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# Forest Statistics for New Hampshire: 1983 and 1997

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## Abstract

A statistical report on the fifth forest inventory of New Hampshire conducted in 1996-98 by the Forest Inventory and Analysis Unit of the Northeastern Research Station. Statistics for forest area, numbers of trees, tree biomass, timber volume, growth, and change are displayed at the state and, where appropriate, the county level. The current inventory indicates that there are approximately 9.0 billion cubic feet of growing-stock volume on 4.5 million acres of timberland in New Hampshire.

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## Foreword

The fifth inventory of New Hampshire was directed by John R. Peters, Project Leader of the Forest Inventory and Analysis Unit. David J. Alerich supervised the data collection phase of the inventory. He was assisted by Robert E. Ilgenfritz, Richard A. McCullough, and Lucretia B. Stewart, and Kathryn M. Tillman at unit headquarters in Radnor, PA; and by Edward A. Doane, Brian M. LaPoint, Jason W. Morrison, and Scott H. Tepke, who coordinated the activities of the following members of the data-collection field staff in New Hampshire:

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| Matthew Gallucci  | Gary Miner       |                   |

Carol Alerich and Tom Frieswyk applied FINSYS (Forest Inventory SYStem), a generalized data processing system, ORACLE SQLPlus, and SAS to process and analyze the information provided by the field crews, and produced summary tables of estimates and errors for the state and counties. Doug Griffith, Richard Goren and Michael Kazimer assisted in data entry and data management.

JB Cullen and Worthen Muzzey, along with other members of the New Hampshire Division of Forests and Lands, collected and compiled data on public ownership and assisted in reviewing this document for accuracy. Steve Mongan of LandVest Inc. also assisted in reviewing this document.

Vickie M. Sharon was responsible for administrative and secretarial services.

The Forest Inventory and Analysis Unit thanks the landowners of New Hampshire and the New Hampshire Division of Forests and Lands for their cooperation and assistance during this inventory.

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# Forest Statistics for New Hampshire: 1983 and 1997

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# Highlights

## Forest-Land Area

Forests cover 4.8 million acres or 84.0 percent of New Hampshire. This is a decrease of 134,500 acres since the previous forest inventory in 1983. Timberland area decreased by 290,700 acres and other forest land increased by 156,200 acres. Timberland area represents 93 percent of total forest-land area.

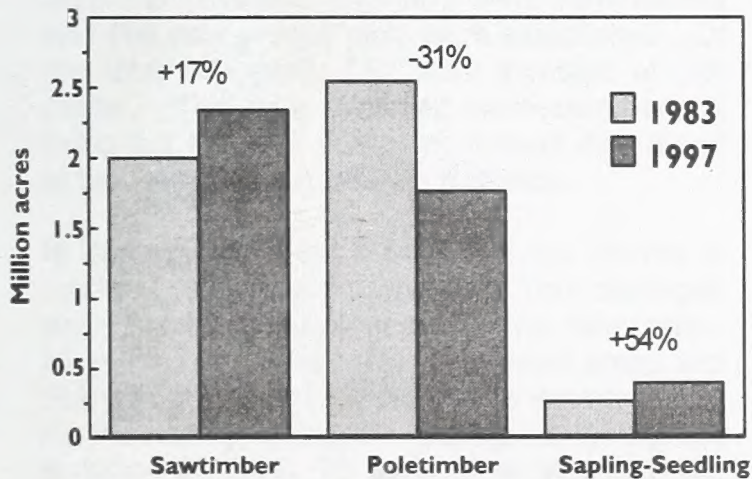
(Thousands of acres at each inventory)

|                            | 1948    | 1960    | 1973    | 1983    | 1997    |
|----------------------------|---------|---------|---------|---------|---------|
| Timberland                 | 4,682.2 | 4,907.4 | 4,692.0 | 4,799.3 | 4,508.6 |
| Other forest land          | 165.6   | 111.9   | 293.1   | 159.0   | 315.2   |
| Total forest land          | 4,847.8 | 5,019.3 | 4,985.1 | 4,958.3 | 4,823.8 |
| Percent forested           | 83.9%   | 87.0%   | 86.2%   | 86.4%   | 84.0%   |
| Estimated total land area* | 5,775.4 | 5,769.0 | 5,781.1 | 5,740.4 | 5,740.4 |

\* Estimates of the total land area have changed because of new measurement techniques and refinements in the classification of small bodies of water and streams.

Sawtimber-size stands increased by 17 percent and now account for 52 percent of the timberland. Poletimber-size stands declined by 31 percent and now represent 39 percent of timberland. The area in sapling/seedling stands accounts for 9 percent of the timberland. Area in these conditions increased by 54 percent since the previous inventory.

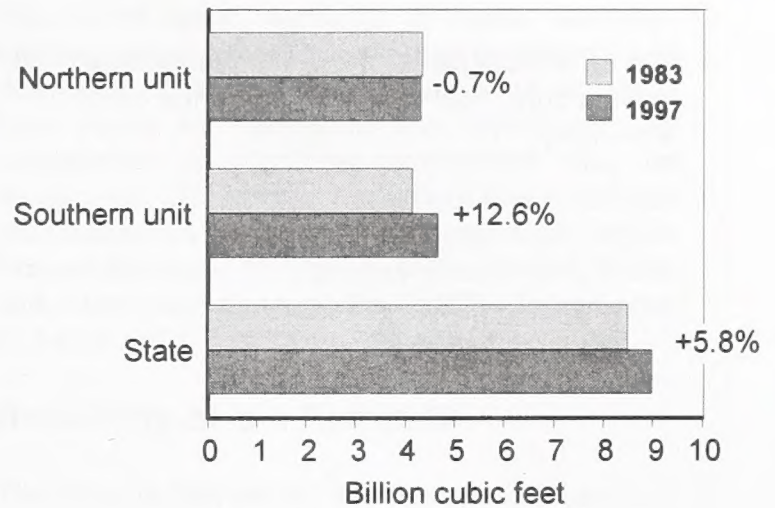
Area of timberland by stand-size class



## Volume

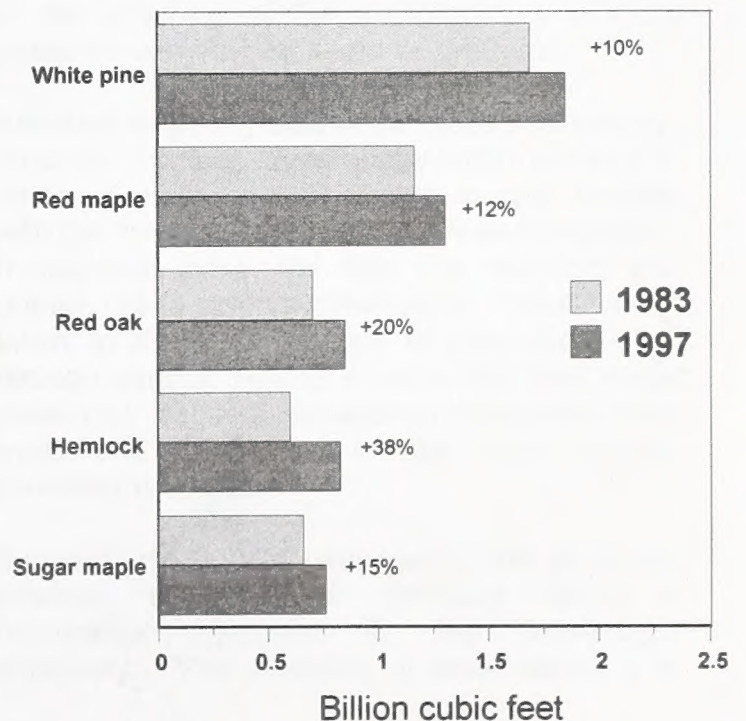
The total volume of all live trees more than 5-inches in diameter increased by 2.1 percent. Growing-stock volume increased by 5.8 percent, decreasing by 0.7 percent in the Northern Unit and increasing by 12.6 percent in the Southern Unit. The portion of volume suitable for sawlogs increased by 18.8 percent.

Growing-stock volume



White pine continued to have the greatest volume. Growing-stock volume of white pine, red maple, and red oak increased by 10.0, 11.9, and 20.2 percent, respectively. Hemlock had the largest volume increase-- 230.3 million cubic feet or 38.2 percent. The volume of spruce and balsam fir decreased by 18.2 and 20.4 percent, respectively.

Change in growing-stock volume, top five species

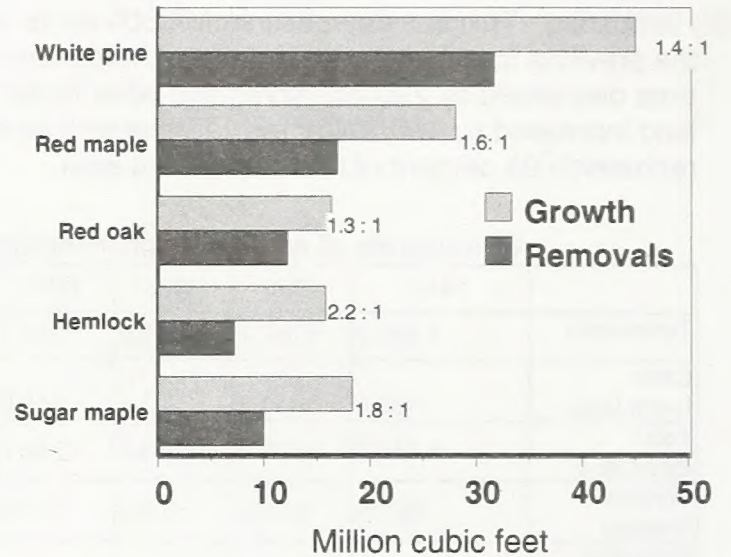


## Growth and Removals

On an annual basis, net growth of growing stock on New Hampshire's timberland has averaged 169.1 million cubic feet of wood and the average annual harvest plus other removals has been 133.6 million cubic feet. The ratio of net growth to removals has averaged about 1.3 : 1 over the past inventory period.

On an annual basis, mortality has averaged 50.1 million cubic feet (0.6 percent) of the current inventory.

Average annual net growth and removals of growing-stock, top five species



## Introduction

Under the authority of the McSweeney-McNary Forest Research Act of 1928 and subsequent acts, including the Renewable Resources Planning Act of 1974 and the Renewable Resources Research Act of 1978, the USDA Forest Service conducts periodic inventories of all states to provide up-to-date information on the forest resources of the Nation. The initial inventory of New Hampshire's forest resources was conducted in 1948. Succeeding inventories were carried out in 1960, 1973, and 1983. This report presents forest-resource data from the fifth inventory, which was conducted in 1996-97. This inventory was a cooperative effort of the Northeastern Research Station, the New Hampshire Division of Forests and Lands, and the landowners of New Hampshire.

The Forest Inventory and Analysis Unit (FIA) of the Northeastern Research Station conducted the inventory on all lands, developed the resource tables, and prepared this report.

The sampling procedure used during the current inventory included the use of aerial photography, the remeasurement of a sample of ground plots established in earlier inventories, and the establishment of new ground plots. For New Hampshire, this procedure required the photointerpretation and classification of 21,306 new photo points and 764 previously sampled ground plot locations into land-use and cubic-foot volume classes. Then, 764 ground plots from the previous inventory were remeasured and 166 new ground plots were established. Of the total 930 plots, 652 were forested at plot center. The data collected were summarized using the FINSYS computer system developed at the Northeastern Research Station.

In January of 1998, a series of ice storms in northern New England and New York damaged an estimated 900,000 acres in New Hampshire. Nine counties were declared disaster areas and FIA was asked to reinventory the area that was most severely impacted. During the spring and summer of 1998, 78 plots were selected and remeasured within the damage footprint identified by the State of New Hampshire. The entire inventory was reprocessed incorporating the updated data from the damage footprint. As part of the agreement with the State of New Hampshire only one set of inventory data will be

available and that data will contain the ice damage update.

The resurvey of New Hampshire's forest resources involved several associated studies and considerable analysis. Reports on the state's private forest-land owners and its primary forest-products industry also will be available, and a report analyzing New Hampshire's forest resource in greater detail is being prepared.

The forest area, numbers of trees, biomass, timber volume, growth, and change statistics in this report summarize the information collected (see **Index to Tables** in this report). Other information or additional summaries may be developed. For information about these, contact the **Forest Inventory and Analysis Unit, USDA Forest Service, 11 Campus Boulevard, Suite 200, Newtown Square, PA 19073 (Telephone: 610-557-4075; Fax: 610-557-4200).**

## Reliability of the Estimate

The data in this report are based on a carefully designed sample of forest conditions throughout New Hampshire. However, because the field crews did not measure every tree or every acre in the state, the data are estimates. The reliability of the estimating procedure can be judged by two important statistical measures: accuracy and precision. Accuracy refers to the success of estimating the true value; precision refers to the clustering of sample values about their own averages or to the variation among repeated samples. We are interested primarily in the accuracy of the inventory but in most cases we can only measure its precision.

Although accuracy cannot be measured exactly, it can be checked. Preliminary tables are sent to other agencies and to outside experts familiar with the forest conditions in the New Hampshire. If questions arise, the data are reviewed and reanalyzed to resolve differences. Great care is taken to minimize sources of procedural error through careful training of both field and office personnel, frequent inspection of field and office work, and application of the most reliable inventory methods.

Because of the care exercised in the inventory process, estimates of precision afford a reasonable measure of the inventory's adequacy. The precision of each estimate is

described by its sampling error. Sampling errors are given with several tables in this report. The others are available upon request.

Here is an example of how the sampling error is used to indicate reliability. The estimate of timberland for New Hampshire is 4,509,000 acres. The associated sampling error is 1.1 percent, or 49,599 acres. This means that if there are no errors in the procedure, we are 68 percent confident that the true number of acres is between 4,459,401 and 4,558,599 acres, or  $4,509,000 \pm 49,599$  (one standard deviation). Similarly, we are 95 percent confident that the true number of acres is within  $\pm 99,198$  acres (two standard deviations). County estimates are less precise. In New Hampshire, for example, while the sampling error for timberland at the state level is 1.1 percent, the sampling error for Rockingham County is 6.1 percent. In general, as the size of the sample decreases the sampling error, expressed as a percentage of the estimate, increases. A high amount of variance within a county increases the sampling error.

For many of the tables in this report, both the last column and last row are labeled "SE." These figures are the sampling errors of the column and row totals. The last sampling error given (SE) is for the table total. To calculate the approximate sampling error ( $SE_{ij}$ ) for a table cell (ij), use the following formula (**this formula is reliable only for estimating sampling errors of individual cells in AREA tables**):

$$SE_{ij} = 1/P_{ij}((P_{ij}(1 - P_{ij}))/n)^{1/2}$$

where:

- n = total number of sample plots of a population
- $P_{ij} = A_{ij} / A$
- $A_{ij}$  = cell estimate
- A = total land area of a population
- ij = row(i) and column(j)

Any estimate with a sampling error of 50 percent or more is not significantly different from zero, and estimates with errors of 25 to 50 percent are suspect. Therefore, any estimates with errors exceeding 25 percent should be used with caution.

## Comparison Between Inventories

To evaluate the condition of the forest resource, it is useful to compare the current estimates with those from the previous inventory. However, as a result of ongoing efforts to improve the efficiency of the inventory, we have made several changes in procedures and definitions since 1983. Because these changes make inappropriate the direct comparison of some of the current estimates with those published by Frieswyk and Malley (1985), readers should use caution when comparing the data in this report with those in the 1983 report. In this report, several tables containing 1983 data are provided to allow comparisons. The changes in methods and definitions follow.

To improve data consistency at the national level, a standard plot design is being used by all Forest Inventory projects in the country. The new plot design, a cluster of four 24-foot-radius subplots covering a 1/6-acre area, was established at all selected plot locations, both new and previously measured. Field crews recorded different conditions on the plots if certain attributes (land use, forest type, stand origin, stand size, tree density, and/or owner) differed from those at plot center. They "mapped" these conditions by recording information that described the boundaries of the conditions. This mapping procedure is designed to reduce bias in the estimates. In previous inventories, a ground plot was established wholly within the land class (forest or nonforest) that the plot was chosen to represent. The condition (e.g. privately-owned northern-hardwoods sawtimber timberland) that was found at plot center was used to classify the entire plot.

On all selected remeasured plot locations, a subsample of the trees that were recorded in the past were reconciled, and growth and removals estimates were calculated using these data. Condition mapping was ignored for calculations of estimates of change because this procedure was not used at the previous occasion.

Forest Inventory uses Bureau of Census estimates of total land area in a state or county as the basis for estimating land area by various classes. For the 1983 report, 1980 Bureau of Census data were used; in 1997, 1990 data were available. Between 1980 and 1990, the Bureau of Census changed its estimating

procedures. It now can identify as inland water streams more than 200 feet wide and bodies of water 4.5 acres and larger in area. Previously, the minimum width was 660 feet for streams and the minimum area was 40 acres for bodies of water. This procedure results in a reduction in total land area. For comparison of land area between inventories, 1983 estimates of land area by class were recalculated using 1990 land-area values from the Bureau of Census.

Stocking is a quantitative expression of live tree stand density that may be expressed in absolute terms, such as basal area per acre, volume per acre, or number of trees per acre; or in relative terms, such as a percent of a previously defined standard<sup>1</sup>. For the 1983 inventory statistics, the stocking value of a tree was calculated using the basal area of the tree as a percent of 75 square feet per acre, which is the basal area standard for full use of the site<sup>2</sup>. Basal area stocking may well describe current timber volume, but it is inadequate to describe stand composition in a multi-resource inventory in that it neither adequately measures present site utilization nor describes small-diameter stands. For the statistics in this publication, stocking is calculated using relative density, which represents site occupancy based on normal yield tables. Basal area is diameter-dependent only; whereas relative density reflects species composition, stage of development and the social position of the trees present. A relative measure of stand density is a useful tool for interpreting findings of extensive inventories, such as those performed by Forest Inventory and Analysis, where a wide variety of stands are sampled. A procedure using relative density to calculate stocking was developed and accepted as a standard to be used by all FIA projects in the country.

Stand size is a classification (sawtimber, poletimber, seedling and sapling, or nonstocked) of forest land based on the size of the trees that dominate an area, and forest type is a classification of forest land based on the species found in the area. Stand size and forest type are both calculated based on stocking of all live trees, and therefore are affected by the change in the procedure to calculate stocking. To allow comparisons, this report includes several 1983 area tables showing estimates of area of timberland by stand-size class and forest type and forest-type group that are calculated based on relative density. There are also tables that show estimates of timberland area by forest type and stand size for both 1983 and 1997, where stocking is based on the basal area of all live trees.

Forest type is a classification of forest land based on species that form a plurality of live-tree stocking. Prior to 1995, basal area was used to determine plurality of live-tree stocking. Currently, forest type classification is based on stocking values calculated using relative density. There have been refinements with respect to how several species (e.g. red maple and beech) are allocated to local types since the previous inventory and a programming error that affected the white pine type was corrected.

Eighty-two percent of the plots that were visited during the 1983 inventory were remeasured in 1996-98. The estimates of average annual net growth and change are derived from this set of data. These estimates afford an opportunity to look at change in overall volume from occasion to occasion and from plot to plot. The estimates showing 1983 information are from the plots that were selected at that occasion to produce an estimate of the current area and volume.

<sup>1</sup> Amer, Stanford L. et al. 2000. **National Algorithms for Determining Stocking Class, Stand Size Class, and Forest Type for Forest Inventory and Analysis Plots.** Unpublished document on file at Northeastern Research Station Forest Inventory and Analysis, 11 Campus Boulevard, Suite 200, Newtown Square, PA 19073.

<sup>2</sup> Author unknown. 1967. **Forest Survey Handbook.** Unpublished document on file at Northeastern Research Station Forest Inventory and Analysis, 11 Campus Boulevard, Suite 200, Newtown Square, PA 19073.

These data have been used in current procedures to recalculate estimates of area and volume at the 1983 occasion so that comparisons can be made. Although the data set from which estimates of growth and change are derived contains a portion of the plots from which the 1983 recalculated estimates were calculated, they are different data sets designed to produce different types of estimates. Inconsistencies in trends may result when the annual change tables are compared with the total change between the 1983 and 1997 tables. Sampling errors have been included to indicate the precision of the data.

In addition to the traditional data gathered to estimate forest area and tree volumes, information was collected to describe forest wildlife habitat and forest-tree biomass.

## Definitions of Terms

Acceptable tree. (a) Live sawtimber trees that do not qualify as preferred trees but are not cull trees. (b) Live poletimber trees that prospectively will not qualify as preferred trees, but are not now or prospectively cull trees.

Accretion. The estimated net growth on growing-stock trees that were measured during the previous inventory (divided by the number of growing seasons between surveys to produce average annual accretion). It does not include the growth on trees that were cut during the period, nor those trees that died.

Basal-area class. A classification of forest land based on basal area (cross-sectional area of a tree stem at breast height in square feet per acre) of all live trees of all sizes.

Board foot. A unit of lumber measurement 1 foot long, 1 foot wide, and 1 inch thick, or its equivalent. International ¼ inch rule is used as the USDA Forest Service standard log rule in the eastern United States.

Board-foot stand-volume class. A classification of forest land based on net board-foot volume of sawtimber trees per acre.

Bog/Marsh/Swamp. Land that has less than 10.0 percent stocking with live trees and which characteristically supports low, generally herbaceous or shrubby vegetation, and which is

intermittently covered with water during all seasons; includes tidal areas that are covered with brackish water during high tides.

Commercial species. Tree species currently or prospectively suitable for industrial wood products; excludes species of typically small size, poor form, or inferior quality, such as hawthorn and sumac.

Condition. A classification of a land area based on land use, forest type, stand origin, and stand size (see definitions).

County and municipal lands. Lands owned by counties and local public agencies or municipalities or leased to them for 50 years or more.

Cropland. Land that currently supports agricultural crops including silage and feed grains, bare farm fields resulting from cultivation or harvest, and maintained orchards.

Cubic-foot stand-volume class. A classification of forest land based on net cubic-foot volume of all live trees per acre.

Cull decrement. The net volume of rough or rotten trees in the previous inventory that are classified as growing-stock trees in current inventory (divided by the number of growing seasons between surveys to produce average annual cull decrement).

Cull tree. A rough tree or a rotten tree.

Cull increment. The net volume of growing-stock trees in the previous inventory that are classified as rough or rotten trees in the current inventory (divided by the number of growing seasons between surveys to produce average annual cull increment).

Diameter at breast height (d.b.h.). The diameter outside bark of a standing tree measured at 4-1/2 feet above the ground.

Dry ton. A unit of measure of dry weight equivalent to 2,000 pounds or 907.1848 kilograms.

Dry ton stand-volume class. A classification of forest land based on net dry weight of the aboveground components of all live trees per unit area; usually expressed in dry tons per acre.

Dry weight. The weight of wood and bark as it would be if it had been oven-dried; usually expressed in pounds or tons.

Farmer-owned lands. Lands owned by farm operators, whether part of the farmstead or not; excludes land leased by farm operators from nonfarm owners.

Federal lands. Lands (other than National Forests) administered by Federal agencies.

Forest industry lands. Lands owned by companies or individuals that operate primary wood-using plants.

Forest land. Land that is at least 10 percent stocked with trees of any size, or that formerly had such tree cover and is not currently developed for a nonforest use. The minimum area for classification of forest land is one acre. The components that make up forest land are timberland and all noncommercial forest land (see definitions).

Forest type. A classification of forest land based on the species that form a plurality of live-tree stocking.

Forest-type group. A classification of forest land based on the species forming a plurality of live-tree stocking. A combination of forest types that share closely associated species or site requirements are combined into the following major forest-type groups (the descriptions apply to forests in this state):

a. White/red pine. Forests in which eastern white pine, red pine, or eastern hemlock, singly or in combination, make up the plurality of the stocking; common associates include red maple, oak, sugar maple, and aspen.

b. Spruce/fir. Forests in which red, white, black, or Norway spruces, balsam fir, northern white-cedar, tamarack, or planted larch, singly or in combination, make up a plurality of the stocking; common associates include white pine, red maple, yellow birch, and aspens.

c. Hard pine (also called loblolly/shortleaf pine). Forests in which eastern redcedar or pitch pine, singly or in combination, make up a plurality of the stocking; common associates include white pine, paper birch, sugar maple, and basswood.

d. Oak/pine. Forests in which hardwoods (usually hickory or upland oaks) make up a plurality of the stocking and in which pines or eastern redcedar contribute 25 to 50 percent of the stocking.

e. Oak/hickory. Forests in which upland oaks, hickory, yellow-poplar, black locust, sweetgum, or red maple (when associated with central hardwoods), singly or in combination, make up a plurality of the stocking and in which pines or eastern redcedar make up less than 25 percent of the stocking; common associates include white ash, sugar maple, and hemlock.

f. Oak/gum/cypress. Bottomland forests in which tupelo, blackgum, sweetgum, oaks, or southern cypress, singly or in combination, make up a plurality of the stocking and in which pines make up less than 25 percent of the stocking; common associates include cottonwood, willow, ash, elm, hackberry, and maple.

g. Elm/ash/red maple (also called elm/ash/cottonwood). Forests in which elm, willow, cottonwood, or red maple (when growing on wet sites), singly or in combination, make up a plurality of the stocking; common associates include white ash, sugar maple, aspens, and oaks.

h. Northern hardwoods (also called maple/beech/birch). Forests in which sugar maple, beech, yellow birch, black cherry, or red maple (when associated with northern hardwoods), singly or in combination, make up a plurality of the stocking; common associates include white ash, eastern hemlock, basswood, aspens, and red oak.

i. Aspen/birch. Forests in which aspen, paper birch, or gray birch, singly or in combination, make up a plurality of the stocking; common associates include red maple, white pine, red oaks, and white ash.

Gross growth. The sum of accretion and ingrowth.

Growing-stock trees. Live trees of commercial species classified as sawtimber, poletimber, saplings, or seedlings; that is, all live trees of commercial species except rough and rotten trees.

Growing-stock volume. Net volume, in cubic feet, of growing-stock trees 5.0 inches d.b.h. and larger from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs. Net volume equals gross volume less deduction for cull.

Hard hardwoods. Hardwood species with an average specific gravity of greater than 0.50.

Hardwoods. Dicotyledonous trees, usually broad-leaved and deciduous.

Harvested cropland. All lands from which crops were harvested or hay was cut; all land in orchards, citrus groves, vineyards, and nursery and greenhouse products.

Idle farmland. Former cropland or pasture that has not been tended for within the last 2 years and has less than 10 percent stocking with live trees (established seedlings or larger trees), regardless of species.

Improved/maintained pasture. Land that is currently used and maintained for grazing (not including grazed cropland).

Indian lands. (a) Lands held in trust by the United States or States for Indian tribes or individual Indians. (b) Lands owned in fee by Indian tribes whether subject to Federal or State restrictions against alienation or not.

Industrial and commercial land. Supply yards, parking lots, factories, etc.

Ingrowth. The estimated net volume of growing-stock trees that became 5.0 inches d.b.h. or larger during the period between inventories (divided by the number of growing seasons between surveys to produce average annual ingrowth). Also, the estimated net volume of growing-stock trees 5.0 inches d.b.h. and larger that are growing on land that was reclassified from noncommercial forest land or nonforest land to timberland.

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

$$(0.22D^2 - 0.71D)(0.904762)$$

for 4-foot sections, where D=diameter inside bark at the small end of the log section. This rule is used as the USDA Forest Service standard log rule in the Eastern United States.

Land area. (a) Bureau of Census: 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. (b) Forest Inventory and Analysis: same as (a) except that the minimum width of streams, etc. is 120 feet, and the minimum size of lakes, etc. is 1 acre.

Land use. A classification of land that indicates the primary use at the time of inventory. Major categories are forest land and nonforest land (see definitions).

Merchantable stem. The main stem of the tree between a 1-foot stump height and a 4-inch top diameter (outside the bark), including the wood and bark.

Mining and waste land. Surface mining, gravel pits, dumps.

Miscellaneous private lands. Privately owned lands other than forest industry and farmer-owned lands.

Mortality. The estimated net volume of growing-stock trees at the previous inventory that died from natural causes before the current inventory (divided by the number of growing seasons between surveys to produce average annual mortality).

National Forest lands. Federal lands legally designated as National Forests or purchase units and other lands administered as part of the National Forest System by the USDA Forest Service.

Net change. The difference between the current and previous inventory estimates of growing-stock volume (divided by the number of growing seasons between surveys to produce average annual net change). Components of net change are ingrowth plus accretion, minus mortality, minus cull increment, plus cull decrement, minus removals.

Net dry weight. The dry weight of woody material less the weight of all unsound (rotten) material.



Net growth. The change, resulting from natural causes, in growing-stock volume during the period between surveys (divided by the number of growing seasons to produce average annual net growth). Components of net growth are ingrowth plus accretion, minus mortality, minus cull increment, plus cull decrement.

Noncensus water. Streams/rivers between 120 feet and 200 feet in width, and bodies of water between 1 and 4.5 acres in size. The Bureau of the Census classifies such water as land.

Noncommercial forest land. Reserved productive forest land, Christmas tree plantations, other forest land, and other reserved forest land (see definitions).

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

Nonforest land. Land that has never supported forests, or land formerly forested but now in nonforest use such as cropland, pasture, residential areas, marshes, swamps, highways, industrial or commercial sites, or noncensus water.

Nonsalvable dead tree. A dead tree with most or all of its bark missing that is at least 5.0 inches d.b.h. and is at least 4.5 feet tall.

Nonstocked area. A stand-size class of forest land that is stocked with less than 10 percent of minimum full stocking with live trees.

Other cropland. Includes cropland used for cover crops and soil improvement (legumes).

Other farmland. All nonforest land on a farm excluding cropland, pasture, and idle farmland; includes farm lanes, stock pens, and farmsteads.

Other forest land. Forest land that is incapable of producing 20 cubic feet per acre per year of industrial wood under natural conditions, because of adverse site conditions (formerly known as unproductive forest land).

Other reserved forest land. Forest land that is incapable of producing 20 cubic feet per acre per year of industrial wood under natural conditions, because of adverse site conditions, and is

protected through statute or administrative designation.

Ownership class. A classification of forest land based on ownership and nature of business or control of decisionmaking for the land. It encompasses all types of legal entities having ownership interest in the land, whether public or private.

Pasture land. Includes any pasture land other than cropland and woodland pasture. It can include lands that have had lime fertilizer or seed applied, or that had been improved by irrigation, drainage, or control of weeds and brush.

Pastured cropland. Includes rotation pasture and grazing land that would have been used for crops without additional improvement.

Pastured timberland. Land that is partially developed, maintained, or managed for pasture and grazing, but which continues to meet the definition of timberland.

Poletimber stand. A stand-size class of forest land that is stocked with at least 10 percent of minimum full stocking with 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.

Poletimber tree. A live tree of commercial species meeting regional specifications of soundness and form and at least 5.0 inches in d.b.h., but smaller than a sawtimber tree.

Preferred tree. A high-quality tree, from a lumber viewpoint, that would be favored in cultural operations. General characteristics include grade 1 butt log (if sawtimber size), good form, good vigor, and freedom from serious damage.

Recreation site. Parks, campgrounds, playing fields, tracks, etc.

Relative stand density. A stocking classification procedure that reflects species, stage of development, and the characteristics of the trees present in a stand.

Removals. The net growing-stock volume harvested or killed in logging, cultural operations (such as timber stand improvement) or land clearing, and the net growing-stock volume neither harvested nor killed but growing on land that was

reclassified from timberland to noncommercial forest land or nonforest land during the period between surveys. This volume is divided by the number of growing seasons to produce average annual removals.

Reserved productive forest land. Forest land sufficiently productive to qualify as timberland but withdrawn from timber utilization through statute or administrative designation; land exclusively used for Christmas tree production.

Rights-of-way. Highways, pipelines, powerlines, canals.

Rotten tree. A live tree of commercial species that does not contain at least one 12-foot sawlog or two noncontiguous sawlogs, each 8 feet or longer, now or prospectively, and does not meet regional specifications for freedom from defect primarily because of rot; that is, more than 50 percent of the cull volume in the tree is rotten.

Rough tree. (a) The same as a rotten tree except that a rough tree does not meet regional specifications for freedom from defect primarily because of roughness or poor form; also (b) a live tree of noncommercial species.

Salvable dead tree. A tree at least 5.0 inches d.b.h. that has died recently and still has intact bark; may be standing, fallen, windthrown, knocked down, or broken off.

Sampling error. A measure of the reliability of an estimate, expressed as a percentage of the estimate. The sampling errors given in this report correspond to one standard deviation and are calculated as the square root of the variance, divided by the estimate, and multiplied by 100. Indicated in statistical tables as "SE".

Sapling. All live trees 1.0 through 4.9 inches d.b.h.

Sapling/seedling stand. A stand-size class of forest land that is stocked with at least 10 percent of minimum full stocking with live trees with half or more of such stocking in saplings or seedlings or both.

Sawlog. A log meeting regional standards of diameter, length, and freedom from defect, including a minimum 8-foot length and a minimum top diameter inside bark of 6 inches for softwoods

and 8 inches for hardwoods. (See specifications under Tree-Grade Classification.)

Sawlog portion. That part of the bole of a sawtimber tree between the stump and the sawlog top.

Sawlog top. The point on the bole of a sawtimber tree above which a sawlog cannot be produced. The minimum sawlog top is 7.0 inches diameter outside bark (d.o.b.) for softwoods and 9.0 inches d.o.b. for hardwoods.

Sawtimber stand. A stand-size class of forest land that is stocked with at least 10 percent of minimum 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.

Sawtimber tree. A live tree of commercial species at least 9.0 inches d.b.h. for softwoods or 11.0 inches for hardwoods, containing at least one 12-foot sawlog or two noncontiguous 8-foot sawlogs, and meeting regional specifications for freedom from defect.

Sawtimber volume. Net volume in board feet, by the International 1/4-inch rule, of sawlogs in sawtimber trees. Net volume equals gross volume less deductions for rot, sweep, and other defects that affect use for lumber.

SE. See Sampling error.

Seedling. A live tree less than 1.0 inch d.b.h. and at least 1 foot tall.

Single-family house. House sheltering one family and immediately adjacent managed land.

Snag. Standing dead tree with most or all of its bark missing that is at least 5.0 inches d.b.h. and at least 4.5 feet tall (does not include salvable dead).

Soft hardwoods. Hardwood species with an average specific gravity of 0.50 or less.

Softwoods. Coniferous trees, usually evergreen and having needles or scalelike leaves.

Stand. A group of forest trees growing on forest land.

Stand origin. An indication of how the measured stand originated: 100 percent natural, 100 percent artificial, or a combination of both.

Stand-size class. A classification of forest land based on the size class (that is, seedlings, saplings, poletimber, or sawtimber) of the stocking of all live trees in the area.

Standard cord. A unit of measure for stacked bolts of wood, encompassing 128 cubic feet of wood, bark, and air space. Fuelwood cord estimates can be derived from cubic-foot estimates of growing stock by applying an average factor of 80 cubic feet of solid wood per cord. For pulpwood, a conversion of 85 cubic feet of solid wood per cord is used because pulpwood is more uniform.

State lands. Lands owned by the state or leased to the state for 50 years or more.

Stocking. The degree of occupancy of land by trees relative to the growth potential utilized by a site. It is expressed as a percent of the "normal" value presented in yield tables and stocking guides. Two categories of stocking are used in this report: all live trees and growing-stock trees. The relationships between the classes and the percentage of the stocking standard are: nonstocked (0 to 9); poorly stocked (10 to 34); moderately stocked (35 to 59); fully stocked (60 to 100); and overstocked (greater than 100).

