,228	124,139	94,358	29,781
Posts, poles, and pilings	13,006	12,964	41	11,234	11,195	40	1,771	1,770	1
Miscellaneous products	16,117	10,327	5,790	10,432	4,669	5,763	5,684	5,658	26
Total	619,328	574,533	44,794	452,115	437,294	14,822	167,210	137,239	29,971
Rocky Mountain total:									
Saw logs	389,865	381,098	8,768	361,534	353,364	8,170	28,331	27,733	598
Veneer logs	63,563	63,461	102	63,163	63,063	100	400	398	2
Pulpwood	26,177	26,177	0	18,715	18,715	0	7,462	7,462	0
Composite products	5,593	810	4,783	5,382	670	4,712	211	140	71
Fuelwood	172,499	98,729	73,769	7,336	2,894	4,442	165,162	95,835	69,327
Posts, poles, and pilings	13,673	13,109	563	11,250	11,211	40	2,422	1,899	523
Miscellaneous products	16,320	10,449	5,871	10,634	4,791	5,843	5,684	5,658	26
Total	687,690	593,833	93,856	478,014	454,708	23,307	209,672	139,125	70,547
Pacific Coast:									
Alaska:									
Saw logs	34,543	34,360	182	33,802	33,623	179	741	737	4
Veneer logs	0	0	0	0	0	0	0	0	0
Pulpwood	19,256	19,183	73	17,278	17,213	65	1,978	1,970	7
Composite products	0	0	0	0	0	0	0	0	0
Fuelwood	12,782	7,078	5,704	10,173	5,832	4,341	2,609	1,245	1,364
Posts, poles, and pilings	0	0	0	0	0	0	0	0	0
Miscellaneous products	79,478	79,475	3	79,478	79,475	3	0	0	0
Total	146,059	140,096	5,962	140,731	136,143	4,588	5,328	3,952	1,375

Table 39—(continued).

Region, subregion, and product	All sources			Source of material					
				Growing stock			Other sources		
	Total	Softwoods	Hardwoods	Total	Softwoods	Hardwoods	Total	Softwoods	Hardwoods
				Thousand cubic feet					
Pacific Northwest:									
Saw logs	1,220,010	1,169,040	50,971	1,183,330	1,132,398	50,932	36,680	36,641	39
Veneer logs	297,416	285,894	11,521	272,608	261,309	11,299	24808	24585	222
Pulpwood	40,150	37,111	3,038	33,853	30,975	2,878	6297	6136	161
Composite products	1,443	1,443	0	1,217	1,217	0	226	226	0
Fuelwood	137,958	94,478	43,480	80,647	50,811	29,836	57,311	43,667	13,644
Posts, poles, and pilings	68,606	68,606	0	68,606	68,606	0	0	0	0
Miscellaneous products	2,196	2,196	0	1,499	1,499	0	697	697	0
Total	1,767,779	1,658,768	109,010	1,641,760	1,546,815	94,945	126,019	111,952	14,066
Pacific Southwest:									
Saw logs	515,436	515,436	0	473,354	473,354	0	42082	42082	0
Veneer logs	35,433	35,334	99	27,079	26,981	99	8353	8353	0
Pulpwood	0	0	0	0	0	0	0	0	0
Composite products	0	0	0	0	0	0	0	0	0
Fuelwood	169,513	114,718	54,794	63,447	54,434	9,013	106,065	60,285	45,781
Posts, poles, and pilings	7,056	7,056	0	7,056	7,056	0	0	0	0
Miscellaneous products	245	245	0	4	4	0	241	241	0
Total	727,683	672,789	54,893	570,940	561,829	9,112	156,741	110,961	45,781
Pacific Coast total:									
Saw logs	1,769,989	1,718,836	51,153	1,690,486	1,639,375	51,111	79,503	79,460	43
Veneer logs	332,849	321,228	11,620	299,687	288,290	11,398	33,161	32,938	222
Pulpwood	59,406	56,294	3,111	51,131	48,188	2,943	8,275	8,106	168
Composite products	1,443	1,443	0	1,217	1,217	0	226	226	0
Fuelwood	320,253	216,274	103,978	154,267	111,077	43,190	165,985	105,197	60,789
Posts, poles, and pilings	75,662	75,662	0	75,662	75,662	0	0	0	0
Miscellaneous products	81,919	81,916	3	80,981	80,978	3	938	938	0
Total	2,641,521	2,471,653	169,865	2,353,431	2,244,787	108,645	288,088	226,865	61,222
United States:									
Saw logs	7,120,223	5,158,258	1,961,966	6,711,817	4,928,296	1,783,521	408,406	229,960	178,446
Veneer logs	1,281,544	1,123,938	157,605	1,220,518	1,070,475	150,044	61,025	53,463	7,561
Pulpwood	5,043,207	2,850,666	2,192,540	4,444,752	2,547,267	1,897,486	598,455	303,399	295,054
Composite products	361,355	113,926	247,429	325,536	98,488	227,048	35,819	15,438	20,381
Fuelwood	2,282,848	493,046	1,789,800	798,961	187,308	611,652	1,483,885	305,738	1,178,149
Posts, poles, and pilings	174,825	166,364	8,460	161,585	155,244	6,341	13,239	11,121	2,119
Miscellaneous products	166,929	130,000	36,929	146,779	114,503	32,276	20,147	15,497	4,651
Total	16,430,931	10,036,198	6,394,729	13,809,948	9,101,581	4,708,368	2,620,976	934,616	1,686,361

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

Table 40—Roundwood products, logging residues, and other removals from growing stock and other sources by species group, region, and subregion, 1996

Region, subregion, class of material, and source of material	Total	Species group	
		Softwoods	Hardwoods
	Thousand cubic feet		
North:			
Northeast:			
Roundwood products—			
Growing stock	1,148,959	392,355	756,605
Other sources	623,413	152,393	471,020
Total	1,772,372	544,748	1,227,625
Logging residues—			
Growing stock[a]	125,757	21,362	104,395
Other sources[b]	587,751	173,399	414,351
Total	713,508	194,761	518,746
Other removals—			
Growing stock[c]	0	0	0
Other sources[d]	10,669	1,400	9,270
Total	10,669	1,400	9,270
Total, all classes—			
Growing stock	1,274,716	413,717	861,000
Other sources	1,221,833	327,192	894,641
Total, all materials	2,496,549	740,909	1,755,641
North Central:			
Roundwood products—			
Growing stock	1,269,961	237,025	1,032,936
Other sources	466,605	34,102	432,504
Total	1,736,566	271,127	1,465,440
Logging residues—			
Growing stock[a]	130,195	9,556	120,639
Other sources[b]	515,880	88,218	427,662
Total	646,075	97,774	548,301
Other removals—			
Growing stock[c]	97,545	8,048	89,496
Other sources[d]	93,098	4,566	88,533
Total	190,643	12,614	178,029
Total, all classes—			
Growing stock	1,497,701	254,629	1,243,071
Other sources	1,075,583	126,886	948,699
Total, all materials	2,573,284	381,515	2,191,770
North Total:			
Roundwood products—			
Growing stock	2,418,920	629,380	1,789,541
Other sources	1,090,018	186,495	903,523
Total	3,508,938	815,875	2,693,064
Logging residues—			
Growing stock[a]	255,951	30,918	225,033
Other sources[b]	1,103,631	261,618	842,013
Total	1,359,582	292,536	1,067,046

Table 40—(continued).

Region, subregion, class of material, and source of materials	Total	Species group	
		Softwoods	Hardwoods
	Thousand cubic feet		
Other removals—			
Growing stock[c]	97,545	8,048	89,496
Other sources[d]	103,768	5,966	97,802
Total	201,313	14,014	187,298
Total, all classes—			
Growing stock	2,772,417	668,346	2,104,070
Other sources	2,297,417	454,078	1,843,339
Total, all materials	5,069,834	1,122,424	3,947,409
South:			
Southeast:			
Roundwood products—			
Growing stock	3,730,248	2,611,553	1,118,695
Other sources	457,657	203,424	254,233
Total	4,187,905	2,814,977	1,372,928
Logging residues—			
Growing stock[a]	346,849	168,042	178,807
Other sources[b]	201,563	65,303	136,260
Total	548,412	233,345	315,067
Other removals—			
Growing stock[c]	382,172	167,842	214,330
Other sources[d]	196,586	61,558	135,028
Total	578,758	229,400	349,358
Total, all classes—			
Growing stock	4,459,269	2,947,437	1,511,832
Other sources	855,806	330,285	525,521
Total, all materials	5,315,075	3,277,722	2,037,353
South Central:			
Roundwood products—			
Growing stock	4,829,338	3,161,156	1,668,182
Other sources	575,540	178,705	396,835
Total	5,404,878	3,339,861	2,065,017
Logging residues—			
Growing stock[a]	465,665	200,394	265,271
Other sources[b]	508,465	147,927	360,538
Total	974,130	348,321	625,809
Other removals—			
Growing stock[c]	430,508	169,276	261,232
Other sources[d]	155,032	31,207	123,825
Total	585,540	200,483	385,057
Total, all classes—			
Growing stock	5,725,511	3,530,826	2,194,685
Other sources	1,239,037	357,839	881,198
Total, all materials	6,964,548	3,888,665	3,075,883

Table 40—(continued).

Region, subregion, class of material, and source of material	Total	Species group	
		Softwoods	Hardwoods
	Thousand cubic feet		
South total:			
Roundwood products—			
Growing stock	8,559,586	5,772,708	2,786,877
Other sources	1,033,197	382,130	651,067
Total	9,592,783	6,154,838	3,437,944
Logging residues—			
Growing stock[a]	812,513	368,436	444,077
Other sources[b]	710,029	213,230	496,799
Total	1,522,542	581,666	940,876
Other removals—			
Growing stock[c]	812,680	337,118	475,563
Other sources[d]	351,618	92,765	258,852
Total	1,164,298	429,883	734,415
Total, all classes—			
Growing stock	10,184,780	6,478,262	3,706,517
Other sources	2,094,843	688,125	1,406,719
Total, all materials	12,279,623	7,166,387	5,113,236
Rocky Mountain:			
Great Plains:			
Roundwood products—			
Growing stock	25,899	17,414	8,485
Other sources	42,463	1,887	40,576
Total	68,362	19,301	49,061
Logging residues—			
Growing stock[a]	2,619	1,435	1,184
Other sources[b]	7,737	5,301	2,436
Total	10,356	6,736	3,620
Other removals—			
Growing stock[c]	6,776	1,332	5,445
Other sources[d]	11,891	937	10,954
Total	18,667	2,269	16,399
Total, all classes—			
Growing stock	35,294	20,181	15,113
Other sources	62,090	8,124	53,966
Total, all materials	97,384	28,305	69,079
Intermountain:			
Roundwood products—			
Growing stock	452,115	437,293	14,822
Other sources	167,212	137,240	29,972
Total	619,327	574,533	44,794
Logging residues—			
Growing stock[a]	44,585	43,650	935
Other sources[b]	105,322	102,278	3,043
Total	149,907	145,928	3,978

Table 40—(continued).

Region, subregion, class of material, and source of materials	Total	Species group	
		Softwoods	Hardwoods
	Thousand cubic feet		
Other removals—			
Growing stock[c]	0	0	0
Other sources[d]	0	0	0
Total	0	0	0
Total, all classes—			
Growing stock	496,700	480,943	15,757
Other sources	272,534	239,518	33,015
Total, all materials	769,234	720,461	48,772
Rocky Mountain total:			
Roundwood products—			
Growing stock	478,014	454,707	23,307
Other sources	209,675	139,127	70,548
Total	687,689	593,834	93,855
Logging residues—			
Growing stock[a]	47,204	45,085	2,119
Other sources[b]	113,059	107,579	5,480
Total	160,263	152,664	7,599
Other removals—			
Growing stock[c]	6,776	1,332	5,445
Other sources[d]	11,891	937	10,954
Total	18,667	2,269	16,399
Total, all classes—			
Growing stock	531,995	501,124	30,871
Other sources	334,624	247,643	86,981
Total, all materials	866,619	748,767	117,852
Pacific Coast:			
Alaska:			
Roundwood products—			
Growing stock	140,731	136,143	4,588
Other sources	5,327	3,953	1,375
Total	146,058	140,096	5,963
Logging residues—			
Growing stock[a]	40,696	40,061	635
Other sources[b]	30,911	30,448	462
Total	71,607	70,509	1,097
Other removals—			
Growing stock[c]	1,100	1,095	6
Other sources[d]	0	0	0
Total	1,100	1,095	6
Total, all classes—			
Growing stock	182,527	177,299	5,228
Other sources	36,238	34,401	1,837
Total, all materials	218,765	211,700	7,065

Table 40—(continued).

Region, subregion, class of material, and source of material	Total	Species group	
		Softwoods	Hardwoods
	Thousand cubic feet		
Pacific Northwest:			
Roundwood products—			
Growing stock	1,641,759	1,546,815	94,944
Other sources	126,020	111,954	14,066
Total	1,767,779	1,658,769	109,010
Logging residues—			
Growing stock[a]	78,206	74,059	4,147
Other sources[b]	80,307	77,161	3,146
Total	158,513	151,220	7,293
Other removals—			
Growing stock[c]	1,005	605	400
Other sources[d]	0	0	0
Total	1,005	605	400
Total, all classes—			
Growing stock	1,720,970	1,621,479	99,491
Other sources	206,327	189,115	17,212
Total, all materials	1,927,297	1,810,594	116,703
Pacific Southwest:			
Roundwood products—			
Growing stock	570,940	561,828	9,112
Other sources	156,742	110,961	45,781
Total	727,682	672,789	54,893
Logging residues—			
Growing stock[a]	57,094	56,183	911
Other sources[b]	43,684	43,683	0
Total	100,778	99,866	911
Other removals—			
Growing stock[c]	22	9	13
Other sources[d]	222	77	145
Total	244	86	158
Total, all classes—			
Growing stock	628,057	618,020	10,036
Other sources	200,648	154,721	45,926
Total, all materials	828,705	772,741	55,962
Pacific Coast total:			
Roundwood products—			
Growing stock	2,353,430	2,244,786	108,644
Other sources	288,089	226,868	61,222
Total	2,641,519	2,471,654	169,866
Logging residues—			
Growing stock[a]	175,996	170,303	5,693
Other sources[b]	154,902	151,293	3,609
Total	330,898	321,596	9,302
Other removals—			
Growing stock[c]	2,128	1,709	419
Other sources[d]	222	77	145
Total	2,350	1,786	564

Table 40—(continued).

Region, subregion, class of material, and source of materials	Total	Species group	
		Softwoods	Hardwoods
	Thousand cubic feet		
Total, all classes—			
Growing stock	2,531,554	2,416,798	114,756
Other sources	443,213	378,238	64,976
Total, all materials	2,974,767	2,795,036	179,732
United States:			
Roundwood products—			
Growing stock	13,809,951	9,101,582	4,708,369
Other sources	2,620,979	934,618	1,686,361
Total	16,430,930	10,036,200	6,394,730
Logging residues—			
Growing stock[a]	1,291,665	614,743	676,922
Other sources[b]	2,081,620	733,720	1,347,900
Total	3,373,285	1,348,463	2,024,822
Other removals—			
Growing stock[c]	919,129	348,207	570,922
Other sources[d]	467,498	99,745	367,753
Total	1,386,627	447,952	938,675
Total, all classes—			
Growing stock	16,020,745	10,064,531	5,956,214
Other sources	5,170,097	1,768,083	3,402,014
Total, all materials	21,190,842	11,832,614	9,358,228

[a] Growing-stock volume cut or knocked down during harvest but left at the harvest site.

[b] Wood volume other than growing stock cut or knocked down during harvest but left on the ground. This volume is net of wet rot or advanced dry rot, and excludes old punky logs; consists of material sound enough to chip; includes downed dead and cull trees, tops above the 4-inch growing-stock top, and smaller than 5 inches d.b.h.; excludes stumps and limbs.

[c] Growing-stock volume removed by cultural operations or timberland clearing.

[d] Wood volume other than growing stock removed by cultural operations or timberland clearing. This volume is net of wet rot or advanced dry rot, and excludes old punky logs; consists of material sound enough to chip; includes downed dead and cull trees, tops above the 4-inch growing-stock top, and smaller than 5 inches dbh; excludes stumps and limbs.

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

Table 41—Weight of bark and wood residue from primary wood-using mills by type of material, species group, region, subregion, and type of use, 1996

Region, subregion, and type of use	Total residue			Bark residue			All materials			Coarse materials			Fine materials		
	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods
							Thousand dry tons								
North:															
Northeast:															
Fiber products	1,484	329	1,155	46	13	32	1,438	316	1,122	1,369	285	1,084	70	31	38
Fuel	1,971	397	1,574	317	70	247	1,654	327	1,327	997	215	782	656	112	544
Other uses	2,208	499	1,709	717	135	582	1,490	364	1,126	302	65	237	1,188	299	889
Not used	404	101	302	109	28	80	295	73	222	158	44	114	137	29	108
Total	6,067	1,326	4,740	1,189	246	941	4,877	1,080	3,797	2,826	609	2,217	2,051	471	1,579
North Central:															
Fiber products	1,542	236	1,307	47	1	45	1,496	234	1,261	1,406	215	1,191	90	19	70
Fuel	3,711	670	3,041	1,795	381	1,414	1,916	289	1,627	876	69	807	1,040	220	820
Other uses	2,239	160	2,079	853	64	789	1,386	97	1,290	606	50	557	780	47	733
Not used	357	58	299	101	20	81	256	37	218	78	12	66	178	26	152
Total	7,849	1,124	6,726	2,796	466	2,329	5,054	657	4,396	2,966	346	2,621	2,088	312	1,775
North total:															
Fiber products	3,026	565	2,461	92	14	78	2,934	551	2,383	2,775	500	2,275	159	50	109
Fuel	5,682	1,067	4,615	2,112	452	1,661	3,570	616	2,954	1,873	284	1,590	1,697	332	1,365
Other uses	4,447	660	3,787	1,570	199	1,371	2,877	461	2,416	909	114	794	1,968	346	1,622
Not used	761	159	602	210	49	161	551	110	441	236	56	180	314	54	260
Total	13,916	2,451	11,465	3,984	714	3,271	9,932	1,738	8,194	5,793	954	4,839	4,138	782	3,356
South:															
Southeast:															
Fiber products	8,827	7,344	1,483	2	0	2	8,825	7,344	1,481	7,376	5,951	1,425	1,450	1393	56
Fuel	10,132	7,131	3,001	5,241	3,618	1,623	4,891	3,513	1,378	654	367	288	4,237	3,146	1,091
Other uses	2,785	2,229	556	1,278	915	363	1,507	1,315	193	522	456	65	986	858	127
Not used	194	97	98	58	34	24	136	63	74	58	28	31	78	35	43
Total	21,938	16,801	5,138	6,579	4,567	2,012	15,359	12,235	3,126	8,610	6,802	1,809	6,751	5,432	1,317
South Central:															
Fiber products	11,143	8,869	2,274	7	0	7	11,136	8,869	2,267	10,240	8,006	2,234	897	863	34
Fuel	15,372	10,335	5,038	7,391	4,739	2,652	7,981	5,595	2,386	1442	728	714	6,539	4,867	1,672
Other uses	3,423	2,198	1,224	1,096	665	431	2,327	1,533	794	683	408	274	1,644	1125	519
Not used	541	212	329	114	48	67	427	164	262	159	32	127	268	132	136
Total	30,479	21,614	8,865	8,608	5,452	3,157	21,871	16,161	5,709	12,524	9,174	3,349	9,348	6,987	2,361
South total:															
Fiber products	19,970	16,213	3,757	9	0	9	19,962	16,213	3,748	17,615	13,957	3,658	2,346	2,256	90
Fuel	25,505	17,466	8,039	12,632	8,357	4,275	12,873	9,109	3,764	2,097	1,095	1,002	10,776	8,014	2,762
Other uses	6,208	4,427	1,780	2,374	1,580	794	3,834	2,848	986	1,204	865	340	2,630	1,983	647
Not used	735	308	427	172	82	91	563	227	336	217	60	158	345	167	179
Total	52,418	38,414	14,003	15,187	10,019	5,169	37,232	28,397	8,834	21,133	15,977	5,158	16,097	12,420	3,678

Table 41—(continued).

Region, subregion and type of use	Total residue			Bark residue			All materials			Coarse materials			Fine materials		
	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods
							Thousand dry tons								
Rocky Mountain:															
Great Plains:															
Fiber products	79	74	5	0	0	0	79	74	5	65	60	5	14	14	0
Fuel	58	46	12	32	29	3	26	16	9	14	7	7	12	10	2
Other uses	59	4	55	16	2	13	44	2	42	24	1	23	20	1	19
Not used	22	8	13	6	3	3	15	5	10	8	2	7	7	3	4
Total	218	132	85	54	34	19	164	97	66	111	70	42	53	28	25
Intermountain:															
Fiber products	4,284	4,280	4	0	0	0	4,284	4,280	4	3,281	3,277	4	1,003	1,003	0
Fuel	2,471	2,466	4	1,234	1,233	1	1,237	1233	4	192	191	1	1,045	1,043	3
Other uses	392	388	3	113	112	1	278	276	2	75	75	0	203	201	2
Not used	267	264	3	143	142	1	124	123	2	72	71	1	52	52	0
Total	7,414	7,398	14	1,490	1,487	3	5,923	5,912	12	3,620	3,614	6	2,303	2,299	5
Rocky Mountain total:															
Fiber products	4,363	4,354	9	0	0	0	4,363	4,354	9	3,345	3,336	9	1017	1017	0
Fuel	2,528	2,512	17	1266	1262	4	1,263	1,250	13	206	197	9	1057	1053	4
Other uses	451	393	58	129	115	14	322	278	44	99	76	23	223	202	20
Not used	289	273	16	149	145	4	140	128	12	81	72	8	59	55	4
Total	7,631	7,532	100	1,544	1,522	22	6,088	6,010	78	3,731	3,681	49	2,356	2,327	28
Pacific Coast:															
Alaska:															
Fiber products	90	90	0	0	0	0	90	90	0	90	90	0	0	0	0
Fuel	36	36	0	0	0	0	36	36	0	10	10	0	25	25	0
Other uses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not used	115	110	5	91	90	2	24	20	4	17	14	3	7	6	1
Total	241	236	5	91	90	2	150	146	4	117	114	3	32	31	1

Table 41—(continued).

Region, subregion and type of use	Total residue			Bark residue			All materials			Coarse materials			Fine materials		
	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods
							Thousand dry tons								
Pacific Northwest:															
Fiber products	7,304	6,987	317	1	1	0	7,303	6,986	316	5,062	4,772	291	2,240	2,215	26
Fuel	3,986	3,606	380	2,385	2,221	165	1,601	1,385	216	561	443	119	1,039	942	97
Other uses	1,219	1,110	109	335	305	31	884	805	79	600	566	34	284	239	45
Not used	15	15	0	7	7	0	7	7	0	4	4	0	4	4	0
Total	12,524	11,718	806	2,728	2,534	196	9,795	9,183	611	6,227	5,785	444	3,567	3,400	168
Pacific Southwest:															
Fiber products	2,147	2,144	3	15	15	0	2,132	2,129	3	1,592	1,589	3	540	540	0
Fuel	2,286	2,284	1	850	849	1	1,436	1,436	0	544	544	0	892	891	0
Other uses	382	382	0	119	119	0	263	263	0	88	88	0	175	175	0
Not used	8	8	0	8	8	0	0	0	0	0	0	0	0	0	0
Total	4,823	4,818	4	992	991	1	3,831	3,828	3	2,224	2,221	3	1,607	1,606	0
Pacific Coast total:															
Fiber products	9,541	9,221	320	16	15	0	9,525	9,205	320	6,744	6,450	294	2,781	2,755	26
Fuel	6,308	5,926	382	3,235	3,069	166	3,072	2,856	216	1,116	997	119	1,956	1,859	97
Other uses	1,602	1,492	110	454	424	31	1,147	1,068	79	688	654	34	459	414	45
Not used	139	133	5	107	106	2	31	28	4	20	17	3	11	10	1
Total	17,590	16,772	817	3,812	3,614	199	13,775	13,157	619	8,568	8,118	450	5,207	5,038	169
United States:															
Fiber products	36,900	30,353	6,547	117	30	87	36,783	30,323	6,460	30,480	24,244	6,236	6,303	6,079	224
Fuel	40,023	26,971	13,052	19,246	13,140	6,105	20,777	13,830	6,947	5,292	2,573	2,719	15,486	11,258	4,228
Other uses	12,707	6,972	5,735	4,527	2,317	2,210	8,180	4,655	3,525	2,901	1,709	1,192	5,279	2,946	2,333
Not used	1,923	873	1,050	638	381	258	1,285	492	792	555	206	349	730	287	443
Total	91,553	65,169	26,384	24,528	15,868	8,660	67,025	49,300	17,724	39,228	28,732	10,496	27,798	20,570	7,228

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

Table B1—Net volume of softwood sawtimber on timberland in the United States by ownership group, region, subregion, and State, 1997, 1987, 1977, 1963, and 1953

Region, subregion, and State	All owners					National forest					Other public[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
	Million board feet, International 1/4-inch rule														
North:															
Northeast:															
Connecticut	1,554	1,464	1,306	355	264	0	0	0	0	0	161	266	136	32	24
Delaware	512	523	408	490	539	0	0	0	0	0	24	23	21	6	7
Maine	29,859	32,859	25,232	20,144	17,233	162	51	43	39	36	1,473	1,304	301	234	229
Maryland	2,260	2,250	1,727	1,630	1,472	0	0	0	0	0	244	242	121	63	57
Massachusetts	5,582	5,719	4,168	2,534	1,299	0	0	0	0	0	831	910	779	247	127
New Hampshire	12,665	9,481	8,607	5,977	5,381	897	929	580	653	588	1,288	723	158	169	152
New Jersey	1,118	1,236	574	557	407	0	0	0	0	0	438	501	147	50	37
New York	18,144	14,017	7,771	6,769	6,311	23	2	0	0	0	2,465	1,759	660	575	536
Pennsylvania	7,190	5,485	3,714	3,222	2,988	198	174	135	125	116	1,212	866	555	481	446
Rhode Island	125	187	288	43	29	0	0	0	0	0	21	86	6	3	2
Vermont	8,686	5,117	4,200	2,776	3,270	203	123	65	76	89	444	328	225	108	127
West Virginia	3,869	2,754	2,901	1,460	1,394	1,051	492	819	404	386	245	88	53	106	101
Total	91,564	81,092	60,896	45,957	40,587	2,534	1,771	1,642	1,297	1,215	8,845	7,096	3,162	2,074	1,845
North Central:															
Illinois	338	338	236	80	31	96	96	63	13	2	130	130	79	1	0
Indiana	1,005	617	255	140	78	120	62	14	8	2	138	65	74	40	47
Iowa	33	19	14	7	6	0	0	0	0	0	0	0	0	0	0
Michigan	22,783	18,442	13,974	9,119	5,929	4,550	3,587	2,186	1,012	428	6,038	4,907	3,567	2,207	1,335
Minnesota	12,411	11,196	8,531	6,133	4,713	3,066	2,367	2,551	1,233	1,006	4,887	4,941	3,355	2,976	2,030
Missouri	2,754	2,073	1,293	924	684	1,083	1,043	697	568	347	222	96	41	17	12
Ohio	1,050	976	886	343	326	98	48	45	22	21	113	85	89	33	31
Wisconsin	14,691	11,594	9,183	5,463	4,494	2,310	2,086	1,092	650	346	3,125	3,360	1,974	1,175	1,609
Total	55,064	45,255	34,372	22,209	16,261	11,323	9,289	6,648	3,506	2,152	14,653	13,584	9,179	6,449	5,064
North total:	146,628	126,347	95,268	68,166	56,848	13,857	11,060	8,290	4,803	3,367	23,498	20,680	12,341	8,523	6,909
South:															
Southeast:															
Florida	28,312	28,369	25,278	19,623	15,919	3,362	3,036	2,596	1,826	1,566	5,793	4,520	2,489	1,278	1,014
Georgia	53,244	53,496	50,456	38,410	33,968	2,200	1,577	1,895	1,506	1,427	5,419	4,176	3,318	3,174	2,650
North Carolina	44,048	42,642	38,529	31,419	29,210	2,400	2,214	1,890	1,194	1,080	2,769	2,047	1,308	1,100	877
South Carolina	29,381	34,079	28,030	19,129	15,450	2,607	3,518	2,819	2,152	1,455	2,431	2,379	1,477	991	480
Virginia	19,881	18,686	17,441	15,010	14,852	1,255	1,150	1,107	883	873	1,270	1,132	892	726	719
Total	174,866	177,272	159,734	123,591	109,399	11,822	11,495	10,307	7,561	6,401	17,681	14,254	9,484	7,269	5,740
South Central:															
Alabama	42,814	39,787	43,207	32,556	21,273	2,640	2,789	2,486	1,786	1,101	1,253	936	876	589	301
Arkansas	39,484	35,701	29,783	21,945	17,366	8,444	6,639	5,263	4,051	3,346	1,436	1,050	620	195	158
Kentucky	2,751	2,464	2,092	1,309	1,608	465	407	438	334	410	107	10	8	13	17
Louisiana	44,944	45,446	38,380	26,658	19,518	4,031	3,986	3,585	2,239	1,292	1,732	1,277	996	442	325
Mississippi	39,338	38,427	35,369	20,008	13,902	7,466	7,487	6,363	5,030	2,899	2,703	1,156	1,739	760	1,180
Oklahoma	4,239	3,680	3,576	2,262	1,771	930	712	510	418	307	262	198	145	8	7
Tennessee	9,614	8,661	5,724	3,997	3,412	1,302	1,381	914	929	814	1,245	1,006	600	286	310
Texas	35,133	36,887	36,052	24,436	15,967	6,403	6,782	5,420	5,390	2,759	665	842	757	272	149
Total	218,316	211,053	194,183	133,171	94,817	31,681	30,183	24,979	20,177	12,928	9,403	6,475	5,741	2,565	2,447
South total:	393,182	388,325	353,917	256,762	204,216	43,503	41,678	35,286	27,738	19,329	27,085	20,729	15,225	9,834	8,187

Table B1—(continued).