Strip mine. Area devoid of vegetation due to current or recent general excavation.

Stump. The main stem of a tree from ground level to 1 foot above ground level, including the wood and bark.

Timberland. Forest land producing or capable of producing crops of industrial wood (more than 20 cubic feet per acre per year) and not withdrawn from timber utilization (formerly known as commercial forest land).

Timber products. Roundwood (round timber) products and manufacturing plant by-products harvested from growing-stock trees on timberland; from other sources, such as cull trees, salvable dead trees, limbs, tops, and saplings; and from trees on noncommercial forest and nonforest lands.

Timber removals. The growing-stock or sawtimber volume of trees removed from the inventory for roundwood products, plus logging residues, volume destroyed during land clearing, and volume of standing trees on land that was reclassified from timberland to noncommercial forest land.

Top. The wood and bark of a tree above the merchantable height (or above the point on the stem 4.0 inches in diameter outside bark); generally includes the uppermost stem, branches, and twigs of the tree, but not the foliage.

Tract/multiple family housing. Multiple individual residential units or attached units (e.g., apartment buildings and condominiums) and immediately adjacent managed land.

Transportation right-of-way. Land associated with highways and railroads.

Tree class. A classification of the quality or condition of trees for sawlog production. Tree class for sawtimber trees is based on their current condition. Tree class for poletimber trees is a prospective determination—a forecast of their potential quality when they reach sawtimber size (11.0 inches d.b.h. for hardwoods, 9.0 inches d.b.h. for softwoods).

Tree grade. A classification of sawtimber quality based on guidelines for tree grades for hardwoods, white pine, and southern pine. (Note: Red pine was graded using the guidelines for southern pine. All specifications are shown under Tree-Grade Classification.)

Trees. Woody plants that have well-developed stems and that usually are more than 12 feet tall at maturity.

Unproductive forest land. See Other forest land.

Upper-stem portion. That part of the main stem or fork of a sawtimber tree above the sawlog top to a diameter of 4.0 inches outside bark, or to the point where the main stem or fork breaks into limbs.

Urban forest land. Forest land sufficiently productive to qualify as timberland that is completely surrounded by or nearly surrounded by urban development (not parks), whether commercial, industrial, or residential.

Utility right-of-way. Land associated with pipeline or electric transmission lines; identified only if vegetative cover differs from adjacent land use.

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

Volume suitable for pulpwood. The sound volume (only rotten cull excluded) of growing-stock and rough trees.

Windbreak/hedgerow. Linear areas, less than 120 feet in width, with predominantly tree and/or shrub vegetation

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## Tree Species of New Hampshire (as encountered on field plots)

| Scientific Name ***                          | Common Name(s)       | Occurrence** |
|--|----------------------|--------------|
| <b>Softwoods</b>                             |                      |              |
| <i>Abies balsamea</i> (L.) Mill.             | balsam fir           | vc           |
| <i>Juniperus virginiana</i> L.               | eastern redcedar     | vr           |
| <i>Larix laricina</i> (Du Roi) K. Koch       | tamarack (native)    | r            |
| <i>Picea glauca</i> (Moench) Voss            | white spruce         | r            |
| <i>Picea mariana</i> (Mill.) B.S.P.          | black spruce         | r            |
| <i>Picea rubens</i> Sarg.                    | red spruce           | vc           |
| <i>Pinus resinosa</i> Ait.                   | red pine             | r            |
| <i>Pinus rigida</i> Mill.                    | pitch pine           | r            |
| <i>Pinus strobus</i> L.                      | eastern white pine   | vc           |
| <i>Thuja occidentalis</i> L.                 | northern white-cedar | r            |
| <i>Tsuga canadensis</i> (L.) Carr.           | eastern hemlock      | vc           |
| <b>Hardwoods</b>                             |                      |              |
| <i>Acer negundo</i> L. *                     | boxelder             | vr           |
| <i>Acer pensylvanicum</i> L. *               | striped maple        | r            |
| <i>Acer rubrum</i> L.                        | red maple            | vc           |
| <i>Acer saccharinum</i> L.                   | silver maple         | r            |
| <i>Acer saccharum</i> Marsh.                 | sugar maple          | vc           |
| <i>Acer spicatum</i> Lam. *                  | mountain maple       | vr           |
| <i>Ailanthus altissima</i> (Mill.) Swingle * | ailanthus            | vr           |
| <i>Amelanchier</i> sp. Medic. *              | serviceberry         | vr           |
| <i>Betula alleghaniensis</i> Britton         | yellow birch         | vc           |
| <i>Betula lenta</i> L.                       | sweet birch          | c            |
| <i>Betula papyrifera</i> Marsh.              | paper birch          | vc           |
| <i>Betula populifolia</i> Marsh. *           | gray birch           | r            |
| <i>Carya</i> sp. Nutt.                       | hickory              | r            |
| <i>Carya cordiformis</i> (Wangenh.) K. Koch  | bitternut hickory    | vr           |
| <i>Carya glabra</i> (Mill.) Sweet            | pignut hickory       | vr           |
| <i>Carya laciniosa</i> (Michx. f.) Loud.     | shellbark hickory    | vr           |
| <i>Carya ovata</i> (Mill.) K. Koch           | shagbark hickory     | r            |
| <i>Fagus grandifolia</i> Ehrh.               | American beech       | vc           |
| <i>Fraxinus americana</i> L.                 | white ash            | c            |
| <i>Fraxinus nigra</i> Marsh.                 | black ash            | r            |
| <i>Fraxinus pennsylvanica</i> Marsh.         | green ash            | r            |
| <i>Juglans cinerea</i> L.                    | butternut            | vr           |
| <i>Malus</i> sp. Mill. *                     | apple                | r            |
| <i>Nyssa sylvatica</i> Marsh.                | blackgum             | vr           |
| <i>Ostrya virginiana</i> (Mill.) K. Koch *   | eastern hophornbeam  | r            |
| <i>Populus balsamifera</i> L.                | balsam poplar        | r            |
| <i>Populus grandidentata</i> Michx.          | bigtooth aspen       | c            |
| <i>Populus tremuloides</i> Michx.            | quaking aspen        | c            |

## Tree Species of New Hampshire (continued)

| Scientific Name ***                | Common Name(s)        | Occurrence** |
|------------------------------------|-----------------------|--------------|
| <i>Prunus sp.</i> L. *             | cherry, plum          | vr           |
| <i>Prunus pensylvanica</i> L. f. * | pin cherry            | r            |
| <i>Prunus serotina</i> Ehrh.       | black cherry          | c            |
| <i>Prunus virginiana</i> L. *      | chokecherry           | vr           |
| <i>Quercus alba</i> L.             | white oak             | c            |
| <i>Quercus bicolor</i> Willd.      | swamp white oak       | vr           |
| <i>Quercus coccinea</i> Muenchh.   | scarlet oak           | r            |
| <i>Quercus prinus</i> L.           | chestnut oak          | vr           |
| <i>Quercus rubra</i> L.            | northern red oak      | vc           |
| <i>Quercus stellata</i> Wangenh.   | post oak              | vr           |
| <i>Quercus velutina</i> Lam.       | black oak             | c            |
| <i>Robinia pseudoacacia</i> L.     | black locust          | vr           |
| <i>Salix sp.</i> L. *              | willow                | vr           |
| <i>Sorbus americana</i> Marsh. *   | American mountain-ash | r            |
| <i>Tilia sp.</i> L.                | basswood              | vr           |
| <i>Tilia americana</i> L.          | American basswood     | r            |
| <i>Ulmus americana</i> L.          | American elm          | r            |
| <i>Ulmus rubra</i> Muhl.           | slippery elm          | vr           |

\*\*\* Names according to: Little, Elbert L., Jr. 1979. Checklist of United States Trees (native and naturalized). Agric. Handb. 541. Washington, DC: U.S Department of Agriculture. 375 p.

\*\* Occurrence is based on the proportion of the species among all live trees 5.0 inches d.b.h. or larger encountered on forest survey field plots: vr = very rare (<0.05%), r = rare (0.05 to 0.49%), c = common (0.5 to 4.9%), and vc = very common (>5.0%).

\* Noncommercial species.

## Species Groups of New Hampshire

| Species Group        | Scientific name   | Common name  |
|----------------------|---|--|
| Balsam fir           | <i>Abies balsamea</i>   | balsam fir   |
| Tamarack             | <i>Larix laricina</i>   | tamarack (native)  |
| White spruce         | <i>Picea glauca</i>   | white spruce   |
| Black spruce         | <i>Picea mariana</i>  | black spruce   |
| Red spruce           | <i>Picea rubens</i>   | red spruce   |
| Red pine             | <i>Pinus resinosa</i>   | red pine   |
| White pine           | <i>Pinus strobus</i>  | eastern white pine   |
| Northern white-cedar | <i>Thuja occidentalis</i>   | northern white-cedar   |
| Hemlock              | <i>Tsuga canadensis</i>   | eastern hemlock  |
| Other softwoods      | <i>Juniperus virginiana</i><br><i>Picea abies</i><br><i>Pinus rigida</i>  | eastern redcedar<br>Norway spruce<br>pitch pine                      |
| Sugar maple          | <i>Acer saccharum</i>   | sugar maple  |
| Red maple            | <i>Acer rubrum</i><br><i>Acer saccharinum</i>   | red maple<br>silver maple  |
| Yellow birch         | <i>Betula alleghaniensis</i>  | yellow birch   |
| Paper birch          | <i>Betula papyrifera</i>  | paper birch  |
| Beech                | <i>Fagus grandifolia</i>  | American beech   |
| White ash            | <i>Fraxinus americana</i>   | white ash  |
| Black ash            | <i>Fraxinus nigra</i>   | black ash  |
| Aspen                | <i>Populus balsamifera</i><br><i>Populus grandidentata</i><br><i>Populus heterophylla</i><br><i>Populus tremuloides</i> | balsam poplar<br>bigtooth aspen<br>swamp cottonwood<br>quaking aspen |
| White oaks           | <i>Quercus alba</i><br><i>Quercus bicolor</i><br><i>Quercus prinus</i><br><i>Quercus stellata</i>                       | white oak<br>swamp white oak<br>chestnut oak<br>post oak             |

## Species Groups of New Hampshire (continued)

| Species Group            | Scientific name               | Common name         |
|--------------------------|-------------------------------|---------------------|
| Red oaks                 | <i>Quercus coccinea</i>       | scarlet oak         |
|                          | <i>Quercus ellipsoidalis</i>  | northern pin oak    |
|                          | <i>Quercus phellos</i>        | willow oak          |
|                          | <i>Quercus rubra</i>          | northern red oak    |
|                          | <i>Quercus velutina</i>       | black oak           |
| Basswood                 | <i>Tilia americana</i>        | American basswood   |
| Elm                      | <i>Ulmus americana</i>        | American elm        |
|                          | <i>Ulmus rubra</i>            | slippery elm        |
| Other hardwoods          | <i>Acer sp.</i>               | maple               |
|                          | <i>Acer pensylvanicum</i>     | striped maple       |
|                          | <i>Acer negundo</i>           | boxelder            |
|                          | <i>Acer spicatum</i>          | mountain maple      |
|                          | <i>Ailanthus altissima</i>    | ailanthus           |
|                          | <i>Amelanchier sp.</i>        | serviceberry        |
|                          | <i>Betula sp.</i>             | birch               |
|                          | <i>Betula lenta</i>           | sweet birch         |
|                          | <i>Betula populifolia</i>     | gray birch          |
|                          | <i>Carpinus caroliniana</i>   | American hornbeam   |
|                          | <i>Carya sp.</i>              | hickory             |
|                          | <i>Carya cordiformis</i>      | bitternut hickory   |
|                          | <i>Carya glabra</i>           | pignut hickory      |
|                          | <i>Carya laciniosa</i>        | shellbark hickory   |
|                          | <i>Carya ovata</i>            | shagbark hickory    |
|                          | <i>Castanea dentata</i>       | American chestnut   |
|                          | <i>Comus florida</i>          | flowering dogwood   |
|                          | <i>Crataegus sp.</i>          | hawthorn            |
|                          | <i>Fraxinus pennsylvanica</i> | green ash           |
|                          | <i>Juglans cinerea</i>        | butternut           |
|                          | <i>Malus sp.</i>              | apple               |
|                          | <i>Morus rubra</i>            | red mulberry        |
|                          | <i>Nyssa sylvatica</i>        | blackgum            |
|                          | <i>Ostrya virginiana</i>      | eastern hophornbeam |
|                          | <i>Prunus sp.</i>             | cherry, plum        |
|                          | <i>Prunus pensylvanica</i>    | pin cherry          |
|                          | <i>Prunus serotina</i>        | black cherry        |
|                          | <i>Prunus virginiana</i>      | chokecherry         |
|                          | <i>Quercus ilicifolia</i>     | bear oak, scrub oak |
|                          | <i>Robinia pseudoacacia</i>   | black locust        |
|                          | <i>Salix sp.</i>              | willow              |
| <i>Salix nigra</i>       | black willow                  |                     |
| <i>Sassafras albidum</i> | sassafras                     |                     |
| <i>Sorbus americana</i>  | American mountain-ash         |                     |
| <i>Tilia sp.</i>         | basswood                      |                     |
|                          | unknown or not listed tree    |                     |



## Tree-Grade Classification

### HARDWOOD TREE GRADES

| GRADING FACTOR  | TREE GRADE 1          | TREE GRADE 2       | TREE GRADE 3 |
|---|-----------------------|--------------------|--------------|
| Length of grading zone (feet)   | Butt 16               | Butt 16            | Butt 16      |
| Length of grading section <sup>a</sup> (feet)   | Best 12               | Best 12            | Best 12      |
| Minimum DBH (inches)  | 16 <sup>b</sup>       | 13                 | 11           |
| Minimum Diameter inside bark at top of grading section (inches)                                   | 13 <sup>b</sup> 16 20 | 11 <sup>c</sup> 12 | 8            |
| Clear cuttings on 3rd best face <sup>d</sup>  |                       |                    |              |
| minimum length (feet)   | 7 5 3                 | 3 3                | 2            |
| number on face (maximum)  | 2                     | 2 3                | unlimited    |
| yield in face length (minimum)  | 5/6                   | 4/6                | 3/6          |
| Cull deduction, including crook and sweep but excluding shake, maximum within grading section (%) | 9                     | 9 <sup>e</sup>     | 50           |

<sup>a</sup> Whenever a 14- or 16-foot section of the butt 16-foot log is better than the best 12-foot section, the grade of the longer section will become the grade of the tree. This longer section, when used, is the basis for determining the grading factors, such as diameter and cull deduction.

<sup>b</sup> In basswood and ash, diameter inside bark at the top of the grading section may be 12 inches and DBH may be 15 inches.

<sup>c</sup> Grade 2 trees can be 10 inches diameter inside bark at the top of the grading section if otherwise meeting surface requirements for small grade 1's.

<sup>d</sup> A clear cutting is a portion of a face free of defects, extending the width of the face. A face is one-fourth of the surface of the grading section as divided lengthwise.

<sup>e</sup> Fifteen percent crook and sweep, or 40 percent total cull deduction are permitted in grade 2 if size and surface of grading section qualify as grade 1. If rot shortens the required clear cuttings to the extent of dropping the butt log to grade 2, do not drop the tree's grade to 3 unless the cull deduction for rot is greater than 40 percent.

## Tree-Grade Classification (continued)

### TIE AND TIMBER GRADE

| GRADE FACTORS                                    | SPECIFICATIONS  |
|--|---|
| Position in tree                                 | Butts and uppers  |
| Scaling Diameter (inches)                        | 8 inches d.i.b. and larger  |
| Length, without trim (feet)                      | 12 feet and larger  |
| Clear cuttings                                   | no requirements: not graded on cutting basis  |
| Maximum sweep allowance                          | One-fourth d.i.b. of small end for half logs, and one-half d.i.b. for logs sixteen feet long  |
| Sound surface defects permitted<br>Single knots  | Any number, if none has an average collar <sup>a</sup> diameter that is more than one third of the log diameter at the point of occurrence  |
| Sound surface defects permitted<br>Whorled knots | Any number, provided the sum of the collar diameters does not exceed one third the log diameter at the point of occurrence  |
| Sound surface defects permitted<br>Knots         | Any number not exceeding knot specifications, if they do not extend more than 3 inches into the contained tie or timber   |
| Unsound surface defects permitted <sup>b</sup>   | Any number and size if they do not extend into contained tie or timber. If they extend into the contained tie or timber, they shall not exceed size, number, and depth of limits for sound defects. |

<sup>a</sup> Knot collar is the average of the vertical and horizontal diameters of the limb, or knot swelling, as measured flush with the surface of the log.

<sup>b</sup> Interior defects are not visible in standing trees. They are considered in grading cut logs. No interior defects are permitted except one shake not more than one-third the width of the contained tie or timber, and one split not more than 5 inches long.

## Tree-Grade Classification (continued)

### EASTERN WHITE PINE TREE GRADE SPECIFICATIONS

| GRADING FACTOR   | TREE GRADE 1   | TREE GRADE 2   | TREE GRADE 3  | TREE GRADE 4  |
|--|--|--|---|---|
| (1) Minimum DBH (inches)   | 9  | 9  | 9   | 9   |
| (2) Maximum weevil injury in butt 16 ft section (number)             | None   | None   | 2 injuries  | No limit  |
| (3) Minimum face requirements on butt 16 ft section                  | Two full length or four 50% length good faces <sup>1</sup> (In addition, knots on balance of faces shall not exceed size limitations for grade 2 sections) | NO GOOD FACES REQUIRED. Maximum diameter of knots on three best faces: <b>SOUND RED KNOTS</b> not to exceed 1/6 of scaling dia. or 3 inch maximum <sup>2</sup> <b>DEAD OR BLACK KNOTS</b> , including overgrown knots, not to exceed 1/12 scaling dia. and 1-1/2 inch max. | NO GOOD FACES REQUIRED. Maximum diameter of knots on three best faces: <b>SOUND RED KNOTS</b> not to exceed 1/3 of scaling diameter or 5 inch maximum <sup>2</sup> <b>DEAD OR BLACK KNOTS</b> , including overgrown knots, not to exceed 1/6 scaling dia. and 2-1/2 inch max. | Includes all trees not qualifying for grade 3 or better and judged to have at least 1/3 of their gross volume in sound wood suitable for manufacture into standard lumber |
| (4) Maximum sweep or crook in butt 16 ft section (percent)           | 20   | 30   | 40  | No limit  |
| (5) Maximum total scaling deduction in butt 16 ft. section (percent) | 50   | 50   | 50  | No limit  |

After the tentative grade of the section is established from face examination, the section will be reduced one grade whenever the following defects are evident:

**CONKS, PUNK KNOTS, AND PINE BORER DAMAGE ON THE SURFACE OF THE SECTION<sup>3</sup>**  
 Degrade one grade if present on one face. Degrade two grades if present on two faces. Degrade three grades if present on three or four faces.

(7) If the final grade of the grading section is 1, 2, or 3, examine the tree for weevil injuries in the merchantable stem above 16 ft. If the total apparent weevil injuries exceed three, degrade the tree one grade below the section grade<sup>3</sup>. Otherwise the tree grade equals the final section grade.

<sup>1</sup> Trees under 16 inches DBH require four full length good faces.

<sup>2</sup> Scaling diameter is estimated at the top of the 16-foot grading section.

<sup>3</sup> No tree will be designated below Grade 4 unless net tree scale is less than one-third of gross tree scale.

## Tree-Grade Classification (continued)

### SOUTHERN PINE TREE GRADES

**Grade 1** - trees with 3 or 4 clear faces on the 16-foot grading section.

**Grade 2** - trees with 1 or 2 clear faces on the 16-foot grading section.

**Grade 3** - trees with no clear faces on the 16-foot grading section.

After the tentative grade is established, the tree will be reduced one grade for each of the following:

(1) **Sweep.** Degrade any tentative Grade 1 or 2 tree one grade if sweep in the lower 12 feet of the grading section amounts to 3 or more inches and equals or exceeds one-fourth the diameter at breast height.

(2) **Heart rot.** Degrade any tentative Grade 1 or 2 tree one grade if conks, punk knots, or other evidence of advanced heart rot is found anywhere on the tree stem.

**NOTE:** No tree can be degraded below Grade 3, provided the total scaling deductions for sweep and/or rot do not exceed two-thirds the gross scale of the tree. Trees with total scaling deductions in excess of two-thirds are classified as cull.

A face is one-fourth the circumference of the 16-foot grading section and extends the full length of the grading section. Clear faces are those free from knots measuring more than 1/2 inch in diameter, overgrown knots of any size, and holes more than 1/4 inch in diameter. Faces may be rotated, if necessary, to obtain the maximum number of clear faces on the grading section.

One-log trees are graded by using the Southern Pine Log Grades. This is recommended because the entire merchantable volume of the tree is contained in the graded section. The log grading system gives a more accurate prediction of the lumber grade-yields for such trees than would the tree grading system.

### SPRUCE, FIR, CEDAR, TAMARACK, AND HEMLOCK LOGS

| Minimum Merchantability Specifications for Grade One Logs |                               |                 |                 |   |
|---|-------------------------------|-----------------|-----------------|---|
| D.I.B. <sup>1</sup>                                       | LENGTH <sup>2</sup>           | TOTAL DEDUCTION | SWEEP PERMITTED | OTHER REQUIREMENTS  |
| 6" - 12"  | 12' - 16' in 2 foot multiples | 50 %            | 25 %            | Sound knots not over 2" in diameter permitted. Shake permitted up to 20 % of gross scale if not combined with other serious defect. |
| 13"+  | 12' - 16' in 2 foot multiples | 50 %            | 25 %            | Sound knots not over 3" in diameter permitted. Shake permitted up to 20 % of gross scale if not combined with other serious defect. |

<sup>1</sup> ...at small end of log.

<sup>2</sup> ...without trim.

### TREE GRADE 5 (ALL SPECIES)

Any tree which does not make tree grade 1,2, or 3 (or 4) but is still a merchantable tree.

## Field Plot Data Quality Standards

A quality assurance (QA) program is performed to ensure that a final product will meet the desired level of accuracy and precision. Quality control (QC) procedures are specific actions within the quality assurance program that are designed to maintain data quality within an acceptable range. There are three basic aspects of any QA program: error prevention, assessment and appraisal, and correction. Error prevention is achieved by developing standardized methods, establishing measurement quality objectives and data quality standards, and applying calibration techniques and training. Assessment and appraisal is accomplished by performing audits, debriefings and field personnel feedback, data validation and verification, and a remeasurement program for QC data collection. The purpose of correction, the last aspect of the quality assurance program, is to use all of the information from the prevention and assessment and appraisal components to make improvements, where needed, in the measurement system.

Our periodic resource inventories are designed to satisfy specified precision objectives. Much of our resource information comes from a statistically sound but very small sample of actual ground conditions that were selected to satisfy the precision objectives. While there is no guarantee that the data are completely error-free, it is obvious that field errors must be kept to a minimum. Establishing and adhering to a quality assurance (QA) program can accomplish this objective. By setting standards and monitoring fieldwork, we can detect and correct, prevent, or eliminate the repetition of most errors.

After the initial training period, periodic inspections are made of every crew's fieldwork by field supervisors. The number of errors detected will partially determine frequency of inspections. All instances of error are analyzed and discussed with the crew concerned. Supervisors monitor progress and goals, and minimum acceptable performance levels are adjusted as conditions warrant. In addition, a

percentage of all plots are subjected to a second measurement as part of the quality control program.

Tolerance levels are set depending on the type of data item. When an item is obtained by measurements that can be repeated with uniform results by several individuals, close tolerance limits that define acceptable data are set. Some items require subjective evaluation; the breadth of the tolerance limits depends on the degree of subjectivity. When an item requires a mutually exclusive answer, crews are expected to complete the item as best they can, based on their training, instructions received, and evidence on the plot, with zero tolerance for error.

### Quality Control Program

The following procedures were followed to obtain the QC tree data results.

#### *Sample Size*

- \* Four percent random sample of all plots in state is selected.

#### *Data Collection*

- \* Crew 1 visits a plot.
- \* The plot is identified as QC by field supervisor.
- \* Crew 2 visits the same plot.

#### *Compilation*

- \* Trees from both data sets (Crew 1 and 2) are extracted from forested subplots.
- \* Trees are matched between sets based on the following criteria:
  - 1) Tree numbers for all remeasure trees.
  - 2) Distance, azimuth, and species for all new or ingrowth trees.

#### *Comparison*

- \* Tolerance limits from state field instructions are used to compare the tree data between Crew 1 and Crew 2.
- \* Four tree data item classes are grouped prior to applying tolerance.
  - 1) Six condition classes are reduced to three: live, dead,

- 2) Six tree grades are reduced to four: merchantable, tie & timber, cull, and dead.
- 3) Six tree classes are reduced to five: preferred and acceptable, rough, rotten, dead, and snag.

- 4) Three merchantability classes are reduced to two: sound and unsound.

### Results

- \* Percentage of data within tolerance limits, and
- \* Number of times data exceeded tolerance limits.
- \* Values are either within tolerance (1x) or exceed tolerance (2x, 3x, or 4x).

#### New Hampshire QA Tree Data Results from 123 Subplots

| Tree data item                           | Percentage of data within tolerance |     |     |     | Number of times data exceeded tolerance |     |     |     | Records |
|--|-------------------------------------|-----|-----|-----|---|-----|-----|-----|---------|
|  | @1x                                 | @2x | @3x | @4x | @1x                                     | @2x | @3x | @4x |         |
| Species -- No tolerance                  | 97%                                 |     |     |     | 55                                      |     |     |     | 1,599   |
| Trees (missed) -- No tolerance           | 99%                                 |     |     |     | (23)                                    |     |     |     | 1,599   |
| Horizontal distance -- .2 feet (+ or -)  | 72%                                 | 89% | 94% |     | 454                                     | 175 | 90  |     | 1,599   |
| Azimuth -- 2 degrees (+ or -)            | 73%                                 | 91% | 95% |     | 430                                     | 146 | 73  |     | 1,599   |
| Tree history -- No tolerance             | 96%                                 |     |     |     | 25                                      |     |     |     | 698     |
| Diameter -- .1 inch (+ or -)             | 91%                                 | 94% | 96% |     | 112                                     | 71  | 51  |     | 1,268   |
| Ecotype -- No tolerance                  | 97%                                 |     |     |     | 32                                      |     |     |     | 1,180   |
| Condition -- No tolerance**              | 97%                                 |     |     |     | 40                                      |     |     |     | 1,249   |
| Tree grade -- No tolerance**             | 80%                                 |     |     |     | 65                                      |     |     |     | 318     |
| Saw length -- 4 feet (+ or -)            | 47%                                 | 68% | 82% | 92% | 168                                     | 103 | 56  | 27  | 318     |
| Bole length -- 4 feet (+ or -)           | 51%                                 | 75% | 90% | 96% | 486                                     | 250 | 104 | 36  | 996     |
| Total length -- 10 feet (+ or -)         | 77%                                 | 96% | 98% |     | 245                                     | 47  | 17  |     | 1,084   |
| Board foot cull -- 10% (+ or -)          | 75%                                 | 87% | 92% | 93% | 81                                      | 41  | 27  | 21  | 318     |
| Board foot soundness -- 1 class (+ or -) | 85%                                 | 89% | 90% | 92% | 47                                      | 35  | 32  | 27  | 318     |
| Cubic foot cull -- 10% (+ or -)          | 78%                                 | 93% | 97% | 98% | 221                                     | 72  | 33  | 18  | 996     |
| Cubic foot soundness -- 1 class (+ or -) | 85%                                 | 87% | 89% | 92% | 153                                     | 130 | 107 | 83  | 996     |
| Crown ratio -- 1 class (+ or -)          | 83%                                 | 95% |     |     | 169                                     | 52  |     |     | 996     |
| Crown class -- No tolerance              | 69%                                 |     |     |     | 313                                     |     |     |     | 996     |
| General damage -- Variable tolerance     | 96%                                 |     |     |     | 40                                      |     |     |     | 996     |
| Special damage -- Variable tolerance     | 86%                                 |     |     |     | 288                                     |     |     |     | 1,992   |
| Tree class -- No tolerance**             | 91%                                 |     |     |     | 118                                     |     |     |     | 1,249   |
| Merchantability class -- No tolerance**  | 89%                                 |     |     |     | 126                                     |     |     |     | 1,148   |

## Metric Equivalents

1 acre = 4,046.86 square meters  
1 acre = 0.404686 hectares  
1,000 acres = 404.686 hectares  
1,000,000 acres = 404,686 hectares  
1 board foot = 0.00348 cubic meters  
1 board foot = 3,480 cubic centimeters  
1,000 board feet = 3.48 cubic meters  
1,000,000 board feet = 3,480 cubic meters  
1 cubic foot = 0.028317 cubic meters  
1,000 cubic feet = 28.317 cubic meters  
1,000,000 cubic feet = 28,317 cubic meters  
1 cord (wood, bark, and air space) = 3.6246 cubic meters  
1 cord (solid wood, pulpwood) = 2.4069 cubic meters  
1 cord (solid wood, other than pulpwood) = 2.2654 cubic meters  
1,000 cords (pulpwood) = 2,406.9 cubic meters  
1,000 cords (other products) = 2,265.4 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 = 929.03 square centimeters  
1 square foot = 0.0929 square meters  
1 square foot per acre basal area = 0.229568 square meters per hectare  
1 cubic foot per acre = 0.0699 cubic meters per hectare  
1 ton = 907.1848 kilograms  
1,000 tons = 907.1848 metric tons  
Breast height = 1.4 meters above ground level

Although 1,000 board feet are theoretically equivalent to 2.36 cubic meters, this is true only when a board foot is actually a piece of wood with a volume 1/12 of a cubic foot. The International 1/4-inch log rule is used by the USDA Forest Service in the East to estimate the product potential in board feet. The reliability of the estimate obtained by conversion will vary with the size of the log measure. The conversion given here, 3.48 cubic meters, is based on the cubic volume of a log 16 feet long and 15 inches in diameter inside bark (d.i.b.) at the small end. This conversion could be used for average comparisons when accuracy of 10 percent is acceptable. Because the board foot unit is not a true measure of wood volume and because products other than dimension lumber are becoming important, this unit may eventually be phased out and replaced by the cubic meter.

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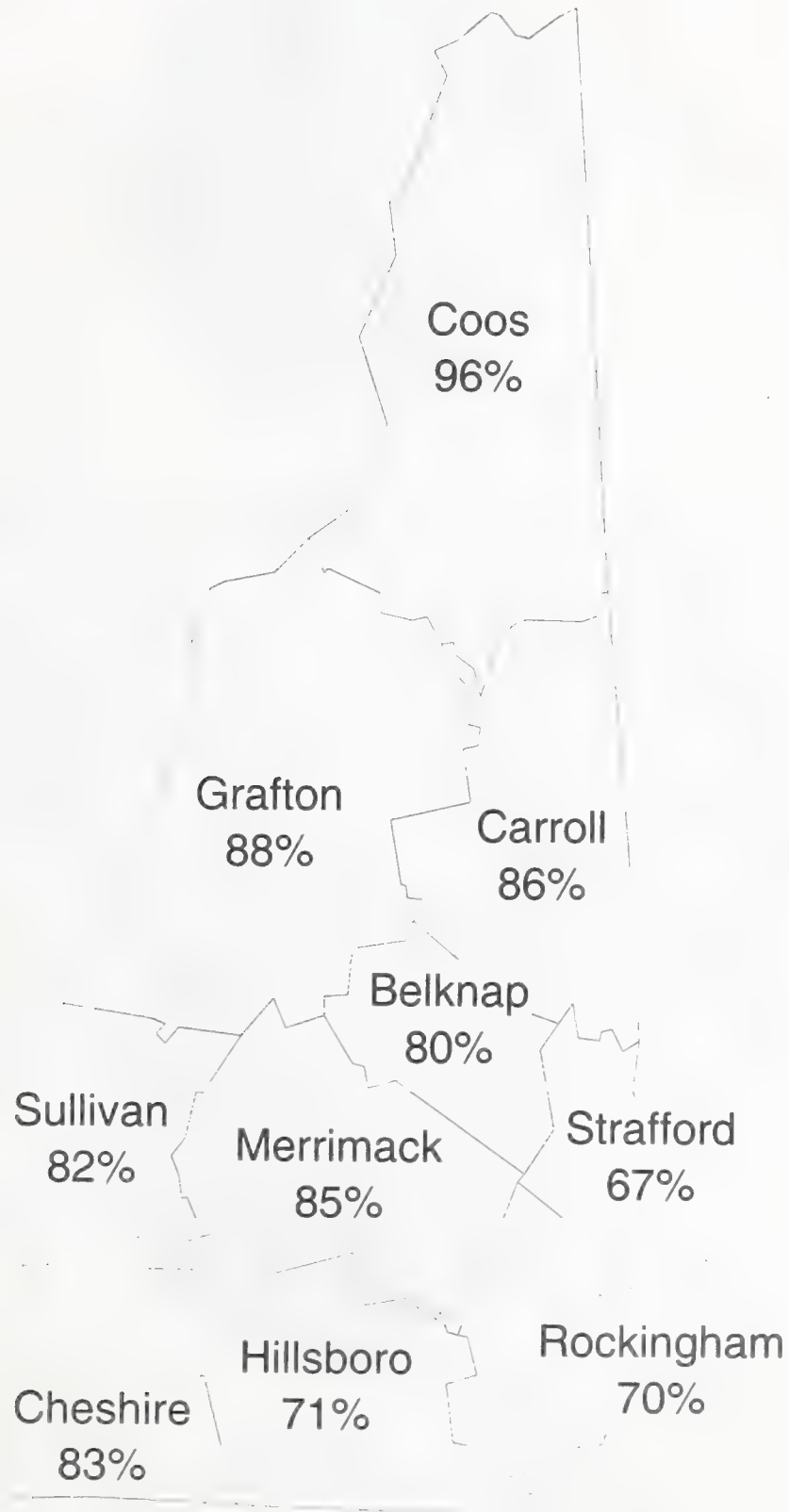
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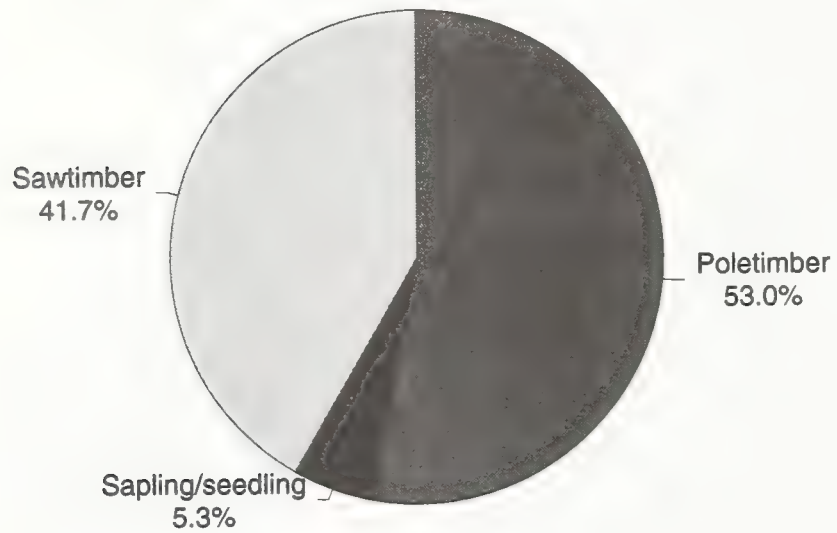


# STATE TABLES

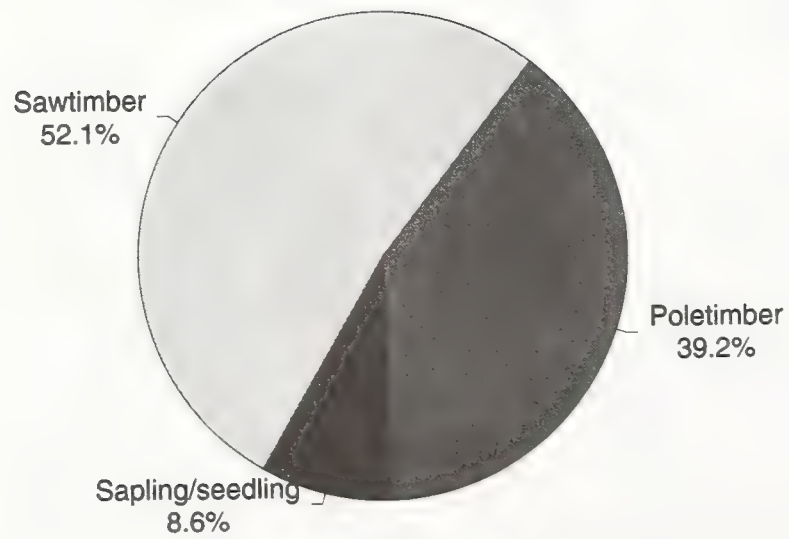


Percentage of land in forest by county, 1997  
(State average = 84 percent)

# Timberland area by stand-size class New Hampshire, 1983 and 1997



**1983**



**1997**

Table 1.--Land area by land class, New Hampshire, 1983 and 1997<sup>a</sup>

(In thousands of acres)<sup>b</sup>

| Land class                     | Area    |         |         |         |
|--------------------------------|---------|---------|---------|---------|
|                                | 1983    | Percent | 1997    | Percent |
| Timberland                     | 4,799.3 | 84      | 4,508.6 | 79      |
| Noncommercial forest land:     |         |         |         |         |
| Reserved productive            | 102.5   | 2       | 148.6   | 3       |
| Urban forest land              | 0.0     | <1      | 50.1    | 1       |
| Other forest land <sup>c</sup> | 56.5    | 1       | 108.1   | 2       |
| Reserved other forest land     | 0.0     | <1      | 8.3     | <1      |
| Total noncommercial ...        | 159.0   | 3       | 315.2   | 5       |
| Total forest land              | 4,958.3 | 86      | 4,823.8 | 84      |
| Nonforest land:                |         |         |         |         |
| Cropland                       | 145.4   | 2       | 138.8   | 2       |
| Pasture                        | 80.8    | 1       | 52.5    | 1       |
| Other                          | 555.9   | 10      | 725.3   | 13      |
| Total nonforest land           | 782.1   | 14      | 916.6   | 16      |
| Total land area <sup>d</sup>   | 5,740.4 | 100     | 5,740.4 | 100     |

<sup>a</sup> In this and other tables, a zero indicates that the data are negligible or the condition was not encountered in the sample. A dash indicates that the condition is not possible under current Forest Service definitions.