Region, subregion, and State	All owners					National forest					Other public[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
	Million board feet, International 1/4-inch rule														
Rocky Mountain:															
Great Plains:															
Kansas	31	14	1	0	0	0	0	0	0	0	1	0	0	0	0
Nebraska	811	759	617	403	260	227	104	93	76	64	98	84	64	34	14
North Dakota	5	7	0	0	0	1	0	0	0	0	0	0	0	0	0
South Dakota	4,779	6,027	5,664	5,330	5,088	3,882	4,395	4,691	4,539	4,381	178	454	330	221	199
Total	5,626	6,807	6,282	5,733	5,348	4,110	4,499	4,784	4,615	4,445	276	538	394	255	213
Intermountain:															
Arizona	25,991	29,102	22,063	22,218	22,714	17,874	20,703	14,977	14,707	14,494	231	8,190	6,727	7,131	7,804
Colorado	56,422	61,652	50,685	49,966	47,599	41,181	46,364	39,485	39,329	37,598	4,787	4,768	2,568	2,439	2,293
Idaho	164,580	139,582	139,049	139,794	137,701	126,831	101,659	95,430	93,731	89,475	14,663	16,177	14,425	14,472	15,060
Montana	131,842	91,678	96,238	110,222	105,498	98,341	59,383	60,061	69,792	64,182	8,740	9,508	9,219	9,379	9,142
Nevada	1,614	2,059	1,363	1,362	1,328	742	1,164	417	441	411	271	58	51	50	50
New Mexico	20,669	23,842	24,347	25,168	25,421	13,244	16,371	12,473	12,847	12,254	486	2,884	5,877	6,098	6,517
Utah	23,596	14,631	14,357	15,325	15,542	18,534	11,154	11,258	11,904	11,520	1,700	1,415	1,686	1,861	2,188
Wyoming	26,707	24,358	26,683	20,489	19,947	19,770	17,421	21,968	16,032	15,891	2,272	2,793	1,952	1,845	1,679
Total	451,419	386,904	374,785	384,544	375,750	336,518	274,219	256,069	258,783	245,825	33,150	45,793	42,505	43,275	44,733
Rocky Mountain total:	457,045	393,711	381,067	390,277	381,098	340,628	278,718	260,853	263,398	250,270	33,426	46,331	42,899	43,530	44,946
Pacific Coast:															
Alaska:															
Alaska	140,563	168,317	216,041	223,734	224,187	90,976	111,002	161,918	175,094	178,182	22,244	26,743	51,359	47,484	45,059
Total	140,563	168,317	216,041	223,734	224,187	90,976	111,002	161,918	175,094	178,182	22,244	26,743	51,359	47,484	45,059
Pacific Northwest:															
Oregon	462,689	384,260	414,186	485,086	530,601	301,502	227,902	252,804	274,650	267,197	75,831	77,128	72,607	79,726	92,373
Washington	334,471	319,481	313,300	345,226	361,086	165,201	125,918	133,819	149,351	152,947	53,553	73,168	67,715	70,386	70,555
Total	797,160	703,741	727,486	830,312	891,687	466,703	353,820	386,623	424,001	420,144	129,384	150,296	140,322	150,112	162,928
Pacific Southwest:															
California	297,093	289,175	255,594	299,247	337,797	188,362	182,721	157,958	171,879	176,982	7,792	7,314	6,356	7,955	10,952
Hawaii	18	18	17	16	17	0	0	0	0	0	12	12	11	11	11
Total	297,111	289,193	255,611	299,263	337,814	188,362	182,721	157,958	171,879	176,982	7,804	7,326	6,367	7,966	10,963
Pacific Coast total:	1,234,833	1,161,251	1,199,138	1,353,309	1,453,329	746,042	618,323	706,499	770,974	775,308	159,433	184,365	198,048	205,562	218,591
United States:	2,231,688	2,069,634	2,029,390	2,068,514	2,095,491	1,144,030	949,779	1,010,928	1,066,913	1,048,274	243,442	272,105	268,513	267,449	278,633

Table B1—(continued).

Region, subregion, and State	Forest Industry					Nonindustrial private[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
	Million board feet, International 1/4-inch rule									
North:										
Northeast:										
Connecticut	0	0	0	0	0	1,393	1,198	1,170	323	240
Delaware	15	15	77	40	37	473	485	310	444	495
Maine	11,434	16,900	13,570	8,475	7,237	16,790	14,604	11,318	11,396	9,731
Maryland	166	166	224	135	122	1,849	1,842	1,382	1,432	1,293
Massachusetts	283	222	85	214	110	4,468	4,587	3,304	2,073	1,062
New Hampshire	575	891	1,318	1,016	915	9,906	6,938	6,551	4,139	3,726
New Jersey	0	0	0	1	1	680	735	427	506	369
New York	1,093	1,100	855	745	695	14,562	11,156	6,256	5,449	5,080
Pennsylvania	233	263	144	125	116	5,548	4,182	2,880	2,491	2,310
Rhode Island	0	0	0	0	0	104	101	282	40	27
Vermont	229	334	488	399	470	7,810	4,332	3,422	2,193	2,584
West Virginia	207	405	307	53	51	2,366	1,769	1,722	897	856
Total	14,235	20,296	17,068	11,203	9,754	65,950	51,929	39,024	31,383	27,773
North Central:										
Illinois	0	0	1	2	2	112	112	93	64	27
Indiana	0	0	1	1	0	746	490	166	91	29
Iowa	0	0	0	0	0	33	19	14	7	6
Michigan	2,574	2,813	2,611	2,079	1,836	9,621	7,135	5,610	3,821	2,330
Minnesota	778	936	597	531	480	3,679	2,952	2,028	1,393	1,197
Missouri	135	71	35	24	19	1,315	863	520	315	306
Ohio	65	0	0	18	17	774	843	752	270	257
Wisconsin	998	1,246	1,982	1,180	301	8,258	4,902	4,135	2,458	2,238
Total	4,550	5,066	5,227	3,835	2,655	24,538	17,316	13,318	8,419	6,390
North total:	18,784	25,362	22,295	15,038	12,409	90,488	69,245	52,342	39,802	34,163
South:										
Southeast:		0	0	0	0		0	0	0	0
Florida	5,334	6,366	7,868	6,286	4,990	13,824	14,447	12,325	10,233	8,349
Georgia	7,954	9,531	8,452	7,245	6,420	37,671	38,212	36,791	26,485	23,471
North Carolina	5,015	4,372	3,628	4,870	4,966	33,865	34,009	31,703	24,255	22,287
South Carolina	4,674	5,594	4,359	3,551	2,783	19,669	22,588	19,375	12,435	10,732
Virginia	2,561	2,749	2,799	2,597	2,569	14,796	13,655	12,643	10,804	10,691
Total	25,538	28,612	27,106	24,549	21,728	119,824	122,911	112,837	84,212	75,530
South Central:										
Alabama	10,451	9,667	11,683	9,672	6,275	28,471	26,395	28,162	20,509	13,596
Arkansas	13,624	14,385	13,181	13,309	11,617	15,979	13,627	10,719	4,390	2,245
Kentucky	30	15	15	39	48	2,149	2,032	1,631	923	1,133
Louisiana	11,424	11,863	11,653	11,055	9,144	27,757	28,320	22,146	12,922	8,757
Mississippi	6,726	6,741	6,392	5,290	6,571	22,443	23,043	20,875	8,928	3,252
Oklahoma	1,256	1,264	1,924	1,463	1,241	1,791	1,506	997	373	216
Tennessee	750	912	612	276	258	6,317	5,362	3,598	2,506	2,030
Texas	7,584	9,878	14,511	11,487	7,995	20,481	19,385	15,364	7,287	5,064
Total	51,844	54,725	59,971	52,591	43,149	125,387	119,670	103,492	57,838	36,293
South total:	77,382	83,337	87,077	77,140	64,877	245,211	242,581	216,329	142,050	111,823

Table B1—(continued).

Region, subregion, and State	Forest Industry					Nonindustrial private[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
	Million board feet, International 1/4-inch rule									
Rocky Mountain:										
Great Plains:										
Kansas	0	0	0	0	0	30	14	1	0	0
Nebraska	0	0	0	0	0	486	571	460	293	182
North Dakota	0	0	0	0	0	5	7	0	0	0
South Dakota	0	50	63	35	32	718	1,128	580	535	476
Total	0	50	63	35	32	1,239	1,720	1,041	828	658
Intermountain:										
Arizona	0	0	0	0	0	7,886	209	359	380	416
Colorado	0	0	75	71	67	10,453	10,520	8,557	8,127	7,641
Idaho	10,485	9,888	13,290	16,090	17,664	12,600	11,858	15,904	15,501	15,502
Montana	7,673	11,052	9,526	13,484	15,173	17,088	11,735	17,432	17,567	17,001
Nevada	125	0	86	84	84	476	837	809	787	783
New Mexico	0	13	0	447	477	6,939	4,574	5,997	5,776	6,173
Utah	0	0	0	0	0	3,361	2,062	1,413	1,560	1,834
Wyoming	0	175	220	208	189	4,665	3,969	2,543	2,404	2,188
Total	18,283	21,128	23,197	30,384	33,654	63,468	45,764	53,014	52,102	51,538
Rocky Mountain total:	18,283	21,178	23,260	30,419	33,686	64,708	47,484	54,055	52,930	52,196
Pacific Coast:										
Alaska:										
Alaska	0	0	0	0	0	27,342	30,572	2,764	1,156	946
Total	0	0	0	0	0	27,342	30,572	2,764	1,156	946
Pacific Northwest:										
Oregon	49,202	50,525	65,030	96,680	128,081	36,154	28,705	23,745	34,030	42,950
Washington	61,055	77,732	75,974	93,443	108,184	54,409	42,663	35,792	32,046	29,400
Total	110,257	128,257	141,004	190,123	236,265	90,563	71,368	59,537	66,076	72,350
Pacific Southwest:										
California	47,598	44,176	40,883	51,532	63,406	53,341	54,964	50,397	67,881	86,457
Hawaii	0	0	0	0	0	6	6	6	5	6
Total	47,598	44,176	40,883	51,532	63,406	53,347	54,970	50,403	67,886	86,463
Pacific Coast total:	157,855	172,433	181,887	241,655	299,671	171,252	156,910	112,704	135,118	159,759
United States:	272,305	302,310	314,519	364,252	410,643	571,659	516,220	435,430	369,900	357,941

[a] Native American lands are included exclusively in the nonindustrial private owner group for 1997 only. For 1987 and earlier years, these lands may be included in the other public owner group.