<sup>b</sup> Rows and columns in all tables may not sum due to rounding.

<sup>c</sup> "Other forest land" formerly known as unproductive forest land.

<sup>d</sup> Source: 1990 United States Department of Commerce, Bureau of Census.

Table 2.--Area of timberland by forest type, forest-type group, and stand-size class, New Hampshire, 1983

(In thousands of acres)

| Forest type                    | Stand-size class |             |                      |             | All classes | SE    |
|--------------------------------|------------------|-------------|----------------------|-------------|-------------|-------|
|                                | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |       |
| Red pine                       | 24.1             | .0          | .0                   | .0          | 24.1        | 58.4  |
| White pine                     | 343.0            | 84.4        | 7.3                  | .0          | 434.7       | 12.1  |
| White pine/hemlock             | 90.6             | 38.0        | .0                   | .0          | 128.6       | 24.0  |
| Hemlock                        | 97.9             | 34.7        | .0                   | .0          | 132.6       | 23.0  |
| White/red pine group           | 555.6            | 157.1       | 7.3                  | .0          | 720.0       | 9.0   |
| Balsam fir                     | 39.3             | 148.5       | 27.1                 | .0          | 214.9       | 20.1  |
| Red spruce                     | .0               | 88.4        | 9.7                  | .0          | 98.1        | 30.4  |
| Red spruce/balsam fir          | 27.2             | 105.5       | 9.7                  | .0          | 142.3       | 24.9  |
| White spruce                   | .0               | 20.1        | .0                   | .0          | 20.1        | 69.9  |
| Tamarack                       | .0               | 10.0        | .0                   | .0          | 10.0        | 100.0 |
| Spruce/fir group               | 66.5             | 372.5       | 46.4                 | .0          | 485.3       | 12.3  |
| Pitch pine                     | 9.4              | 9.4         | .0                   | .0          | 18.7        | 68.5  |
| Loblolly/shortleaf group       | 9.4              | 9.4         | .0                   | .0          | 18.7        | 68.5  |
| Wh. pine/no.red oak/wh. ash    | 93.8             | 76.2        | .0                   | .0          | 170.0       | 20.9  |
| Other oak/pine                 | .0               | 7.3         | .0                   | .0          | 7.3         | 100.0 |
| Oak/pine group                 | 93.8             | 83.5        | .0                   | .0          | 177.3       | 20.3  |
| Post, black, or bear oak       | 7.3              | 14.5        | .0                   | .0          | 21.8        | 57.7  |
| Chestnut oak                   | .0               | 7.1         | .0                   | .0          | 7.1         | 100.0 |
| White oak/red oak/hickory      | 21.6             | 42.8        | .0                   | .0          | 64.4        | 32.7  |
| Northern red oak               | 48.4             | 114.1       | 8.4                  | .0          | 170.9       | 21.8  |
| Scarlet oak                    | .0               | 7.1         | .0                   | .0          | 7.1         | 100.0 |
| Red maple/central hardwood     | .0               | 7.3         | 17.1                 | .0          | 24.5        | 58.4  |
| Mixed central hardwoods        | 96.4             | 160.3       | 6.9                  | .0          | 263.6       | 16.4  |
| Oak/hickory group              | 173.7            | 353.3       | 32.4                 | .0          | 559.3       | 10.9  |
| Black ash/Amer. elm/red maple  | .0               | 20.8        | 8.5                  | .0          | 29.3        | 50.5  |
| Red maple(lowland)             | .0               | 14.2        | 2.9                  | .0          | 17.1        | 61.1  |
| Red maple(upland)              | .0               | 14.3        | 10.0                 | .0          | 24.3        | 58.5  |
| Elm/ash/red maple group        | .0               | 49.3        | 21.5                 | .0          | 70.7        | 32.6  |
| Sugar maple/beech/yellow birch | 753.8            | 490.1       | 35.0                 | .0          | 1,278.8     | 6.9   |
| Black Cherry                   | .0               | 10.0        | 16.6                 | .0          | 26.6        | 58.4  |
| Red maple/northern hardwoods   | 141.7            | 502.8       | 5.3                  | .0          | 649.7       | 10.5  |
| Pin cherry/reverting field     | .0               | 10.0        | 25.3                 | .0          | 35.3        | 45.9  |
| Mixed northern hardwoods       | 107.7            | 178.8       | 16.2                 | .0          | 302.7       | 15.6  |
| Northern hardwoods group       | 1,003.2          | 1,191.7     | 98.4                 | .0          | 2,293.2     | 4.3   |
| Aspen                          | 38.5             | 127.4       | 14.5                 | .0          | 180.3       | 21.6  |
| Paper birch                    | 52.8             | 201.4       | 10.7                 | .0          | 264.9       | 18.0  |
| Gray birch                     | 7.3              | .0          | 21.9                 | .0          | 29.3        | 50.0  |
| Aspen/birch group              | 98.6             | 328.8       | 47.1                 | .0          | 474.6       | 12.8  |
| All forest types               | 2,000.7          | 2,545.5     | 253.0                | .0          | 4,799.3     | .8    |
| SE                             | 4.8              | 3.9         | 16.8                 | .0          | .8          |       |



Table 3.--Area of timberland by forest type, forest-type group, and stand-size class, New Hampshire, 1997

(In thousands of acres)

| Forest type                    | Stand-size class |             |                      |             | All classes | SE    |
|--------------------------------|------------------|-------------|----------------------|-------------|-------------|-------|
|                                | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |       |
| Red pine                       | 1.8              | 4.9         | .0                   | .0          | 6.7         | 77.9  |
| White pine                     | 322.4            | 49.0        | 8.7                  | 5.0         | 385.1       | 10.9  |
| White pine/hemlock             | 154.8            | 36.3        | .0                   | .0          | 191.1       | 16.4  |
| Hemlock                        | 121.6            | 45.6        | .0                   | .0          | 167.2       | 17.5  |
| White/red pine group           | 600.6            | 135.8       | 8.7                  | 5.0         | 750.1       | 7.2   |
| Balsam fir                     | 31.6             | 127.6       | 43.0                 | .0          | 202.2       | 16.9  |
| Red spruce                     | 20.5             | 34.0        | 10.2                 | .0          | 64.8        | 28.8  |
| Red spruce/balsam fir          | 35.3             | 86.0        | 6.3                  | 3.9         | 131.5       | 20.6  |
| White spruce                   | 11.6             | .0          | .0                   | .0          | 11.6        | 69.0  |
| Spruce/fir group               | 99.0             | 247.6       | 59.5                 | 3.9         | 410.1       | 11.1  |
| Pitch pine                     | 10.4             | 5.2         | .0                   | .0          | 15.5        | 56.0  |
| Loblolly/shortleaf group       | 10.4             | 5.2         | .0                   | .0          | 15.5        | 56.0  |
| Wh. pine/no.red oak/wh. ash    | 157.0            | 44.7        | 1.4                  | .0          | 203.1       | 15.8  |
| Other oak/pine                 | 2.1              | .0          | .0                   | .0          | 2.1         | 100.0 |
| Oak/pine group                 | 159.1            | 44.7        | 1.4                  | .0          | 205.2       | 15.7  |
| Post, black, or bear oak       | 4.9              | .0          | 5.2                  | .0          | 10.1        | 70.7  |
| White oak/red oak/hickory      | 57.2             | 18.3        | .0                   | .0          | 75.5        | 27.4  |
| White oak                      | .0               | 4.4         | .0                   | .0          | 4.4         | 100.0 |
| Northern red oak               | 106.8            | 71.7        | .0                   | .0          | 178.5       | 17.3  |
| Red maple/central hardwood     | 12.2             | 11.3        | .0                   | .0          | 23.5        | 48.3  |
| Mixed central hardwoods        | 137.4            | 150.7       | 17.1                 | .0          | 305.2       | 13.1  |
| Oak/hickory group              | 318.5            | 256.4       | 22.2                 | .0          | 597.1       | 8.8   |
| Black ash/Amer. elm/red maple  | 11.4             | 1.9         | 6.4                  | .0          | 19.7        | 53.2  |
| Red maple(lowland)             | 17.5             | 18.5        | .0                   | .0          | 36.0        | 39.3  |
| Red maple(upland)              | 7.5              | 7.6         | .0                   | .0          | 15.0        | 54.0  |
| Willow                         | .0               | .0          | 1.6                  | .0          | 1.6         | 100.0 |
| Elm/ash/red maple group        | 36.4             | 27.9        | 8.0                  | .0          | 72.3        | 26.9  |
| Sugar maple/beech/yellow birch | 696.0            | 481.4       | 73.2                 | .0          | 1,250.6     | 5.6   |
| Black Cherry                   | 7.4              | 1.8         | 19.0                 | .0          | 28.3        | 40.2  |
| Red maple/northern hardwoods   | 216.0            | 309.8       | 48.6                 | .0          | 574.3       | 9.2   |
| Pin cherry/reverting field     | .0               | 4.5         | 17.4                 | .0          | 22.0        | 44.5  |
| Mixed northern hardwoods       | 131.1            | 144.0       | 50.6                 | .0          | 325.7       | 12.6  |
| Northern hardwoods group       | 1,050.4          | 941.6       | 208.8                | .0          | 2,200.9     | 3.7   |
| Aspen                          | 30.2             | 46.0        | 34.4                 | .0          | 110.5       | 21.9  |
| Paper birch                    | 41.4             | 59.3        | 34.7                 | .0          | 135.4       | 21.1  |
| Gray birch                     | .0               | .0          | 11.5                 | .0          | 11.5        | 63.7  |
| Aspen/birch group              | 71.6             | 105.3       | 80.5                 | .0          | 257.4       | 14.5  |
| All forest types               | 2,346.0          | 1,764.5     | 389.1                | 8.9         | 4,508.6     | 1.1   |
| SE                             | 3.6              | 4.6         | 10.9                 | 71.3        | 1.1         |       |

Table 4.--Area of timberland by forest-type group and ownership class, New Hampshire, 1997

(In thousands of acres)

| Forest-type group  | Ownership class |              |                 |               | All classes | SE   |
|--------------------|-----------------|--------------|-----------------|---------------|-------------|------|
|                    | National Forest | Other public | Forest industry | Other private |             |      |
| White/red pine     | 19.4            | 55.0         | 6.9             | 668.8         | 750.1       | 7.2  |
| Spruce/fir         | 102.0           | 19.3         | 115.7           | 173.1         | 410.1       | 11.1 |
| Loblolly/shortleaf | .0              | 5.2          | .0              | 10.4          | 15.5        | 56.0 |
| Oak/pine           | .0              | 17.6         | .0              | 187.6         | 205.2       | 15.7 |
| Oak/hickory        | 21.9            | 59.4         | .0              | 515.9         | 597.1       | 8.8  |
| Elm/ash/red maple  | .0              | 17.2         | .0              | 55.1          | 72.3        | 26.9 |
| Northern hardwoods | 329.8           | 156.9        | 307.2           | 1,407.0       | 2,200.9     | 3.7  |
| Aspen/birch        | 52.6            | 30.2         | 28.0            | 146.6         | 257.4       | 14.5 |
| Total, all groups  | 525.6           | 360.9        | 457.7           | 3,164.4       | 4,508.6     | 1.1  |
| SE                 | 6.3             | 12.1         | 8.2             | 2.0           | 1.1         |      |

Table 5. Area of timberland by stand-size class and ownership class, New Hampshire, 1997

(In thousands of acres)

| Stand-size class     | Ownership class |              |                 |               | All classes | SE   |
|----------------------|-----------------|--------------|-----------------|---------------|-------------|------|
|                      | National Forest | Other public | Forest industry | Other private |             |      |
| Sawtimber            | 275.5           | 191.9        | 171.7           | 1,706.9       | 2,346.0     | 3.6  |
| Poletimber           | 199.6           | 157.4        | 211.3           | 1,196.2       | 1,764.5     | 4.6  |
| Sapling and seedling | 50.5            | 11.6         | 69.7            | 257.4         | 389.1       | 10.9 |
| Nonstocked           | .0              | .0           | 5.0             | 3.9           | 8.9         | 71.3 |
| Total, all classes   | 525.6           | 360.9        | 457.7           | 3,164.4       | 4,508.6     | 1.1  |
| SE                   | 6.3             | 12.1         | 8.2             | 2.0           | 1.1         |      |

Table 6.--Area of timberland by forest-type group and all-live stand-volume class, New Hampshire, 1997

(In thousands of acres)

| Forest-type group  | Stand-volume class (cubic feet per acre) |         |           |           |           |         | All classes | SE   |
|--------------------|--|---------|-----------|-----------|-----------|---------|-------------|------|
|                    | 0-499                                    | 500-999 | 1000-1499 | 1500-1999 | 2000-2499 | 2500+   |             |      |
| White/red pine     | 14.4                                     | 15.2    | 69.3      | 118.2     | 126.0     | 407.0   | 750.1       | 7.2  |
| Spruce/fir         | 66.6                                     | 48.3    | 17.6      | 107.4     | 53.6      | 116.5   | 410.1       | 11.1 |
| Loblolly/shortleaf | .0                                       | .0      | 5.2       | .0        | 5.2       | 5.2     | 15.5        | 56.0 |
| Oak/pine           | 8.4                                      | 1.7     | 18.1      | 23.5      | 44.0      | 109.5   | 205.2       | 15.7 |
| Oak/hickory        | 18.7                                     | 50.4    | 65.0      | 153.0     | 147.1     | 163.0   | 597.1       | 8.8  |
| Elm/ash/red maple  | 9.9                                      | 23.4    | 24.1      | 6.0       | 6.2       | 2.9     | 72.3        | 26.9 |
| Northern hardwoods | 191.8                                    | 230.2   | 318.5     | 359.0     | 511.2     | 590.1   | 2,200.9     | 3.7  |
| Aspen/birch        | 77.1                                     | 20.3    | 27.9      | 50.1      | 35.2      | 46.8    | 257.4       | 14.5 |
| Total, all groups  | 386.8                                    | 389.5   | 545.5     | 817.1     | 928.6     | 1,441.0 | 4,508.6     | 1.1  |
| SE                 | 10.9                                     | 11.2    | 9.6       | 7.8       | 7.2       | 5.3     | 1.1         |      |

Table 7.--Area of timberland by forest-type group and cubic-foot stand-volume class, New Hampshire, 1997

(In thousands of acres)

| Forest-type group  | Stand-volume class (cubic feet per acre) |         |           |           |           |         | All classes | SE   |
|--------------------|--|---------|-----------|-----------|-----------|---------|-------------|------|
|                    | 0-499                                    | 500-999 | 1000-1499 | 1500-1999 | 2000-2499 | 2500+   |             |      |
| White/red pine     | 14.4                                     | 37.2    | 89.9      | 103.8     | 121.8     | 383.1   | 750.1       | 7.2  |
| Spruce/fir         | 66.6                                     | 48.3    | 52.2      | 88.9      | 54.4      | 99.5    | 410.1       | 11.1 |
| Loblolly/shortleaf | .0                                       | .0      | 5.2       | .0        | 5.2       | 5.2     | 15.5        | 56.0 |
| Oak/pine           | 8.4                                      | 3.4     | 21.0      | 18.9      | 44.0      | 109.5   | 205.2       | 15.7 |
| Oak/hickory        | 18.7                                     | 50.4    | 77.4      | 148.3     | 143.5     | 158.9   | 597.1       | 8.8  |
| Elm/ash/red maple  | 14.5                                     | 18.8    | 25.4      | 10.8      | .0        | 2.9     | 72.3        | 26.9 |
| Northern hardwoods | 205.5                                    | 258.2   | 356.5     | 401.1     | 455.3     | 524.3   | 2,200.9     | 3.7  |
| Aspen/birch        | 77.1                                     | 20.3    | 44.8      | 33.2      | 42.3      | 39.7    | 257.4       | 14.5 |
| Total, all groups  | 405.2                                    | 436.6   | 672.4     | 805.0     | 866.5     | 1,323.0 | 4,508.6     | 1.1  |
| SE                 | 10.5                                     | 10.4    | 8.7       | 7.8       | 7.6       | 5.6     | 1.1         |      |

Table 8.--Area of timberland by forest-type group and board-foot stand-volume class, New Hampshire, 1997

(In thousands of acres)

| Forest-type group  | Stand-volume class (board feet per acre) |       |       |       |       |        | All classes | SE   |
|--------------------|--|-------|-------|-------|-------|--------|-------------|------|
|                    | 0-                                       | 2000- | 4000- | 6000- | 8000- | 10000+ |             |      |
|                    | 1999                                     | 3999  | 5999  | 7999  | 9999  |        |             |      |
| White/red pine     | 51.9                                     | 119.5 | 139.1 | 100.8 | 72.1  | 266.7  | 750.1       | 7.2  |
| Spruce/fir         | 150.7                                    | 90.9  | 100.4 | 44.9  | 12.0  | 11.1   | 410.1       | 11.1 |
| Loblolly/shortleaf | 5.2                                      | .0    | 5.2   | .0    | .0    | 5.2    | 15.5        | 56.0 |
| Oak/pine           | 22.4                                     | 12.6  | 31.8  | 17.8  | 29.0  | 91.5   | 205.2       | 15.7 |
| Oak/hickory        | 116.5                                    | 150.2 | 159.9 | 77.2  | 50.4  | 43.1   | 597.1       | 8.8  |
| Elm/ash/red maple  | 40.8                                     | 24.1  | 6.2   | 1.3   | .0    | .0     | 72.3        | 26.9 |
| Northern hardwoods | 620.8                                    | 538.4 | 468.1 | 263.8 | 129.3 | 180.5  | 2,200.9     | 3.7  |
| Aspen/birch        | 132.0                                    | 60.2  | 22.9  | 13.8  | 16.2  | 12.3   | 257.4       | 14.5 |
| Total, all groups  | 1,140.2                                  | 995.9 | 933.6 | 519.6 | 309.0 | 610.4  | 4,508.6     | 1.1  |
| SE                 | 5.9                                      | 6.9   | 7.2   | 10.0  | 13.7  | 8.8    | 1.1         |      |

Table 9.--Area of timberland by forest-type group and basal-area class, New Hampshire, 1997

(In thousands of acres)

| Forest-type group  | Basal area class (square feet per acre) |         |         |       |       |      |      | All classes | SE   |
|--------------------|---|---------|---------|-------|-------|------|------|-------------|------|
|                    | 0-                                      | 50-     | 100-    | 150-  | 200-  | 250- | 300+ |             |      |
|                    | 49                                      | 99      | 149     | 199   | 249   | 299  |      |             |      |
| White/red pine     | 12.1                                    | 107.0   | 283.7   | 250.7 | 80.1  | 11.6 | 4.8  | 750.1       | 7.2  |
| Spruce/fir         | 59.2                                    | 54.8    | 171.6   | 63.7  | 60.7  | .0   | .0   | 410.1       | 11.1 |
| Loblolly/shortleaf | .0                                      | 5.2     | 5.2     | 5.2   | .0    | .0   | .0   | 15.5        | 56.0 |
| Oak/pine           | 6.9                                     | 25.8    | 69.8    | 76.1  | 14.2  | 12.4 | .0   | 205.2       | 15.7 |
| Oak/hickory        | 21.0                                    | 143.8   | 348.5   | 68.1  | 9.0   | .0   | 6.7  | 597.1       | 8.8  |
| Elm/ash/red maple  | 9.9                                     | 52.1    | .0      | 10.4  | .0    | .0   | .0   | 72.3        | 26.9 |
| Northern hardwoods | 244.7                                   | 577.8   | 969.6   | 376.0 | 30.8  | .0   | 1.8  | 2,200.9     | 3.7  |
| Aspen/birch        | 53.1                                    | 77.6    | 49.0    | 65.6  | 12.2  | .0   | .0   | 257.4       | 14.5 |
| Total, all groups  | 406.9                                   | 1,044.1 | 1,897.5 | 915.8 | 207.0 | 24.0 | 13.3 | 4,508.6     | 1.1  |
| SE                 | 10.5                                    | 6.6     | 4.2     | 7.2   | 16.4  | 44.8 | 63.0 | 1.1         |      |

Table 10.--Area of timberland by forest-type group and stocking class of all live trees, New Hampshire, 1983

(In thousands of acres)

| Forest-type group  | Stocking class |                |                    |               |              | All classes | SE   |
|--------------------|----------------|----------------|--------------------|---------------|--------------|-------------|------|
|                    | Nonstocked     | Poorly stocked | Moderately stocked | Fully stocked | Over-stocked |             |      |
| White/red pine     | .0             | 48.1           | 219.8              | 408.7         | 43.4         | 720.0       | 9.0  |
| Spruce/fir         | .0             | 39.5           | 158.1              | 258.1         | 29.7         | 485.3       | 12.3 |
| Loblolly/shortleaf | .0             | .0             | .0                 | 18.7          | .0           | 18.7        | 68.5 |
| Oak/pine           | .0             | 14.4           | 53.3               | 102.6         | 7.1          | 177.3       | 20.3 |
| Oak/hickory        | .0             | 7.5            | 128.4              | 386.6         | 36.9         | 559.3       | 10.9 |
| Elm/ash/red maple  | .0             | 30.9           | 15.5               | 14.3          | 10.0         | 70.7        | 32.6 |
| Northern hardwoods | .0             | 93.5           | 513.9              | 1,403.0       | 282.8        | 2,293.2     | 4.3  |
| Aspen/birch        | .0             | 21.9           | 76.3               | 312.3         | 64.1         | 474.6       | 12.8 |
| Total, all groups  | .0             | 255.9          | 1,165.2            | 2,904.1       | 474.1        | 4,799.3     | .8   |
| SE                 | .0             | 16.7           | 7.4                | 3.4           | 12.7         | .8          |      |

Table 11.--Area of timberland by forest-type group and stocking class of all live trees, New Hampshire, 1997

(In thousands of acres)

| Forest-type group  | Stocking class |                |                    |               |              | All classes | SE   |
|--------------------|----------------|----------------|--------------------|---------------|--------------|-------------|------|
|                    | Nonstocked     | Poorly stocked | Moderately stocked | Fully stocked | Over-stocked |             |      |
| White/red pine     | 5.0            | 7.5            | 148.1              | 451.9         | 137.5        | 750.1       | 7.2  |
| Spruce/fir         | 3.9            | 39.2           | 72.8               | 236.0         | 58.1         | 410.1       | 11.1 |
| Loblolly/shortleaf | .0             | .0             | 5.2                | 5.2           | 5.2          | 15.5        | 56.0 |
| Oak/pine           | .0             | 2.2            | 46.5               | 134.9         | 21.6         | 205.2       | 15.7 |
| Oak/hickory        | .0             | 15.5           | 113.0              | 409.6         | 59.0         | 597.1       | 8.8  |
| Elm/ash/red maple  | .0             | 13.1           | 34.4               | 20.4          | 4.5          | 72.3        | 26.9 |
| Northern hardwoods | .0             | 55.6           | 445.1              | 1,373.0       | 327.2        | 2,200.9     | 3.7  |
| Aspen/birch        | .0             | 4.5            | 69.6               | 132.1         | 51.2         | 257.4       | 14.5 |
| Total, all groups  | 8.9            | 137.7          | 934.5              | 2,763.1       | 664.3        | 4,508.6     | 1.1  |
| SE                 | 71.3           | 20.0           | 6.9                | 3.0           | 8.9          | 1.1         |      |

Table 12.--Area of timberland by forest-type group and stocking class of growing-stock trees, New Hampshire, 1983

(In thousands of acres)

| Forest-type group  | Stocking class |                |                    |               |              | All classes | SE   |
|--------------------|----------------|----------------|--------------------|---------------|--------------|-------------|------|
|                    | Nonstocked     | Poorly stocked | Moderately stocked | Fully stocked | Over-stocked |             |      |
| White/red pine     | .0             | 122.6          | 275.3              | 314.3         | 7.8          | 720.0       | 9.0  |
| Spruce/fir         | 8.5            | 152.3          | 188.2              | 136.3         | .0           | 485.3       | 12.3 |
| Loblolly/shortleaf | .0             | .0             | 18.7               | .0            | .0           | 18.7        | 68.5 |
| Oak/pine           | .0             | 31.6           | 95.1               | 50.6          | .0           | 177.3       | 20.3 |
| Oak/hickory        | 10.0           | 41.7           | 260.7              | 238.6         | 8.4          | 559.3       | 10.9 |
| Elm/ash/red maple  | 2.9            | 50.5           | .0                 | 7.3           | 10.0         | 70.7        | 32.6 |
| Northern hardwoods | 22.0           | 375.9          | 761.5              | 1,099.2       | 34.6         | 2,293.2     | 4.3  |
| Aspen/birch        | 14.9           | 63.3           | 191.9              | 187.3         | 17.2         | 474.6       | 12.8 |
| Total, all groups  | 58.3           | 837.8          | 1,791.5            | 2,033.7       | 77.9         | 4,799.3     | .8   |
| SE                 | 37.0           | 8.8            | 5.5                | 4.8           | 33.5         | .8          |      |

Table 13.--Area of timberland by forest-type group and stocking class of growing-stock trees, New Hampshire, 1997

(In thousands of acres)

| Forest-type group  | Stocking class |                |                    |               |              | All classes | SE   |
|--------------------|----------------|----------------|--------------------|---------------|--------------|-------------|------|
|                    | Nonstocked     | Poorly stocked | Moderately stocked | Fully stocked | Over-stocked |             |      |
| White/red pine     | 5.0            | 68.0           | 284.2              | 330.8         | 62.1         | 750.1       | 7.2  |
| Spruce/fir         | 22.4           | 113.3          | 157.3              | 113.6         | 3.5          | 410.1       | 11.1 |
| Loblolly/shortleaf | .0             | .0             | 5.2                | 10.4          | .0           | 15.5        | 56.0 |
| Oak/pine           | .0             | 2.2            | 96.2               | 97.9          | 8.8          | 205.2       | 15.7 |
| Oak/hickory        | 10.6           | 62.6           | 183.8              | 319.1         | 21.1         | 597.1       | 8.8  |
| Elm/ash/red maple  | .0             | 29.8           | 36.2               | 4.7           | 1.6          | 72.3        | 26.9 |
| Northern hardwoods | 42.9           | 338.4          | 771.5              | 976.0         | 72.1         | 2,200.9     | 3.7  |
| Aspen/birch        | 4.6            | 76.6           | 78.4               | 91.7          | 6.1          | 257.4       | 14.5 |
| Total, all groups  | 85.5           | 690.8          | 1,612.8            | 1,944.3       | 175.3        | 4,508.6     | 1.1  |
| SE                 | 25.0           | 8.2            | 4.9                | 4.3           | 17.2         | 1.1         |      |

# Timberland area by forest-type group and percent change, New Hampshire, 1983-97

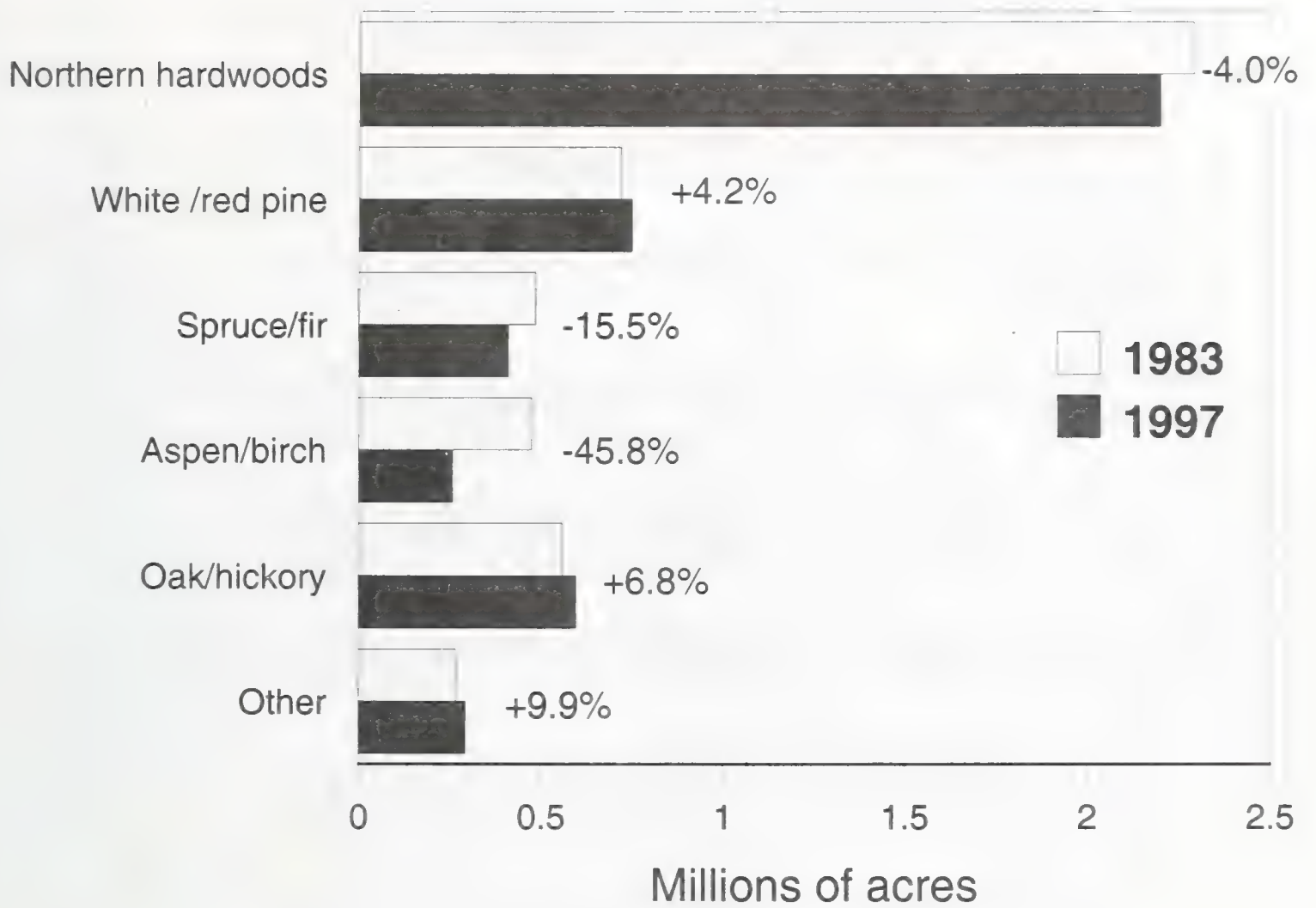


Table 14.--Number of trees (5.0+ inches d.b.h.) on timberland by species and tree class, New Hampshire, 1997