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

Table B2—Net volume of hardwood sawtimber on timberland in the United States by ownership group, region, subregion, and State, 1997, 1987, 1977, 1963, and 1953

Region, subregion, and State	All owners					National forest					Other public[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
	Million board feet, International 1/4-inch rule														
North:															
Northeast:															
Connecticut	5,965	6,138	4,565	2,961	1,596	0	0	0	0	0	1,045	986	359	251	135
Delaware	1,288	1,251	985	734	573	0	0	0	0	0	123	49	41	8	7
Maine	17,107	13,987	10,887	10,556	9,807	81	32	103	41	42	689	447	103	97	98
Maryland	11,139	11,160	6,440	5,462	5,042	0	0	0	0	0	1,202	1,218	576	294	271
Massachusetts	6,340	5,878	3,700	1,892	1,360	0	0	0	0	0	1,231	995	425	170	122
New Hampshire	10,516	8,267	5,958	4,652	3,075	1,529	1,767	1,322	1,701	1,124	786	429	207	91	60
New Jersey	4,653	2,742	2,553	2,395	2,325	0	0	0	0	0	1,057	737	356	67	65
New York	43,623	35,395	18,318	16,972	16,096	56	13	0	0	0	3,623	3,066	1,258	1,166	1,106
Pennsylvania	59,357	46,238	30,538	21,908	16,671	3,345	3,318	2,039	917	698	12,459	9,021	5,871	4,212	3,205
Rhode Island	683	729	408	308	137	0	0	0	0	0	154	204	27	40	18
Vermont	14,262	8,727	6,192	4,124	4,626	941	822	355	422	473	1,546	1,090	335	196	220
West Virginia	54,570	30,070	26,033	20,887	22,716	5,308	3,895	3,585	1,883	2,048	2,502	1,004	509	736	801
Total	229,502	170,582	116,577	92,851	84,024	11,259	9,847	7,404	4,964	4,385	26,416	19,246	10,067	7,328	6,108
North Central:															
Illinois	17,158	17,156	14,665	10,931	9,488	924	924	738	459	245	962	962	658	202	133
Indiana	25,243	18,600	10,713	10,665	8,754	1,111	770	344	341	165	2,741	1,930	787	789	607
Iowa	5,758	4,264	3,406	4,540	5,054	0	0	0	9	4	615	502	376	174	67
Michigan	48,422	34,049	29,155	23,365	16,764	4,970	3,519	2,492	1,612	865	7,754	5,320	5,250	4,720	3,070
Minnesota	22,854	19,801	16,077	8,742	6,272	2,503	1,612	1,740	608	312	7,254	6,575	5,023	2,759	1,552
Missouri	23,118	19,237	13,978	13,516	13,418	2,363	2,290	1,563	1,199	751	1,341	730	407	205	215
Ohio	29,402	21,382	19,530	13,147	11,039	932	654	609	318	267	1,807	1,173	1,232	817	686
Wisconsin	33,416	27,344	20,614	13,206	10,259	2,770	1,942	1,084	687	687	4,867	4,655	2,672	1,717	1,672
Total	205,370	161,833	128,138	98,112	81,048	15,572	11,711	8,570	5,233	3,296	27,341	21,847	16,405	11,383	8,002
North total:	434,873	332,415	244,715	190,963	165,072	26,832	21,558	15,974	10,197	7,681	53,757	41,093	26,472	18,711	14,110
South:															
Southeast:															
Florida	16,976	16,498	13,563	11,572	10,347	665	573	509	373	281	3,180	2,383	634	282	217
Georgia	51,236	41,182	34,522	27,453	24,324	3,016	2,682	2,507	2,361	2,092	2,928	1,586	1,213	767	681
North Carolina	62,541	59,920	49,712	38,137	35,659	6,402	6,335	4,495	3,624	2,710	2,149	1,673	1,056	991	570
South Carolina	25,874	26,700	20,416	15,695	14,259	1,155	1,278	951	601	409	1,093	948	671	408	261
Virginia	60,371	55,204	45,490	34,124	30,747	6,548	5,752	4,780	2,522	2,273	3,107	2,344	1,933	679	612
Total	216,997	199,504	163,703	126,981	115,336	17,787	16,620	13,242	9,481	7,765	12,457	8,934	5,507	3,127	2,341
South Central:															
Alabama	33,362	24,726	21,931	18,443	18,194	1,101	762	584	519	421	1,475	862	516	369	247
Arkansas	37,476	28,807	20,234	22,828	25,033	5,634	3,587	2,570	2,509	1,509	4,251	2,300	1,424	1,851	1,086
Kentucky	42,877	31,682	26,850	19,897	21,312	2,795	1,625	1,570	685	734	1,582	772	713	724	776
Louisiana	30,581	25,290	24,171	26,486	22,423	1,160	808	670	345	209	2,676	2,221	1,058	523	402
Mississippi	37,851	30,141	25,326	16,081	16,839	2,632	2,181	1,655	874	314	3,168	1,259	1,276	525	508
Oklahoma	5,946	3,008	2,491	1,844	1,988	194	274	246	97	74	470	440	292	70	74
Tennessee	43,957	34,795	25,173	19,430	18,132	2,309	1,827	1,334	1,071	784	3,753	2,253	1,529	1,076	975
Texas	15,578	15,122	13,987	8,616	10,026	808	607	403	586	447	346	304	236	104	85
Total	247,628	193,571	160,163	133,625	133,947	16,633	11,671	9,032	6,686	4,492	17,721	10,411	7,044	5,242	4,153
South total:	464,625	393,075	323,866	260,606	249,283	34,420	28,291	22,274	16,167	12,257	30,179	19,345	12,551	8,369	6,494
Rocky Mountain:															
Great Plains:															
Kansas	4,363	2,976	2,019	1,795	1,707	0	0	0	0	0	236	174	91	81	62
Nebraska	2,550	1,185	1,153	1,103	1,071	0	5	4	1	0	211	65	55	40	30
North Dakota	820	569	474	456	509	1	0	0	0	0	91	67	146	141	157
South Dakota	539	205	401	243	215	3	5	7	5	5	31	36	54	33	29
Total	8,271	4,935	4,047	3,597	3,502	5	10	11	6	5	569	342	346	295	278

Table B2—(continued).

Region, subregion, and State	All owners					National forest					Other public[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
	Million board feet, International 1/4-inch rule														
Intermountain:															
Arizona	1,162	1,277	648	646	572	451	629	424	434	376	0	648	100	94	87
Colorado	7,637	5,460	4,257	3,833	3,518	5,478	3,295	3,021	2,677	2,465	417	437	280	262	239
Idaho	1,165	983	568	738	763	293	220	105	225	209	203	276	165	164	159
Montana	1,324	1,284	1,097	1,078	1,018	281	93	85	84	76	67	117	271	263	248
Nevada	49	38	25	27	24	35	36	25	27	24	13	2	0	0	0
New Mexico	1,468	1,292	1,573	1,506	1,372	983	974	463	448	385	39	47	95	91	85
Utah	2,566	1,441	1,209	1,475	1,417	1,924	878	785	1,054	1,000	230	163	133	132	131
Wyoming	683	517	397	320	291	262	96	106	46	43	88	88	111	104	95
Total	16,054	12,292	9,774	9,623	8,975	9,708	6,221	5,014	4,995	4,578	1,059	1,778	1,155	1,110	1,044
Rocky Mountain total:	24,326	17,227	13,821	13,220	12,477	9,713	6,231	5,025	5,001	4,583	1,628	2,120	1,501	1,405	1,322
Pacific Coast:															
Alaska:															
Alaska	6,224	7,827	9,883	10,038	10,164	574	492	835	873	872	3,190	2,937	8,794	8,986	9,206
Total	6,224	7,827	9,883	10,038	10,164	574	492	835	873	872	3,190	2,937	8,794	8,986	9,206
Pacific Northwest:															
Oregon	21,303	19,384	16,986	19,635	15,801	5,182	4,689	4,739	4,488	3,617	5,438	3,863	4,024	2,672	2,002
Washington	25,862	24,771	16,996	11,839	7,941	1,380	1,484	638	663	524	5,448	4,718	3,110	2,061	1,292
Total	47,165	44,155	33,982	31,474	23,742	6,562	6,173	5,377	5,151	4,141	10,886	8,581	7,134	4,733	3,294
Pacific Southwest:															
California	22,453	22,792	8,075	5,725	5,575	8,205	9,765	2,955	2,237	2,274	604	1,447	572	403	474
Hawaii	1,178	1,178	1,030	722	722	0	0	0	0	0	553	553	447	327	327
Total	23,631	23,970	9,105	6,447	6,297	8,205	9,765	2,955	2,237	2,274	1,157	2,000	1,019	730	801
Pacific Coast total:	77,019	75,952	52,970	47,959	40,203	15,340	16,430	9,167	8,261	7,287	15,232	13,518	16,947	14,449	13,301
United States:	1,000,842	818,669	635,372	512,748	467,035	86,304	72,510	52,440	40,346	31,808	100,797	76,076	57,471	42,934	35,227

Table B2—(continued).

Region, subregion, and State	Forest Industry					Nonindustrial private[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
	Million board feet, International 1/4-inch rule									
North:										
Northeast:										
Connecticut	0	0	0	6	3	4,920	5,152	4,206	2,704	1,458
Delaware	2	23	13	60	39	1,163	1,179	931	666	527
Maine	7,852	7,803	6,347	4,421	4,102	8,485	5,705	4,334	5,997	5,565
Maryland	262	257	148	55	51	9,674	9,685	5,716	5,113	4,720
Massachusetts	199	193	30	161	116	4,910	4,690	3,245	1,561	1,122
New Hampshire	821	1,187	1,061	561	371	7,380	4,884	3,368	2,299	1,520
New Jersey	0	0	45	5	5	3,597	2,005	2,152	2,323	2,255
New York	4,120	3,096	2,064	1,912	1,813	35,823	29,220	14,996	13,894	13,177
Pennsylvania	2,898	3,055	1,284	921	701	40,655	30,844	21,344	15,858	12,067
Rhode Island	0	0	0	0	0	529	525	381	268	119
Vermont	590	776	1,170	760	853	11,184	6,039	4,332	2,746	3,080
West Virginia	4,537	3,240	2,591	1,200	1,305	42,224	21,931	19,348	17,068	18,562
Total	21,282	19,630	14,753	10,062	9,359	170,545	121,859	84,353	70,497	64,172
North Central:										
Illinois	61	61	54	45	61	15,209	15,209	13,215	10,225	9,049
Indiana	111	95	64	64	64	21,280	15,805	9,518	9,471	7,918
Iowa	0	0	38	14	19	5,143	3,762	2,992	4,343	4,964
Michigan	4,146	4,777	4,576	4,019	3,370	31,553	20,433	16,837	13,014	9,459
Minnesota	698	806	662	385	288	12,399	10,808	8,652	4,990	4,120
Missouri	354	423	373	188	215	19,060	15,794	11,635	11,924	12,237
Ohio	580	353	564	377	317	26,084	19,202	17,125	11,635	9,769
Wisconsin	2,105	1,991	2,263	1,453	708	23,673	18,756	14,595	9,349	7,192
Total	8,056	8,506	8,594	6,545	5,042	154,401	119,769	94,569	74,951	64,708
North total:	29,338	28,136	23,347	16,607	14,401	324,946	241,628	178,922	145,448	128,880
South:										
Southeast:		0	0	0	0		0	0	0	0
Florida	3,351	4,067	4,388	3,851	3,470	9,779	9,474	8,032	7,066	6,379
Georgia	5,850	7,122	5,988	3,845	3,405	39,441	29,792	24,814	20,480	18,146
North Carolina	4,051	4,690	3,822	3,890	5,100	49,938	47,222	40,339	29,632	27,279
South Carolina	3,912	4,957	3,843	3,075	2,375	19,714	19,517	14,951	11,611	11,214
Virginia	2,921	3,389	2,963	3,053	2,752	47,794	43,719	35,814	27,870	25,110
Total	20,086	24,225	21,004	17,714	17,102	166,667	149,724	123,950	96,659	88,128
South Central:										
Alabama	5,425	4,409	4,066	3,011	2,735	25,361	18,693	16,765	14,544	14,791
Arkansas	6,616	7,219	5,186	5,982	3,710	20,976	15,701	11,054	12,486	18,728
Kentucky	633	520	555	692	741	37,867	28,765	24,012	17,796	19,061
Louisiana	6,138	5,210	6,200	4,205	3,363	20,607	17,051	16,243	21,413	18,449
Mississippi	4,601	4,501	4,720	1,703	1,327	27,450	22,200	17,675	12,979	14,690
Oklahoma	279	330	487	244	261	5,003	1,965	1,466	1,433	1,579
Tennessee	2,715	2,930	2,406	1,233	951	35,181	27,784	19,904	16,050	15,422
Texas	4,025	3,858	4,025	2,406	2,489	10,399	10,353	9,323	5,520	7,005
Total	30,431	28,977	27,645	19,476	15,577	182,843	142,512	116,442	102,221	109,725
South total:	50,517	53,202	48,649	37,190	32,679	349,510	292,236	240,392	198,880	197,853
Rocky Mountain:										
Great Plains:										
Kansas	0	0	0	0	0	4,127	2,802	1,928	1,714	1,645
Nebraska	0	0	0	0	0	2,338	1,115	1,094	1,062	1,041
North Dakota	0	0	0	0	0	728	502	328	315	352
South Dakota	0	0	1	0	0	505	164	339	205	181
Total	0	0	1	0	0	7,697	4,583	3,689	3,296	3,219

Table B2—(continued).

Region, subregion, and State	Forest Industry					Nonindustrial private[a]				
	1997	1987	1977	1963	1953	1997	1987	1977	1963	1953
	Million board feet, International 1/4-inch rule									
Intermountain:										
Arizona	0	0	0	0	0	711	0	124	118	109
Colorado	0	0	1	1	1	1,742	1,728	955	893	813
Idaho	40	70	97	140	168	629	417	201	209	227
Montana	19	43	21	29	32	956	1,031	720	702	662
Nevada	0	0	0	0	0	0	0	0	0	0
New Mexico	0	2	0	50	46	446	269	1,015	917	856
Utah	0	0	0	0	0	412	400	291	289	286
Wyoming	0	0	3	3	2	333	333	177	167	151
Total	59	115	122	223	249	5,229	4,178	3,483	3,295	3,104
Rocky Mountain total:	59	115	123	223	249	12,926	8,761	7,172	6,591	6,323
Pacific Coast:										
Alaska:		0	0	0	0		0	0	0	0
Alaska	0	0	0	0	0	2,460	4,398	254	179	86
Total	0	0	0	0	0	2,460	4,398	254	179	86
Pacific Northwest:										
Oregon	4,367	4,509	3,909	5,023	4,093	6,317	6,323	4,314	7,452	6,089
Washington	7,524	8,382	5,753	3,770	2,319	11,576	10,187	7,495	5,345	3,806
Total	11,891	12,891	9,662	8,793	6,412	17,893	16,510	11,809	12,797	9,895
Pacific Southwest:										
California	4,139	3,311	1,206	896	714	10,368	8,269	3,342	2,189	2,113
Hawaii	0	0	0	0	0	625	625	583	395	395
Total	4,139	3,311	1,206	896	714	10,993	8,894	3,925	2,584	2,508
Pacific Coast total:	16,030	16,202	10,868	9,689	7,126	31,346	29,802	15,988	15,560	12,489
United States:	95,943	97,655	82,987	63,709	54,455	718,728	572,427	442,474	365,479	345,545

[a] Native American lands are included exclusively in the nonindustrial private owner group for 1997 only. For 1987 and earlier years, these lands may be included in the other public owner group.