(In thousands of trees)

| Species group              | Tree class    |                |                   |               |               |                |               | All classes   | SE               |                  |
|----------------------------|---------------|----------------|-------------------|---------------|---------------|----------------|---------------|---------------|------------------|------------------|
|                            | Preferred     | Acceptable     | All growing stock | Rough cull    | Rotten cull   | All live       | Salvable dead |               |                  | Nonsalvable dead |
| Balsam fir                 | 2,902         | 75,855         | 78,756            | 408           | 301           | 79,466         | 4,404         | 18,635        | 102,505          | 9.0              |
| Tamarack                   | 0             | 1,049          | 1,049             | 69            | 0             | 1,118          | 0             | 162           | 1,279            | 39.1             |
| White spruce               | 48            | 2,694          | 2,743             | 108           | 36            | 2,886          | 145           | 36            | 3,068            | 38.2             |
| Black spruce               | 0             | 38             | 38                | 0             | 0             | 38             | 0             | 0             | 38               | 100.0            |
| Red spruce                 | 2,008         | 52,447         | 54,455            | 426           | 303           | 55,184         | 2,396         | 5,975         | 63,555           | 8.7              |
| Red pine                   | 0             | 3,273          | 3,273             | 39            | 0             | 3,312          | 43            | 180           | 3,535            | 33.3             |
| White pine                 | 1,684         | 99,880         | 101,564           | 4,363         | 390           | 106,318        | 2,412         | 13,688        | 122,418          | 5.7              |
| Northern white-cedar       | 37            | 1,637          | 1,674             | 108           | 73            | 1,855          | 183           | 299           | 2,337            | 57.9             |
| Hemlock                    | 636           | 79,868         | 80,505            | 5,741         | 790           | 87,035         | 1,568         | 3,233         | 91,836           | 6.9              |
| Other softwoods            | 0             | 3,480          | 3,480             | 61            | 0             | 3,542          | 37            | 162           | 3,741            | 64.0             |
| <b>Total softwoods</b>     | <b>7,315</b>  | <b>320,221</b> | <b>327,536</b>    | <b>11,324</b> | <b>1,894</b>  | <b>340,753</b> | <b>11,189</b> | <b>42,370</b> | <b>394,312</b>   | <b>3.8</b>       |
| Sugar maple                | 942           | 61,813         | 62,756            | 2,724         | 1,405         | 66,885         | 509           | 3,235         | 70,629           | 7.5              |
| Red maple                  | 255           | 156,664        | 156,919           | 8,045         | 3,634         | 168,598        | 2,274         | 9,443         | 180,315          | 3.7              |
| Yellow birch               | 289           | 45,544         | 45,833            | 3,453         | 1,538         | 50,823         | 856           | 6,631         | 58,310           | 6.1              |
| Paper birch                | 737           | 62,554         | 63,291            | 2,250         | 1,290         | 66,831         | 2,910         | 7,890         | 77,631           | 6.3              |
| Beech                      | 40            | 45,123         | 45,163            | 2,485         | 2,797         | 50,444         | 374           | 2,564         | 53,382           | 7.2              |
| White ash                  | 510           | 21,129         | 21,638            | 393           | 391           | 22,422         | 1,038         | 1,230         | 24,690           | 8.1              |
| Black ash                  | 0             | 1,058          | 1,058             | 0             | 37            | 1,095          | 74            | 78            | 1,247            | 39.0             |
| Aspen                      | 331           | 21,054         | 21,385            | 210           | 235           | 21,830         | 1,095         | 3,722         | 26,647           | 11.1             |
| White oaks                 | 0             | 7,308          | 7,308             | 403           | 108           | 7,818          | 629           | 592           | 9,039            | 12.8             |
| Red oaks                   | 2,279         | 61,391         | 63,670            | 882           | 497           | 65,048         | 1,242         | 2,391         | 68,682           | 6.3              |
| Basswood                   | 0             | 1,625          | 1,625             | 146           | 60            | 1,831          | 36            | 113           | 1,979            | 21.8             |
| Elm                        | 0             | 1,293          | 1,293             | 77            | 0             | 1,370          | 109           | 752           | 2,232            | 22.5             |
| Other commercial hardwoods | 119           | 22,383         | 22,502            | 1,315         | 336           | 24,153         | 600           | 2,598         | 27,352           | 7.8              |
| Noncommercial hardwoods    | 0             | 0              | 0                 | 14,242        | 1,020         | 15,263         | 1,169         | 4,116         | 20,548           | 10.0             |
| <b>Total hardwoods</b>     | <b>5,502</b>  | <b>508,938</b> | <b>514,440</b>    | <b>36,625</b> | <b>13,347</b> | <b>564,412</b> | <b>12,916</b> | <b>45,355</b> | <b>622,683</b>   | <b>2.2</b>       |
| <b>Total, all species</b>  | <b>12,817</b> | <b>829,159</b> | <b>841,976</b>    | <b>47,948</b> | <b>15,241</b> | <b>905,165</b> | <b>24,105</b> | <b>87,724</b> | <b>1,016,995</b> | <b>2.0</b>       |
| SE                         | 14.7          | 2.0            | 2.0               | 4.8           | 7.1           | 2.0            | 6.0           | 4.3           | 2.0              |                  |



Table 15.--Number of standing dead trees (5.0+ inches d.b.h.) on timberland by species, condition class, and diameter class, New Hampshire, 1997

| Species group              | (In thousands of trees) |              |            |               |               |              |              |               |                |            |                 |    |
|----------------------------|-------------------------|--------------|------------|---------------|---------------|--------------|--------------|---------------|----------------|------------|-----------------|----|
|                            | Intact top              |              |            |               |               | Broken top   |              |               |                |            | Total all trees | SE |
|                            | 5.0-10.9                | 11.0-14.9    | 15+        | Total         | 5.0-10.9      | 11.0-14.9    | 15+          | Total         |                |            |                 |    |
| Balsam fir                 | 2,622                   | 109          | 74         | 2,805         | 17,932        | 1,387        | 136          | 19,455        | 22,260         | 11.5       |                 |    |
| Tamarack                   | 0                       | 0            | 0          | 0             | 95            | 36           | 30           | 162           | 162            | 64.3       |                 |    |
| White spruce               | 36                      | 0            | 0          | 36            | 109           | 36           | 0            | 145           | 181            | 59.4       |                 |    |
| Red spruce                 | 1,944                   | 109          | 76         | 2,129         | 5,104         | 721          | 157          | 5,982         | 8,111          | 11.6       |                 |    |
| Red pine                   | 80                      | 0            | 0          | 80            | 143           | 0            | 0            | 143           | 223            | 70.6       |                 |    |
| White pine                 | 5,767                   | 271          | 38         | 6,075         | 8,032         | 1,016        | 689          | 9,737         | 15,812         | 8.6        |                 |    |
| Northern white-cedar       | 115                     | 0            | 0          | 115           | 330           | 36           | 0            | 366           | 481            | 71.2       |                 |    |
| Hemlock                    | 761                     | 185          | 0          | 947           | 2,885         | 556          | 258          | 3,699         | 4,646          | 14.4       |                 |    |
| Other softwoods            | 100                     | 0            | 0          | 100           | 100           | 0            | 0            | 100           | 200            | 45.8       |                 |    |
| <b>Total softwoods</b>     | <b>11,425</b>           | <b>675</b>   | <b>187</b> | <b>12,288</b> | <b>34,732</b> | <b>3,787</b> | <b>1,271</b> | <b>39,790</b> | <b>52,078</b>  | <b>6.7</b> |                 |    |
| Sugar maple                | 614                     | 115          | 149        | 879           | 2,017         | 488          | 303          | 2,808         | 3,687          | 13.8       |                 |    |
| Red maple                  | 1,731                   | 76           | 58         | 1,864         | 8,515         | 976          | 292          | 9,783         | 11,647         | 7.5        |                 |    |
| Yellow birch               | 709                     | 85           | 73         | 868           | 4,198         | 1,297        | 1,054        | 6,550         | 7,417          | 9.6        |                 |    |
| Paper birch                | 1,824                   | 54           | 38         | 1,916         | 7,937         | 702          | 169          | 8,809         | 10,725         | 10.7       |                 |    |
| Beech                      | 254                     | 57           | 0          | 311           | 1,668         | 603          | 355          | 2,627         | 2,938          | 17.3       |                 |    |
| White ash                  | 313                     | 77           | 77         | 467           | 1,554         | 75           | 33           | 1,662         | 2,128          | 15.5       |                 |    |
| Black ash                  | 37                      | 0            | 0          | 37            | 83            | 0            | 0            | 83            | 121            | 57.8       |                 |    |
| Aspen                      | 821                     | 75           | 0          | 895           | 3,479         | 328          | 0            | 3,807         | 4,702          | 15.4       |                 |    |
| White oaks                 | 291                     | 0            | 0          | 291           | 790           | 100          | 39           | 930           | 1,221          | 21.2       |                 |    |
| Red oaks                   | 882                     | 178          | 29         | 1,089         | 1,985         | 286          | 104          | 2,374         | 3,463          | 16.4       |                 |    |
| Basswood                   | 37                      | 0            | 0          | 37            | 111           | 0            | 0            | 111           | 148            | 61.2       |                 |    |
| Elm                        | 113                     | 37           | 0          | 150           | 543           | 138          | 31           | 711           | 861            | 29.5       |                 |    |
| Other commercial hardwoods | 516                     | 114          | 33         | 663           | 2,233         | 149          | 76           | 2,459         | 3,122          | 16.3       |                 |    |
| Noncommercial hardwoods    | 1,512                   | 0            | 0          | 1,512         | 3,634         | 37           | 0            | 3,672         | 5,184          | 13.1       |                 |    |
| <b>Total hardwoods</b>     | <b>9,655</b>            | <b>867</b>   | <b>458</b> | <b>10,981</b> | <b>38,749</b> | <b>5,181</b> | <b>2,456</b> | <b>46,386</b> | <b>57,367</b>  | <b>4.1</b> |                 |    |
| <b>Total, all species</b>  | <b>21,081</b>           | <b>1,542</b> | <b>646</b> | <b>23,269</b> | <b>73,481</b> | <b>8,969</b> | <b>3,727</b> | <b>86,176</b> | <b>109,445</b> | <b>4.0</b> |                 |    |
| SE                         | 6.0                     | 16.4         | 24.9       | 5.8           | 4.7           | 7.7          | 10.2         | 4.4           | 4.0            |            |                 |    |

Table 16.--Number of seedlings, saplings, and shrubs on timberland by species and stand-size class, New Hampshire, 1997

(In thousands of stems)

| Species                  | Stand-size class |             |                      |             | All classes | SE    |
|--------------------------|------------------|-------------|----------------------|-------------|-------------|-------|
|                          | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |       |
| Balsam fir               | 1,214,155        | 1,980,983   | 382,195              | 0           | 3,577,333   | 10.8  |
| Common juniper           | 14,960           | 32,685      | 23,524               | 0           | 71,169      | 32.3  |
| Eastern redcedar         | 398              | 1,655       | 0                    | 0           | 2,053       | 82.9  |
| Tamarack                 | 0                | 4,597       | 2,053                | 0           | 6,650       | 72.5  |
| Spruce species           | 348,535          | 565,140     | 98,472               | 0           | 1,012,147   | 12.9  |
| Red pine                 | 415              | 409         | 0                    | 0           | 824         | 70.7  |
| Pitch pine               | 4,332            | 2,745       | 0                    | 0           | 7,077       | 62.8  |
| Eastern white pine       | 617,273          | 290,933     | 44,536               | 0           | 952,743     | 12.9  |
| Canada yew               | 5,409            | 29,359      | 1,599                | 0           | 36,367      | 59.4  |
| Northern white-cedar     | 3,988            | 0           | 0                    | 0           | 3,988       | 80.7  |
| Eastern hemlock          | 489,340          | 207,573     | 59,799               | 0           | 756,711     | 12.0  |
| Maple species            | 1,682            | 0           | 0                    | 0           | 1,682       | 100.0 |
| Boxelder                 | 0                | 1,408       | 0                    | 0           | 1,408       | 100.0 |
| Striped maple            | 1,240,870        | 791,268     | 204,641              | 0           | 2,236,779   | 9.8   |
| Red maple                | 1,371,581        | 964,227     | 529,280              | 0           | 2,865,088   | 7.8   |
| Silver maple             | 1,227            | 489         | 3,254                | 0           | 4,970       | 70.7  |
| Sugar maple              | 1,337,703        | 855,225     | 485,975              | 0           | 2,678,903   | 14.8  |
| Mountain maple           | 444,976          | 458,754     | 67,603               | 0           | 971,333     | 13.0  |
| Alder species            | 262,844          | 334,042     | 278,456              | 0           | 875,342     | 22.8  |
| Serviceberry             | 57,144           | 63,451      | 6,713                | 0           | 127,307     | 26.3  |
| Bog rosemary             | 16,827           | 0           | 0                    | 0           | 16,827      | 100.0 |
| Chokeberry species       | 4,676            | 0           | 0                    | 0           | 4,676       | 69.6  |
| Azalea species           | 0                | 102,620     | 0                    | 0           | 102,620     | 98.4  |
| Barberry                 | 21,536           | 42,732      | 34,638               | 0           | 98,905      | 39.3  |
| Yellow birch             | 705,814          | 491,467     | 247,535              | 0           | 1,444,816   | 11.2  |
| Sweet birch              | 69,579           | 67,218      | 14,662               | 0           | 151,459     | 17.8  |
| Paper birch              | 350,085          | 250,842     | 368,023              | 0           | 968,951     | 13.1  |
| Gray birch               | 36,731           | 154,551     | 91,108               | 0           | 282,389     | 20.4  |
| American hornbeam        | 27,018           | 4,243       | 0                    | 0           | 31,261      | 47.6  |
| Hickory species          | 3,311            | 1,617       | 0                    | 0           | 4,928       | 74.8  |
| Bitternut hickory        | 2,189            | 0           | 0                    | 0           | 2,189       | 100.0 |
| Pignut hickory           | 2,313            | 3,551       | 0                    | 0           | 5,865       | 59.8  |
| Shagbark hickory         | 13,947           | 2,820       | 1,617                | 0           | 18,384      | 43.2  |
| American chestnut        | 40,656           | 16,331      | 0                    | 0           | 56,987      | 36.7  |
| Sweetfern                | 56,553           | 4,597       | 14,309               | 0           | 75,460      | 65.7  |
| Flowering dogwood        | 4,146            | 1,412       | 0                    | 0           | 5,558       | 78.8  |
| Alternate-leaved dogwood | 32,263           | 4,059       | 6,586                | 0           | 42,907      | 55.0  |
| Silky dogwood            | 3,091            | 12,076      | 6,621                | 0           | 21,789      | 51.8  |
| Round-leaved dogwood     | 12,344           | 0           | 21,780               | 0           | 34,124      | 67.4  |
| Panicled dogwood         | 2,823            | 1,315       | 1,621                | 0           | 5,760       | 61.0  |
| Red-osier dogwood        | 165,998          | 35,274      | 226,781              | 0           | 428,053     | 48.2  |
| Hawthorn species         | 23,217           | 37,404      | 1,402                | 0           | 62,023      | 37.4  |
| American hazelnut        | 187,890          | 46,814      | 0                    | 0           | 234,704     | 24.9  |
| Beaked hazelnut          | 207,418          | 46,786      | 48,561               | 0           | 302,765     | 29.3  |
| Leatherwood              | 137,029          | 111,350     | 0                    | 0           | 248,378     | 63.6  |
| American beech           | 1,138,368        | 556,352     | 213,508              | 0           | 1,908,228   | 7.9   |
| White ash                | 361,101          | 249,926     | 107,652              | 0           | 718,679     | 10.4  |
| Black ash                | 2,506            | 8,717       | 0                    | 0           | 11,222      | 43.3  |
| Green ash                | 21,682           | 11,065      | 0                    | 0           | 32,747      | 52.8  |
| Huckleberry              | 0                | 3,378       | 45,828               | 0           | 49,206      | 93.4  |
| Witch-hazel              | 321,132          | 237,670     | 24,090               | 0           | 582,892     | 16.1  |
| Large-leaved holly       | 15,848           | 0           | 0                    | 0           | 15,848      | 90.1  |
| Winterberry holly        | 79,006           | 246,251     | 3,389                | 0           | 328,646     | 37.8  |
| Butternut                | 430              | 0           | 0                    | 0           | 430         | 100.0 |
| Sheep laurel             | 252,391          | 209,690     | 74,334               | 0           | 536,415     | 38.0  |
| Mountain laurel          | 188,190          | 117,162     | 6,319                | 0           | 311,671     | 34.7  |
| Labrador tea             | 0                | 24,519      | 12,175               | 0           | 36,694      | 68.6  |
| Common spicebush         | 9,589            | 72,575      | 0                    | 0           | 82,165      | 79.9  |
| Bush honeysuckle         | 77,953           | 184,188     | 46,784               | 0           | 308,925     | 35.2  |
| Apple species            | 9,038            | 1,884       | 33,251               | 0           | 44,172      | 55.5  |
| Mountain holly           | 89,380           | 106,477     | 99,217               | 0           | 295,073     | 31.7  |

Table 16.--continued

(In thousands of stems)

| Species                 | Stand-size class |             |                      |             | All classes | SE    |
|-------------------------|------------------|-------------|----------------------|-------------|-------------|-------|
|                         | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |       |
| Eastern hophornbeam     | 31,942           | 47,126      | 8,789                | 0           | 87,857      | 21.7  |
| Balsam poplar           | 0                | 5,488       | 4,680                | 0           | 10,169      | 48.6  |
| Bigtooth aspen          | 17,311           | 6,681       | 12,093               | 0           | 36,085      | 35.8  |
| Swamp cottonwood        | 0                | 2,591       | 0                    | 0           | 2,591       | 100.0 |
| Quaking aspen           | 88,734           | 122,468     | 155,884              | 0           | 367,085     | 21.2  |
| Cherry species          | 0                | 1,344       | 0                    | 0           | 1,344       | 100.0 |
| Pin cherry              | 45,066           | 151,705     | 319,471              | 0           | 516,242     | 36.8  |
| Black cherry            | 409,409          | 285,687     | 144,834              | 0           | 839,930     | 11.2  |
| Chokecherry             | 102,215          | 60,603      | 109,127              | 0           | 271,945     | 29.7  |
| White oak               | 104,613          | 61,480      | 13,712               | 0           | 179,805     | 20.4  |
| Swamp white oak         | 0                | 4,192       | 0                    | 0           | 4,192       | 100.0 |
| Northern pin oak        | 5,568            | 0           | 0                    | 0           | 5,568       | 100.0 |
| Scrub, bear oak         | 62,895           | 27,997      | 103,233              | 0           | 194,125     | 59.6  |
| Willow oak              | 1,514            | 0           | 0                    | 0           | 1,514       | 100.0 |
| Chestnut oak            | 1,593            | 5,740       | 398                  | 0           | 7,731       | 61.2  |
| Northern red oak        | 458,225          | 282,436     | 54,126               | 0           | 794,787     | 10.2  |
| Black oak               | 43,284           | 14,790      | 7,996                | 0           | 66,070      | 37.8  |
| Buckthorn species       | 32,564           | 17,625      | 1,400                | 0           | 51,590      | 39.4  |
| Rhododendron species    | 0                | 0           | 91,317               | 0           | 91,317      | 100.0 |
| Smooth sumac            | 1,454            | 0           | 0                    | 0           | 1,454       | 100.0 |
| Staghorn sumac          | 0                | 7,647       | 21,785               | 0           | 29,432      | 51.3  |
| Poison sumac            | 0                | 1,563       | 0                    | 0           | 1,563       | 100.0 |
| Currant species         | 23,004           | 25,201      | 0                    | 0           | 48,204      | 38.4  |
| Black locust            | 0                | 1,382       | 0                    | 0           | 1,382       | 100.0 |
| Rose species            | 6,543            | 21,823      | 0                    | 0           | 28,366      | 80.3  |
| Rubus species           | 1,668,729        | 1,886,043   | 4,058,063            | 0           | 7,612,835   | 12.1  |
| Willow species          | 2,752            | 33,003      | 11,111               | 0           | 46,866      | 48.0  |
| Black willow            | 0                | 0           | 1,511                | 0           | 1,511       | 100.0 |
| American elderberry     | 2,999            | 2,783       | 7,898                | 0           | 13,680      | 51.7  |
| Red-berried alder       | 13,542           | 11,374      | 20,668               | 0           | 45,585      | 32.9  |
| Sassafras               | 1,655            | 0           | 0                    | 0           | 1,655       | 100.0 |
| American mountain ash   | 32,257           | 119,928     | 9,828                | 0           | 162,012     | 35.0  |
| Spiraea species         | 476,761          | 304,073     | 410,585              | 6,795       | 1,198,214   | 19.4  |
| Sweetleaf               | 2,613            | 2,613       | 0                    | 0           | 5,227       | 68.6  |
| Basswood species        | 0                | 0           | 47,371               | 0           | 47,371      | 100.0 |
| American basswood       | 38,001           | 5,201       | 2,805                | 0           | 46,007      | 39.4  |
| American elm            | 31,789           | 15,551      | 10,502               | 0           | 57,842      | 29.6  |
| Blueberry               | 1,055,859        | 853,615     | 339,044              | 0           | 2,248,518   | 13.4  |
| Viburnum species        | 77,486           | 32,323      | 32,969               | 0           | 142,778     | 35.6  |
| Maple-leaved viburnum   | 248,086          | 89,589      | 8,413                | 0           | 346,089     | 22.8  |
| Hobblebush viburnum     | 1,175,977        | 712,166     | 121,528              | 0           | 2,009,671   | 13.1  |
| Wild raisin             | 135,483          | 45,482      | 79,835               | 0           | 260,801     | 23.1  |
| Arrowwood               | 118,850          | 51,194      | 17,835               | 0           | 187,879     | 51.8  |
| Nannyberry              | 1,382            | 22,981      | 14,442               | 0           | 38,805      | 68.3  |
| Blackhaw                | 6,469            | 0           | 0                    | 0           | 6,469       | 100.0 |
| Highbush cranberry      | 4,535            | 0           | 42,651               | 0           | 47,185      | 90.9  |
| Unknown deciduous shrub | 80,369           | 201,042     | 61,023               | 0           | 342,434     | 29.3  |
| Unknown evergreen shrub | 9,496            | 0           | 19,983               | 0           | 29,479      | 57.6  |
| Unknown tree            | 11,214           | 0           | 9,692                | 0           | 20,906      | 58.2  |
| All species             | 18,743,146       | 15,598,408  | 10,316,498           | 6,795       | 44,664,847  | 3.7   |
| SE                      | 6.2              | 6.7         | 13.6                 | 100.0       | 3.7         |       |

Table 17.--Number of live trees (1.0+ inches d.b.h.) on timberland by species and diameter class, New Hampshire, 1997

| Species group              | Diameter class (inches at breast height) |                |                |                |                |               |               |               |  |  |
|----------------------------|--|----------------|----------------|----------------|----------------|---------------|---------------|---------------|--|--|
|                            | 1.0-<br>2.9                              | 3.0-<br>4.9    | 5.0-<br>6.9    | 7.0-<br>8.9    | 9.0-<br>10.9   | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 |  |  |
| Balsam fir                 | 342,165                                  | 100,259        | 46,393         | 20,334         | 7,959          | 3,571         | 810           | 278           |  |  |
| Tamarack                   | 1,039                                    | 0              | 372            | 317            | 284            | 108           | 0             | 36            |  |  |
| White spruce               | 1,803                                    | 2,062          | 716            | 761            | 636            | 376           | 133           | 98            |  |  |
| Black spruce               | 0  | 0              | 38             | 0              | 0              | 0             | 0             | 0             |  |  |
| Red spruce                 | 109,821                                  | 30,517         | 22,482         | 15,854         | 8,147          | 5,219         | 2,211         | 767           |  |  |
| Red pine                   | 415                                      | 409            | 1,016          | 563            | 726            | 356           | 524           | 69            |  |  |
| White pine                 | 89,818                                   | 34,154         | 26,504         | 21,359         | 15,780         | 13,118        | 10,734        | 7,147         |  |  |
| Northern white-cedar       | 895                                      | 0              | 577            | 505            | 473            | 186           | 0             | 39            |  |  |
| Hemlock                    | 111,848                                  | 50,572         | 29,139         | 20,803         | 14,397         | 9,802         | 5,965         | 3,426         |  |  |
| Other softwoods            | 1,241                                    | 2,743          | 1,566          | 844            | 376            | 255           | 159           | 247           |  |  |
| <b>Total softwoods</b>     | <b>659,045</b>                           | <b>220,717</b> | <b>128,804</b> | <b>81,339</b>  | <b>48,780</b>  | <b>32,991</b> | <b>20,536</b> | <b>12,107</b> |  |  |
| Sugar maple                | 128,537                                  | 37,841         | 21,124         | 15,446         | 13,590         | 7,799         | 3,871         | 2,052         |  |  |
| Red maple                  | 272,669                                  | 121,805        | 67,641         | 47,466         | 27,444         | 13,181        | 6,820         | 2,694         |  |  |
| Yellow birch               | 127,468                                  | 40,214         | 17,624         | 12,329         | 7,986          | 5,547         | 3,119         | 1,999         |  |  |
| Paper birch                | 79,396                                   | 24,738         | 24,616         | 19,503         | 12,407         | 6,581         | 2,626         | 786           |  |  |
| Beech                      | 184,530                                  | 40,240         | 19,569         | 11,348         | 8,074          | 5,070         | 2,741         | 2,038         |  |  |
| White ash                  | 30,540                                   | 15,475         | 7,894          | 5,103          | 3,510          | 2,739         | 1,815         | 578           |  |  |
| Black ash                  | 1,455                                    | 1,997          | 324            | 499            | 272            | 0             | 0             | 0             |  |  |
| Aspen                      | 49,004                                   | 8,727          | 5,832          | 6,179          | 4,472          | 2,466         | 1,867         | 659           |  |  |
| White oaks                 | 4,623                                    | 2,489          | 2,705          | 1,861          | 1,224          | 947           | 576           | 139           |  |  |
| Red oaks                   | 56,863                                   | 23,702         | 14,427         | 15,336         | 12,604         | 9,823         | 6,559         | 2,458         |  |  |
| Basswood                   | 2,781                                    | 0              | 708            | 460            | 174            | 263           | 132           | 0             |  |  |
| Elm                        | 6,158                                    | 2,831          | 618            | 371            | 225            | 39            | 76            | 40            |  |  |
| Other commercial hardwoods | 63,208                                   | 17,431         | 9,965          | 7,090          | 3,643          | 1,712         | 1,177         | 349           |  |  |
| Noncommercial hardwoods    | 250,541                                  | 41,201         | 10,996         | 3,140          | 869            | 174           | 83            | 0             |  |  |
| <b>Total hardwoods</b>     | <b>1,257,774</b>                         | <b>378,693</b> | <b>204,045</b> | <b>146,131</b> | <b>96,495</b>  | <b>56,343</b> | <b>31,462</b> | <b>13,792</b> |  |  |
| <b>Total, all species</b>  | <b>1,916,819</b>                         | <b>599,409</b> | <b>332,848</b> | <b>227,470</b> | <b>145,275</b> | <b>89,334</b> | <b>51,997</b> | <b>25,899</b> |  |  |
| SE                         | 4.0                                      | 4.0            | 2.8            | 2.5            | 2.5            | 3.0           | 3.5           | 4.6           |  |  |

Table 17.--continued

| Species group              | (In thousands of trees)                  |               |               |              |                |                  | All classes | SE |
|----------------------------|--|---------------|---------------|--------------|----------------|------------------|-------------|----|
|                            | Diameter class (inches at breast height) |               |               |              |                |                  |             |    |
|                            | 17.0-<br>18.9                            | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0+        | Total<br>5.0+  |                  |             |    |
| Balsam fir                 | 121                                      | 0             | 0             | 0            | 79,466         | 521,890          | 10.2        |    |
| Tamarack                   | 0  | 0             | 0             | 0            | 1,118          | 2,157            | 52.4        |    |
| White spruce               | 36                                       | 60            | 72            | 0            | 2,886          | 6,751            | 36.4        |    |
| Black spruce               | 0  | 0             | 0             | 0            | 38             | 38               | 100.0       |    |
| Red spruce                 | 373                                      | 129           | 0             | 0            | 55,184         | 195,522          | 9.6         |    |
| Red pine                   | 0  | 0             | 57            | 0            | 3,312          | 4,136            | 31.9        |    |
| White pine                 | 3,538                                    | 3,006         | 4,183         | 949          | 106,318        | 230,290          | 6.8         |    |
| Northern white-cedar       | 75                                       | 0             | 0             | 0            | 1,855          | 2,750            | 74.2        |    |
| Hemlock                    | 1,708                                    | 1,071         | 692           | 33           | 87,035         | 249,455          | 8.0         |    |
| Other softwoods            | 31                                       | 31            | 31            | 0            | 3,542          | 7,525            | 63.1        |    |
| <b>Total softwoods</b>     | <b>5,881</b>                             | <b>4,297</b>  | <b>5,036</b>  | <b>982</b>   | <b>340,753</b> | <b>1,220,515</b> | <b>5.4</b>  |    |
| Sugar maple                | 1,022                                    | 671           | 1,056         | 253          | 66,885         | 233,262          | 9.3         |    |
| Red maple                  | 1,789                                    | 685           | 804           | 72           | 168,598        | 563,072          | 4.7         |    |
| Yellow birch               | 806                                      | 688           | 664           | 62           | 50,823         | 218,506          | 9.3         |    |
| Paper birch                | 287                                      | 24            | 0             | 0            | 66,831         | 170,965          | 9.8         |    |
| Beech                      | 721                                      | 387           | 464           | 33           | 50,444         | 275,215          | 7.7         |    |
| White ash                  | 265                                      | 255           | 165           | 97           | 22,422         | 68,437           | 10.2        |    |
| Black ash                  | 0  | 0             | 0             | 0            | 1,095          | 4,548            | 55.7        |    |
| Aspen                      | 142                                      | 139           | 74            | 0            | 21,830         | 79,561           | 18.9        |    |
| White oaks                 | 218                                      | 70            | 38            | 40           | 7,818          | 14,930           | 16.2        |    |
| Red oaks                   | 1,925                                    | 845           | 914           | 156          | 65,048         | 145,614          | 7.9         |    |
| Basswood                   | 93                                       | 0             | 0             | 0            | 1,831          | 4,612            | 36.2        |    |
| Elm                        | 0  | 0             | 0             | 0            | 1,370          | 10,360           | 28.2        |    |
| Other commercial hardwoods | 147                                      | 70            | 0             | 0            | 24,153         | 104,792          | 10.4        |    |
| Noncommercial hardwoods    | 0  | 0             | 0             | 0            | 15,263         | 307,005          | 8.6         |    |
| <b>Total hardwoods</b>     | <b>7,416</b>                             | <b>3,836</b>  | <b>4,179</b>  | <b>714</b>   | <b>564,412</b> | <b>2,200,879</b> | <b>3.0</b>  |    |
| <b>Total, all species</b>  | <b>13,297</b>                            | <b>8,133</b>  | <b>9,215</b>  | <b>1,697</b> | <b>905,165</b> | <b>3,421,395</b> | <b>2.7</b>  |    |
| SE                         | 6.1                                      | 8.0           | 7.7           | 16.7         | 2.0            | 2.7              |             |    |

Table 18.--Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, New Hampshire, 1983

(In thousands of trees)

| Species group             | Diameter class (inches at breast height) |                |                |               |               |               |               |              |              |            |                |            |            |                | All classes | SE         |                |            |            |                |            |            |
|---------------------------|--|----------------|----------------|---------------|---------------|---------------|---------------|--------------|--------------|------------|----------------|------------|------------|----------------|-------------|------------|----------------|------------|------------|----------------|------------|------------|
|                           | 5.0-6.9                                  |                | 7.0-8.9        |               | 9.0-10.9      |               | 11.0-12.9     |              | 13.0-14.9    |            | 15.0-16.9      |            | 17.0-18.9  |                |             |            | 19.0-20.9      |            | 21.0-28.9  |                | 29.0+      |            |
|                           |  |                |                |               |               |               |               |              |              |            |                |            |            |                |             |            |                |            |            |                |            |            |
| Balsam fir                | 54,581                                   | 25,617         | 11,502         | 4,237         | 917           | 184           | 25            | 0            | 0            | 0          | 0              | 0          | 0          | 0              | 0           | 0          | 0              | 0          | 0          | 0              | 97,064     | 10.0       |
| Tamarack                  | 1,245                                    | 399            | 368            | 70            | 35            | 32            | 29            | 0            | 0            | 0          | 0              | 0          | 0          | 0              | 0           | 0          | 0              | 0          | 0          | 0              | 2,177      | 48.0       |
| White spruce              | 2,130                                    | 1,258          | 462            | 589           | 138           | 0             | 0             | 0            | 0            | 0          | 0              | 0          | 0          | 0              | 0           | 0          | 0              | 0          | 0          | 0              | 4,578      | 40.1       |
| Black spruce              | 773                                      | 377            | 32             | 29            | 24            | 0             | 0             | 0            | 0            | 0          | 0              | 0          | 0          | 0              | 0           | 0          | 0              | 0          | 0          | 0              | 1,236      | 61.3       |
| Red spruce                | 37,399                                   | 20,334         | 11,331         | 4,526         | 1,835         | 738           | 320           | 214          | 57           | 0          | 0              | 0          | 0          | 0              | 0           | 0          | 0              | 0          | 0          | 0              | 76,755     | 10.7       |
| Red pine                  | 137                                      | 114            | 468            | 687           | 337           | 241           | 157           | 75           | 0            | 0          | 0              | 0          | 0          | 0              | 0           | 0          | 0              | 0          | 0          | 0              | 2,216      | 34.0       |
| White pine                | 29,035                                   | 24,545         | 18,296         | 14,237        | 9,077         | 5,959         | 3,665         | 1,815        | 2,433        | 191        | 109,253        | 7.5        | 0          | 0              | 0           | 0          | 0              | 0          | 0          | 0              | 1,647      | 59.1       |
| Northern white-cedar      | 657                                      | 436            | 306            | 123           | 71            | 32            | 0             | 0            | 0            | 0          | 0              | 0          | 0          | 0              | 0           | 0          | 0              | 0          | 0          | 0              | 1,647      | 59.1       |
| Hemlock                   | 23,299                                   | 15,621         | 9,195          | 6,801         | 4,039         | 1,923         | 1,054         | 469          | 405          | 0          | 0              | 0          | 0          | 0              | 0           | 0          | 0              | 0          | 0          | 0              | 62,806     | 8.8        |
| Other softwoods           | 2,827                                    | 1,034          | 423            | 278           | 276           | 80            | 78            | 45           | 21           | 0          | 0              | 0          | 0          | 0              | 0           | 0          | 0              | 0          | 0          | 0              | 5,062      | 62.2       |
| <b>Total softwoods</b>    | <b>152,084</b>                           | <b>89,735</b>  | <b>52,383</b>  | <b>31,577</b> | <b>16,749</b> | <b>9,190</b>  | <b>5,328</b>  | <b>2,618</b> | <b>2,939</b> | <b>191</b> | <b>362,794</b> | <b>4.9</b> | <b>191</b> | <b>362,794</b> | <b>4.9</b>  | <b>191</b> | <b>362,794</b> | <b>4.9</b> | <b>191</b> | <b>362,794</b> | <b>4.9</b> | <b>4.9</b> |
| Sugar maple               | 18,319                                   | 16,056         | 10,356         | 5,210         | 2,935         | 1,596         | 827           | 562          | 636          | 62         | 56,557         | 10.0       | 62         | 56,557         | 10.0        | 62         | 56,557         | 10.0       | 62         | 56,557         | 10.0       | 10.0       |
| Red maple                 | 63,474                                   | 41,977         | 23,467         | 9,816         | 4,243         | 1,792         | 889           | 305          | 308          | 15         | 146,286        | 5.4        | 15         | 146,286        | 5.4         | 15         | 146,286        | 5.4        | 15         | 146,286        | 5.4        | 5.4        |
| Yellow birch              | 15,453                                   | 10,515         | 6,449          | 4,325         | 2,981         | 1,383         | 765           | 350          | 447          | 46         | 42,715         | 9.2        | 46         | 42,715         | 9.2         | 46         | 42,715         | 9.2        | 46         | 42,715         | 9.2        | 9.2        |
| Paper birch               | 33,542                                   | 22,565         | 13,505         | 5,326         | 1,743         | 612           | 203           | 102          | 57           | 0          | 77,654         | 8.5        | 0          | 77,654         | 8.5         | 0          | 77,654         | 8.5        | 0          | 77,654         | 8.5        | 8.5        |
| Beech                     | 13,284                                   | 8,476          | 5,893          | 3,547         | 2,565         | 1,309         | 682           | 161          | 132          | 13         | 36,062         | 10.9       | 13         | 36,062         | 10.9        | 13         | 36,062         | 10.9       | 13         | 36,062         | 10.9       | 10.9       |
| White ash                 | 8,642                                    | 5,634          | 2,902          | 1,851         | 1,421         | 545           | 275           | 0            | 150          | 19         | 21,439         | 12.9       | 19         | 21,439         | 12.9        | 19         | 21,439         | 12.9       | 19         | 21,439         | 12.9       | 12.9       |
| Black ash                 | 1,549                                    | 537            | 464            | 152           | 76            | 0             | 0             | 0            | 0            | 0          | 2,778          | 32.6       | 0          | 2,778          | 32.6        | 0          | 2,778          | 32.6       | 0          | 2,778          | 32.6       | 32.6       |
| Aspen                     | 11,420                                   | 9,617          | 5,738          | 2,648         | 1,122         | 473           | 142           | 38           | 0            | 0          | 31,198         | 13.6       | 0          | 31,198         | 13.6        | 0          | 31,198         | 13.6       | 0          | 31,198         | 13.6       | 13.6       |
| White oaks                | 3,049                                    | 2,875          | 1,344          | 1,045         | 368           | 267           | 83            | 18           | 12           | 30         | 9,092          | 16.8       | 30         | 9,092          | 16.8        | 30         | 9,092          | 16.8       | 30         | 9,092          | 16.8       | 16.8       |
| Red oaks                  | 19,479                                   | 19,724         | 11,603         | 7,704         | 3,950         | 2,054         | 1,223         | 303          | 475          | 0          | 66,517         | 8.2        | 0          | 66,517         | 8.2         | 0          | 66,517         | 8.2        | 0          | 66,517         | 8.2        | 8.2        |
| Basswood                  | 568                                      | 715            | 315            | 165           | 37            | 23            | 50            | 0            | 0            | 14         | 1,888          | 31.3       | 14         | 1,888          | 31.3        | 14         | 1,888          | 31.3       | 14         | 1,888          | 31.3       | 31.3       |
| Elm                       | 556                                      | 192            | 304            | 181           | 103           | 43            | 40            | 0            | 12           | 0          | 1,433          | 25.0       | 0          | 1,433          | 25.0        | 0          | 1,433          | 25.0       | 0          | 1,433          | 25.0       | 25.0       |
| Other hardwoods           | 11,355                                   | 6,630          | 3,695          | 1,408         | 457           | 255           | 80            | 26           | 20           | 0          | 23,926         | 9.2        | 0          | 23,926         | 9.2         | 0          | 23,926         | 9.2        | 0          | 23,926         | 9.2        | 9.2        |
| <b>Total hardwoods</b>    | <b>200,692</b>                           | <b>145,513</b> | <b>86,037</b>  | <b>43,378</b> | <b>22,000</b> | <b>10,352</b> | <b>5,260</b>  | <b>1,865</b> | <b>2,250</b> | <b>199</b> | <b>517,547</b> | <b>2.7</b> | <b>199</b> | <b>517,547</b> | <b>2.7</b>  | <b>199</b> | <b>517,547</b> | <b>2.7</b> | <b>199</b> | <b>517,547</b> | <b>2.7</b> | <b>2.7</b> |
| <b>Total, all species</b> | <b>352,776</b>                           | <b>235,247</b> | <b>138,420</b> | <b>74,955</b> | <b>38,750</b> | <b>19,542</b> | <b>10,587</b> | <b>4,483</b> | <b>5,189</b> | <b>391</b> | <b>880,341</b> | <b>2.1</b> | <b>391</b> | <b>880,341</b> | <b>2.1</b>  | <b>391</b> | <b>880,341</b> | <b>2.1</b> | <b>391</b> | <b>880,341</b> | <b>2.1</b> | <b>2.1</b> |
| SE                        | 3.4                                      | 2.8            | 2.8            | 3.1           | 3.8           | 4.9           | 6.2           | 8.3          | 8.1          | 20.0       | 2.1            | 2.1        | 20.0       | 2.1            | 2.1         | 20.0       | 2.1            | 2.1        | 20.0       | 2.1            | 2.1        | 2.1        |

Table 19.--Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, New Hampshire, 1997  
(In thousands of trees)

| Species group             | Diameter class (inches at breast height) |                |                |               |               |               |               |              |              |              |                |            |            | All classes    | SE         |
|---------------------------|--|----------------|----------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|------------|------------|----------------|------------|
|                           | 5.0-6.9                                  | 7.0-8.9        | 9.0-10.9       | 11.0-12.9     | 13.0-14.9     | 15.0-16.9     | 17.0-18.9     | 19.0-20.9    | 21.0-28.9    | 29.0+        |                |            |            |                |            |
| Balsam fir                | 46,148                                   | 20,295         | 7,681          | 3,423         | 810           | 278           | 121           | 0            | 0            | 0            | 0              | 0          | 0          | 78,756         | 9.8        |
| Tamarack                  | 372                                      | 284            | 248            | 108           | 0             | 36            | 0             | 0            | 0            | 0            | 0              | 0          | 0          | 1,049          | 41.5       |
| White spruce              | 716                                      | 761            | 564            | 340           | 133           | 98            | 0             | 60           | 72           | 0            | 0              | 0          | 0          | 2,743          | 36.7       |
| Black spruce              | 38                                       | 0              | 0              | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 0              | 0          | 0          | 38             | 100.0      |
| Red spruce                | 22,375                                   | 15,733         | 7,798          | 5,149         | 2,131         | 767           | 373           | 129          | 0            | 0            | 0              | 0          | 0          | 54,455         | 9.0        |
| Red pine                  | 1,016                                    | 563            | 686            | 356           | 524           | 69            | 0             | 0            | 57           | 0            | 0              | 0          | 0          | 3,273          | 34.3       |
| White pine                | 25,921                                   | 20,780         | 14,502         | 12,174        | 10,630        | 6,882         | 3,354         | 2,806        | 3,873        | 643          | 0              | 0          | 0          | 101,564        | 5.9        |
| Northern white-cedar      | 469                                      | 505            | 437            | 149           | 0             | 39            | 75            | 0            | 0            | 0            | 0              | 0          | 0          | 1,674          | 67.7       |
| Hemlock                   | 28,193                                   | 20,074         | 11,965         | 8,740         | 5,464         | 2,876         | 1,557         | 949          | 655          | 33           | 0              | 0          | 0          | 80,505         | 7.2        |
| Other softwoods           | 1,566                                    | 844            | 343            | 255           | 159           | 218           | 31            | 31           | 31           | 0            | 0              | 0          | 0          | 3,480          | 67.0       |
| <b>Total softwoods</b>    | <b>126,813</b>                           | <b>79,839</b>  | <b>44,226</b>  | <b>30,695</b> | <b>19,850</b> | <b>11,263</b> | <b>5,510</b>  | <b>3,976</b> | <b>4,688</b> | <b>676</b>   | <b>327,536</b> | <b>4.0</b> | <b>4.0</b> | <b>4.0</b>     | <b>4.0</b> |
| Sugar maple               | 20,077                                   | 14,640         | 13,228         | 7,036         | 3,262         | 1,957         | 832           | 630          | 912          | 180          | 62,756         | 7.8        | 7.8        | 62,756         | 7.8        |
| Red maple                 | 63,879                                   | 45,272         | 26,715         | 10,578        | 5,866         | 2,189         | 1,373         | 506          | 541          | 0            | 156,919        | 3.7        | 3.7        | 156,919        | 3.7        |
| Yellow birch              | 16,329                                   | 11,828         | 7,576          | 4,445         | 2,310         | 1,598         | 692           | 544          | 486          | 24           | 45,833         | 6.5        | 6.5        | 45,833         | 6.5        |
| Paper birch               | 23,637                                   | 18,744         | 12,061         | 5,812         | 2,249         | 709           | 79            | 0            | 0            | 0            | 63,291         | 6.5        | 6.5        | 63,291         | 6.5        |
| Beech                     | 18,038                                   | 10,601         | 7,434          | 4,186         | 2,105         | 1,743         | 592           | 221          | 243          | 0            | 45,163         | 7.4        | 7.4        | 45,163         | 7.4        |
| White ash                 | 7,691                                    | 4,940          | 3,483          | 2,591         | 1,704         | 512           | 265           | 223          | 132          | 97           | 21,638         | 8.4        | 8.4        | 21,638         | 8.4        |
| Black ash                 | 324                                      | 499            | 235            | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 1,058          | 41.4       | 41.4       | 1,058          | 41.4       |
| Aspen                     | 5,721                                    | 6,027          | 4,408          | 2,466         | 1,867         | 566           | 142           | 115          | 74           | 0            | 21,385         | 11.3       | 11.3       | 21,385         | 11.3       |
| White oaks                | 2,581                                    | 1,726          | 1,186          | 805           | 538           | 107           | 218           | 70           | 38           | 40           | 7,308          | 13.3       | 13.3       | 7,308          | 13.3       |
| Red oaks                  | 14,150                                   | 15,080         | 12,493         | 9,644         | 6,324         | 2,420         | 1,854         | 813          | 775          | 116          | 63,670         | 6.3        | 6.3        | 63,670         | 6.3        |
| Basswood                  | 593                                      | 460            | 174            | 173           | 132           | 0             | 93            | 0            | 0            | 0            | 1,625          | 22.7       | 22.7       | 1,625          | 22.7       |
| Elm                       | 541                                      | 371            | 225            | 39            | 76            | 40            | 0             | 0            | 0            | 0            | 1,293          | 26.7       | 26.7       | 1,293          | 26.7       |
| Other hardwoods           | 9,549                                    | 6,686          | 3,457          | 1,422         | 1,032         | 201           | 117           | 37           | 0            | 0            | 22,502         | 8.3        | 8.3        | 22,502         | 8.3        |
| <b>Total hardwoods</b>    | <b>183,108</b>                           | <b>136,875</b> | <b>92,676</b>  | <b>49,198</b> | <b>27,464</b> | <b>12,041</b> | <b>6,259</b>  | <b>3,159</b> | <b>3,201</b> | <b>458</b>   | <b>514,440</b> | <b>2.3</b> | <b>2.3</b> | <b>514,440</b> | <b>2.3</b> |
| <b>Total, all species</b> | <b>309,921</b>                           | <b>216,714</b> | <b>136,903</b> | <b>79,893</b> | <b>47,314</b> | <b>23,304</b> | <b>11,769</b> | <b>7,135</b> | <b>7,888</b> | <b>1,134</b> | <b>841,976</b> | <b>2.0</b> | <b>2.0</b> | <b>841,976</b> | <b>2.0</b> |
| SE                        | 2.9                                      | 2.5            | 2.6            | 3.1           | 3.6           | 4.8           | 6.4           | 8.5          | 8.3          | 19.3         | 2.0            | 2.0        | 2.0        | 2.0            | 2.0        |

Table 20.--Net volume of all trees on timberland by species and tree class, New Hampshire, 1997

| Species group              | Tree class                  |                |                          |               |                |              |                | SE         |
|----------------------------|-----------------------------|----------------|--------------------------|---------------|----------------|--------------|----------------|------------|
|                            | (In millions of cubic feet) |                |                          |               |                |              |                |            |
|                            | Preferred                   | Acceptable     | Preferred/<br>acceptable | Rough<br>cull | Rotten<br>cull | All<br>cull  | All classes    |            |
| Balsam fir                 | 39.2                        | 443.0          | 482.2                    | 2.5           | 1.2            | 3.7          | 485.9          | 9.4        |
| Tamarack                   | .0                          | 8.2            | 8.2                      | .5            | .0             | .5           | 8.7            | 41.4       |
| White spruce               | 2.1                         | 31.6           | 33.8                     | .9            | .5             | 1.4          | 35.1           | 44.0       |
| Black spruce               | .0                          | .1             | .1                       | .0            | .0             | .0           | .1             | 100.0      |
| Red spruce                 | 40.8                        | 459.8          | 500.5                    | 4.6           | 1.4            | 6.0          | 506.5          | 9.6        |
| Red pine                   | .0                          | 44.2           | 44.2                     | .3            | .0             | .3           | 44.5           | 33.7       |
| White pine                 | 66.1                        | 1,784.2        | 1,850.3                  | 82.7          | 7.0            | 89.7         | 1,939.9        | 5.8        |
| Northern white-cedar       | .7                          | 12.6           | 13.3                     | .3            | .3             | .7           | 14.0           | 58.3       |
| Hemlock                    | 26.0                        | 806.4          | 832.4                    | 60.4          | 5.4            | 65.8         | 898.2          | 8.0        |
| Other softwoods            | .0                          | 33.8           | 33.8                     | .8            | .0             | .8           | 34.6           | 50.0       |
| <b>Total softwoods</b>     | <b>174.9</b>                | <b>3,623.9</b> | <b>3,798.8</b>           | <b>153.0</b>  | <b>15.8</b>    | <b>168.8</b> | <b>3,967.7</b> | <b>3.8</b> |
| Sugar maple                | 23.6                        | 739.3          | 762.9                    | 29.4          | 15.2           | 44.7         | 807.6          | 8.9        |
| Red maple                  | 3.5                         | 1,303.7        | 1,307.2                  | 84.3          | 21.1           | 105.4        | 1,412.6        | 4.4        |
| Yellow birch               | 7.0                         | 458.6          | 465.5                    | 36.9          | 13.5           | 50.4         | 515.9          | 7.2        |
| Paper birch                | 17.4                        | 500.1          | 517.5                    | 14.3          | 6.1            | 20.4         | 537.9          | 6.5        |
| Beech                      | 1.1                         | 465.4          | 466.5                    | 24.6          | 23.2           | 47.8         | 514.3          | 8.6        |
| White ash                  | 24.3                        | 252.2          | 276.5                    | 3.7           | 3.1            | 6.8          | 283.3          | 12.9       |
| Black ash                  | .0                          | 6.1            | 6.1                      | .0            | .2             | .2           | 6.4            | 43.1       |
| Aspen                      | 7.3                         | 246.9          | 254.1                    | .6            | 2.6            | 3.2          | 257.3          | 12.1       |
| White oaks                 | .0                          | 75.3           | 75.3                     | 3.1           | .7             | 3.8          | 79.1           | 15.6       |
| Red oaks                   | 71.4                        | 782.4          | 853.8                    | 11.0          | 8.8            | 19.8         | 873.6          | 6.6        |
| Basswood                   | .0                          | 19.3           | 19.3                     | .5            | .7             | 1.2          | 20.5           | 32.2       |
| Elm                        | .0                          | 9.2            | 9.2                      | .1            | .0             | .1           | 9.4            | 36.9       |
| Other commercial hardwoods | 2.7                         | 184.5          | 187.2                    | 11.4          | 2.0            | 13.5         | 200.7          | 10.4       |
| Noncommercial hardwoods    | .0                          | .0             | .0                       | 45.5          | .9             | 46.4         | 46.4           | 11.2       |
| <b>Total hardwoods</b>     | <b>158.2</b>                | <b>5,043.1</b> | <b>5,201.2</b>           | <b>265.4</b>  | <b>98.3</b>    | <b>363.7</b> | <b>5,564.9</b> | <b>2.8</b> |
| <b>Total, all species</b>  | <b>333.1</b>                | <b>8,667.0</b> | <b>9,000.0</b>           | <b>418.5</b>  | <b>114.0</b>   | <b>532.5</b> | <b>9,532.5</b> | <b>2.1</b> |
| SE                         | 12.3                        | 2.2            | 2.2                      | 6.3           | 10.4           | 5.5          | 2.1            |            |



# Volume of all live trees on timberland, for selected species and percent change, New Hampshire, 1983 and 1997

(Volume increased by 2.1 percent for all species)

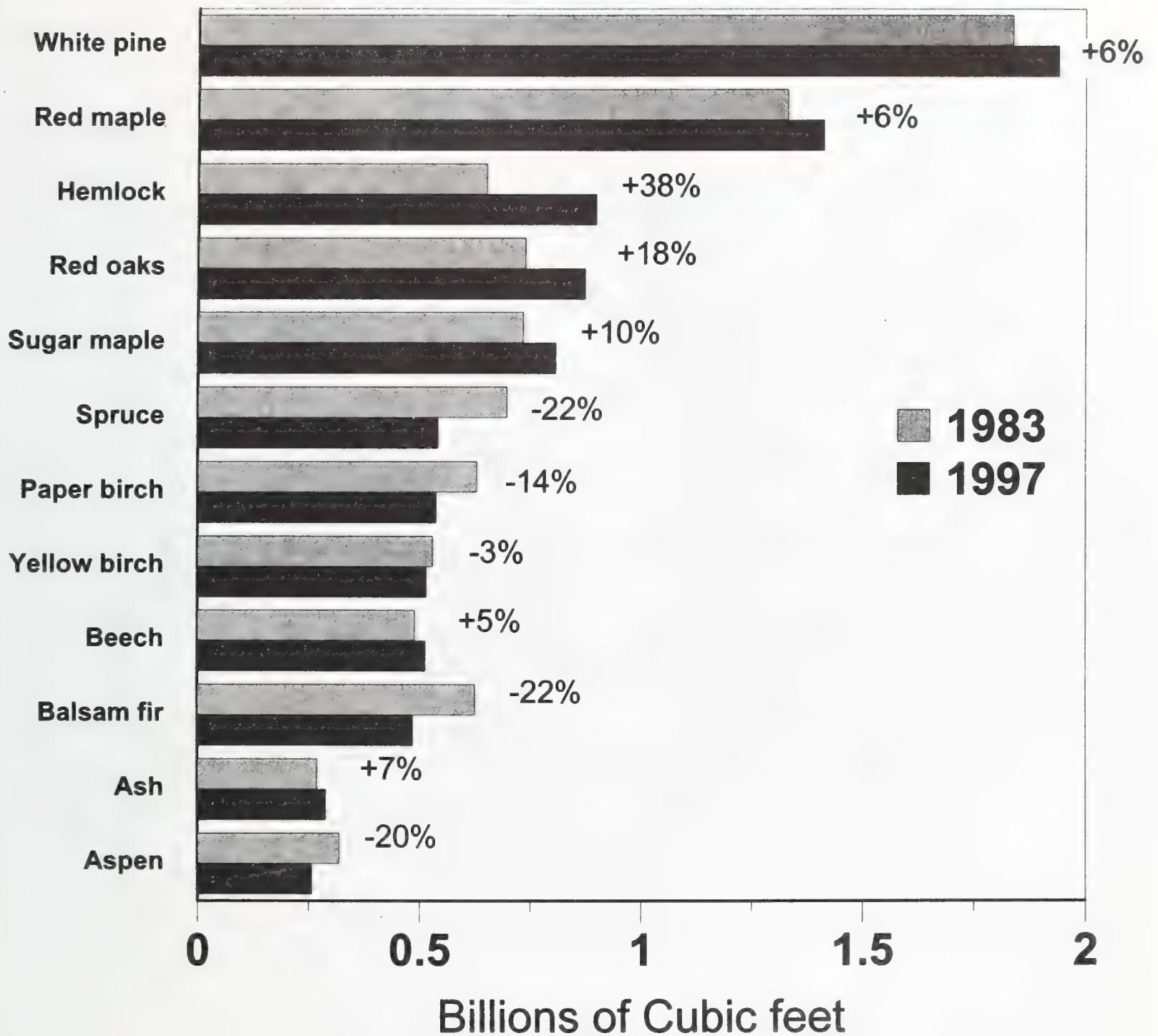


Table 21.--Net volume of all live trees on timberland by species and diameter class, New Hampshire, 1983

| Species group              | (In millions of cubic feet)              |                |                |                |                |               |               |               |               |             |                |            |            | SE         |            |
|----------------------------|--|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|-------------|----------------|------------|------------|------------|------------|
|                            | Diameter class (inches at breast height) |                |                |                |                |               |               |               |               |             |                |            |            |            |            |
|                            | 5.0-<br>6.9                              | 7.0-<br>8.9    | 9.0-<br>10.9   | 11.0-<br>12.9  | 13.0-<br>14.9  | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0+       | All<br>classes | SE         |            |            |            |
| Balsam fir                 | 178.1                                    | 190.4          | 141.7          | 82.7           | 26.0           | 6.4           | .9            | .0            | .0            | .0          | .0             | .0         | .0         | 626.3      | 9.5        |
| Tamarack                   | 3.9                                      | 2.8            | 4.1            | 1.3            | .8             | 1.0           | 2.0           | .0            | .0            | .0          | .0             | .0         | .0         | 15.9       | 35.2       |
| White spruce               | 8.8                                      | 11.2           | 6.8            | 12.8           | 6.5            | .0            | 2.0           | 2.2           | .7            | .0          | .0             | .0         | .0         | 51.2       | 47.8       |
| Black spruce               | 2.9                                      | 3.0            | .4             | .5             | .8             | .0            | .0            | .0            | .0            | .0          | .0             | .0         | .0         | 7.6        | 66.8       |
| Red spruce                 | 141.2                                    | 152.6          | 140.5          | 89.2           | 52.0           | 29.4          | 17.7          | 11.5          | 4.8           | .0          | .0             | .0         | .0         | 638.8      | 9.5        |
| Red pine                   | .9                                       | .9             | 5.4            | 12.9           | 9.5            | 8.5           | 7.9           | 4.6           | .0            | .0          | .0             | .0         | .0         | 50.4       | 37.6       |
| White pine                 | 122.3                                    | 194.2          | 231.1          | 275.7          | 252.8          | 221.7         | 177.2         | 108.5         | 210.1         | 44.1        | 1,837.8        | .0         | .0         | 6.6        | 6.6        |
| Northern white-cedar       | 1.5                                      | 2.6            | 2.5            | 1.9            | 2.0            | .8            | .0            | .0            | 1.2           | .0          | 12.5           | .0         | .0         | 48.0       | 48.0       |
| Hemlock                    | 72.7                                     | 98.6           | 102.1          | 119.2          | 97.7           | 62.6          | 45.6          | 23.9          | 28.4          | .0          | 650.9          | .0         | .0         | 8.6        | 8.6        |
| Other softwoods            | 8.5                                      | 6.8            | 5.4            | 4.6            | 6.6            | 2.6           | 3.3           | 2.2           | 1.5           | .0          | 41.6           | .0         | .0         | 45.4       | 45.4       |
| <b>Total softwoods</b>     | <b>540.8</b>                             | <b>663.2</b>   | <b>640.1</b>   | <b>600.9</b>   | <b>454.7</b>   | <b>333.0</b>  | <b>256.5</b>  | <b>152.9</b>  | <b>246.8</b>  | <b>44.1</b> | <b>3,932.9</b> | <b>4.1</b> | <b>4.1</b> | <b>4.1</b> | <b>4.1</b> |
| Sugar maple                | 62.1                                     | 125.2          | 137.4          | 106.0          | 80.5           | 59.8          | 50.4          | 35.7          | 61.0          | 16.0        | 734.1          | .0         | .0         | 9.4        | 9.4        |
| Red maple                  | 222.6                                    | 320.8          | 300.1          | 199.0          | 117.5          | 69.8          | 44.7          | 22.5          | 31.5          | 2.9         | 1,331.5        | .0         | .0         | 5.2        | 5.2        |
| Yellow birch               | 54.1                                     | 81.9           | 82.7           | 82.2           | 75.6           | 51.8          | 34.5          | 25.2          | 33.9          | 9.1         | 531.0          | .0         | .0         | 8.5        | 8.5        |
| Paper birch                | 110.5                                    | 166.2          | 171.7          | 97.0           | 44.5           | 22.3          | 8.2           | 5.5           | 4.4           | .0          | 630.2          | .0         | .0         | 8.1        | 8.1        |
| Beech                      | 44.5                                     | 71.1           | 91.0           | 78.2           | 77.4           | 57.4          | 38.7          | 10.5          | 19.3          | 2.0         | 490.2          | .0         | .0         | 10.4       | 10.4       |
| White ash                  | 31.8                                     | 46.9           | 40.7           | 39.1           | 41.2           | 20.5          | 14.0          | .0            | 8.8           | 5.4         | 248.4          | .0         | .0         | 14.9       | 14.9       |
| Black ash                  | 6.4                                      | 3.5            | 6.2            | 2.9            | 2.0            | .0            | .0            | .0            | .0            | .0          | 21.1           | .0         | .0         | 43.6       | 43.6       |
| Aspen                      | 47.3                                     | 80.3           | 82.4           | 52.2           | 30.8           | 16.6          | 8.3           | 2.5           | .0            | .0          | 320.2          | .0         | .0         | 13.2       | 13.2       |
| White oaks                 | 10.4                                     | 15.5           | 13.5           | 15.4           | 9.5            | 6.0           | 3.9           | .7            | 2.0           | 3.0         | 79.8           | .0         | .0         | 16.8       | 16.8       |
| Red oaks                   | 65.7                                     | 139.3          | 137.8          | 131.2          | 94.9           | 68.3          | 50.5          | 16.1          | 32.7          | 2.4         | 738.9          | .0         | .0         | 7.3        | 7.3        |
| Basswood                   | 2.5                                      | 5.4            | 3.9            | 3.0            | 1.2            | 1.3           | 2.7           | .0            | .0            | 1.4         | 21.4           | .0         | .0         | 28.2       | 28.2       |
| Elm                        | 2.4                                      | 1.5            | 3.5            | 2.6            | 2.5            | 2.1           | 1.5           | .7            | 1.1           | .0          | 17.8           | .0         | .0         | 22.7       | 22.7       |
| Other commercial hardwoods | 29.7                                     | 46.6           | 40.8           | 27.9           | 14.3           | 10.6          | 3.0           | 1.1           | 1.3           | .0          | 175.5          | .0         | .0         | 10.2       | 10.2       |
| Noncommercial hardwoods    | 35.1                                     | 17.7           | 5.5            | 1.8            | 1.2            | .4            | .0            | .0            | .5            | .0          | 62.2           | .0         | .0         | 11.9       | 11.9       |
| <b>Total hardwoods</b>     | <b>725.0</b>                             | <b>1,121.8</b> | <b>1,117.2</b> | <b>838.5</b>   | <b>593.0</b>   | <b>387.0</b>  | <b>260.3</b>  | <b>120.5</b>  | <b>196.5</b>  | <b>42.3</b> | <b>5,402.3</b> | <b>2.7</b> | <b>2.7</b> | <b>2.7</b> | <b>2.7</b> |
| <b>Total, all species</b>  | <b>1,265.8</b>                           | <b>1,785.1</b> | <b>1,757.3</b> | <b>1,439.3</b> | <b>1,047.7</b> | <b>720.0</b>  | <b>516.9</b>  | <b>273.4</b>  | <b>443.3</b>  | <b>86.4</b> | <b>9,335.2</b> | <b>1.7</b> | <b>1.7</b> | <b>1.7</b> | <b>1.7</b> |
| SE                         | 3.1                                      | 2.7            | 2.7            | 3.0            | 3.7            | 4.7           | 5.8           | 7.7           | 7.7           | 15.1        | 1.7            |            |            |            |            |

Table 22.--Net volume of live trees on timberland by species and diameter class, New Hampshire, 1997

| Species group              | (In millions of cubic feet)              |                |                |                |                |               |               |               |               |              |                |            | SE         |            |
|----------------------------|--|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|--------------|----------------|------------|------------|------------|
|                            | Diameter class (inches at breast height) |                |                |                |                |               |               |               |               |              |                |            |            |            |
|                            | 5.0-<br>6.9                              | 7.0-<br>8.9    | 9.0-<br>10.9   | 11.0-<br>12.9  | 13.0-<br>14.9  | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0+        | All<br>classes |            |            |            |
| Balsam fir                 | 145.5                                    | 141.7          | 96.1           | 66.1           | 22.1           | 9.4           | 5.0           | .0            | .0            | .0           | .0             | .0         | 485.9      | 9.4        |
| Tamarack                   | 1.2                                      | 1.6            | 2.9            | 1.8            | .0             | 1.2           | .0            | .0            | .0            | .0           | .0             | .0         | 8.7        | 41.4       |
| White spruce               | 1.9                                      | 4.8            | 7.5            | 6.4            | 3.8            | 3.7           | .5            | 2.3           | 4.2           | .0           | .0             | .0         | 35.1       | 44.0       |
| Black spruce               | .1                                       | .0             | .0             | .0             | .0             | .0            | .0            | .0            | .0            | .0           | .0             | .0         | .1         | 100.0      |
| Red spruce                 | 76.7                                     | 114.9          | 101.9          | 101.1          | 59.1           | 28.6          | 17.3          | 6.9           | .0            | .0           | .0             | .0         | 506.5      | 9.6        |
| Red pine                   | 2.9                                      | 3.8            | 8.4            | 6.3            | 15.8           | 2.7           | .0            | .0            | 4.5           | .0           | .0             | .0         | 44.5       | 33.7       |
| White pine                 | 80.5                                     | 141.3          | 183.8          | 233.8          | 275.8          | 245.5         | 157.8         | 163.8         | 326.5         | 131.2        | 1,939.9        | .0         | 5.8        | 58.3       |
| Northern white-cedar       | 1.5                                      | 3.1            | 4.3            | 2.4            | .0             | .8            | 1.9           | .0            | 46.8          | 4.2          | 898.2          | .0         | 8.0        | 8.0        |
| Hemlock                    | 73.4                                     | 116.5          | 144.0          | 155.9          | 133.5          | 102.3         | 70.1          | 51.4          | 2.2           | .0           | 34.6           | .0         | 50.0       | 50.0       |
| Other softwoods            | 5.1                                      | 5.3            | 3.5            | 4.0            | 3.4            | 8.0           | 1.6           | 1.6           | 2.2           | .0           | 34.6           | .0         | 34.6       | 50.0       |
| <b>Total softwoods</b>     | <b>388.7</b>                             | <b>533.1</b>   | <b>552.3</b>   | <b>577.8</b>   | <b>513.5</b>   | <b>402.2</b>  | <b>254.3</b>  | <b>226.0</b>  | <b>384.2</b>  | <b>135.4</b> | <b>3,967.7</b> | <b>3.8</b> | <b>3.8</b> | <b>3.8</b> |
| Sugar maple                | 59.0                                     | 102.1          | 162.2          | 139.2          | 95.1           | 66.3          | 44.8          | 37.9          | 75.2          | 25.9         | 807.6          | 8.9        | 8.9        | 8.9        |
| Red maple                  | 184.9                                    | 306.8          | 312.4          | 219.1          | 155.1          | 82.4          | 66.9          | 32.3          | 50.0          | 2.8          | 1,412.6        | 4.4        | 4.4        | 4.4        |
| Yellow birch               | 47.1                                     | 74.1           | 84.4           | 86.7           | 67.9           | 54.8          | 29.0          | 32.0          | 35.5          | 4.4          | 515.9          | 7.2        | 7.2        | 7.2        |
| Paper birch                | 76.6                                     | 125.5          | 141.5          | 109.3          | 56.6           | 23.0          | 4.3           | 1.0           | .0            | .0           | 537.9          | 6.5        | 6.5        | 6.5        |
| Beech                      | 51.2                                     | 75.2           | 93.6           | 93.6           | 64.9           | 67.1          | 29.6          | 16.7          | 22.2          | .1           | 514.3          | 8.6        | 8.6        | 8.6        |
| White ash                  | 26.2                                     | 36.7           | 44.5           | 54.6           | 48.2           | 20.4          | 13.5          | 14.0          | 9.4           | 15.7         | 283.3          | 12.9       | 12.9       | 12.9       |
| Black ash                  | .9                                       | 2.7            | 2.8            | .0             | .0             | .0            | .0            | .0            | .0            | .0           | 6.4            | 43.1       | 43.1       | 43.1       |
| Aspen                      | 21.9                                     | 47.7           | 57.0           | 48.6           | 48.5           | 18.3          | 4.3           | 7.6           | 3.4           | .0           | 257.3          | 12.1       | 12.1       | 12.1       |
| White oaks                 | 7.5                                      | 10.2           | 12.3           | 14.0           | 12.7           | 3.7           | 7.6           | 3.2           | 2.9           | 4.9          | 79.1           | 15.6       | 15.6       | 15.6       |
| Red oaks                   | 44.1                                     | 100.1          | 142.3          | 168.2          | 149.7          | 80.7          | 74.6          | 41.6          | 50.8          | 21.4         | 873.6          | 6.6        | 6.6        | 6.6        |
| Basswood                   | 2.0                                      | 3.4            | 1.8            | 3.8            | 4.1            | .0            | 5.4           | .0            | .0            | .0           | 20.5           | 32.2       | 32.2       | 32.2       |
| Elm                        | 1.4                                      | 1.9            | 2.3            | .8             | 1.6            | 1.3           | .0            | .0            | .0            | .0           | 9.4            | 36.9       | 36.9       | 36.9       |
| Other commercial hardwoods | 29.8                                     | 48.4           | 42.0           | 30.9           | 29.4           | 10.3          | 6.8           | 3.1           | .0            | .0           | 200.7          | 10.4       | 10.4       | 10.4       |
| Noncommercial hardwoods    | 23.1                                     | 13.7           | 6.4            | 1.9            | 1.3            | .0            | .0            | .0            | .0            | .0           | 46.4           | 11.2       | 11.2       | 11.2       |
| <b>Total hardwoods</b>     | <b>576.0</b>                             | <b>948.4</b>   | <b>1,105.4</b> | <b>970.8</b>   | <b>734.9</b>   | <b>428.4</b>  | <b>286.7</b>  | <b>189.6</b>  | <b>249.5</b>  | <b>75.1</b>  | <b>5,564.9</b> | <b>2.8</b> | <b>2.8</b> | <b>2.8</b> |
| <b>Total, all species</b>  | <b>964.8</b>                             | <b>1,481.5</b> | <b>1,657.7</b> | <b>1,548.6</b> | <b>1,248.5</b> | <b>830.7</b>  | <b>541.0</b>  | <b>415.5</b>  | <b>633.7</b>  | <b>210.5</b> | <b>9,532.5</b> | <b>2.1</b> | <b>2.1</b> | <b>2.1</b> |
| SE                         | 3.1                                      | 2.6            | 2.7            | 3.2            | 3.7            | 4.7           | 6.5           | 8.4           | 8.4           | 17.9         | 2.1            |            |            |            |