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

Table B3—Net volume of softwood sawtimber on timberland in the Eastern United States by species, subregion, and State, 1997

Subregion and State	Total	Longleaf and slash pines	Loblolly and shortleaf pines	Other yellow pines	White and red pines	Jack pine	Spruce and balsam fir	Eastern hemlock	Cypress	Other soft-woods
					Million board feet, International 1/4-inch rule					
Northeast:										
Connecticut	1,554	0	0	12	662	0	0	869	0	11
Delaware	512	0	438	73	0	0	0	0	0	0
Maine	29,858	0	0	89	8,359	0	12,998	3,878	0	4,534
Maryland	2,260	0	1,404	641	96	0	3	84	15	16
Massachusetts	5,582	0	0	182	4,160	0	196	1,024	0	20
New Hampshire	12,665	0	0	121	7,736	0	2,227	2,534	0	47
New Jersey	1,118	0	76	765	81	0	0	39	0	156
New York	18,144	0	0	265	8,870	35	1,564	6,243	0	1,167
Pennsylvania	7,190	0	0	664	2,658	0	31	3,731	0	107
Rhode Island	125	0	0	15	108	0	0	0	0	2
Vermont	8,686	0	0	0	3,070	0	2,695	2,687	0	234
West Virginia	3,869	0	34	1,263	841	0	721	1,006	0	4
Total	91,564	0	1,952	4,092	36,641	35	20,434	22,095	15	6,299
North Central:										
Illinois	338	0	176	4	84	0	0	0	49	24
Indiana	1,005	0	161	356	333	19	0	0	16	120
Iowa	33	0	0	0	1	0	0	0	0	32
Michigan	22,783	0	0	176	8,796	1,479	3,961	3,168	0	5,202
Minnesota	12,411	0	0	8	3,834	1,719	3,754	0	0	3,096
Missouri	2,754	0	2,207	4	54	0	0	0	46	444
Ohio	1,050	0	23	447	512	0	0	46	0	22
Wisconsin	14,691	0	0	17	7,754	944	1,873	1,897	0	2,205
Total	55,064	0	2,567	1,014	21,369	4,161	9,588	5,110	111	11,145
Southeast:										
Florida	28,312	15,309	3,605	1,817	0	0	0	0	7,074	506
Georgia	53,244	13,756	32,102	2,855	1,600	0	0	45	2,780	107
North Carolina	44,048	2,063	28,112	7,115	3,331	0	66	986	2,067	307
South Carolina	29,382	3,384	21,906	1,828	233	0	0	62	1,827	142
Virginia	19,881	0	10,461	5,500	2,815	0	14	685	268	137
Total	174,866	34,512	96,186	19,115	7,979	0	80	1,779	14,016	1,200
South Central:										
Alabama	42,814	7,591	31,552	2,707	16	0	0	18	721	208
Arkansas	39,484	0	37,921	0	0	0	0	0	1,152	411
Kentucky	2,751	0	770	1,427	69	0	0	214	11	260
Louisiana	44,944	5,437	32,353	522	0	0	0	0	6,620	12
Mississippi	39,338	5,464	31,785	842	0	0	0	0	1,063	185
Oklahoma	4,239	0	4,120	0	0	0	0	0	12	108
Tennessee	9,614	0	3,510	3,545	1,187	0	0	590	414	369
Texas	35,133	1,276	33,213	0	0	0	0	0	495	149
Total	218,316	19,768	175,223	9,042	1,272	0	0	822	10,488	1,702
East Total:	539,809	54,279	275,928	33,262	67,261	4,196	30,102	29,806	24,629	20,346

Note: Data may not add to totals because of rounding. Volume by State in this table may differ slightly from volume by State in other tables because of rounding.

Table B4—Net volume of hardwood sawtimber on timberland in the Eastern United States by species, subregion, and State, 1997

Subregion and State	Total	Select white oaks	Select red oaks	Other white oaks	Other red oaks	Hickory	Yellow birch	Hard maple	Soft maple	Beech
					Million board feet, International 1/4-inch rule					
Northeast:										
Connecticut	5,964	517	1,480	90	799	300	68	262	1,290	114
Delaware	1,288	213	46	20	235	19	0	0	227	36
Maine	17,107	25	1,100	0	39	0	2,279	4,434	3,538	1,542
Maryland	11,139	1,216	975	693	1,645	352	10	130	1,241	522
Massachusetts	6,340	235	1,421	8	598	76	200	427	1,718	247
New Hampshire	10,516	187	2,109	7	203	49	1,025	1,761	2,021	968
New Jersey	4,653	463	511	355	707	117	5	105	450	115
New York	43,623	900	4,049	671	697	1,079	1,449	9,969	8,545	3,338
Pennsylvania	59,357	3,699	8,638	3,646	3,858	1,464	417	5,264	9,880	3,248
Rhode Island	683	74	170	0	193	3	1	2	118	30
Vermont	14,262	60	948	58	6	58	1,157	5,231	2,283	1,239
West Virginia	54,570	5,211	6,017	4,980	5,621	3,131	345	2,751	3,239	3,027
Total	229,502	12,799	27,463	10,528	14,599	6,649	6,955	30,336	34,551	14,426
North Central:										
Illinois	17,157	3,852	1,402	488	3,091	1,558	0	533	1,233	55
Indiana	25,243	3,230	1,700	651	2,649	2,675	0	2,218	1,072	666
Iowa	5,758	1,239	810	3	342	329	0	168	584	0
Michigan	48,422	2,663	5,519	0	1,324	450	1,479	9,330	7,733	1,679
Minnesota	22,854	1,829	2,644	0	125	50	75	815	506	0
Missouri	23,118	6,680	1,387	1,797	7,452	1,835	0	140	409	2
Ohio	29,402	3,406	2,044	1,075	2,413	2,529	1	2,226	2,482	1,645
Wisconsin	33,416	2,998	5,998	0	1,932	410	709	5,052	3,371	175
Total	205,370	25,897	21,503	4,014	19,327	9,837	2,265	20,482	17,390	4,223
Southeast:										
Florida	16,976	105	6	1,979	4,480	448	0	44	1,162	25
Georgia	51,236	4,993	1,481	3,728	13,815	2,411	0	46	2,194	264
North Carolina	62,541	6,821	3,899	4,688	8,249	2,817	186	519	4,709	1,048
South Carolina	25,874	2,307	833	973	5,315	1,118	0	15	1,404	106
Virginia	60,371	8,931	5,518	7,347	8,070	3,534	50	685	3,187	1,622
Total	216,997	23,157	11,737	18,716	39,930	10,327	235	1,310	12,657	3,065
South Central:										
Alabama	33,362	3,488	1,490	2,338	8,197	3,260	0	69	388	388
Arkansas	37,476	5,700	4,044	3,473	9,228	3,170	0	128	240	277
Kentucky	42,877	6,336	2,785	3,787	6,393	4,338	1	1,944	1,694	2,825
Louisiana	30,581	1,518	1,568	1,667	7,893	2,121	0	19	414	724
Mississippi	37,851	3,575	3,131	1,787	9,826	2,874	0	38	249	562
Oklahoma	5,946	402	605	913	1,140	722	0	8	95	0
Tennessee	43,957	6,662	3,296	4,894	7,142	4,544	11	1,359	1,315	1,193
Texas	15,578	1,171	998	1,998	5,509	622	0	14	51	163
Total	247,628	28,851	17,917	20,857	55,330	21,651	12	3,579	4,447	6,131
East total:	899,497	90,704	78,620	54,115	129,186	48,463	9,467	55,706	69,045	27,845

Table B4—(continued).

Subregion and State	Sweetgum	Tupelo and black gum	Ash	Basswood	Yellow-poplar	Cotton-wood and aspen	Black walnut	Black cherry	Other eastern hard-woods
				Million board feet, International 1/4-inch rule					
Northeast:									
Connecticut	0	18	350	0	185	39	0	39	413
Delaware	216	50	26	0	153	1	4	39	5
Maine	0	0	668	90	0	2,291	0	43	1,058
Maryland	765	305	207	38	2,337	17	52	162	472
Massachusetts	0	18	533	8	17	138	0	367	329
New Hampshire	0	0	704	50	0	527	0	97	809
New Jersey	326	74	379	27	686	16	44	14	259
New York	0	17	3,317	1,588	253	2,434	84	3,407	1,827
Pennsylvania	34	228	3,247	887	3,318	1,091	251	7,204	2,983
Rhode Island	0	7	73	0	0	3	0	0	9
Vermont	0	0	992	106	0	771	0	247	1,106
West Virginia	13	486	1,244	1,904	10,548	112	308	2,225	3,408
Total	1,354	1,204	11,740	4,698	17,497	7,440	743	13,843	12,679
North Central:									
Illinois	155	99	783	207	219	712	368	233	2,168
Indiana	272	137	1,755	262	3,360	1,004	639	424	2,530
Iowa	0	0	163	409	0	763	223	53	673
Michigan	0	11	2,695	2,518	163	9,555	161	1,088	2,053
Minnesota	0	0	1,463	1,842	0	10,896	47	28	2,535
Missouri	17	129	386	58	17	707	399	39	1,663
Ohio	31	131	2,249	430	2,958	769	509	1,740	2,765
Wisconsin	0	0	1,937	3,022	0	5,671	164	345	1,631
Total	476	509	11,429	8,748	6,717	30,077	2,510	3,950	16,017
Southeast:									
Florida	1,657	3,591	841	45	292	0	0	30	2,270
Georgia	6,555	4,319	1,030	37	8,247	36	55	88	1,937
North Carolina	5,788	5,809	1,364	433	12,725	87	114	164	3,121
South Carolina	4,620	4,057	795	13	3,005	258	19	9	1,027
Virginia	2,357	1,069	950	580	13,292	5	302	219	2,654
Total	20,977	18,845	4,980	1,109	37,560	385	490	509	11,009
South Central:									
Alabama	4,180	2,504	789	112	3,799	69	22	62	2,206
Arkansas	4,591	1,360	992	83	65	801	75	108	3,140
Kentucky	518	542	1,386	371	6,414	281	362	223	2,677
Louisiana	5,301	2,892	1,295	18	264	602	7	48	4,230
Mississippi	5,403	1,917	1,204	76	2,364	597	30	171	4,047
Oklahoma	100	60	313	1	0	499	109	17	960
Tennessee	1,784	722	1,246	256	6,683	187	244	187	2,232
Texas	2,696	711	469	5	0	119	9	11	1,034
Total	24,573	10,708	7,695	922	19,588	3,156	858	827	20,526
East total:	47,379	31,265	35,843	15,476	81,360	41,059	4,602	19,129	60,231

Note: Data may not add to totals because of rounding. Volume by State in this table may differ slightly from volume by State in other tables because of rounding.

Table B5—Net volume of sawtimber on timberland in the Western United States by species, subregion, and State, 1997

Subregion and State	All species	Softwoods								
		Total soft-woods	Douglas-fir	Ponderosa and Jeffrey pines	True fir	Western hemlock	Sugar pine	Western white pine	Redwood	Sitka spruce
		Million board feet, International 1/4-inch rule								
Great Plains:										
Kansas	4,394	31	0	0	0	0	0	0	0	0
Nebraska	3,361	811	0	0	0	0	0	0	0	0
North Dakota	825	5	0	0	0	0	0	0	0	0
South Dakota	5,318	4,779	0	3,700	0	0	0	0	0	0
Total	13,897	5,626	0	3,700	0	0	0	0	0	0
Intermountain:										
Arizona	27,152	25,990	2,727	20,313	1,203	0	0	0	0	0
Colorado	64,059	56,422	7,683	6,525	8,512	0	0	0	0	0
Idaho	165,746	164,581	56,771	17,700	34,049	3,894	0	2,016	0	0
Montana	133,165	131,841	45,069	13,209	10,738	798	0	583	0	0
Nevada	1,662	1,614	0	542	619	0	3,823	512	0	0
New Mexico	22,136	20,668	3,686	11,861	2,685	0	0	0	0	0
Utah	26,162	23,596	6,602	2,225	5,405	0	0	0	0	0
Wyoming	27,388	26,705	4,596	4,265	2,689	0	1	7	0	0
Total	467,471	451,416	127,135	76,641	65,901	4,692	3,824	3,118	0	0
Alaska:										
Alaska	146,786	140,562	0	0	10	54,401	0	0	0	46,797
Total	146,786	140,562	0	0	10	54,401	0	0	0	46,797
Pacific Northwest:										
Oregon	483,976	462,676	281,509	44,947	49,878	37,086	7,557	1,642	193	1,950
Washington	360,348	334,484	148,341	18,690	43,487	77,154	1	713	0	385
Total	844,325	797,160	429,850	63,637	93,365	114,239	7,558	2,355	193	2,335
Pacific Southwest:										
California	319,546	297,093	83,771	59,645	79,662	158	19,875	1,827	27,470	0
Hawaii	1,195	18	0	0	0	0	0	0	0	0
Total	320,742	297,111	83,771	59,645	79,662	158	19,875	1,827	27,470	0
West total:	1,793,220	1,691,875	640,756	203,624	238,938	173,490	31,257	7,299	27,663	49,131

Table B5—(continued).

Subregion and State	Softwoods - continued						Hardwoods				
	Engelmann and other spruces	Western larch	Incense-cedar	Lodgepole pine	Western redcedar[a]	Other western soft-woods	Total hard-woods	Cotton-wood and aspen	Red alder	Oak	Other western hard-woods
	Million board feet, International 1/4-inch rule										
Great Plains:											
Kansas	0	0	0	0	0	31	4,363	0	0	0	4,363
Nebraska	0	0	0	0	0	811	2,550	0	0	0	2,550
North Dakota	0	0	0	0	0	5	820	0	0	0	820
South Dakota	135	0	0	0	0	943	539	3	0	0	535
Total	135	0	0	0	0	1,790	8,271	3	0	0	8,268
Intermountain:											
Arizona	1,280	0	0	0	0	467	1,162	1,162	0	0	0
Colorado	23,596	0	0	9,873	0	232	7,637	7,637	0	0	0
Idaho	13,403	6,912	0	16,566	8,222	5,047	1,165	1,029	0	0	135
Montana	15,851	10,625	0	28,405	1,251	5,313	1,323	1,283	0	0	40
Nevada	117	0	14	215	0	71	49	49	0	0	0
New Mexico	1,422	0	0	0	0	1,014	1,468	1,110	0	0	359
Utah	7,017	0	0	1,964	0	383	2,566	2,566	0	0	0
Wyoming	6,354	0	0	7,282	0	1,510	683	675	0	0	8
Total	69,041	17,537	14	64,305	9,473	14,037	16,054	15,512	0	0	542
Alaska:											
Alaska	17,680	0	0	139	5,269	14,734	6,224	4,220	83	0	1,921
Total	17,680	0	0	139	5,269	14,734	6,224	4,220	83	0	1,921
Pacific Northwest:											
Oregon	7,343	4,310	3,971	7,360	9,179	8,758	21,300	510	11,620	766	8,406
Washington	8,668	7,381	0	5,278	19,462	4,920	25,864	3,236	16,716	43	5,869
Total	16,011	11,691	3,971	12,638	28,640	13,678	47,165	3,745	28,336	809	14,275
Pacific Southwest:											
California	216	0	15,582	5,468	6	3,413	22,453	158	586	10,372	11,337
Hawaii	0	0	0	0	0	18	1,178	0	0	0	1,178
Total	216	0	15,582	5,468	6	3,431	23,631	158	586	10,372	12,515
West total:	103,082	29,228	19,567	82,551	43,388	47,670	101,345	23,639	29,004	11,181	37,521

[a] Western redcedar volume may be included in other western softwood volume.

Note: Data may not add to totals because of rounding. Total volume by State in this table may differ slightly from volume by State in other tables because of rounding.

Table B6—Net volume of softwood sawtimber on timberland in the United States by diameter class, region, and subregion, 1997, 1987, 1977, 1963, and 1953

Region and subregion	Year	Total	Diameter class (inches) 9.0 to 10.9	11.0 to 12.9	13.0 to 14.9	15.0 to 16.9	17.0 to 18.9	19.0 to 20.9	21.0 to 28.9	29.0+
			Million board feet, International 1/4-inch rule							
North:										
Northeast	1997	91,564	17,268	18,784	16,359	12,619	8,573	5,928	9,825	2,207
	1987	81,092	19,896	19,080	14,081	10,052	6,523	4,165	6,161	1,134
	1977	60,895	18,068	14,356	10,086	7,103	4,391	2,729	3,533	629
	1963	45,957	13,557	10,485	7,619	5,289	3,249	2,289	3,084	386
	1953	40,587	10,676	9,154	6,897	4,856	3,036	2,352	3,204	409
North Central	1997	55,064	16,081	11,857	8,119	5,598	4,195	3,018	5,128	1,068
	1987	45,255	14,341	10,230	6,849	4,685	3,363	2,256	3,125	409
	1977	34,369	10,212	7,143	5,031	3,900	2,881	1,897	2,915	390
	1963	22,209	6,231	4,627	3,165	2,514	1,912	1,388	2,043	329
	1953	16,261	4,586	3,582	2,354	1,666	1,341	857	1,658	219
North total:	1997	146,628	33,349	30,641	24,479	18,218	12,767	8,946	14,953	3,275
	1987	126,347	34,237	29,310	20,930	14,737	9,886	6,421	9,286	1,543
	1977	95,264	28,280	21,499	15,117	11,003	7,272	4,626	6,448	1,019
	1963	68,166	19,788	15,112	10,784	7,803	5,161	3,677	5,127	715
	1953	56,848	15,262	12,736	9,251	6,522	4,377	3,209	4,862	628
South:										
Southeast	1997	174,866	33,092	36,012	32,857	26,341	17,924	11,676	14,915	2,050
	1987	177,272	36,138	39,940	34,974	25,362	17,126	10,140	11,945	1,647
	1977	159,734	35,779	37,972	31,968	23,083	13,671	7,787	8,425	1,049
	1963	123,591	30,256	32,339	24,228	15,823	9,526	5,227	5,478	714
	1953	109,399	27,484	29,291	20,984	13,321	7,837	4,368	5,398	716
South Central	1997	218,316	34,236	43,066	42,324	35,429	24,560	16,016	20,376	2,309
	1987	211,053	36,901	44,042	40,082	32,529	22,780	14,649	18,128	1,935
	1977	194,183	36,444	42,406	37,239	29,436	20,255	12,576	14,413	1,414
	1963	133,171	24,675	29,280	25,629	21,095	14,119	8,627	9,005	740
	1953	94,817	18,409	21,534	18,888	14,628	9,668	5,329	5,614	747
South total:	1997	393,181	67,328	79,078	75,181	61,769	42,484	27,692	35,291	4,359
	1987	388,325	73,039	83,982	75,056	57,891	39,906	24,789	30,073	3,582
	1977	353,917	72,223	80,378	69,207	52,519	33,926	20,363	22,838	2,463
	1963	256,762	54,931	61,619	49,857	36,918	23,645	13,854	14,483	1,454
	1953	204,216	45,893	50,825	39,872	27,949	17,505	9,697	11,012	1,463
Rocky Mountain:										
Great Plains	1997	5,626	955	1,269	1,156	860	603	378	392	13
	1987	6,807	1,026	1,456	1,404	1,157	902	454	400	13
	1977	6,282	900	1,341	1,308	1,058	752	500	412	11
	1963	5,733	659	993	1,019	996	785	613	638	30
	1953	5,348	526	837	862	935	771	650	719	47

Table B6—(continued).

Region and subregion	Year	Total	Diameter class (inches) 9.0 to 10.9	11.0 to 12.9	13.0 to 14.9	15.0 to 16.9	17.0 to 18.9	19.0 to 20.9	21.0 to 28.9	29.0+
			Million board feet, International 1/4-inch rule							
Intermountain	1997	451,416	64,619	72,799	64,942	55,307	45,158	35,559	79,767	33,265
	1987	386,904	51,532	59,459	54,022	46,693	38,224	30,403	73,135	33,443
	1977	374,783	52,803	53,620	49,239	42,558	36,844	30,802	75,495	33,422
	1963	384,544	51,048	49,039	48,298	45,376	40,008	34,260	84,305	32,206
	1953	375,750	44,422	43,528	43,906	42,016	38,032	33,317	86,882	43,648
Rocky Mountain total:	1997	457,042	65,574	74,068	66,099	56,168	45,761	35,937	80,159	33,278
	1987	393,711	52,557	60,914	55,425	47,849	39,125	30,856	73,534	33,455
	1977	381,065	53,703	54,961	50,547	43,616	37,596	31,302	75,907	33,433
	1963	390,277	51,707	50,032	49,317	46,372	40,793	34,873	84,943	32,236
	1953	381,098	44,948	44,365	44,768	42,951	38,803	33,967	87,601	43,695
Pacific Coast:										
Alaska	1997	140,562	7,213	9,287	10,025	9,877	9,776	10,109	35,788	48,487
	1987	168,317	7,388	12,340	12,544	12,910	13,446	12,401	45,096	52,192
	1977	216,046	10,018	14,418	17,995	19,622	17,841	16,668	57,431	62,053
	1963	223,734	8,913	13,267	16,884	19,127	18,274	17,486	61,031	68,758
	1953	224,187	8,243	12,515	16,062	18,599	18,191	17,563	62,023	70,991
Pacific Northwest	1997	797,160	41,003	55,685	60,103	61,818	59,947	56,633	177,872	284,100
	1987	703,749	47,843	57,523	58,870	57,650	54,227	49,211	149,706	228,718
	1977	727,486	35,281	41,555	45,127	48,141	49,312	47,230	167,605	293,235
	1963	830,312	38,118	37,251	42,498	46,925	48,752	48,625	181,730	386,413
	1953	891,687	41,574	33,340	36,587	44,102	45,182	47,751	188,686	454,465
Pacific Southwest	1997	297,111	8,002	11,757	14,187	17,355	18,579	19,588	73,865	133,777
	1987	289,193	10,000	12,830	14,853	16,628	17,848	17,094	67,481	132,455
	1977	255,611	4,975	7,199	10,030	11,616	12,710	13,696	57,931	137,454
	1963	299,263	5,803	5,498	8,298	9,962	10,773	11,970	57,523	189,436
	1953	337,814	6,652	5,106	7,796	9,424	10,416	11,750	59,675	226,995
Pacific Coast total:	1997	1,234,833	56,218	76,729	84,316	89,050	88,302	86,330	287,524	466,364
	1987	1,161,259	65,231	82,693	86,267	87,188	85,521	78,706	262,283	413,365
	1977	1,199,143	50,274	63,172	73,152	79,379	79,863	77,594	282,967	492,742
	1963	1,353,309	52,834	56,016	67,680	76,014	77,799	78,081	300,284	644,607
	1953	1,453,329	56,469	50,961	60,445	72,125	73,789	77,064	310,384	752,451
United States:	1997	2,231,685	222,469	260,515	250,074	225,204	189,314	158,905	417,927	507,276
	1987	2,069,642	225,064	256,899	237,678	207,665	174,438	140,772	375,176	451,945
	1977	2,029,389	204,479	220,010	208,023	186,515	158,657	133,885	388,160	529,655
	1963	2,068,514	179,260	182,780	177,637	167,108	147,398	130,486	404,837	679,012
	1953	2,095,491	162,573	158,886	154,335	149,548	134,475	123,937	413,858	798,237

Note: Data may not add to totals because of rounding. Total volume by State in this table may differ slightly from total volume by State in other tables because of rounding.

Table B7—Net volume of hardwood sawtimber on timberland in the United States by diameter class, region, and subregion, 1997, 1987, 1977, 1963, and 1953

Region and subregion	Year	Total	Diameter class (inches) 11.0 to 12.9	13.0 to 14.9	15.0 to 16.9	17.0 to 18.9	19.0 to 20.9	21.0 to 28.9	29.0+
			Million board feet, International 1/4-inch rule						
North:									
Northeast	1997	229,502	53,836	50,051	39,671	28,190	19,676	30,626	7,452
	1987	170,582	44,276	39,224	29,680	20,906	13,252	19,436	3,808
	1977	116,577	32,247	27,697	20,298	13,688	8,863	11,974	1,807
	1963	92,851	24,128	21,040	15,778	11,384	7,736	11,108	1,677
	1953	84,024	19,480	17,700	14,443	10,744	7,390	12,404	1,861
North Central	1997	205,370	48,393	44,138	35,249	25,542	17,040	28,508	6,500
	1987	161,833	42,398	34,939	27,336	19,457	12,990	19,792	4,928
	1977	128,138	36,948	30,161	21,716	14,576	9,224	12,950	2,562
	1963	98,112	26,667	21,591	16,302	11,149	7,632	12,444	2,327
	1953	81,048	19,630	17,216	13,217	9,726	6,739	12,024	2,498
North total:	1997	434,872	102,229	94,189	74,921	53,732	36,716	59,134	13,951
	1987	332,415	86,674	74,163	57,016	40,363	26,242	39,228	8,736
	1977	244,715	69,195	57,858	42,014	28,264	18,087	24,924	4,369
	1963	190,963	50,795	42,361	32,080	22,533	15,368	23,552	4,004
	1953	165,072	39,110	34,916	27,660	20,470	14,129	24,428	4,359
South:									
Southeast	1997	216,997	35,214	39,667	37,784	31,086	23,775	40,008	9,463
	1987	199,504	35,720	38,827	35,511	28,409	19,854	33,283	7,900
	1977	163,703	32,052	34,352	29,693	22,370	15,040	24,784	5,412
	1963	126,981	25,343	27,099	22,136	17,310	11,916	19,304	3,873
	1953	115,336	22,182	24,619	19,664	15,898	11,006	18,247	3,720
South Central	1997	247,628	43,891	49,239	43,521	34,789	25,436	41,749	9,004
	1987	193,571	39,608	41,492	35,432	26,267	17,771	27,874	5,120
	1977	160,163	33,790	35,163	30,036	21,510	14,088	21,502	4,074
	1963	133,625	29,541	29,409	23,558	17,075	11,862	18,920	3,260
	1953	133,947	28,243	28,650	23,757	17,873	12,159	19,931	3,335
South total:	1997	464,625	79,104	88,906	81,305	65,875	49,210	81,757	18,467
	1987	393,075	75,328	80,319	70,943	54,676	37,625	61,157	13,020
	1977	323,866	65,842	69,515	59,729	43,880	29,128	46,286	9,486
	1963	260,606	54,884	56,508	45,694	34,385	23,778	38,224	7,133
	1953	249,283	50,425	53,269	43,421	33,771	23,165	38,178	7,055
Rocky Mountain:									
Great Plains	1997	8,271	1,059	1,096	1,007	907	762	2,149	1,293
	1987	4,935	725	701	620	521	445	1,133	795
	1977	4,047	599	621	576	465	410	1,268	105
	1963	3,597	459	496	489	417	386	1,242	107
	1953	3,502	392	531	543	483	400	1,044	110

Table B7—(continued).

Region and subregion	Year	Total	Diameter class (inches) 11.0 to 12.9	13.0 to 14.9	15.0 to 16.9	17.0 to 18.9	19.0 to 20.9	21.0 to 28.9	29.0+
			Million board feet, International 1/4-inch rule						
Intermountain	1997	16,054	6,266	3,962	2,500	1,288	757	943	340
	1987	12,292	4,586	3,069	1,778	937	697	854	369
	1977	9,774	3,662	2,383	1,471	940	521	706	88
	1963	9,623	3,356	2,352	1,496	933	569	805	111
	1953	8,975	2,981	2,155	1,391	894	559	817	176
Rocky Mountain total:	1997	24,325	7,324	5,057	3,507	2,195	1,519	3,092	1,632
	1987	17,227	5,311	3,770	2,398	1,458	1,142	1,989	1,164
	1977	13,821	4,261	3,004	2,047	1,405	931	1,974	193
	1963	13,220	3,815	2,848	1,985	1,350	955	2,047	218
	1953	12,477	3,373	2,686	1,934	1,377	959	1,861	286
Pacific Coast:									
Alaska	1997	6,224	1,306	954	1,258	581	497	1,262	366
	1987	7,827	1,936	1,361	1,500	823	612	1,195	404
	1977	9,883	1,474	1,713	1,570	1,114	862	1,930	1,223
	1963	10,038	1,455	1,700	1,567	1,128	887	2,014	1,287
	1953	10,164	1,447	1,698	1,572	1,140	906	2,072	1,329
Pacific Northwest	1997	47,165	9,650	8,951	7,931	6,287	4,042	7,666	2,637
	1987	44,161	10,664	9,390	7,401	5,485	3,267	5,910	2,045
	1977	33,982	6,728	6,510	5,308	4,416	3,078	6,066	1,876
	1963	31,474	5,597	5,517	4,502	3,873	2,962	6,408	2,615
	1953	23,742	4,418	4,207	3,127	2,924	2,178	4,797	2,091
Pacific Southwest	1997	23,631	3,350	3,133	2,584	2,412	2,251	6,224	3,678
	1987	23,970	3,007	3,024	2,996	2,699	2,116	6,429	3,698
	1977	9,105	977	1,050	1,102	938	970	2,564	1,504
	1963	6,447	575	740	709	719	641	1,677	1,386
	1953	6,297	533	680	660	667	607	1,608	1,542
Pacific Coast total:	1997	77,019	14,307	13,038	11,773	9,279	6,790	15,152	6,682
	1987	75,958	15,607	13,775	11,897	9,007	5,995	13,534	6,147
	1977	52,970	9,179	9,273	7,980	6,468	4,910	10,560	4,603
	1963	47,959	7,627	7,957	6,778	5,720	4,490	10,099	5,288
	1953	40,203	6,398	6,585	5,359	4,731	3,691	8,477	4,962
United States:	1997	1,000,841	202,964	201,191	171,505	131,080	94,235	159,134	40,732
	1987	818,675	182,920	172,027	142,254	105,504	71,004	115,908	29,067
	1977	635,372	148,477	139,651	111,801	80,017	53,055	83,745	18,654
	1963	512,748	117,121	109,944	86,537	63,988	44,591	73,921	16,643
	1953	467,035	99,306	97,455	78,374	60,348	41,943	72,943	16,662

Note: Data may not add to totals because of rounding. Total volume by State in this table may differ slightly from total volume by State in other tables because of rounding.