Table 23.--Net volume of growing-stock trees on timberland by species and diameter class, New Hampshire, 1983

| Species group             | (In millions of cubic feet)              |                |                |                |               |               |               |               |               |             |                |             | All classes | SE         |      |
|---------------------------|--|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|-------------|----------------|-------------|-------------|------------|------|
|                           | Diameter class (inches at breast height) |                |                |                |               |               |               |               |               |             |                |             |             |            |      |
|                           | 5.0-<br>6.9                              | 7.0-<br>8.9    | 9.0-<br>10.9   | 11.0-<br>12.9  | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0+       |                |             |             |            |      |
| Balsam fir                | 170.5                                    | 182.3          | 139.1          | 81.3           | 25.5          | 6.4           | .9            | .0            | .0            | .0          | .0             | .0          | .0          | 606.1      | 9.5  |
| Tamarack                  | 3.5                                      | 2.6            | 4.1            | 1.3            | .8            | 1.0           | 1.1           | .0            | .0            | .0          | .0             | .0          | .0          | 14.4       | 37.1 |
| White spruce              | 7.6                                      | 9.5            | 5.8            | 11.5           | 3.4           | .0            | .0            | .0            | .0            | .0          | .0             | .0          | .0          | 37.7       | 42.4 |
| Black spruce              | 2.5                                      | 2.6            | .4             | .5             | .8            | .0            | .0            | .0            | .0            | .0          | .0             | .0          | .0          | 6.8        | 69.6 |
| Red spruce                | 128.8                                    | 148.1          | 138.3          | 86.1           | 49.8          | 27.6          | 14.7          | 11.5          | 4.1           | .0          | .0             | .0          | .0          | 608.9      | 9.6  |
| Red pine                  | .5                                       | .9             | 5.4            | 12.9           | 8.9           | 8.5           | 7.9           | 4.6           | .0            | .0          | .0             | .0          | .0          | 49.4       | 38.3 |
| White pine                | 93.0                                     | 167.3          | 219.5          | 263.0          | 241.8         | 208.7         | 168.9         | 101.2         | 196.0         | 27.6        | 1,687.1        | .0          | .0          | 6.8        | 49.7 |
| Northern white-cedar      | 1.2                                      | 2.5            | 2.5            | 1.9            | 1.5           | .8            | .0            | .0            | 1.2           | .0          | 11.6           | .0          | .0          | 602.1      | 8.7  |
| Hemlock                   | 61.5                                     | 90.0           | 93.0           | 112.2          | 93.4          | 58.8          | 43.3          | 23.0          | 26.8          | .0          | 602.1          | .0          | .0          | 8.7        | 47.8 |
| Other softwoods           | 7.9                                      | 6.2            | 4.6            | 4.6            | 6.0           | 2.6           | 3.3           | 2.2           | 1.2           | .0          | 38.7           | .0          | .0          | 4.2        |      |
| <b>Total softwoods</b>    | <b>476.9</b>                             | <b>611.9</b>   | <b>612.8</b>   | <b>575.5</b>   | <b>431.9</b>  | <b>314.4</b>  | <b>240.2</b>  | <b>142.5</b>  | <b>229.3</b>  | <b>27.6</b> | <b>3,662.9</b> | <b>27.6</b> | <b>27.6</b> | <b>4.2</b> |      |
| Sugar maple               | 56.7                                     | 118.3          | 132.1          | 97.4           | 73.3          | 54.7          | 39.9          | 32.4          | 50.4          | 7.5         | 662.6          | 9.8         |             |            |      |
| Red maple                 | 191.7                                    | 289.5          | 278.7          | 173.1          | 103.1         | 58.0          | 37.0          | 15.6          | 20.1          | 1.2         | 1,167.9        | 5.5         |             |            |      |
| Yellow birch              | 47.2                                     | 72.8           | 77.6           | 74.7           | 67.9          | 41.9          | 28.1          | 18.9          | 24.6          | 7.6         | 461.4          | 9.1         |             |            |      |
| Paper birch               | 104.6                                    | 159.9          | 167.4          | 93.1           | 39.9          | 18.7          | 7.2           | 5.5           | 2.9           | .0          | 599.2          | 8.3         |             |            |      |
| Beech                     | 37.0                                     | 61.4           | 74.1           | 68.8           | 69.2          | 47.8          | 30.1          | 8.1           | 8.9           | 1.6         | 406.9          | 10.9        |             |            |      |
| White ash                 | 31.2                                     | 44.5           | 39.5           | 37.8           | 39.0          | 19.6          | 13.5          | .0            | 8.4           | 5.4         | 238.9          | 15.1        |             |            |      |
| Black ash                 | 5.4                                      | 3.5            | 6.0            | 2.9            | 2.0           | .0            | .0            | .0            | .0            | .0          | 19.9           | 45.8        |             |            |      |
| Aspen                     | 42.0                                     | 75.6           | 75.8           | 51.0           | 29.4          | 16.6          | 6.5           | 2.5           | .0            | .0          | 299.4          | 13.7        |             |            |      |
| White oaks                | 7.9                                      | 14.6           | 13.5           | 14.8           | 8.1           | 6.0           | 2.8           | .7            | 1.3           | 3.0         | 72.7           | 17.2        |             |            |      |
| Red oaks                  | 60.4                                     | 131.7          | 135.4          | 128.9          | 91.8          | 67.4          | 48.7          | 15.4          | 30.4          | .0          | 710.1          | 7.4         |             |            |      |
| Basswood                  | 1.8                                      | 5.1            | 3.1            | 3.0            | 1.2           | .7            | 2.7           | .0            | .0            | 1.4         | 19.0           | 30.1        |             |            |      |
| Elm                       | 1.3                                      | 1.1            | 3.0            | 2.6            | 2.2           | 1.2           | 1.5           | .0            | 1.1           | .0          | 14.1           | 25.1        |             |            |      |
| Other hardwoods           | 34.0                                     | 47.2           | 41.7           | 24.7           | 11.0          | 8.5           | 3.0           | 1.1           | 1.3           | .0          | 172.5          | 9.9         |             |            |      |
| <b>Total hardwoods</b>    | <b>621.1</b>                             | <b>1,025.4</b> | <b>1,047.9</b> | <b>772.9</b>   | <b>538.0</b>  | <b>340.9</b>  | <b>221.1</b>  | <b>100.2</b>  | <b>149.3</b>  | <b>27.7</b> | <b>4,844.6</b> | <b>2.9</b>  |             |            |      |
| <b>Total, all species</b> | <b>1,098.0</b>                           | <b>1,637.2</b> | <b>1,660.7</b> | <b>1,348.4</b> | <b>970.0</b>  | <b>655.3</b>  | <b>461.2</b>  | <b>242.7</b>  | <b>378.6</b>  | <b>55.4</b> | <b>8,507.5</b> | <b>1.9</b>  |             |            |      |
| <b>SE</b>                 | <b>3.5</b>                               | <b>2.9</b>     | <b>2.8</b>     | <b>3.1</b>     | <b>3.9</b>    | <b>5.0</b>    | <b>6.3</b>    | <b>8.4</b>    | <b>8.6</b>    | <b>20.2</b> | <b>1.9</b>     |             |             |            |      |

Table 24.--Net volume of growing-stock trees on timberland by species and diameter class, New Hampshire, 1997

| Species group             | (In millions of cubic feet)              |                |                |                |                |              |              |              |              |              |                |              |                | All classes | SE         |
|---------------------------|--|----------------|----------------|----------------|----------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|----------------|-------------|------------|
|                           | Diameter class (inches at breast height) |                |                |                |                |              |              |              |              |              |                |              |                |             |            |
|                           | 5.0-6.9                                  | 7.0-8.9        | 9.0-10.9       | 11.0-12.9      | 13.0-14.9      | 15.0-16.9    | 17.0-18.9    | 19.0-20.9    | 21.0-28.9    | 29.0+        |                |              |                |             |            |
| Balsam fir                | 145.1                                    | 141.7          | 94.5           | 64.3           | 22.1           | 9.4          | 5.0          | .0           | .0           | .0           | .0             | .0           | .0             | 482.2       | 9.4        |
| Tamarack                  | 1.2                                      | 1.5            | 2.4            | 1.8            | .0             | 1.2          | .0           | .0           | .0           | .0           | .0             | .0           | .0             | 8.2         | 43.5       |
| White spruce              | 1.9                                      | 4.8            | 6.9            | 6.1            | 3.8            | 3.7          | .0           | 2.3          | 4.2          | .0           | .0             | .0           | .0             | 33.8        | 43.6       |
| Black spruce              | .1                                       | .0             | .0             | .0             | .0             | .0           | .0           | .0           | .0           | .0           | .0             | .0           | .0             | .1          | 100.0      |
| Red spruce                | 76.5                                     | 114.5          | 99.4           | 100.4          | 56.9           | 28.6         | 17.3         | 6.9          | .0           | .0           | .0             | .0           | .0             | 500.5       | 9.5        |
| Red pine                  | 2.9                                      | 3.8            | 8.1            | 6.3            | 15.8           | 2.7          | .0           | .0           | 4.5          | .0           | .0             | .0           | .0             | 44.2        | 33.7       |
| White pine                | 79.2                                     | 138.7          | 174.7          | 223.5          | 274.4          | 239.5        | 151.9        | 156.1        | 318.6        | 93.8         | 1,850.3        | .0           | .0             | 5.9         | 5.9        |
| Northern white-cedar      | 1.3                                      | 3.1            | 4.1            | 2.1            | .0             | .8           | 1.9          | .0           | .0           | .0           | .0             | .0           | .0             | 13.3        | 59.6       |
| Hemlock                   | 72.4                                     | 114.7          | 126.6          | 144.1          | 125.2          | 88.3         | 64.6         | 46.9         | 45.4         | 4.2          | 832.4          | .0           | .0             | 8.3         | 8.3        |
| Other softwoods           | 5.1                                      | 5.3            | 3.2            | 4.0            | 3.4            | 7.4          | 1.6          | 1.6          | 2.2          | .0           | 33.8           | .0           | .0             | 51.1        | 51.1       |
| <b>Total softwoods</b>    | <b>385.6</b>                             | <b>528.3</b>   | <b>520.0</b>   | <b>552.8</b>   | <b>501.5</b>   | <b>381.6</b> | <b>242.4</b> | <b>213.7</b> | <b>374.9</b> | <b>98.0</b>  | <b>3,798.8</b> | <b>98.0</b>  | <b>3,798.8</b> | <b>3.9</b>  | <b>3.9</b> |
| Sugar maple               | 58.1                                     | 99.2           | 159.8          | 129.7          | 83.3           | 64.4         | 39.5         | 36.6         | 70.1         | 22.2         | 762.9          | .0           | .0             | 8.9         | 8.9        |
| Red maple                 | 180.3                                    | 299.4          | 309.9          | 186.8          | 139.7          | 71.1         | 56.8         | 26.1         | 37.2         | .0           | 1,307.2        | .0           | .0             | 4.4         | 4.4        |
| Yellow birch              | 46.0                                     | 72.6           | 82.6           | 74.6           | 55.2           | 46.9         | 25.9         | 27.7         | 32.1         | 2.1          | 465.5          | .0           | .0             | 7.5         | 7.5        |
| Paper birch               | 75.1                                     | 123.5          | 139.4          | 102.8          | 52.1           | 22.6         | 1.9          | .0           | .0           | .0           | 517.5          | .0           | .0             | 6.6         | 6.6        |
| Beech                     | 49.9                                     | 73.1           | 90.0           | 84.1           | 56.6           | 60.7         | 26.7         | 11.7         | 13.7         | .0           | 466.5          | .0           | .0             | 8.9         | 8.9        |
| White ash                 | 26.0                                     | 36.0           | 44.2           | 53.4           | 46.7           | 19.1         | 13.5         | 13.4         | 8.6          | 15.7         | 276.5          | .0           | .0             | 13.1        | 13.1       |
| Black ash                 | .9                                       | 2.7            | 2.5            | .0             | .0             | .0           | .0           | .0           | .0           | .0           | 6.1            | .0           | .0             | 43.9        | 43.9       |
| Aspen                     | 21.7                                     | 47.3           | 56.6           | 48.6           | 48.5           | 16.9         | 4.3          | 6.9          | 3.4          | .0           | 254.1          | .0           | .0             | 12.2        | 12.2       |
| White oaks                | 7.4                                      | 10.0           | 12.1           | 12.0           | 12.1           | 3.1          | 7.6          | 3.2          | 2.9          | 4.9          | 75.3           | .0           | .0             | 15.9        | 15.9       |
| Red oaks                  | 43.7                                     | 98.9           | 141.9          | 166.2          | 147.0          | 79.9         | 72.8         | 40.8         | 45.3         | 17.4         | 853.8          | .0           | .0             | 6.6         | 6.6        |
| Basswood                  | 1.8                                      | 3.4            | 1.8            | 2.8            | 4.1            | .0           | 5.4          | .0           | .0           | .0           | 19.3           | .0           | .0             | 31.2        | 31.2       |
| Elm                       | 1.3                                      | 1.9            | 2.3            | .8             | 1.6            | 1.3          | .0           | .0           | .0           | .0           | 9.2            | .0           | .0             | 37.2        | 37.2       |
| Other hardwoods           | 29.3                                     | 47.3           | 40.9           | 27.9           | 27.0           | 7.0          | 5.5          | 2.3          | .0           | .0           | 187.2          | .0           | .0             | 10.5        | 10.5       |
| <b>Total hardwoods</b>    | <b>541.5</b>                             | <b>915.2</b>   | <b>1,084.0</b> | <b>889.6</b>   | <b>673.9</b>   | <b>392.8</b> | <b>259.9</b> | <b>168.6</b> | <b>213.4</b> | <b>62.3</b>  | <b>5,201.2</b> | <b>62.3</b>  | <b>5,201.2</b> | <b>2.9</b>  | <b>2.9</b> |
| <b>Total, all species</b> | <b>927.1</b>                             | <b>1,443.5</b> | <b>1,604.0</b> | <b>1,442.4</b> | <b>1,175.5</b> | <b>774.4</b> | <b>502.3</b> | <b>382.4</b> | <b>588.3</b> | <b>160.2</b> | <b>9,000.0</b> | <b>160.2</b> | <b>9,000.0</b> | <b>2.2</b>  | <b>2.2</b> |
| SE                        | 3.2                                      | 2.7            | 2.7            | 3.3            | 3.8            | 4.9          | 6.8          | 8.9          | 8.8          | 20.3         | 2.2            | 20.3         | 2.2            | 2.2         | 2.2        |

Table 25.--Net volume of growing-stock trees on timberland by species and stand-size class, New Hampshire, 1983

(In millions of cubic feet)

| Species group             | Stand-size class |                |                      |             | All classes    | SE         |
|---------------------------|------------------|----------------|----------------------|-------------|----------------|------------|
|                           | Saw-timber       | Pole-timber    | Sapling and seedling | Non-stocked |                |            |
| Balsam fir                | 142.6            | 458.2          | 5.3                  | .0          | 606.1          | 9.5        |
| Tamarack                  | 3.2              | 8.4            | 2.8                  | .0          | 14.4           | 37.1       |
| White spruce              | 2.6              | 35.1           | .0                   | .0          | 37.7           | 42.4       |
| Black spruce              | 4.6              | 1.3            | 1.0                  | .0          | 6.8            | 69.6       |
| Red spruce                | 201.9            | 400.9          | 6.1                  | .0          | 608.9          | 9.6        |
| Red pine                  | 46.1             | 2.5            | .8                   | .0          | 49.4           | 38.3       |
| White pine                | 1,187.3          | 476.9          | 22.9                 | .0          | 1,687.1        | 6.8        |
| Northern white-cedar      | 6.7              | 4.9            | .0                   | .0          | 11.6           | 49.7       |
| Hemlock                   | 430.2            | 171.7          | .2                   | .0          | 602.1          | 8.7        |
| Other softwoods           | 20.4             | 17.1           | 1.2                  | .0          | 38.7           | 47.8       |
| <b>Total softwoods</b>    | <b>2,045.6</b>   | <b>1,577.0</b> | <b>40.2</b>          | <b>.0</b>   | <b>3,662.9</b> | <b>4.2</b> |
| Sugar maple               | 382.6            | 276.0          | 4.0                  | .0          | 662.6          | 9.8        |
| Red maple                 | 468.7            | 694.3          | 4.9                  | .0          | 1,167.9        | 5.5        |
| Yellow birch              | 274.5            | 184.7          | 2.2                  | .0          | 461.4          | 9.1        |
| Paper birch               | 174.4            | 424.4          | .4                   | .0          | 599.2          | 8.3        |
| Beech                     | 307.9            | 98.2           | .8                   | .0          | 406.9          | 10.9       |
| White ash                 | 111.3            | 125.5          | 2.2                  | .0          | 238.9          | 15.1       |
| Black ash                 | 4.5              | 15.4           | .0                   | .0          | 19.9           | 45.8       |
| Aspen                     | 84.2             | 214.2          | 1.0                  | .0          | 299.4          | 13.7       |
| White oaks                | 33.9             | 38.2           | .6                   | .0          | 72.7           | 17.2       |
| Red oaks                  | 320.8            | 385.6          | 3.8                  | .0          | 710.1          | 7.4        |
| Basswood                  | 9.5              | 9.5            | .0                   | .0          | 19.0           | 30.1       |
| Elm                       | 10.1             | 3.9            | .0                   | .0          | 14.1           | 25.1       |
| Other hardwoods           | 74.3             | 91.2           | 7.0                  | .0          | 172.5          | 9.9        |
| <b>Total hardwoods</b>    | <b>2,256.7</b>   | <b>2,561.2</b> | <b>26.7</b>          | <b>.0</b>   | <b>4,844.6</b> | <b>2.9</b> |
| <b>Total, all species</b> | <b>4,302.3</b>   | <b>4,138.2</b> | <b>66.9</b>          | <b>.0</b>   | <b>8,507.5</b> | <b>1.9</b> |
| <b>SE</b>                 | <b>5.1</b>       | <b>4.6</b>     | <b>22.2</b>          | <b>.0</b>   | <b>1.9</b>     |            |

Table 26.--Net volume of growing-stock trees on timberland by species and stand-size class, New Hampshire, 1997

(In millions of cubic feet)

| Species group             | Stand-size class |                |                      |             | All classes    | SE         |
|---------------------------|------------------|----------------|----------------------|-------------|----------------|------------|
|                           | Saw-timber       | Pole-timber    | Sapling and seedling | Non-stocked |                |            |
| Balsam fir                | 151.6            | 310.6          | 20.0                 | .0          | 482.2          | 9.4        |
| Tamarack                  | 5.3              | 2.7            | .1                   | .0          | 8.2            | 43.5       |
| White spruce              | 25.2             | 8.1            | .5                   | .0          | 33.8           | 43.6       |
| Black spruce              | .0               | .0             | .1                   | .0          | .1             | 100.0      |
| Red spruce                | 251.1            | 236.7          | 12.7                 | .0          | 500.5          | 9.5        |
| Red pine                  | 31.2             | 12.5           | .5                   | .0          | 44.2           | 33.7       |
| White pine                | 1,557.6          | 277.7          | 15.0                 | .0          | 1,850.3        | 5.9        |
| Northern white-cedar      | 10.8             | .1             | 2.4                  | .0          | 13.3           | 59.6       |
| Hemlock                   | 634.2            | 194.8          | 3.4                  | .0          | 832.4          | 8.3        |
| Other softwoods           | 20.4             | 12.8           | .6                   | .0          | 33.8           | 51.1       |
| <b>Total softwoods</b>    | <b>2,687.4</b>   | <b>1,056.1</b> | <b>55.3</b>          | <b>.0</b>   | <b>3,798.8</b> | <b>3.9</b> |
| Sugar maple               | 499.6            | 251.3          | 12.0                 | .0          | 762.9          | 8.9        |
| Red maple                 | 761.5            | 524.7          | 21.0                 | .0          | 1,307.2        | 4.4        |
| Yellow birch              | 303.8            | 155.0          | 6.8                  | .0          | 465.5          | 7.5        |
| Paper birch               | 255.0            | 249.2          | 13.4                 | .0          | 517.5          | 6.6        |
| Beech                     | 327.3            | 132.0          | 7.2                  | .0          | 466.5          | 8.9        |
| White ash                 | 170.1            | 99.5           | 6.8                  | .0          | 276.5          | 13.1       |
| Black ash                 | 1.5              | 4.6            | .0                   | .0          | 6.1            | 43.9       |
| Aspen                     | 92.2             | 151.7          | 10.3                 | .0          | 254.1          | 12.2       |
| White oaks                | 51.0             | 24.3           | .0                   | .0          | 75.3           | 15.9       |
| Red oaks                  | 546.8            | 298.8          | 8.2                  | .0          | 853.8          | 6.6        |
| Basswood                  | 12.3             | 7.0            | .0                   | .0          | 19.3           | 31.2       |
| Elm                       | 7.1              | 1.8            | .4                   | .0          | 9.2            | 37.2       |
| Other hardwoods           | 126.7            | 55.1           | 5.3                  | .0          | 187.2          | 10.5       |
| <b>Total hardwoods</b>    | <b>3,155.0</b>   | <b>1,955.0</b> | <b>91.3</b>          | <b>.0</b>   | <b>5,201.2</b> | <b>2.9</b> |
| <b>Total, all species</b> | <b>5,842.4</b>   | <b>3,011.0</b> | <b>146.6</b>         | <b>.0</b>   | <b>9,000.0</b> | <b>2.2</b> |
| SE                        | 4.1              | 5.5            | 17.5                 | .0          | 2.2            |            |

Table 27.--Net volume of growing-stock trees on timberland by forest type and stand-size class, New Hampshire, 1997

(In millions of cubic feet)

| Forest type                    | Stand-size class |             |                      |             | All classes | SE    |
|--------------------------------|------------------|-------------|----------------------|-------------|-------------|-------|
|                                | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |       |
| Red pine                       | 11.3             | 4.8         | .0                   | .0          | 16.1        | 76.3  |
| White pine                     | 925.6            | 76.9        | 6.2                  | .0          | 1,008.8     | 11.7  |
| White pine/hemlock             | 473.2            | 73.6        | .0                   | .0          | 546.7       | 17.7  |
| Hemlock                        | 354.7            | 75.3        | .0                   | .0          | 430.0       | 20.7  |
| White/red pine group           | 1,764.8          | 230.6       | 6.2                  | .0          | 2,001.5     | 8.0   |
| Balsam fir                     | 48.9             | 229.7       | 24.1                 | .0          | 302.7       | 20.1  |
| Red spruce                     | 50.0             | 73.9        | 4.6                  | .0          | 128.5       | 32.6  |
| Red spruce/balsam fir          | 73.2             | 184.4       | .1                   | .0          | 257.7       | 24.4  |
| White spruce                   | 30.5             | .0          | .0                   | .0          | 30.5        | 76.4  |
| Spruce/fir group               | 202.7            | 488.0       | 28.8                 | .0          | 719.4       | 13.2  |
| Pitch pine                     | 22.9             | 11.8        | .0                   | .0          | 34.7        | 57.9  |
| Loblolly/shortleaf group       | 22.9             | 11.8        | .0                   | .0          | 34.7        | 57.9  |
| Wh. pine/no.red oak/wh. ash    | 503.1            | 65.8        | .0                   | .0          | 568.8       | 17.8  |
| Other oak/pine                 | 7.6              | .0          | .0                   | .0          | 7.6         | 100.0 |
| Oak/pine group                 | 510.6            | 65.8        | .0                   | .0          | 576.4       | 17.6  |
| Post, black, or bear oak       | 9.9              | .0          | .9                   | .0          | 10.9        | 92.0  |
| White oak/red oak/hickory      | 140.4            | 26.8        | .0                   | .0          | 167.2       | 29.8  |
| White oak                      | .0               | 2.5         | .0                   | .0          | 2.5         | 100.0 |
| Northern red oak               | 260.1            | 135.0       | .0                   | .0          | 395.1       | 18.9  |
| Red maple/central hardwood     | 30.8             | 21.9        | .0                   | .0          | 52.6        | 49.2  |
| Mixed central hardwoods        | 292.6            | 254.2       | 7.5                  | .0          | 554.4       | 14.2  |
| Oak/hickory group              | 733.8            | 440.4       | 8.5                  | .0          | 1,182.7     | 9.8   |
| Black ash/Amer. elm/red maple  | 14.2             | .7          | 2.2                  | .0          | 17.1        | 60.4  |
| Red maple(lowland)             | 15.5             | 16.5        | .0                   | .0          | 31.9        | 43.6  |
| Red maple(upland)              | 15.6             | 12.9        | .0                   | .0          | 28.4        | 50.6  |
| Elm/ash/red maple group        | 45.2             | 30.0        | 2.2                  | .0          | 77.4        | 29.1  |
| Sugar maple/beech/yellow birch | 1,550.3          | 769.7       | 26.9                 | .0          | 2,346.9     | 6.9   |
| Black Cherry                   | 14.8             | 2.3         | 2.3                  | .0          | 19.4        | 72.7  |
| Red maple/northern hardwoods   | 502.2            | 548.7       | 28.9                 | .0          | 1,079.8     | 10.5  |
| Mixed northern hardwoods       | 337.2            | 238.0       | 28.2                 | .0          | 603.3       | 15.0  |
| Northern hardwoods group       | 2,404.4          | 1,558.7     | 86.3                 | .0          | 4,049.4     | 4.7   |
| Aspen                          | 57.4             | 81.9        | 6.2                  | .0          | 145.5       | 29.9  |
| Paper birch                    | 100.5            | 104.0       | 7.1                  | .0          | 211.5       | 24.5  |
| Gray birch                     | .0               | .0          | 1.4                  | .0          | 1.4         | 72.2  |
| Aspen/birch group              | 157.9            | 185.9       | 14.7                 | .0          | 358.4       | 18.5  |
| All forest types               | 5,842.4          | 3,011.0     | 146.6                | .0          | 9,000.0     | 2.2   |
| SE                             | 4.1              | 5.5         | 17.5                 | .0          | 2.2         |       |



Percent of growing-stock volume by forest-type group  
New Hampshire, 1997

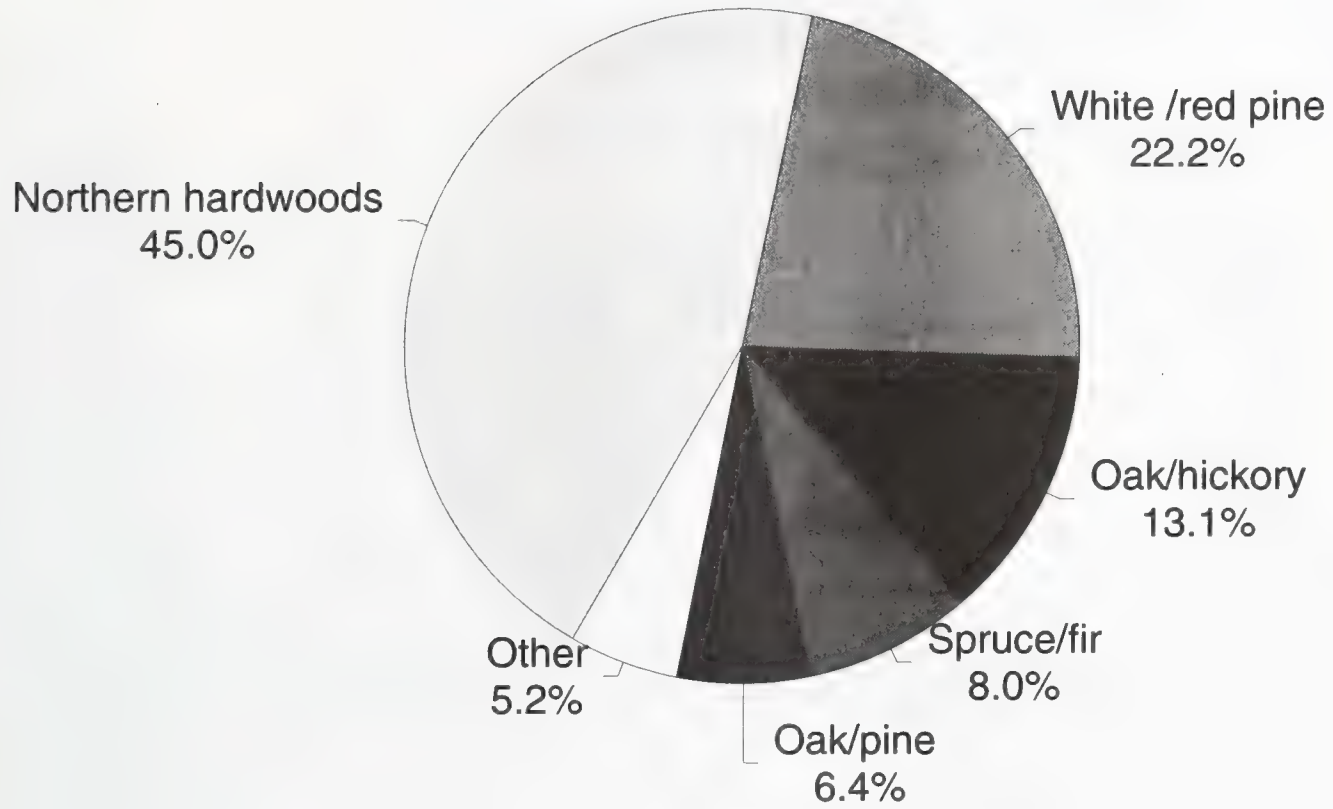


Table 28.--Net volume of growing-stock trees on timberland by species and forest-type group, New Hampshire, 1983  
(In millions of cubic feet)

| Species group             | Forest-type group |              |                    |              |              |                 |                   |                    |              |  |  | Total          | SE         |
|---------------------------|-------------------|--------------|--------------------|--------------|--------------|-----------------|-------------------|--------------------|--------------|--|--|----------------|------------|
|                           | White/red pine    | Spruce/fir   | Loblolly/shortleaf | Oak/pine     | Oak/hickory  | Oak/gum/cypress | Elm/ash/red maple | Northern hardwoods | Aspen/birch  |  |  |                |            |
| Balsam fir                | 7.2               | 338.6        | .0                 | .5           | 2.6          | .0              | 1.5               | 155.8              | 99.8         |  |  | 606.1          | 9.5        |
| Tamarack                  | .0                | 12.1         | .0                 | .0           | 1.3          | .0              | .0                | .6                 | .5           |  |  | 14.4           | 37.1       |
| White spruce              | .0                | 29.5         | .0                 | .9           | .0           | .0              | .0                | 2.4                | 5.0          |  |  | 37.7           | 42.4       |
| Black spruce              | 4.6               | 1.8          | .0                 | .0           | .0           | .0              | .0                | .5                 | .0           |  |  | 6.8            | 69.6       |
| Red spruce                | 41.0              | 264.9        | .0                 | 3.6          | 5.3          | .0              | .0                | 221.4              | 72.7         |  |  | 608.9          | 9.6        |
| Red pine                  | 41.0              | .0           | .0                 | 4.5          | 1.3          | .0              | .0                | 2.6                | .0           |  |  | 49.4           | 38.3       |
| White pine                | 953.7             | 30.8         | 1.9                | 175.1        | 138.4        | .0              | 3.7               | 332.1              | 51.4         |  |  | 1,687.1        | 6.8        |
| Northern white-cedar      | .0                | 6.0          | .0                 | .0           | .0           | .0              | .0                | 1.2                | 4.4          |  |  | 11.6           | 49.7       |
| Hemlock                   | 246.9             | 9.8          | .0                 | 24.6         | 49.6         | .0              | .3                | 256.8              | 14.1         |  |  | 602.1          | 8.7        |
| Other softwoods           | 7.7               | .0           | 25.7               | 2.7          | 2.6          | .0              | .0                | .0                 | .0           |  |  | 38.7           | 47.8       |
| <b>Total softwoods</b>    | <b>1,302.0</b>    | <b>693.4</b> | <b>27.6</b>        | <b>212.0</b> | <b>201.1</b> | <b>.0</b>       | <b>5.5</b>        | <b>973.4</b>       | <b>247.9</b> |  |  | <b>3,662.9</b> | <b>4.2</b> |
| Sugar maple               | 10.9              | 3.9          | .0                 | 2.2          | 8.8          | .0              | .0                | 622.3              | 14.6         |  |  | 662.6          | 9.8        |
| Red maple                 | 119.6             | 24.7         | 1.5                | 42.0         | 96.0         | .0              | 29.2              | 786.5              | 68.4         |  |  | 1,167.9        | 5.5        |
| Yellow birch              | 4.9               | 17.4         | .0                 | .3           | 4.3          | .0              | .4                | 402.8              | 31.3         |  |  | 461.4          | 9.1        |
| Paper birch               | 36.7              | 49.3         | .0                 | 12.8         | 24.1         | .0              | .0                | 244.7              | 231.6        |  |  | 599.2          | 8.3        |
| Beech                     | 5.2               | .0           | .0                 | 2.0          | 13.1         | .0              | .0                | 384.6              | 2.1          |  |  | 406.9          | 10.9       |
| White ash                 | 17.9              | 1.1          | .0                 | 9.7          | 8.2          | .0              | .0                | 195.5              | 6.6          |  |  | 238.9          | 15.1       |
| Black ash                 | .6                | 5.9          | .0                 | .0           | .6           | .0              | .0                | 12.2               | .6           |  |  | 19.9           | 45.8       |
| Aspen                     | 29.2              | 15.4         | .0                 | 5.5          | 18.3         | .0              | .0                | 79.2               | 151.8        |  |  | 299.4          | 13.7       |
| White oaks                | 12.3              | .0           | .0                 | 6.1          | 45.3         | .0              | .0                | 8.6                | .4           |  |  | 72.7           | 17.2       |
| Red oaks                  | 67.6              | 1.6          | .0                 | 46.6         | 397.6        | .0              | .0                | 180.9              | 15.9         |  |  | 710.1          | 7.4        |
| Basswood                  | 1.9               | .0           | .0                 | .0           | .5           | .0              | .0                | 16.6               | .0           |  |  | 19.0           | 30.1       |
| Elm                       | 5.1               | .0           | .0                 | .4           | 3.1          | .0              | .0                | 5.2                | .2           |  |  | 14.1           | 25.1       |
| Other hardwoods           | 24.0              | 2.6          | .0                 | 1.6          | 34.5         | .0              | 7.0               | 94.3               | 8.4          |  |  | 172.5          | 9.9        |
| <b>Total hardwoods</b>    | <b>335.7</b>      | <b>121.9</b> | <b>1.5</b>         | <b>129.3</b> | <b>654.4</b> | <b>.0</b>       | <b>36.7</b>       | <b>3,033.2</b>     | <b>532.0</b> |  |  | <b>4,844.6</b> | <b>2.9</b> |
| <b>Total, all species</b> | <b>1,637.7</b>    | <b>815.3</b> | <b>29.1</b>        | <b>341.2</b> | <b>855.5</b> | <b>.0</b>       | <b>42.1</b>       | <b>4,006.6</b>     | <b>779.9</b> |  |  | <b>8,507.5</b> | <b>1.9</b> |
| SE                        | 9.8               | 14.0         | 70.5               | 22.0         | 11.6         | .0              | 42.5              | 5.0                | 14.6         |  |  | 1.9            |            |