Table B8—Net volume of softwood sawtimber on timberland in the Eastern United States by species, subregion, and diameter class, 1997

Subregion and diameter class (in inches)	Total	Longleaf and slash pines	Loblolly and shortleaf pines	Other yellow pines	White and red pines	Jack pine	Spruce and balsam fir	Eastern hemlock	Cypress	Other soft-woods
					Million board feet, International 1/4-inch rule					
Northeast:										
9.0 - 10.9	17,268	0	379	1,311	3,600	19	7,035	3,242	0	1,682
11.0 - 12.9	18,784	0	498	1,207	5,196	12	5,970	4,177	0	1,724
13.0 - 14.9	16,359	0	424	860	6,018	4	3,530	4,271	1	1,252
15.0 - 16.9	12,619	0	316	445	5,369	0	2,138	3,492	2	857
17.0 - 18.9	8,573	0	185	169	4,273	0	965	2,503	7	472
19.0 - 20.9	5,928	0	85	74	3,593	0	409	1,576	2	188
21.0 - 28.9	9,825	0	66	25	6,732	0	387	2,491	2	123
29.0 +	2,207	0	0	0	1,862	0	0	343	2	1
Total	91,564	0	1,952	4,092	36,641	35	20,434	22,095	15	6,299
North Central:										
9.0 - 10.9	16,081	0	809	361	3,973	1,893	4,033	508	1	4,504
11.0 - 12.9	11,857	0	750	282	3,473	1,281	2,417	658	2	2,993
13.0 - 14.9	8,119	0	553	158	2,900	625	1,305	768	7	1,803
15.0 - 16.9	5,598	0	272	125	2,369	241	828	812	12	938
17.0 - 18.9	4,195	0	109	67	2,185	88	518	723	16	488
19.0 - 20.9	3,018	0	56	20	1,869	21	261	550	9	232
21.0 - 28.9	5,128	0	17	0	3,687	12	222	967	41	181
29.0 +	1,068	0	1	0	912	0	2	126	22	5
Total	55,064	0	2,567	1,014	21,369	4,161	9,588	5,110	111	11,145
Southeast:										
9.0 - 10.9	33,092	7,471	16,561	5,896	634	0	18	130	2,041	341
11.0 - 12.9	36,012	8,192	18,727	5,393	760	0	32	191	2,469	247
13.0 - 14.9	32,857	7,506	17,687	3,850	889	0	8	164	2,510	242
15.0 - 16.9	26,341	5,563	15,475	2,012	1,061	0	15	228	1,850	136
17.0 - 18.9	17,924	3,129	10,954	1,024	1,027	0	0	230	1,471	90
19.0 - 20.9	11,676	1,415	7,374	499	1,090	0	0	167	1,059	73
21.0 - 28.9	14,915	1,219	8,804	425	2,000	0	0	425	1,975	66
29.0 +	2,050	15	604	15	519	0	8	244	640	4
Total	174,866	34,512	96,186	19,115	7,979	0	80	1,779	14,016	1,200

Table B8—(continued).

Subregion and diameter class (in inches)	Total	Longleaf and slash pines	Loblolly and shortleaf pines	Other yellow pines	White and red pines	Jack pine	Spruce and balsam fir	Eastern hemlock	Cypress	Other soft-woods
					Million board feet, International 1/4-inch rule					
South Central:										
9.0 - 10.9	34,236	3,972	26,715	2,202	111	0	0	84	509	644
11.0 - 12.9	43,066	4,981	34,044	2,308	142	0	0	138	998	455
13.0 - 14.9	42,324	4,584	33,885	1,762	133	0	0	125	1,516	318
15.0 - 16.9	35,429	3,139	29,154	985	183	0	0	106	1,723	139
17.0 - 18.9	24,560	1,701	20,174	650	168	0	0	110	1,677	79
19.0 - 20.9	16,016	834	13,340	448	158	0	0	76	1,121	39
21.0 - 28.9	20,376	557	16,537	648	310	0	0	159	2,137	28
29.0 +	2,309	0	1,374	38	65	0	0	25	807	0
Total	218,316	19,768	175,223	9,042	1,272	0	0	822	10,488	1,702
Easter total:										
9.0 - 10.9	100,677	11,443	44,463	9,770	8,318	1,912	11,087	3,964	2,551	7,170
11.0 - 12.9	109,719	13,173	54,019	9,191	9,571	1,293	8,419	5,165	3,469	5,419
13.0 - 14.9	99,659	12,090	52,549	6,630	9,940	628	4,843	5,327	4,035	3,616
15.0 - 16.9	79,987	8,702	45,216	3,568	8,982	241	2,981	4,639	3,587	2,070
17.0 - 18.9	55,251	4,830	31,422	1,910	7,652	88	1,483	3,565	3,171	1,130
19.0 - 20.9	36,638	2,249	20,855	1,041	6,710	21	670	2,369	2,191	533
21.0 - 28.9	50,244	1,777	25,424	1,098	12,729	12	609	4,041	4,155	398
29.0 +	7,634	15	1,979	54	3,358	0	10	737	1,471	10
Total	539,809	54,279	275,928	33,262	67,261	4,196	30,102	29,806	24,629	20,346

Note: Data may not add to totals because of rounding. Total volume by State in this table may differ from volume by State in other tables because of rounding.

Table B9—Net volume of hardwood sawtimber on timberland in the Eastern United States by species, subregion, and diameter class, 1997

Subregion and diameter class (in inches)	Total	Select white oaks	Select red oaks	Other white oaks	Other red oaks	Hickory	Yellow birch	Hard maple	Soft maple	Beech
					Million board feet, International 1/4-inch rule					
Northeast:										
11.0 - 12.9	53,836	2,510	4,769	2,516	2,512	1,851	2,003	7,065	9,881	3,403
13.0 - 14.9	50,051	2,584	5,057	2,374	2,838	1,723	1,591	6,475	8,309	2,963
15.0 - 16.9	39,671	2,240	4,621	1,922	2,572	1,209	1,084	5,206	5,642	2,392
17.0 - 18.9	28,190	1,649	3,803	1,260	1,973	761	784	3,502	3,731	1,954
19.0 - 20.9	19,676	1,186	2,676	865	1,578	536	486	2,479	2,288	1,360
21.0 - 28.9	30,626	1,999	5,107	1,357	2,561	500	807	4,455	3,788	2,023
29.0 +	7,452	631	1,430	235	565	68	200	1,154	911	329
Total	229,502	12,799	27,463	10,528	14,599	6,649	6,955	30,336	34,551	14,426
North Central:										
11.0 - 12.9	48,393	4,454	3,591	1,056	3,884	2,655	489	4,830	4,349	491
13.0 - 14.9	44,138	4,884	3,873	952	3,974	2,346	468	4,295	3,623	598
15.0 - 16.9	35,249	4,616	3,519	754	3,530	1,969	452	3,620	2,719	589
17.0 - 18.9	25,542	3,657	2,914	519	2,530	1,367	295	2,740	2,085	613
19.0 - 20.9	17,040	2,571	2,210	352	1,816	593	207	1,978	1,364	470
21.0 - 28.9	28,508	4,559	4,232	354	3,007	852	331	2,742	2,555	1,177
29.0 +	6,500	1,156	1,163	27	586	54	23	278	696	286
Total	205,370	25,897	21,503	4,014	19,327	9,837	2,265	20,482	17,390	4,223
Southeast:										
11.0 - 12.9	35,214	3,588	1,124	2,706	6,287	1,934	12	197	2,750	405
13.0 - 14.9	39,667	4,251	1,470	2,982	6,863	2,073	24	229	2,718	470
15.0 - 16.9	37,784	4,215	1,743	2,723	6,404	1,932	46	257	2,173	545
17.0 - 18.9	31,086	3,456	1,538	2,624	5,561	1,570	36	201	1,834	508
19.0 - 20.9	23,775	2,563	1,498	1,964	4,568	1,040	31	138	1,196	331
21.0 - 28.9	40,008	4,296	3,333	4,112	7,861	1,568	87	220	1,721	679
29.0 +	9,463	788	1,030	1,605	2,387	209	0	68	266	126
Total	216,997	23,157	11,737	18,716	39,930	10,327	235	1,310	12,657	3,065
South Central:										
11.0 - 12.9	43,891	5,514	2,142	4,180	8,080	5,222	0	806	1,007	473
13.0 - 14.9	49,239	6,019	2,741	4,262	10,168	5,003	3	855	925	714
15.0 - 16.9	43,521	5,300	2,578	3,713	9,308	3,975	0	624	787	764
17.0 - 18.9	34,789	4,356	2,507	2,661	8,041	2,678	0	491	498	912
19.0 - 20.9	25,436	2,827	2,199	2,002	6,167	1,780	0	367	447	783
21.0 - 28.9	41,749	4,226	4,467	3,313	10,828	2,470	7	381	656	1,989
29.0 +	9,004	608	1,284	725	2,738	523	1	55	127	497
Total	247,628	28,851	17,917	20,857	55,330	21,651	12	3,579	4,447	6,131
East total:										
11.0 - 12.9	181,333	16,066	11,626	10,458	20,763	11,662	2,503	12,898	17,987	4,773
13.0 - 14.9	183,095	17,737	13,142	10,570	23,843	11,146	2,087	11,853	15,576	4,744
15.0 - 16.9	156,226	16,372	12,461	9,113	21,814	9,086	1,582	9,707	11,322	4,291
17.0 - 18.9	119,607	13,118	10,761	7,063	18,104	6,376	1,115	6,934	8,147	3,986
19.0 - 20.9	85,927	9,148	8,583	5,183	14,128	3,949	724	4,962	5,295	2,945
21.0 - 28.9	140,891	15,081	17,139	9,135	24,257	5,391	1,232	7,798	8,719	5,868
29.0 +	32,418	3,183	4,907	2,592	6,276	854	224	1,555	1,999	1,238
Total	899,497	90,704	78,620	54,115	129,186	48,463	9,467	55,706	69,045	27,845

Table B9—(continued).

Subregion and diameter class (in inches)	Sweetgum	Tupelo and black gum	Ash	Basswood	Yellow-poplar	Cotton-wood and aspen	Black walnut	Black cherry	Other eastern hard-woods
				Million board feet, International 1/4-inch rule					
Northeast:									
11.0 - 12.9	281	271	3,114	985	2,365	2,877	182	2,929	4,321
13.0 - 14.9	374	253	2,828	1,125	2,989	2,175	212	3,042	3,138
15.0 - 16.9	250	253	2,138	949	3,243	1,233	145	2,614	1,957
17.0 - 18.9	182	128	1,314	587	2,859	463	85	1,922	1,232
19.0 - 20.9	102	110	917	474	2,203	359	55	1,312	690
21.0 - 28.9	141	178	1,081	495	3,120	236	56	1,699	1,022
29.0 +	22	10	347	82	718	97	7	326	320
Total	1,354	1,204	11,740	4,698	17,497	7,440	743	13,843	12,679
North Central:									
11.0 - 12.9	105	92	2,972	2,484	850	9,764	686	1,073	4,569
13.0 - 14.9	104	139	2,650	2,119	1,051	7,936	683	985	3,458
15.0 - 16.9	93	92	1,959	1,575	1,187	5,097	468	704	2,303
17.0 - 18.9	68	73	1,433	993	1,023	2,649	351	500	1,733
19.0 - 20.9	44	32	973	622	915	1,286	179	291	1,137
21.0 - 28.9	62	67	1,236	862	1,539	2,288	143	359	2,144
29.0 +	0	14	205	92	151	1,057	0	38	673
Total	476	509	11,429	8,748	6,717	30,077	2,510	3,950	16,017
Southeast:									
11.0 - 12.9	4,173	3,785	854	179	4,587	19	124	139	2,352
13.0 - 14.9	4,750	4,172	920	214	6,018	36	112	109	2,256
15.0 - 16.9	3,809	3,609	911	247	7,026	38	94	70	1,941
17.0 - 18.9	2,818	2,590	665	143	6,010	34	35	88	1,377
19.0 - 20.9	1,969	1,721	597	142	4,919	28	65	31	973
21.0 - 28.9	3,053	2,323	872	127	7,775	119	51	59	1,751
29.0 +	404	646	160	57	1,225	111	8	14	359
Total	20,977	18,845	4,980	1,109	37,560	385	490	509	11,009
South Central:									
11.0 - 12.9	5,172	2,219	1,444	193	2,858	142	221	209	4,008
13.0 - 14.9	5,699	2,639	1,505	187	3,794	181	215	177	4,153
15.0 - 16.9	4,788	2,248	1,452	169	3,909	242	169	186	3,307
17.0 - 18.9	3,221	1,622	1,163	115	3,197	291	111	137	2,790
19.0 - 20.9	2,307	806	812	98	2,328	380	63	47	2,021
21.0 - 28.9	2,998	1,068	1,172	141	3,119	1,166	76	54	3,620
29.0 +	388	106	147	19	383	755	3	16	628
Total	24,573	10,708	7,695	922	19,588	3,156	858	827	20,526
East total:									
11.0 - 12.9	9,730	6,367	8,384	3,840	10,659	12,802	1,214	4,350	15,249
13.0 - 14.9	10,928	7,202	7,904	3,645	13,852	10,328	1,222	4,313	13,004
15.0 - 16.9	8,941	6,203	6,460	2,940	15,365	6,611	876	3,574	9,509
17.0 - 18.9	6,290	4,413	4,575	1,839	13,089	3,437	583	2,647	7,131
19.0 - 20.9	4,423	2,669	3,300	1,336	10,365	2,053	363	1,681	4,821
21.0 - 28.9	6,254	3,636	4,362	1,626	15,553	3,808	326	2,170	8,536
29.0 +	814	776	859	250	2,477	2,020	18	394	1,981
Total	47,379	31,265	35,843	15,476	81,360	41,059	4,602	19,129	60,231

Note: Data may not add to totals because of rounding. Total volume by State in this table may differ from volume by State in other tables because of rounding.