Table 29.--Net volume of growing-stock trees on timberland by species and forest-type group, New Hampshire, 1997  
(In millions of cubic feet)

| Species group             | Forest-type group |              |                    |              |                |                 |                   |                    |              |  |  | Total          | SE         |
|---------------------------|-------------------|--------------|--------------------|--------------|----------------|-----------------|-------------------|--------------------|--------------|--|--|----------------|------------|
|                           | White/red pine    | Spruce/fir   | Loblolly/shortleaf | Oak/pine     | Oak/hickory    | Oak/gum/cypress | Elm/ash/red maple | Northern hardwoods | Aspen/birch  |  |  |                |            |
| Balsam fir                | 16.3              | 287.7        | .0                 | 4.6          | 2.6            | .0              | .6                | 132.4              | 38.1         |  |  | 482.2          | 9.4        |
| Tamarack                  | 4.0               | 2.7          | .0                 | .8           | .0             | .0              | .0                | .8                 | .0           |  |  | 8.2            | 43.5       |
| White spruce              | .4                | 22.6         | .0                 | .0           | .2             | .0              | .0                | 2.2                | 8.4          |  |  | 33.8           | 43.6       |
| Black spruce              | .0                | .0           | .0                 | .0           | .0             | .0              | .0                | .0                 | .1           |  |  | .1             | 100.0      |
| Red spruce                | 44.5              | 221.4        | .0                 | .8           | 11.6           | .0              | .0                | 191.9              | 30.3         |  |  | 500.5          | 9.5        |
| Red pine                  | 27.0              | .0           | .0                 | .5           | 7.9            | .0              | .0                | 8.3                | .5           |  |  | 44.2           | 33.7       |
| White pine                | 982.1             | 36.6         | 2.1                | 314.5        | 174.2          | .0              | 9.5               | 301.4              | 30.0         |  |  | 1,850.3        | 5.9        |
| Northern white-cedar      | .6                | 9.9          | .0                 | .0           | .0             | .0              | .0                | 2.5                | .4           |  |  | 13.3           | 59.6       |
| Hemlock                   | 433.8             | 11.7         | .0                 | 49.2         | 55.6           | .0              | 2.9               | 264.6              | 14.7         |  |  | 832.4          | 8.3        |
| Other softwoods           | 1.4               | .0           | 30.1               | .5           | 1.2            | .0              | .0                | .6                 | .0           |  |  | 33.8           | 51.1       |
| <b>Total softwoods</b>    | <b>1,510.1</b>    | <b>592.6</b> | <b>32.1</b>        | <b>370.8</b> | <b>253.2</b>   | <b>.0</b>       | <b>12.9</b>       | <b>904.6</b>       | <b>122.5</b> |  |  | <b>3,798.8</b> | <b>3.9</b> |
| Sugar maple               | 11.3              | 1.1          | .0                 | 1.5          | 13.8           | .0              | 1.0               | 750.4              | 3.9          |  |  | 762.9          | 8.9        |
| Red maple                 | 177.5             | 38.3         | 2.4                | 69.4         | 184.2          | .0              | 57.3              | 750.4              | 27.8         |  |  | 1,307.2        | 4.4        |
| Yellow birch              | 18.1              | 15.0         | .0                 | 2.6          | 8.4            | .0              | .1                | 397.3              | 24.0         |  |  | 465.5          | 7.5        |
| Paper birch               | 49.5              | 48.6         | .0                 | 14.1         | 42.1           | .0              | .1                | 266.7              | 96.4         |  |  | 517.5          | 6.6        |
| Beech                     | 28.5              | .0           | .0                 | 2.5          | 50.6           | .0              | .0                | 383.8              | 1.0          |  |  | 466.5          | 8.9        |
| White ash                 | 23.2              | .0           | .0                 | 16.8         | 21.2           | .0              | .0                | 213.9              | 1.4          |  |  | 276.5          | 13.1       |
| Black ash                 | .2                | 3.8          | .0                 | .0           | .0             | .0              | .0                | 1.5                | .7           |  |  | 6.1            | 43.9       |
| Aspen                     | 41.3              | 17.6         | .0                 | 9.0          | 11.4           | .0              | .4                | 107.9              | 66.6         |  |  | 254.1          | 12.2       |
| White oaks                | 12.9              | .0           | .0                 | 3.7          | 54.8           | .0              | .0                | 2.8                | 1.1          |  |  | 75.3           | 15.9       |
| Red oaks                  | 97.3              | 1.3          | .2                 | 77.8         | 503.6          | .0              | .5                | 166.7              | 6.3          |  |  | 853.8          | 6.6        |
| Basswood                  | 1.2               | .0           | .0                 | .0           | 1.5            | .0              | .0                | 15.7               | .9           |  |  | 19.3           | 31.2       |
| Elm                       | 6.4               | .1           | .0                 | .5           | .2             | .0              | .7                | 1.2                | .1           |  |  | 9.2            | 37.2       |
| Other hardwoods           | 24.0              | 1.0          | .0                 | 7.7          | 37.8           | .0              | 4.5               | 106.4              | 5.9          |  |  | 187.2          | 10.5       |
| <b>Total hardwoods</b>    | <b>491.5</b>      | <b>126.8</b> | <b>2.5</b>         | <b>205.6</b> | <b>929.5</b>   | <b>.0</b>       | <b>64.6</b>       | <b>3,144.8</b>     | <b>235.9</b> |  |  | <b>5,201.2</b> | <b>2.9</b> |
| <b>Total, all species</b> | <b>2,001.5</b>    | <b>719.4</b> | <b>34.7</b>        | <b>576.4</b> | <b>1,182.7</b> | <b>.0</b>       | <b>77.4</b>       | <b>4,049.4</b>     | <b>358.4</b> |  |  | <b>9,000.0</b> | <b>2.2</b> |
| SE                        | 8.0               | 13.2         | 57.9               | 17.6         | 9.8            | .0              | 29.1              | 4.7                | 18.5         |  |  | 2.2            |            |

Table 30.--Net volume of growing-stock in the sawlog portion of sawtimber trees on timberland by species and diameter class, New Hampshire, 1997

| Species group        | (In millions of cubic feet)              |               |               |               |               |               |               |       |    |    | All classes | SE   |
|----------------------|--|---------------|---------------|---------------|---------------|---------------|---------------|-------|----|----|-------------|------|
|                      | Diameter class (inches at breast height) |               |               |               |               |               |               |       |    |    |             |      |
|                      | 9.0-<br>10.9                             | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0+ |    |    |             |      |
| Balsam fir           | 79.5                                     | 56.0          | 19.7          | 8.5           | 4.6           | .0            | .0            | .0    | .0 | .0 | 168.4       | 10.6 |
| Tamarack             | 2.1                                      | 1.6           | .0            | 1.1           | .0            | .0            | .0            | .0    | .0 | .0 | 4.7         | 50.5 |
| White spruce         | 5.8                                      | 5.3           | 3.4           | 3.4           | .0            | 2.2           | 3.9           | .0    | .0 | .0 | 24.0        | 47.1 |
| Red spruce           | 83.6                                     | 87.3          | 50.9          | 26.0          | 16.0          | 6.4           | .0            | .0    | .0 | .0 | 270.2       | 10.9 |
| Red pine             | 6.8                                      | 5.5           | 14.2          | 2.5           | .0            | .0            | 4.2           | .0    | .0 | .0 | 33.2        | 37.0 |
| White pine           | 146.9                                    | 194.4         | 245.3         | 217.9         | 140.1         | 145.2         | 297.9         | 87.7  | .0 | .0 | 1,475.5     | 6.2  |
| Northern white-cedar | 3.4                                      | 1.8           | .0            | .8            | 1.7           | .0            | .0            | .0    | .0 | .0 | 7.7         | 54.8 |
| Hemlock              | 106.5                                    | 125.4         | 111.9         | 80.3          | 59.6          | 43.6          | 42.4          | 3.9   | .0 | .0 | 573.7       | 9.3  |
| Other softwoods      | 2.7                                      | 3.5           | 3.0           | 6.7           | 1.5           | 1.5           | 2.1           | .0    | .0 | .0 | 21.0        | 57.4 |
| Total softwoods      | 437.4                                    | 481.0         | 448.4         | 347.2         | 223.6         | 198.8         | 350.6         | 91.6  | .0 | .0 | 2,578.5     | 4.4  |
| Sugar maple          | .0                                       | 95.4          | 67.5          | 54.1          | 33.5          | 31.1          | 59.6          | 18.9  | .0 | .0 | 360.2       | 10.9 |
| Red maple            | .0                                       | 137.4         | 113.2         | 59.7          | 48.3          | 22.2          | 31.7          | .0    | .0 | .0 | 412.4       | 7.4  |
| Yellow birch         | .0                                       | 54.9          | 44.7          | 39.4          | 22.0          | 23.5          | 27.2          | 1.8   | .0 | .0 | 213.5       | 9.9  |
| Paper birch          | .0                                       | 75.7          | 42.2          | 19.0          | 1.6           | .0            | .0            | .0    | .0 | .0 | 138.5       | 11.3 |
| Beech                | .0                                       | 61.9          | 45.9          | 51.0          | 22.7          | 10.0          | 11.7          | .0    | .0 | .0 | 203.0       | 11.6 |
| White ash            | .0                                       | 39.3          | 37.8          | 16.0          | 11.4          | 11.4          | 7.3           | 13.3  | .0 | .0 | 136.6       | 19.4 |
| Aspen                | .0                                       | 35.7          | 39.2          | 14.2          | 3.7           | 5.8           | 2.9           | .0    | .0 | .0 | 101.6       | 18.1 |
| White oaks           | .0                                       | 8.9           | 9.8           | 2.6           | 6.5           | 2.7           | 2.5           | 4.1   | .0 | .0 | 37.0        | 22.0 |
| Red oaks             | .0                                       | 122.3         | 119.1         | 67.1          | 61.9          | 34.7          | 38.5          | 14.8  | .0 | .0 | 458.3       | 7.9  |
| Basswood             | .0                                       | 2.0           | 3.4           | .0            | 4.6           | .0            | .0            | .0    | .0 | .0 | 10.0        | 44.5 |
| Elm                  | .0                                       | .6            | 1.3           | 1.1           | .0            | .0            | .0            | .0    | .0 | .0 | 3.0         | 62.2 |
| Other hardwoods      | .0                                       | 20.5          | 21.9          | 5.9           | 4.7           | 2.0           | .0            | .0    | .0 | .0 | 55.0        | 19.3 |
| Total hardwoods      | .0                                       | 654.7         | 545.9         | 330.0         | 220.9         | 143.3         | 181.4         | 52.9  | .0 | .0 | 2,129.1     | 4.3  |
| Total, all species   | 437.4                                    | 1,135.7       | 994.3         | 677.2         | 444.5         | 342.1         | 531.9         | 144.5 | .0 | .0 | 4,707.6     | 3.0  |
| SE                   | 5.1                                      | 3.3           | 3.8           | 4.9           | 6.8           | 8.9           | 8.9           | 20.1  | .0 | .0 | 3.0         |      |

# Sawtimber volume on timberland, for selected species and percent change, New Hampshire, 1983 and 1997

(Volume increased by 18.8 percent for all species)

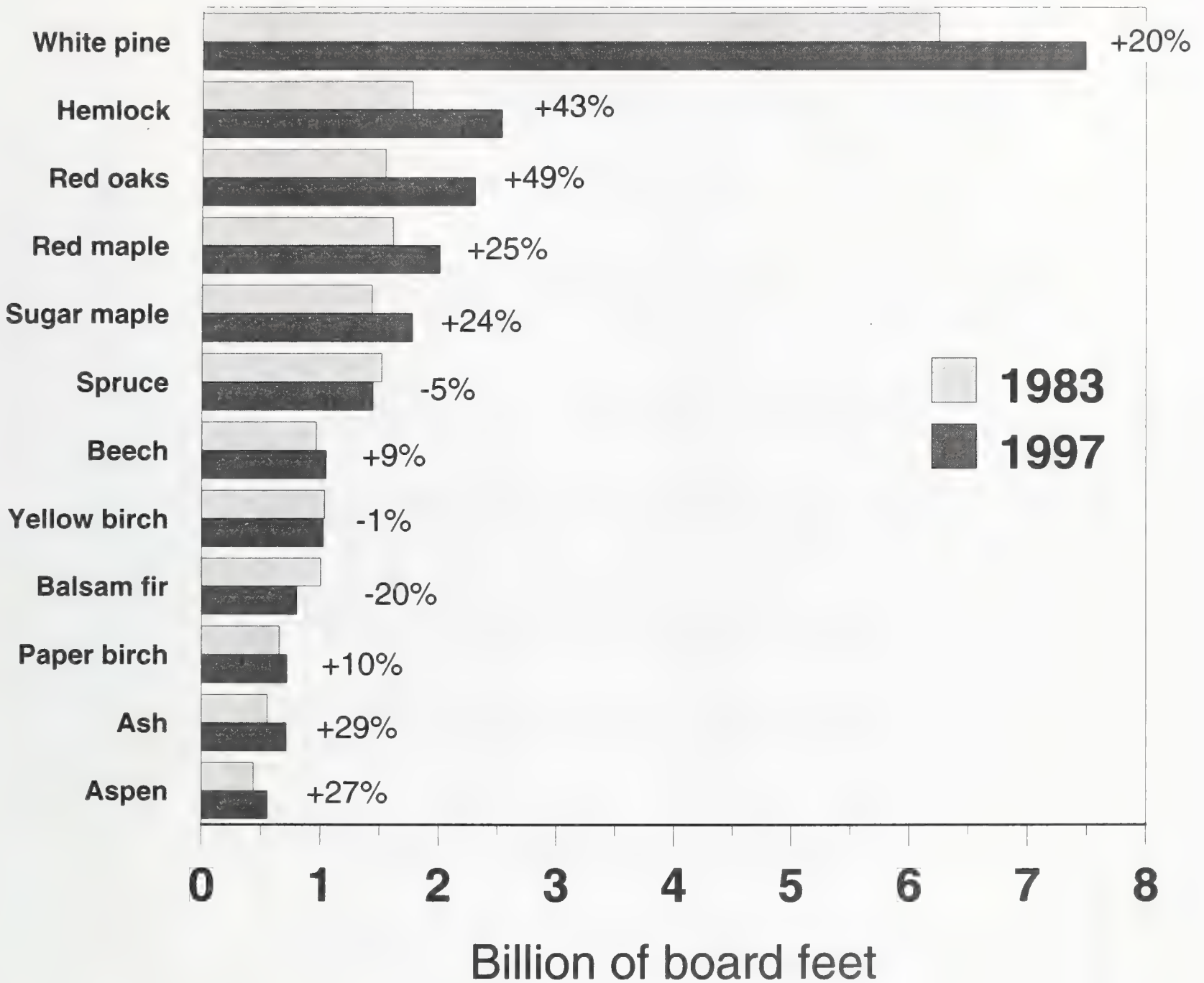


Table 31.--Net volume of sawtimber trees on timberland by species and diameter class, New Hampshire, 1983

| Species group             | (In millions of board feet)              |                |                |                |                |                |                |              |                 |            | All classes | SE    |
|---------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|--------------|-----------------|------------|-------------|-------|
|                           | Diameter class (inches at breast height) |                |                |                |                |                |                |              |                 |            |             |       |
|                           | 9.0-<br>10.9                             | 11.0-<br>12.9  | 13.0-<br>14.9  | 15.0-<br>16.9  | 17.0-<br>18.9  | 19.0-<br>20.9  | 21.0-<br>28.9  | 29.0+        |                 |            |             |       |
| Balsam fir                | 518.6                                    | 336.0          | 114.9          | 31.0           | 4.8            | .0             | .0             | .0           | .0              | .0         | 1,005.3     | 11.8  |
| Tamarack                  | 14.1                                     | 4.9            | 3.5            | 4.2            | 5.1            | .0             | .0             | .0           | .0              | .0         | 31.7        | 35.2  |
| White spruce              | 21.8                                     | 50.0           | 15.5           | .0             | .0             | .0             | .0             | .0           | .0              | .0         | 87.3        | 44.8  |
| Black spruce              | 1.5                                      | 2.3            | 3.9            | .0             | .0             | .0             | .0             | .0           | .0              | .0         | 7.7         | 100.0 |
| Red spruce                | 516.0                                    | 373.0          | 232.0          | 142.6          | 78.8           | 59.0           | 21.5           | .0           | .0              | .0         | 1,422.9     | 11.6  |
| Red pine                  | 17.6                                     | 51.3           | 38.8           | 40.2           | 38.9           | 23.2           | .0             | .0           | .0              | .0         | 210.0       | 40.2  |
| White pine                | 722.6                                    | 1,042.5        | 1,058.8        | 977.6          | 807.6          | 497.3          | 1,007.9        | 142.8        | .0              | .0         | 6,257.1     | 7.2   |
| Northern white-cedar      | 5.2                                      | 5.7            | 5.5            | 2.5            | .0             | .0             | 5.2            | .0           | .0              | .0         | 24.0        | 61.7  |
| Hemlock                   | 300.2                                    | 420.6          | 371.8          | 254.2          | 193.6          | 106.6          | 128.3          | .0           | .0              | .0         | 1,775.2     | 9.5   |
| Other softwoods           | 15.8                                     | 17.0           | 23.7           | 11.3           | 15.2           | 10.1           | 5.8            | .0           | .0              | .0         | 99.0        | 64.3  |
| <b>Total softwoods</b>    | <b>2,133.2</b>                           | <b>2,303.2</b> | <b>1,868.4</b> | <b>1,463.5</b> | <b>1,144.0</b> | <b>696.2</b>   | <b>1,168.8</b> | <b>142.8</b> | <b>10,920.0</b> | <b>4.8</b> |             |       |
| Sugar maple               | .0                                       | 357.2          | 292.0          | 224.4          | 163.8          | 139.6          | 223.7          | 33.5         | 1,434.3         | 12.1       |             |       |
| Red maple                 | .0                                       | 644.4          | 405.8          | 239.7          | 158.3          | 68.8           | 85.9           | 9.1          | 1,612.0         | 8.2        |             |       |
| Yellow birch              | .0                                       | 288.2          | 258.2          | 172.5          | 107.5          | 74.7           | 104.0          | 31.9         | 1,037.1         | 10.5       |             |       |
| Paper birch               | .0                                       | 364.3          | 152.8          | 77.8           | 28.2           | 21.8           | 12.0           | .0           | 657.0           | 12.6       |             |       |
| Beech                     | .0                                       | 259.8          | 291.3          | 193.0          | 139.9          | 40.2           | 35.4           | 7.6          | 967.2           | 12.5       |             |       |
| White ash                 | .0                                       | 150.0          | 165.7          | 86.9           | 64.3           | .0             | 35.9           | 33.1         | 535.9           | 20.3       |             |       |
| Black ash                 | .0                                       | 11.7           | 9.0            | .0             | .0             | .0             | .0             | .0           | 20.6            | 76.4       |             |       |
| Aspen                     | .0                                       | 198.8          | 123.6          | 72.6           | 31.2           | 12.0           | .0             | .0           | 438.3           | 19.5       |             |       |
| White oaks                | .0                                       | 56.6           | 31.9           | 30.5           | 11.8           | 3.3            | 7.2            | 15.6         | 156.9           | 21.2       |             |       |
| Red oaks                  | .0                                       | 479.2          | 367.0          | 271.8          | 211.5          | 70.4           | 147.2          | .0           | 547.2           | 8.2        |             |       |
| Basswood                  | .0                                       | 9.4            | 5.8            | 2.9            | 12.4           | .0             | .0             | 6.4          | 36.9            | 44.7       |             |       |
| Elm                       | .0                                       | 10.3           | 8.7            | 6.6            | 6.0            | .0             | 5.5            | .0           | 37.2            | 30.8       |             |       |
| Other hardwoods           | .0                                       | 92.7           | 41.6           | 36.2           | 12.4           | 5.0            | 6.9            | .0           | 194.9           | 17.0       |             |       |
| <b>Total hardwoods</b>    | <b>.0</b>                                | <b>2,922.6</b> | <b>2,153.5</b> | <b>1,415.1</b> | <b>947.4</b>   | <b>435.9</b>   | <b>663.8</b>   | <b>137.3</b> | <b>8,675.6</b>  | <b>4.5</b> |             |       |
| <b>Total, all species</b> | <b>2,133.2</b>                           | <b>5,225.8</b> | <b>4,021.9</b> | <b>2,878.5</b> | <b>2,091.4</b> | <b>1,132.1</b> | <b>1,832.6</b> | <b>280.1</b> | <b>19,595.7</b> | <b>2.9</b> |             |       |
| <b>SE</b>                 | <b>5.6</b>                               | <b>3.2</b>     | <b>3.9</b>     | <b>5.1</b>     | <b>6.4</b>     | <b>8.4</b>     | <b>8.9</b>     | <b>20.5</b>  | <b>2.9</b>      |            |             |       |

Table 32.--Net volume of sawtimber trees on timberland by species and diameter class, New Hampshire, 1997

| Species group             | (In millions of board feet)              |                |                |                |                |                |                |              |                 |    | All classes | SE         |
|---------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|--------------|-----------------|----|-------------|------------|
|                           | Diameter class (inches at breast height) |                |                |                |                |                |                |              |                 |    |             |            |
|                           | 9.0-<br>10.9                             | 11.0-<br>12.9  | 13.0-<br>14.9  | 15.0-<br>16.9  | 17.0-<br>18.9  | 19.0-<br>20.9  | 21.0-<br>28.9  | 29.0+        |                 |    |             |            |
| Balsam fir                | 358.1                                    | 276.2          | 97.9           | 46.3           | 24.4           | .0             | .0             | .0           | .0              | .0 | 802.9       | 10.8       |
| Tamarack                  | 8.4                                      | 6.4            | .0             | 5.0            | .0             | .0             | .0             | .0           | .0              | .0 | 19.8        | 51.6       |
| White spruce              | 21.2                                     | 24.5           | 16.8           | 18.7           | .0             | 11.9           | 17.6           | .0           | 110.7           | .0 | 110.7       | 44.5       |
| Red spruce                | 373.6                                    | 439.4          | 264.3          | 139.8          | 82.1           | 34.5           | .0             | .0           | 1,333.6         | .0 | 1,333.6     | 11.3       |
| Red pine                  | 27.2                                     | 26.0           | 77.0           | 13.8           | .0             | .0             | 24.9           | .0           | 168.9           | .0 | 168.9       | 39.2       |
| White pine                | 595.1                                    | 906.3          | 1,218.9        | 1,135.1        | 730.9          | 778.1          | 1,648.5        | 481.4        | 7,494.3         | .0 | 7,494.3     | 6.4        |
| Northern white-cedar      | 10.2                                     | 7.7            | .0             | 2.8            | 5.3            | .0             | .0             | .0           | 26.0            | .0 | 26.0        | 54.1       |
| Hemlock                   | 399.0                                    | 528.0          | 492.1          | 372.4          | 287.0          | 216.6          | 218.4          | 20.3         | 2,534.0         | .0 | 2,534.0     | 9.7        |
| Other softwoods           | 10.6                                     | 15.5           | 14.0           | 32.4           | 7.9            | 7.5            | 10.7           | .0           | 98.6            | .0 | 98.6        | 60.1       |
| <b>Total softwoods</b>    | <b>1,803.4</b>                           | <b>2,230.2</b> | <b>2,181.0</b> | <b>1,766.3</b> | <b>1,137.7</b> | <b>1,048.6</b> | <b>1,920.1</b> | <b>501.7</b> | <b>12,589.0</b> |    |             | <b>4.6</b> |
| Sugar maple               | .0                                       | 468.8          | 326.9          | 259.4          | 158.6          | 152.4          | 311.5          | 99.1         | 1,776.7         | .0 | 1,776.7     | 11.1       |
| Red maple                 | .0                                       | 684.5          | 543.6          | 285.9          | 229.8          | 111.9          | 152.1          | .0           | 2,007.7         | .0 | 2,007.7     | 7.6        |
| Yellow birch              | .0                                       | 281.7          | 201.8          | 178.0          | 106.8          | 113.5          | 135.8          | 8.3          | 1,025.8         | .0 | 1,025.8     | 10.1       |
| Paper birch               | .0                                       | 406.1          | 213.1          | 94.0           | 7.2            | .0             | .0             | .0           | 720.4           | .0 | 720.4       | 11.2       |
| Beech                     | .0                                       | 324.3          | 227.8          | 255.4          | 125.2          | 57.8           | 59.3           | .0           | 1,049.8         | .0 | 1,049.8     | 12.0       |
| White ash                 | .0                                       | 204.6          | 195.3          | 75.3           | 61.5           | 60.6           | 38.2           | 80.4         | 716.0           | .0 | 716.0       | 20.3       |
| Aspen                     | .0                                       | 197.9          | 210.4          | 76.5           | 22.3           | 33.4           | 15.7           | .0           | 556.4           | .0 | 556.4       | 19.3       |
| White oaks                | .0                                       | 45.2           | 46.1           | 12.9           | 28.1           | 16.4           | 15.6           | 30.3         | 194.7           | .0 | 194.7       | 24.7       |
| Red oaks                  | .0                                       | 614.9          | 587.9          | 331.3          | 305.5          | 185.9          | 206.6          | 74.1         | 2,306.3         | .0 | 2,306.3     | 7.9        |
| Basswood                  | .0                                       | 8.1            | 17.5           | .0             | 26.4           | .0             | .0             | .0           | 52.0            | .0 | 52.0        | 47.7       |
| Elm                       | .0                                       | 4.0            | 6.1            | 6.5            | .0             | .0             | .0             | .0           | 16.6            | .0 | 16.6        | 63.5       |
| Other hardwoods           | .0                                       | 102.5          | 102.2          | 29.8           | 19.6           | 9.7            | .0             | .0           | 263.8           | .0 | 263.8       | 19.2       |
| <b>Total hardwoods</b>    | <b>.0</b>                                | <b>3,342.6</b> | <b>2,678.8</b> | <b>1,605.1</b> | <b>1,091.1</b> | <b>741.6</b>   | <b>934.8</b>   | <b>292.3</b> | <b>10,686.2</b> |    |             | <b>4.3</b> |
| <b>Total, all species</b> | <b>1,803.4</b>                           | <b>5,572.8</b> | <b>4,859.8</b> | <b>3,371.4</b> | <b>2,228.8</b> | <b>1,790.2</b> | <b>2,855.0</b> | <b>793.9</b> | <b>23,275.1</b> |    |             | <b>3.1</b> |
| SE                        | 5.3                                      | 3.3            | 3.8            | 5.0            | 7.0            | 9.1            | 9.1            | 20.5         | 3.1             |    |             |            |

Table 33.--Net volume of sawtimber trees on timberland by species, size class, and tree grade, New Hampshire, 1997  
(In millions of board feet)

| Species group        | >15" Diameter at breast height |         |         |         |         |            |         |         |         |         | SE         |          |     |
|----------------------|--------------------------------|---------|---------|---------|---------|------------|---------|---------|---------|---------|------------|----------|-----|
|                      | All size classes               |         |         |         |         |            |         |         |         |         |            |          |     |
|                      | Grade 1                        |         |         |         |         | All grades |         |         |         |         | All grades |          |     |
|                      | Grade 1                        | Grade 2 | Grade 3 | Grade 4 | Grade 5 | Grade 1    | Grade 2 | Grade 3 | Grade 4 | Grade 5 | All grades | SE       |     |
| Balsam fir           | 34.6                           | .0      | .0      | .0      | 36.0    | 70.7       | 718.8   | .0      | .0      | 84.0    | 802.9      | 10.8     |     |
| Tamarack             | 5.0                            | .0      | .0      | .0      | .0      | 5.0        | 17.3    | .0      | .0      | 2.5     | 19.8       | 51.6     |     |
| White spruce         | 25.4                           | .0      | .0      | .0      | 22.9    | 48.3       | 75.2    | .0      | .0      | 35.5    | 110.7      | 44.5     |     |
| Red spruce           | 217.8                          | .0      | .0      | .0      | 38.6    | 256.4      | 1,223.7 | .0      | .0      | 109.9   | 1,333.6    | 11.3     |     |
| Red pine             | 30.7                           | .0      | 7.9     | .0      | .0      | 38.7       | 54.7    | 105.7   | .0      | 6.2     | 168.9      | 39.2     |     |
| White pine           | 231.1                          | 1,441.8 | 1,592.2 | 497.9   | 1,011.1 | 4,774.1    | 294.2   | 2,190.9 | 799.0   | 1,167.3 | 7,494.3    | 6.4      |     |
| Northern white-cedar | 3.6                            | .0      | .0      | .0      | 4.5     | 8.1        | 20.0    | .0      | .0      | 6.0     | 26.0       | 54.1     |     |
| Hemlock              | 754.3                          | .0      | .0      | .0      | 360.5   | 1,114.8    | 1,881.1 | .0      | .0      | 652.8   | 2,534.0    | 9.7      |     |
| Other softwoods      | 14.0                           | 9.9     | 23.9    | .0      | 10.7    | 58.5       | 18.4    | 15.0    | .0      | 10.7    | 98.6       | 60.1     |     |
| Total softwoods      | 1,316.6                        | 1,451.7 | 1,624.0 | 497.9   | 1,484.3 | 6,374.4    | 4,303.6 | 2,208.3 | 3,203.1 | 799.0   | 2,075.0    | 12,589.0 | 4.6 |
| Sugar maple          | 240.6                          | 327.7   | 237.7   | 63.8    | 111.2   | 981.0      | 240.6   | 443.0   | 847.6   | 148.1   | 1,776.7    | 11.1     |     |
| Red maple            | 57.9                           | 155.1   | 293.3   | 63.5    | 209.9   | 779.7      | 57.9    | 306.8   | 1,191.8 | 310.6   | 2,007.7    | 7.6      |     |
| Yellow birch         | 118.6                          | 147.0   | 168.4   | 18.7    | 89.7    | 542.3      | 118.6   | 231.1   | 531.7   | 115.8   | 1,025.8    | 10.1     |     |
| Paper birch          | 35.6                           | 44.6    | 10.2    | .0      | 10.9    | 101.2      | 35.6    | 167.2   | 459.3   | 45.2    | 720.4      | 11.2     |     |
| Beech                | 20.6                           | 83.4    | 226.0   | 60.1    | 107.5   | 497.7      | 20.6    | 134.6   | 599.0   | 151.6   | 1,049.8    | 12.0     |     |
| White ash            | 122.9                          | 91.5    | 48.8    | .0      | 52.8    | 316.1      | 122.9   | 219.3   | 302.9   | 69.3    | 716.0      | 20.3     |     |
| Aspen                | 26.8                           | 46.8    | 36.9    | 9.3     | 28.2    | 148.0      | 26.8    | 137.5   | 307.9   | 30.1    | 556.4      | 19.3     |     |
| White oaks           | 12.0                           | 8.9     | 44.3    | 4.2     | 34.0    | 103.3      | 12.0    | 28.4    | 111.6   | 34.0    | 194.7      | 24.7     |     |
| Red oaks             | 427.5                          | 399.2   | 137.5   | 48.4    | 90.8    | 1,103.5    | 427.5   | 749.0   | 942.2   | 113.6   | 2,306.3    | 7.9      |     |
| Basswood             | 19.2                           | 7.2     | .0      | .0      | .0      | 26.4       | 19.2    | 16.1    | 13.9    | 1.9     | 52.0       | 47.7     |     |
| Elm                  | .0                             | .0      | 6.5     | .0      | .0      | 6.5        | .0      | .0      | 12.5    | 4.1     | 16.6       | 63.5     |     |
| Other hardwoods      | .0                             | 25.5    | 27.6    | .0      | 5.9     | 59.1       | .0      | 64.5    | 163.5   | 19.9    | 263.8      | 19.2     |     |
| Total hardwoods      | 1,081.6                        | 1,337.0 | 1,237.2 | 268.0   | 741.0   | 4,664.8    | 1,081.6 | 2,497.5 | 5,483.8 | 586.8   | 1,036.4    | 10,686.2 | 4.3 |
| Total, all species   | 2,398.2                        | 2,788.7 | 2,861.2 | 765.8   | 2,225.3 | 11,039.2   | 5,385.2 | 4,705.8 | 8,686.9 | 1,385.8 | 3,111.4    | 23,275.1 | 3.1 |
| SE                   | 9.0                            | 8.4     | 7.3     | 13.2    | 9.6     | 4.8        | 5.9     | 6.0     | 3.8     | 9.4     | 7.6        | 3.1      |     |



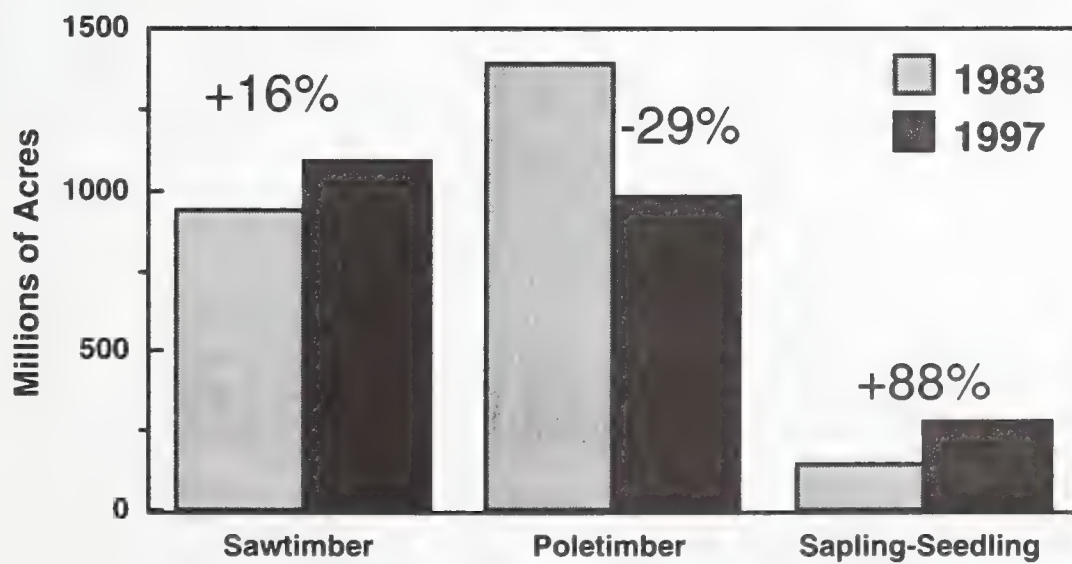
Table 34.--Average annual net change of growing-stock volume on timberland by species and component of change, New Hampshire, 1997

| Species group             | Component of change |                |                |                |                |                |                |                 | Net change    |
|---------------------------|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|---------------|
|                           | Ingrowth            | Accretion      | Gross growth   | Mortality      | Cull decrement | Cull increment | Net growth     | Removals        |               |
| Balsam fir                | 10,203              | 7,746          | 17,949         | -11,818        | 543            | -330           | 6,344          | -11,667         | -5,323        |
| Tamarack                  | 119                 | 201            | 320            | -130           | 207            | -77            | 321            | -308            | 13            |
| White spruce              | 373                 | 498            | 872            | -88            | 666            | 0              | 1,450          | -564            | 886           |
| Black spruce              | 0                   | 31             | 31             | -155           | 0              | 0              | -124           | -268            | -392          |
| Red spruce                | 4,183               | 7,172          | 11,355         | -4,087         | 929            | -473           | 7,724          | -7,598          | 126           |
| Red pine                  | 527                 | 250            | 777            | -215           | 35             | -72            | 525            | -1,979          | -1,454        |
| White pine                | 12,738              | 31,842         | 44,580         | -3,896         | 6,908          | -2,492         | 45,101         | -31,791         | 13,310        |
| Northern white-cedar      | 109                 | 268            | 377            | -200           | 0              | 0              | 176            | -17             | 159           |
| Hemlock                   | 8,389               | 11,194         | 19,583         | -2,008         | 1,801          | -3,273         | 16,103         | -7,367          | 8,736         |
| Other softwoods           | 177                 | 278            | 455            | -62            | 46             | 0              | 439            | -77             | 362           |
| <b>Total softwoods</b>    | <b>36,820</b>       | <b>59,481</b>  | <b>96,301</b>  | <b>-22,659</b> | <b>11,135</b>  | <b>-6,717</b>  | <b>78,059</b>  | <b>-61,636</b>  | <b>16,423</b> |
| Sugar maple               | 7,301               | 10,742         | 18,043         | -1,189         | 3,638          | -1,936         | 18,555         | -10,075         | 8,480         |
| Red maple                 | 10,943              | 17,099         | 28,043         | -4,342         | 8,334          | -3,913         | 28,121         | -17,206         | 10,916        |
| Yellow birch              | 4,569               | 4,453          | 9,021          | -3,789         | 2,520          | -2,157         | 5,595          | -5,573          | 22            |
| Paper birch               | 3,852               | 4,191          | 8,044          | -6,025         | 855            | -2,161         | 713            | -9,192          | -8,478        |
| Beech                     | 3,685               | 5,109          | 8,794          | -3,084         | 3,972          | -3,083         | 6,599          | -7,987          | -1,388        |
| White ash                 | 3,649               | 3,416          | 7,065          | -1,553         | 154            | -87            | 5,578          | -2,458          | 3,119         |
| Black ash                 | 0                   | 16             | 16             | -160           | 0              | 0              | -144           | -70             | -214          |
| Aspen                     | 3,093               | 3,418          | 6,511          | -3,531         | 886            | -171           | 3,695          | -3,868          | -173          |
| White oaks                | 551                 | 826            | 1,377          | -158           | 365            | -123           | 1,461          | -1,497          | -36           |
| Red oaks                  | 7,940               | 8,656          | 16,596         | -1,914         | 1,971          | -212           | 16,441         | -12,298         | 4,143         |
| Basswood                  | 196                 | 427            | 623            | 0              | 69             | -32            | 660            | -65             | 595           |
| Elm                       | 48                  | 0              | 48             | -577           | 53             | 0              | -475           | -244            | -719          |
| Other hardwoods           | 2,224               | 2,480          | 4,704          | -1,168         | 1,000          | -340           | 4,195          | -1,400          | 2,795         |
| <b>Total hardwoods</b>    | <b>48,052</b>       | <b>60,834</b>  | <b>108,886</b> | <b>-27,491</b> | <b>23,817</b>  | <b>-14,216</b> | <b>90,996</b>  | <b>-71,934</b>  | <b>19,062</b> |
| <b>Total, all species</b> | <b>84,871</b>       | <b>120,315</b> | <b>205,187</b> | <b>-50,150</b> | <b>34,951</b>  | <b>-20,933</b> | <b>169,055</b> | <b>-133,570</b> | <b>35,485</b> |