Table B10—Net volume of sawtimber on timberland in the Western United States by species, subregion, and diameter class, 1997

Subregion and diameter class (in inches)	Total	Softwoods								
		Total soft-woods	Douglas-fir	Ponderosa and Jeffrey pine	True fir	Western hemlock	Sugar pine	Western white pine	Redwood	Sitka spruce
					Million board feet					
Great Plains:										
9.0 - 10.9	955	955	0	569	0	0	0	0	0	0
11.0 - 12.9	2,328	1,269	0	867	0	0	0	0	0	0
13.0 - 14.9	2,252	1,156	0	806	0	0	0	0	0	0
15.0 - 16.9	1,867	860	0	553	0	0	0	0	0	0
17.0 - 18.9	1,510	603	0	363	0	0	0	0	0	0
19.0 - 20.9	1,139	378	0	248	0	0	0	0	0	0
21.0 - 28.9	2,541	392	0	280	0	0	0	0	0	0
29.0 +	1,305	13	0	13	0	0	0	0	0	0
Total	13,897	5,626	0	3,700	0	0	0	0	0	0
Intermountain:										
9.0 - 10.9	64,619	64,619	11,619	5,833	10,266	437	32	157	0	0
11.0 - 12.9	79,065	72,799	16,666	8,098	12,204	746	60	282	0	0
13.0 - 14.9	68,904	64,942	17,857	9,710	10,604	719	77	498	0	0
15.0 - 16.9	57,807	55,307	17,364	9,136	8,765	558	139	413	0	0
17.0 - 18.9	46,445	45,158	15,046	8,332	6,767	496	140	277	0	0
19.0 - 20.9	36,316	35,559	12,014	6,949	4,961	476	179	256	0	0
21.0 - 28.9	80,710	79,767	26,402	18,813	8,818	921	715	693	0	0
29.0 +	33,604	33,265	10,167	9,769	3,516	338	2,482	544	0	0
Total	467,471	451,416	127,135	76,641	65,901	4,692	3,824	3,118	0	0
Alaska:										
9.0 - 10.9	7,213	7,213	0	0	0	1,229	0	0	0	681
11.0 - 12.9	10,593	9,287	0	0	0	2,229	0	0	0	1,195
13.0 - 14.9	10,979	10,025	0	0	10	2,955	0	0	0	1,760
15.0 - 16.9	11,135	9,877	0	0	0	3,293	0	0	0	2,045
17.0 - 18.9	10,357	9,776	0	0	0	3,723	0	0	0	2,669
19.0 - 20.9	10,606	10,109	0	0	0	4,565	0	0	0	2,934
21.0 - 28.9	37,050	35,788	0	0	0	17,221	0	0	0	11,360
29.0 +	48,853	48,487	0	0	0	19,187	0	0	0	24,152
Total	146,786	140,562	0	0	10	54,401	0	0	0	46,797

Table B10—(continued).

Subregion and diameter class (in inches)	Total	Softwoods								
		Total soft-woods	Douglas-fir	Ponderosa and Jeffrey pine	True fir	Western hemlock	Sugar pine	Western white pine	Redwood	Sitka spruce
					Million board feet					
Pacific Northwest:										
9.0 - 10.9	41,003	41,003	16,782	3,595	5,192	7,547	66	166	3	26
11.0 - 12.9	65,335	55,685	23,916	4,904	7,406	10,773	110	183	3	58
13.0 - 14.9	69,055	60,103	27,879	5,467	7,647	10,862	113	158	10	59
15.0 - 16.9	69,749	61,818	30,314	5,351	7,802	10,862	153	203	7	68
17.0 - 18.9	66,233	59,947	29,714	5,087	8,003	10,045	159	210	16	61
19.0 - 20.9	60,675	56,633	28,959	5,006	7,796	8,474	247	183	25	62
21.0 - 28.9	185,537	177,872	92,158	17,663	24,069	24,720	1,225	636	34	271
29.0 +	286,738	284,100	180,128	16,563	25,450	30,957	5,486	616	96	1,729
Total	844,325	797,160	429,850	63,637	93,365	114,239	7,558	2,355	193	2,335
Pacific Southwest:										
9.0 - 10.9	8,002	8,002	2,700	1,506	2,291	13	219	30	525	0
11.0 - 12.9	15,107	11,757	3,195	2,511	3,739	23	267	60	799	0
13.0 - 14.9	17,320	14,187	3,659	3,224	4,287	0	414	52	1,086	0
15.0 - 16.9	19,939	17,355	4,267	3,967	5,230	31	497	60	1,636	0
17.0 - 18.9	20,990	18,579	4,290	4,268	5,749	16	713	98	1,627	0
19.0 - 20.9	21,839	19,588	4,300	4,648	5,706	0	938	80	2,172	0
21.0 - 28.9	80,089	73,865	17,130	16,924	20,322	42	4,447	513	7,984	0
29.0 +	137,455	133,777	44,230	22,596	32,338	33	12,381	932	11,640	0
Total	320,742	297,111	83,771	59,645	79,662	158	19,875	1,827	27,470	0
West total:										
9.0 - 10.9	121,792	121,792	31,101	11,504	17,750	9,225	317	354	528	707
11.0 - 12.9	172,428	150,797	43,777	16,380	23,349	13,771	437	525	802	1,254
13.0 - 14.9	168,510	150,415	49,395	19,207	22,547	14,536	604	707	1,097	1,819
15.0 - 16.9	160,497	145,217	51,944	19,007	21,798	14,744	789	676	1,643	2,114
17.0 - 18.9	145,536	134,063	49,050	18,050	20,519	14,280	1,012	584	1,643	2,729
19.0 - 20.9	130,575	122,267	45,273	16,852	18,463	13,515	1,364	519	2,197	2,996
21.0 - 28.9	385,927	367,683	135,690	53,681	53,209	42,903	6,386	1,842	8,018	11,631
29.0 +	507,956	499,642	234,524	48,942	61,304	50,515	20,349	2,092	11,736	25,881
Total	1,793,220	1,691,875	640,756	203,624	238,938	173,490	31,257	7,299	27,663	49,131

Table B10—(continued).

Subregion and diameter class (in inches)	Softwoods -- continued						Hardwoods				
	Engelmann and other spruces	Western larch	Incense cedar	Lodge-pole pine	Western red-cedar	Other soft-woods	Total hard-woods	Cotton-wood and aspen	Red alder	Oak	Other hard-woods
					Million board feet						
Great Plains:											
9.0 - 10.9	24	0	0	0	0	362	0	0	0	0	0
11.0 - 12.9	27	0	0	0	0	375	1,059	3	0	0	1,055
13.0 - 14.9	21	0	0	0	0	328	1,096	0	0	0	1,095
15.0 - 16.9	31	0	0	0	0	276	1,007	0	0	0	1,007
17.0 - 18.9	15	0	0	0	0	225	907	0	0	0	907
19.0 - 20.9	12	0	0	0	0	117	762	0	0	0	762
21.0 - 28.9	5	0	0	0	0	107	2,149	0	0	0	2,149
29.0 +	0	0	0	0	0	0	1,293	0	0	0	1,293
Total	135	0	0	0	0	1,790	8,271	3	0	0	8,268
Intermountain:											
9.0 - 10.9	6,490	2,295	0	24,581	736	2,213	0	0	0	0	0
11.0 - 12.9	9,016	2,688	0	19,665	971	2,485	6,266	6,114	0	0	151
13.0 - 14.9	9,524	2,430	0	10,532	891	2,186	3,962	3,885	0	0	77
15.0 - 16.9	9,169	1,905	0	5,337	922	1,760	2,500	2,418	0	0	82
17.0 - 18.9	8,100	1,914	0	2,278	730	1,230	1,288	1,155	0	0	133
19.0 - 20.9	6,825	1,369	0	1,000	630	1,096	757	755	0	0	2
21.0 - 28.9	15,371	3,636	2	838	2,013	2,358	943	850	0	0	93
29.0 +	4,545	1,300	11	74	2,579	709	340	335	0	0	4
Total	69,041	17,537	14	64,305	9,473	14,037	16,054	15,512	0	0	542
Alaska:											
9.0 - 10.9	4,488	0	0	18	143	641	0	0	0	0	0
11.0 - 12.9	4,615	0	0	23	145	1,006	1,306	497	10	0	799
13.0 - 14.9	3,603	0	0	14	270	1,329	954	394	13	0	546
15.0 - 16.9	2,659	0	0	37	299	1,367	1,258	849	22	0	388
17.0 - 18.9	1,282	0	0	28	324	1,583	581	441	17	0	123
19.0 - 20.9	542	0	0	2	443	1,454	497	452	8	0	37
21.0 - 28.9	460	0	0	17	1,490	4,661	1,262	1,225	13	0	23
29.0 +	30	0	0	0	2,156	2,693	366	361	0	0	5
Total	17,680	0	0	139	5,269	14,734	6,224	4,220	83	0	1,921

Table B10—(continued).

Subregion and diameter class (in inches)	Softwoods -- continued						Hardwoods				
	Engelmann and other spruces	Western larch	Incense cedar	Lodge-pole pine	Western red-cedar	Other soft-woods	Total hard-woods	Cotton-wood and aspen	Red alder	Oak	Other hard-woods
					Million board feet						
Pacific Northwest:											
9.0 - 10.9	838	1,091	92	3,945	1,105	561	0	0	0	1	0
11.0 - 12.9	1,220	1,308	132	3,298	1,441	950	9,650	292	6,713	128	2,517
13.0 - 14.9	1,396	1,457	134	2,388	1,562	999	8,951	265	6,217	159	2,310
15.0 - 16.9	1,527	1,439	204	1,258	1,546	1,161	7,931	347	5,551	97	1,936
17.0 - 18.9	1,491	1,360	136	888	1,623	1,216	6,287	416	4,007	124	1,740
19.0 - 20.9	1,449	1,192	214	405	1,607	1,142	4,042	385	2,265	71	1,321
21.0 - 28.9	3,631	2,869	878	404	5,963	3,947	7,666	1,335	3,241	150	2,939
29.0 +	4,459	974	2,181	53	13,792	3,702	2,637	705	342	78	1,512
Total	16,011	11,691	3,971	12,638	28,640	13,678	47,165	3,745	28,336	809	14,275
Pacific Southwest:											
9.0 - 10.9	3	0	403	243	0	69	0	0	0	0	0
11.0 - 12.9	0	0	689	351	0	122	3,350	6	191	1,263	1,889
13.0 - 14.9	24	0	855	451	0	135	3,133	4	147	1,274	1,708
15.0 - 16.9	23	0	972	548	0	123	2,584	22	59	994	1,509
17.0 - 18.9	0	0	1,079	478	0	260	2,412	4	24	1,074	1,310
19.0 - 20.9	16	0	1,061	434	1	232	2,251	10	56	867	1,318
21.0 - 28.9	65	0	4,055	1,657	4	721	6,224	83	82	2,947	3,113
29.0 +	85	0	6,468	1,305	1	1,768	3,678	29	27	1,953	1,668
Total	216	0	15,582	5,468	6	3,431	23,631	158	586	10,372	12,515
West total:											
9.0 - 10.9	11,843	3,386	495	28,788	1,983	3,846	0	0	0	1	0
11.0 - 12.9	14,878	3,996	821	23,337	2,557	4,938	21,631	6,913	6,914	1,391	6,412
13.0 - 14.9	14,569	3,888	989	13,385	2,724	4,978	18,095	4,548	6,377	1,434	5,737
15.0 - 16.9	13,409	3,344	1,177	7,180	2,767	4,687	15,280	3,635	5,632	1,092	4,921
17.0 - 18.9	10,888	3,274	1,214	3,672	2,678	4,514	11,473	2,015	4,047	1,198	4,213
19.0 - 20.9	8,845	2,561	1,275	1,841	2,681	4,041	8,308	1,603	2,329	937	3,439
21.0 - 28.9	19,532	6,506	4,936	2,916	9,470	11,795	18,244	3,494	3,336	3,097	8,317
29.0 +	9,118	2,274	8,661	1,432	18,528	8,871	8,314	1,431	369	2,032	4,483
Total	103,082	29,228	19,567	82,551	43,388	47,670	101,345	23,639	29,004	11,181	37,521

Note: Data may not add to totals because of rounding. Total volume by State in this table may differ slightly from volume by State in other tables because of rounding.

Smith, W. Brad; Vissage, John S.; Darr, David R.; Sheffield, Raymond M.;
2001. **Forest resources of the United States, 1997**. Gen. Tech. Rep. NC-219. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station. 190 p.

Forest resource statistics from the 1987 Resources Planning Act (RPA) Assessment were updated to 1997 to provide current information on the Nation's forests. Resource tables present estimates of forest area, volume, mortality, growth, removals, and timber products output in various ways, such as by ownership, region, or State. Current resource data are analyzed and trends since 1987 are noted. Resource trends are placed within the context of changes in the timber resource since 1953. A fold-out forest type map produced from satellite imagery provides a visual display of the location of forest land.

KEY WORDS: RPA, assessment, inventory, forest statistics, area, volume, forest history, AVHRR, map.

United States Department of Agriculture

Forest Service

General Technical Report
NC-219
August 2001

http://fia.fs.fed.us