Table 35.--Average annual net change of sawtimber volume on timberland by species and component of change, New Hampshire, 1997

| Species group             | Component of change |                |                |                |                |                |                | Net change      |                |
|---------------------------|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|
|                           | Ingrowth            | Accretion      | Gross growth   | Mortality      | Cull decrement | Cull increment | Net growth     |                 | Removals       |
| Balsam fir                | 23,644              | 13,091         | 36,735         | -23,248        | 136            | -166           | 13,458         | -23,020         | -9,562         |
| Tamarack                  | 511                 | 507            | 1,017          | -317           | 635            | 0              | 1,337          | -1,127          | 210            |
| White spruce              | 1,767               | 2,082          | 3,849          | -220           | 2,804          | 0              | 6,433          | -1,873          | 4,560          |
| Black spruce              | 101                 | 0              | 101            | 0              | 0              | 0              | 101            | -690            | -589           |
| Red spruce                | 16,152              | 22,185         | 38,338         | -11,403        | 2,067          | -1,582         | 27,420         | -19,677         | 7,743          |
| Red pine                  | 109                 | 1,284          | 1,393          | -965           | 0              | -309           | 119            | -9,023          | -8,904         |
| White pine                | 64,539              | 155,065        | 219,605        | -10,984        | 22,836         | -9,701         | 221,757        | -127,147        | 94,610         |
| Northern white-cedar      | 335                 | 1,887          | 2,222          | -383           | 0              | 0              | 1,838          | -34             | 1,804          |
| Hemlock                   | 25,939              | 37,826         | 63,765         | -5,221         | 3,764          | -11,305        | 51,003         | -25,258         | 25,745         |
| Other softwoods           | 489                 | 1,302          | 1,791          | -127           | 71             | 0              | 1,736          | -145            | 1,591          |
| <b>Total softwoods</b>    | <b>133,586</b>      | <b>235,231</b> | <b>368,817</b> | <b>-52,867</b> | <b>32,314</b>  | <b>-23,063</b> | <b>325,201</b> | <b>-207,994</b> | <b>117,207</b> |
| Sugar maple               | 32,029              | 15,980         | 48,009         | -740           | 9,549          | -6,172         | 50,645         | -23,967         | 26,678         |
| Red maple                 | 42,951              | 20,586         | 63,537         | -4,861         | 10,965         | -9,837         | 59,804         | -29,222         | 30,582         |
| Yellow birch              | 17,382              | 8,079          | 25,461         | -6,979         | 6,109          | -5,182         | 19,408         | -17,781         | 1,627          |
| Paper birch               | 16,231              | 3,006          | 19,237         | -3,001         | 699            | -4,003         | 12,933         | -18,173         | -5,240         |
| Beech                     | 18,617              | 10,124         | 28,741         | -9,674         | 2,608          | -6,742         | 14,932         | -18,020         | -3,087         |
| White ash                 | 15,590              | 9,180          | 24,769         | -2,317         | 238            | 0              | 22,690         | -6,415          | 16,275         |
| Black ash                 | 0                   | 0              | 0              | 0              | 0              | 0              | 0              | -269            | -269           |
| Aspen                     | 17,841              | 6,981          | 24,822         | -4,232         | 836            | -491           | 20,935         | -5,990          | 14,945         |
| White oaks                | 2,210               | 1,399          | 3,609          | 0              | 488            | -580           | 3,517          | -2,795          | 722            |
| Red oaks                  | 45,023              | 25,363         | 70,386         | -3,044         | 2,605          | -533           | 69,413         | -31,513         | 37,899         |
| Basswood                  | 917                 | 1,281          | 2,199          | 0              | 0              | 0              | 2,199          | 0               | 2,199          |
| Elm                       | 0                   | 0              | 0              | -1,699         | 0              | 0              | -1,699         | -1,209          | -2,907         |
| Other hardwoods           | 7,075               | 2,121          | 9,195          | -2,135         | 2,528          | -898           | 8,691          | -2,151          | 6,540          |
| <b>Total hardwoods</b>    | <b>215,866</b>      | <b>104,099</b> | <b>319,965</b> | <b>-38,682</b> | <b>36,625</b>  | <b>-34,439</b> | <b>283,469</b> | <b>-157,505</b> | <b>125,963</b> |
| <b>Total, all species</b> | <b>349,453</b>      | <b>339,330</b> | <b>688,783</b> | <b>-91,549</b> | <b>68,939</b>  | <b>-57,503</b> | <b>608,670</b> | <b>-365,500</b> | <b>243,171</b> |

# NORTHERN UNIT TABLES



Northern Unit, area of timberland by stand-size class, 1983 and 1997

Table 36.--Area of timberland by forest type, forest-type group, and stand-size class, Northern Unit, New Hampshire, 1983

(In thousands of acres)

| Forest type                    | Stand-size class |             |                      |             | All classes | SE    |
|--------------------------------|------------------|-------------|----------------------|-------------|-------------|-------|
|                                | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |       |
| Red pine                       | 9.7              | .0          | .0                   | .0          | 9.7         | 100.0 |
| White pine                     | 30.2             | 20.5        | .0                   | .0          | 50.7        | 44.2  |
| White pine/hemlock             | 20.4             | 9.7         | .0                   | .0          | 30.1        | 57.1  |
| Hemlock                        | 19.0             | 9.7         | .0                   | .0          | 28.7        | 57.7  |
| White/red pine group           | 79.3             | 39.9        | .0                   | .0          | 119.2       | 27.5  |
| Balsam fir                     | 39.3             | 148.5       | 27.1                 | .0          | 214.9       | 20.1  |
| Red spruce                     | .0               | 69.8        | 9.7                  | .0          | 79.4        | 35.0  |
| Red spruce/balsam fir          | 19.8             | 105.5       | 9.7                  | .0          | 134.9       | 25.7  |
| White spruce                   | .0               | 20.1        | .0                   | .0          | 20.1        | 69.9  |
| Tamarack                       | .0               | 10.0        | .0                   | .0          | 10.0        | 100.0 |
| Spruce/fir group               | 59.2             | 353.8       | 46.4                 | .0          | 459.3       | 12.7  |
| Pitch pine                     | 9.4              | 9.4         | .0                   | .0          | 18.7        | 68.5  |
| Loblolly/shortleaf group       | 9.4              | 9.4         | .0                   | .0          | 18.7        | 68.5  |
| Wh. pine/no.red oak/wh. ash    | 28.6             | 18.7        | .0                   | .0          | 47.3        | 43.8  |
| Oak/pine group                 | 28.6             | 18.7        | .0                   | .0          | 47.3        | 43.8  |
| Northern red oak               | 19.4             | 49.8        | 8.4                  | .0          | 77.6        | 34.6  |
| Red maple/central hardwood     | .0               | .0          | 10.0                 | .0          | 10.0        | 100.0 |
| Mixed central hardwoods        | 9.7              | 38.2        | .0                   | .0          | 47.9        | 44.8  |
| Oak/hickory group              | 29.1             | 88.0        | 18.3                 | .0          | 135.5       | 25.7  |
| Black ash/Amer. elm/red maple  | .0               | 8.2         | 8.5                  | .0          | 16.7        | 70.7  |
| Red maple(upland)              | .0               | .0          | 10.0                 | .0          | 10.0        | 100.0 |
| Elm/ash/red maple group        | .0               | 8.2         | 18.6                 | .0          | 26.7        | 58.0  |
| Sugar maple/beech/yellow birch | 559.6            | 332.2       | 28.0                 | .0          | 919.8       | 8.1   |
| Black Cherry                   | .0               | 10.0        | 9.7                  | .0          | 19.7        | 70.7  |
| Red maple/northern hardwoods   | 68.7             | 245.9       | .0                   | .0          | 314.6       | 16.0  |
| Pin cherry/reverting field     | .0               | 10.0        | .0                   | .0          | 10.0        | 100.0 |
| Mixed northern hardwoods       | 28.5             | 48.0        | 8.9                  | .0          | 85.4        | 32.4  |
| Northern hardwoods group       | 656.7            | 646.1       | 46.6                 | .0          | 1,349.4     | 5.7   |
| Aspen                          | 38.5             | 76.3        | 7.0                  | .0          | 121.7       | 27.2  |
| Paper birch                    | 38.7             | 158.0       | 10.7                 | .0          | 207.5       | 20.9  |
| Aspen/birch group              | 77.2             | 234.3       | 17.7                 | .0          | 329.2       | 15.8  |
| All forest types               | 939.5            | 1,398.4     | 147.5                | .0          | 2,485.4     | 1.0   |
| SE                             | 7.5              | 5.4         | 23.4                 | .0          | 1.0         |       |

Table 37.--Area of timberland by forest type, forest-type group, and stand-size class, Northern Unit, New Hampshire, 1997

(In thousands of acres)

| Forest type                    | Stand-size class |             |                      |             | All classes | SE    |
|--------------------------------|------------------|-------------|----------------------|-------------|-------------|-------|
|                                | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |       |
| Red pine                       | .0               | 4.9         | .0                   | .0          | 4.9         | 100.0 |
| White pine                     | 55.8             | 16.0        | .0                   | .0          | 71.8        | 24.4  |
| White pine/hemlock             | 42.4             | 7.1         | .0                   | .0          | 49.5        | 33.1  |
| Hemlock                        | 57.6             | 4.9         | .0                   | .0          | 62.5        | 27.8  |
| White/red pine group           | 155.8            | 32.9        | .0                   | .0          | 188.7       | 15.0  |
| Balsam fir                     | 31.6             | 127.6       | 43.0                 | .0          | 202.2       | 16.9  |
| Red spruce                     | 12.3             | 10.6        | 10.2                 | .0          | 33.1        | 38.4  |
| Red spruce/balsam fir          | 28.5             | 86.0        | 6.3                  | 3.9         | 124.7       | 21.1  |
| White spruce                   | 11.6             | .0          | .0                   | .0          | 11.6        | 69.0  |
| Spruce/fir group               | 84.0             | 224.2       | 59.5                 | 3.9         | 371.6       | 11.5  |
| Pitch pine                     | 10.4             | 5.2         | .0                   | .0          | 15.5        | 56.0  |
| Loblolly/shortleaf group       | 10.4             | 5.2         | .0                   | .0          | 15.5        | 56.0  |
| Wh. pine/no.red oak/wh. ash    | 18.1             | 15.8        | 1.4                  | .0          | 35.3        | 34.0  |
| Oak/pine group                 | 18.1             | 15.8        | 1.4                  | .0          | 35.3        | 34.0  |
| Post, black, or bear oak       | .0               | .0          | 5.2                  | .0          | 5.2         | 100.0 |
| White oak/red oak/hickory      | 5.5              | 5.4         | .0                   | .0          | 10.9        | 70.7  |
| Northern red oak               | 29.1             | 23.5        | .0                   | .0          | 52.5        | 32.6  |
| Red maple/central hardwood     | 1.4              | .0          | .0                   | .0          | 1.4         | 100.0 |
| Mixed central hardwoods        | 29.1             | 52.6        | .0                   | .0          | 81.8        | 25.6  |
| Oak/hickory group              | 65.0             | 81.6        | 5.2                  | .0          | 151.8       | 18.3  |
| Black ash/Amer. elm/red maple  | 11.4             | 1.9         | .0                   | .0          | 13.3        | 62.4  |
| Red maple(lowland)             | 6.7              | .0          | .0                   | .0          | 6.7         | 100.0 |
| Willow                         | .0               | .0          | 1.6                  | .0          | 1.6         | 100.0 |
| Elm/ash/red maple group        | 18.1             | 1.9         | 1.6                  | .0          | 21.5        | 50.0  |
| Sugar maple/beech/yellow birch | 539.2            | 378.7       | 66.7                 | .0          | 984.5       | 6.0   |
| Black Cherry                   | 7.4              | .0          | 19.0                 | .0          | 26.4        | 42.5  |
| Red maple/northern hardwoods   | 104.1            | 117.1       | 34.0                 | .0          | 255.2       | 14.6  |
| Pin cherry/reverting field     | .0               | 4.5         | 11.0                 | .0          | 15.5        | 59.5  |
| Mixed northern hardwoods       | 38.2             | 52.0        | 23.6                 | .0          | 113.9       | 21.8  |
| Northern hardwoods group       | 688.9            | 552.3       | 154.4                | .0          | 1,395.6     | 4.4   |
| Aspen                          | 19.5             | 19.9        | 28.0                 | .0          | 67.4        | 28.2  |
| Paper birch                    | 32.4             | 53.6        | 19.9                 | .0          | 105.9       | 24.4  |
| Gray birch                     | .0               | .0          | 6.9                  | .0          | 6.9         | 82.6  |
| Aspen/birch group              | 51.9             | 73.4        | 54.9                 | .0          | 180.2       | 17.6  |
| All forest types               | 1,092.2          | 987.2       | 276.8                | 3.9         | 2,360.2     | 1.7   |
| SE                             | 5.7              | 6.1         | 12.9                 | 100.0       | 1.7         |       |

Table 38.--Number of live trees (1.0+ inches d.b.h.) on timberland by species and diameter class, Northern Unit, New Hampshire, 1997  
(In thousands of trees)

| Species group              | Diameter class (inches at breast height) |                |                |                |               |               |               |               |  |  |
|----------------------------|--|----------------|----------------|----------------|---------------|---------------|---------------|---------------|--|--|
|                            | 1.0-<br>2.9                              | 3.0-<br>4.9    | 5.0-<br>6.9    | 7.0-<br>8.9    | 9.0-<br>10.9  | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 |  |  |
| Balsam fir                 | 306,495                                  | 90,472         | 42,735         | 19,490         | 7,690         | 3,303         | 693           | 278           |  |  |
| Tamarack                   | 1,039                                    | 0              | 338            | 243            | 250           | 108           | 0             | 36            |  |  |
| White spruce               | 1,803                                    | 2,062          | 716            | 761            | 636           | 376           | 133           | 98            |  |  |
| Red spruce                 | 88,117                                   | 24,206         | 16,739         | 11,575         | 6,248         | 3,596         | 1,601         | 492           |  |  |
| Red pine                   | 415                                      | 409            | 847            | 496            | 281           | 149           | 142           | 31            |  |  |
| White pine                 | 26,618                                   | 5,832          | 6,749          | 4,585          | 3,065         | 2,103         | 2,358         | 1,506         |  |  |
| Northern white-cedar       | 895                                      | 0              | 577            | 505            | 473           | 186           | 0             | 39            |  |  |
| Hemlock                    | 28,610                                   | 13,738         | 7,454          | 5,615          | 5,173         | 3,319         | 2,123         | 1,275         |  |  |
| Other softwoods            | 389                                      | 2,743          | 1,344          | 844            | 376           | 157           | 93            | 218           |  |  |
| <b>Total softwoods</b>     | <b>454,381</b>                           | <b>139,461</b> | <b>77,499</b>  | <b>44,113</b>  | <b>24,192</b> | <b>13,298</b> | <b>7,143</b>  | <b>3,973</b>  |  |  |
| Sugar maple                | 93,604                                   | 26,528         | 15,289         | 11,953         | 10,822        | 6,576         | 3,082         | 1,593         |  |  |
| Red maple                  | 104,434                                  | 39,276         | 25,824         | 18,029         | 9,506         | 5,046         | 3,198         | 1,206         |  |  |
| Yellow birch               | 98,067                                   | 30,033         | 12,145         | 9,592          | 6,160         | 4,105         | 2,609         | 1,641         |  |  |
| Paper birch                | 55,813                                   | 20,979         | 18,847         | 13,837         | 7,382         | 4,350         | 1,863         | 572           |  |  |
| Beech                      | 117,965                                  | 26,815         | 12,474         | 7,168          | 5,691         | 3,478         | 1,789         | 1,360         |  |  |
| White ash                  | 9,635                                    | 7,079          | 3,349          | 2,125          | 1,555         | 1,499         | 691           | 263           |  |  |
| Black ash                  | 1,455                                    | 1,513          | 324            | 499            | 235           | 0             | 0             | 0             |  |  |
| Aspen                      | 29,440                                   | 4,017          | 3,349          | 3,547          | 2,452         | 1,567         | 1,315         | 588           |  |  |
| White oaks                 | 500                                      | 909            | 162            | 162            | 33            | 139           | 33            | 0             |  |  |
| Red oaks                   | 15,435                                   | 6,208          | 4,282          | 4,097          | 3,037         | 1,794         | 1,661         | 611           |  |  |
| Basswood                   | 408                                      | 0              | 241            | 202            | 0             | 93            | 33            | 0             |  |  |
| Elm                        | 1,872                                    | 0              | 236            | 31             | 36            | 0             | 0             | 0             |  |  |
| Other commercial hardwoods | 16,731                                   | 4,959          | 1,767          | 1,002          | 322           | 318           | 370           | 173           |  |  |
| Noncommercial hardwoods    | 169,248                                  | 25,873         | 6,308          | 2,251          | 473           | 75            | 57            | 0             |  |  |
| <b>Total hardwoods</b>     | <b>714,611</b>                           | <b>194,190</b> | <b>104,598</b> | <b>74,495</b>  | <b>47,704</b> | <b>29,041</b> | <b>16,702</b> | <b>8,007</b>  |  |  |
| <b>Total, all species</b>  | <b>1,168,992</b>                         | <b>333,652</b> | <b>182,097</b> | <b>118,608</b> | <b>71,896</b> | <b>42,339</b> | <b>23,845</b> | <b>11,981</b> |  |  |
| SE                         | 5.8                                      | 5.8            | 4.4            | 3.8            | 3.9           | 4.7           | 5.6           | 7.2           |  |  |

Table 38. --continued

| Species group              | (In thousands of trees)                  |              |              |            |                |                  | All classes | SE |
|----------------------------|--|--------------|--------------|------------|----------------|------------------|-------------|----|
|                            | Diameter class (inches at breast height) |              |              |            |                |                  |             |    |
|                            | 17.0-18.9                                | 19.0-20.9    | 21.0-28.9    | 29.0+      | Total 5.0+     |                  |             |    |
| Balsam fir                 | 121                                      | 0            | 0            | 0          | 74,309         | 471,276          | 10.9        |    |
| Tamarack                   | 0  | 0            | 0            | 0          | 975            | 2,013            | 55.9        |    |
| White spruce               | 36                                       | 60           | 72           | 0          | 2,886          | 6,751            | 36.4        |    |
| Red spruce                 | 263                                      | 93           | 0            | 0          | 40,607         | 152,930          | 11.0        |    |
| Red pine                   | 0  | 0            | 57           | 0          | 2,004          | 2,828            | 43.3        |    |
| White pine                 | 849                                      | 368          | 1,140        | 291        | 23,015         | 55,465           | 13.7        |    |
| Northern white-cedar       | 75                                       | 0            | 0            | 0          | 1,855          | 2,750            | 74.2        |    |
| Hemlock                    | 652                                      | 603          | 305          | 33         | 26,551         | 68,899           | 15.1        |    |
| Other softwoods            | 31                                       | 31           | 31           | 0          | 3,127          | 6,259            | 75.2        |    |
| <b>Total softwoods</b>     | <b>2,026</b>                             | <b>1,156</b> | <b>1,605</b> | <b>323</b> | <b>175,329</b> | <b>769,172</b>   | <b>7.9</b>  |    |
| Sugar maple                | 875                                      | 555          | 757          | 64         | 51,567         | 171,700          | 9.9         |    |
| Red maple                  | 619                                      | 211          | 239          | 33         | 63,912         | 207,622          | 8.6         |    |
| Yellow birch               | 670                                      | 571          | 586          | 24         | 38,103         | 166,204          | 11.3        |    |
| Paper birch                | 92                                       | 24           | 0            | 0          | 46,967         | 123,759          | 12.5        |    |
| Beech                      | 538                                      | 280          | 322          | 33         | 33,134         | 177,915          | 10.2        |    |
| White ash                  | 153                                      | 64           | 125          | 60         | 9,884          | 26,599           | 14.0        |    |
| Black ash                  | 0  | 0            | 0            | 0          | 1,057          | 4,026            | 61.8        |    |
| Aspen                      | 142                                      | 100          | 74           | 0          | 13,133         | 46,590           | 23.5        |    |
| White oaks                 | 0  | 33           | 0            | 40         | 603            | 2,013            | 47.4        |    |
| Red oaks                   | 688                                      | 66           | 168          | 80         | 16,484         | 38,128           | 16.0        |    |
| Basswood                   | 93                                       | 0            | 0            | 0          | 662            | 1,070            | 44.6        |    |
| Elm                        | 0  | 0            | 0            | 0          | 303            | 2,176            | 43.2        |    |
| Other commercial hardwoods | 41                                       | 70           | 0            | 0          | 4,064          | 25,754           | 23.4        |    |
| Noncommercial hardwoods    | 0  | 0            | 0            | 0          | 9,164          | 204,285          | 11.1        |    |
| <b>Total hardwoods</b>     | <b>3,911</b>                             | <b>1,974</b> | <b>2,272</b> | <b>335</b> | <b>289,040</b> | <b>1,197,841</b> | <b>4.6</b>  |    |
| <b>Total, all species</b>  | <b>5,937</b>                             | <b>3,130</b> | <b>3,878</b> | <b>658</b> | <b>464,370</b> | <b>1,967,013</b> | <b>4.1</b>  |    |
| SE                         | 9.1                                      | 12.4         | 12.0         | 27.9       | 3.2            | 4.1              |             |    |

Table 39.--Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Northern Unit, New Hampshire, 1983

| Species group             | (In thousands of trees)                  |                |               |               |               |               |               |               |               |            |                |            |   | All classes | SE     |      |
|---------------------------|--|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|----------------|------------|---|-------------|--------|------|
|                           | Diameter class (inches at breast height) |                |               |               |               |               |               |               |               |            |                |            |   |             |        |      |
|                           | 5.0-<br>6.9                              | 7.0-<br>8.9    | 9.0-<br>10.9  | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0+      |                |            |   |             |        |      |
| Balsam fir                | 53,287                                   | 24,987         | 11,214        | 4,123         | 868           | 184           | 25            | 0             | 0             | 0          | 0              | 0          | 0 | 0           | 94,688 | 10.2 |
| Tamarack                  | 1,038                                    | 399            | 368           | 70            | 35            | 32            | 29            | 0             | 0             | 0          | 0              | 0          | 0 | 0           | 1,970  | 51.9 |
| White spruce              | 2,130                                    | 1,258          | 462           | 589           | 138           | 0             | 0             | 0             | 0             | 0          | 0              | 0          | 0 | 0           | 4,578  | 40.1 |
| Black spruce              | 440                                      | 77             | 0             | 0             | 0             | 0             | 0             | 0             | 0             | 0          | 0              | 0          | 0 | 0           | 517    | 70.8 |
| Red spruce                | 31,568                                   | 16,694         | 9,907         | 3,728         | 1,556         | 657           | 301           | 143           | 41            | 0          | 0              | 0          | 0 | 0           | 64,594 | 12.0 |
| Red pine                  | 0  | 0              | 86            | 153           | 35            | 62            | 138           | 75            | 0             | 0          | 0              | 0          | 0 | 0           | 548    | 52.1 |
| White pine                | 6,783                                    | 5,828          | 3,357         | 2,927         | 1,265         | 1,197         | 706           | 314           | 671           | 28         | 0              | 0          | 0 | 0           | 23,076 | 19.7 |
| Northern white-cedar      | 657                                      | 436            | 306           | 123           | 71            | 32            | 0             | 0             | 0             | 0          | 0              | 0          | 0 | 0           | 1,647  | 59.1 |
| Hemlock                   | 6,907                                    | 4,293          | 2,488         | 1,898         | 1,662         | 707           | 373           | 145           | 263           | 0          | 0              | 0          | 0 | 0           | 18,737 | 16.1 |
| Other softwoods           | 2,622                                    | 678            | 81            | 107           | 199           | 56            | 78            | 45            | 21            | 0          | 0              | 0          | 0 | 0           | 3,887  | 79.8 |
| <b>Total softwoods</b>    | <b>105,430</b>                           | <b>54,651</b>  | <b>28,269</b> | <b>13,718</b> | <b>5,829</b>  | <b>2,928</b>  | <b>1,650</b>  | <b>721</b>    | <b>1,019</b>  | <b>28</b>  | <b>214,244</b> | <b>7.3</b> |   |             |        |      |
| Sugar maple               | 11,707                                   | 10,865         | 7,265         | 3,618         | 2,032         | 1,299         | 670           | 458           | 548           | 37         | 38,498         | 12.8       |   |             |        |      |
| Red maple                 | 27,388                                   | 18,589         | 10,160        | 4,373         | 2,047         | 1,043         | 455           | 126           | 171           | 15         | 64,366         | 9.0        |   |             |        |      |
| Yellow birch              | 10,257                                   | 8,298          | 5,259         | 3,595         | 2,722         | 995           | 667           | 313           | 415           | 41         | 32,561         | 11.2       |   |             |        |      |
| Paper birch               | 22,726                                   | 15,244         | 7,858         | 3,836         | 1,125         | 518           | 138           | 48            | 42            | 0          | 51,535         | 11.7       |   |             |        |      |
| Beech                     | 8,349                                    | 5,077          | 4,247         | 2,404         | 1,749         | 895           | 538           | 161           | 86            | 13         | 23,520         | 14.6       |   |             |        |      |
| White ash                 | 3,316                                    | 2,305          | 1,215         | 851           | 827           | 340           | 160           | 0             | 0             | 19         | 9,118          | 19.8       |   |             |        |      |
| Black ash                 | 1,138                                    | 418            | 225           | 39            | 0             | 0             | 0             | 0             | 0             | 0          | 1,821          | 36.1       |   |             |        |      |
| Aspen                     | 6,967                                    | 5,672          | 4,005         | 1,982         | 898           | 428           | 84            | 21            | 0             | 0          | 20,058         | 16.5       |   |             |        |      |
| White oaks                | 89                                       | 0              | 0             | 0             | 39            | 0             | 0             | 0             | 0             | 0          | 127            | 76.0       |   |             |        |      |
| Red oaks                  | 5,465                                    | 5,220          | 2,582         | 1,237         | 689           | 575           | 302           | 71            | 55            | 0          | 16,195         | 23.3       |   |             |        |      |
| Basswood                  | 86                                       | 0              | 0             | 0             | 37            | 0             | 31            | 0             | 0             | 14         | 168            | 65.7       |   |             |        |      |
| Elm                       | 280                                      | 80             | 0             | 77            | 0             | 0             | 0             | 0             | 0             | 0          | 437            | 46.5       |   |             |        |      |
| Other hardwoods           | 2,995                                    | 1,223          | 645           | 305           | 105           | 31            | 0             | 26            | 20            | 0          | 5,350          | 20.5       |   |             |        |      |
| <b>Total hardwoods</b>    | <b>100,763</b>                           | <b>72,991</b>  | <b>43,462</b> | <b>22,319</b> | <b>12,269</b> | <b>6,124</b>  | <b>3,044</b>  | <b>1,223</b>  | <b>1,421</b>  | <b>139</b> | <b>263,756</b> | <b>4.2</b> |   |             |        |      |
| <b>Total, all species</b> | <b>206,194</b>                           | <b>127,643</b> | <b>71,732</b> | <b>36,037</b> | <b>18,097</b> | <b>9,052</b>  | <b>4,694</b>  | <b>1,944</b>  | <b>2,440</b>  | <b>167</b> | <b>478,000</b> | <b>3.2</b> |   |             |        |      |
| SE                        | 5.2                                      | 4.3            | 4.1           | 4.9           | 5.9           | 7.8           | 9.5           | 13.7          | 12.8          | 29.7       | 3.2            |            |   |             |        |      |



Table 40. --Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Northern Unit, New Hampshire, 1997

| Species group             | (In thousands of trees)                  |                |               |               |               |               |              |              |              |            |                |            |   |   | All classes | SE     |      |
|---------------------------|--|----------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|------------|----------------|------------|---|---|-------------|--------|------|
|                           | Diameter class (inches at breast height) |                |               |               |               |               |              |              |              |            |                |            |   |   |             |        |      |
|                           | 5.0-6.9                                  | 7.0-8.9        | 9.0-10.9      | 11.0-12.9     | 13.0-14.9     | 15.0-16.9     | 17.0-18.9    | 19.0-20.9    | 21.0-28.9    | 29.0+      |                |            |   |   |             |        |      |
| Balsam fir                | 42,603                                   | 19,452         | 7,412         | 3,193         | 693           | 278           | 121          | 0            | 0            | 0          | 0              | 0          | 0 | 0 | 0           | 73,751 | 10.3 |
| Tamarack                  | 338                                      | 210            | 214           | 108           | 0             | 36            | 0            | 0            | 0            | 0          | 0              | 0          | 0 | 0 | 0           | 906    | 47.1 |
| White spruce              | 716                                      | 761            | 564           | 340           | 133           | 98            | 0            | 60           | 72           | 0          | 0              | 0          | 0 | 0 | 0           | 2,743  | 36.7 |
| Red spruce                | 16,670                                   | 11,532         | 5,975         | 3,565         | 1,601         | 492           | 263          | 93           | 0            | 0          | 0              | 0          | 0 | 0 | 0           | 40,191 | 10.2 |
| Red pine                  | 847                                      | 496            | 241           | 149           | 142           | 31            | 0            | 0            | 57           | 0          | 0              | 0          | 0 | 0 | 0           | 1,964  | 51.2 |
| White pine                | 6,749                                    | 4,585          | 2,728         | 2,007         | 2,331         | 1,466         | 809          | 325          | 1,056        | 248        | 0              | 0          | 0 | 0 | 0           | 22,305 | 12.2 |
| Northern white-cedar      | 469                                      | 505            | 437           | 149           | 0             | 39            | 75           | 0            | 0            | 0          | 0              | 0          | 0 | 0 | 0           | 1,674  | 67.7 |
| Hemlock                   | 7,197                                    | 5,389          | 4,794         | 3,225         | 2,090         | 1,209         | 652          | 603          | 305          | 33         | 0              | 0          | 0 | 0 | 0           | 25,496 | 13.0 |
| Other softwoods           | 1,344                                    | 844            | 343           | 157           | 93            | 218           | 31           | 31           | 31           | 0          | 0              | 0          | 0 | 0 | 0           | 3,094  | 75.3 |
| <b>Total softwoods</b>    | <b>76,932</b>                            | <b>43,774</b>  | <b>22,710</b> | <b>12,894</b> | <b>7,082</b>  | <b>3,867</b>  | <b>1,950</b> | <b>1,113</b> | <b>1,521</b> | <b>281</b> | <b>172,124</b> | <b>6.4</b> |   |   |             |        |      |
| Sugar maple               | 14,474                                   | 11,367         | 10,460        | 5,969         | 2,513         | 1,499         | 685          | 514          | 720          | 64         | 48,265         | 9.2        |   |   |             |        |      |
| Red maple                 | 24,231                                   | 17,047         | 9,252         | 3,791         | 2,709         | 964           | 491          | 171          | 130          | 0          | 58,788         | 6.6        |   |   |             |        |      |
| Yellow birch              | 11,161                                   | 9,127          | 5,884         | 3,234         | 1,868         | 1,308         | 556          | 427          | 448          | 24         | 34,038         | 7.7        |   |   |             |        |      |
| Paper birch               | 17,943                                   | 13,237         | 7,105         | 3,775         | 1,522         | 495           | 0            | 0            | 0            | 0          | 44,078         | 8.7        |   |   |             |        |      |
| Beech                     | 11,707                                   | 6,866          | 5,356         | 2,787         | 1,268         | 1,065         | 409          | 183          | 169          | 0          | 29,809         | 9.4        |   |   |             |        |      |
| White ash                 | 3,250                                    | 2,055          | 1,555         | 1,392         | 658           | 229           | 153          | 31           | 93           | 60         | 9,475          | 12.5       |   |   |             |        |      |
| Black ash                 | 324                                      | 499            | 197           | 0             | 0             | 0             | 0            | 0            | 0            | 0          | 1,020          | 42.8       |   |   |             |        |      |
| Aspen                     | 3,311                                    | 3,507          | 2,389         | 1,567         | 1,315         | 495           | 142          | 76           | 74           | 0          | 12,875         | 14.6       |   |   |             |        |      |
| White oaks                | 162                                      | 162            | 33            | 139           | 33            | 0             | 0            | 33           | 0            | 40         | 603            | 43.0       |   |   |             |        |      |
| Red oaks                  | 4,184                                    | 4,054          | 3,004         | 1,794         | 1,535         | 611           | 655          | 33           | 135          | 40         | 16,045         | 13.3       |   |   |             |        |      |
| Basswood                  | 241                                      | 202            | 0             | 33            | 33            | 0             | 93           | 0            | 0            | 0          | 602            | 36.0       |   |   |             |        |      |
| Elm                       | 236                                      | 31             | 36            | 0             | 0             | 0             | 0            | 0            | 0            | 0          | 303            | 41.9       |   |   |             |        |      |
| Other hardwoods           | 1,528                                    | 932            | 253           | 291           | 300           | 65            | 41           | 37           | 0            | 0          | 3,446          | 17.6       |   |   |             |        |      |
| <b>Total hardwoods</b>    | <b>92,752</b>                            | <b>69,087</b>  | <b>45,523</b> | <b>24,771</b> | <b>13,754</b> | <b>6,732</b>  | <b>3,226</b> | <b>1,506</b> | <b>1,768</b> | <b>228</b> | <b>259,349</b> | <b>3.6</b> |   |   |             |        |      |
| <b>Total, all species</b> | <b>169,685</b>                           | <b>112,861</b> | <b>68,234</b> | <b>37,664</b> | <b>20,837</b> | <b>10,598</b> | <b>5,176</b> | <b>2,619</b> | <b>3,289</b> | <b>510</b> | <b>431,473</b> | <b>3.3</b> |   |   |             |        |      |
| SE                        | 4.5                                      | 3.8            | 4.0           | 4.9           | 5.8           | 7.2           | 9.8          | 13.4         | 13.1         | 29.1       | 3.3            |            |   |   |             |        |      |

Table 41.--Net volume of all trees on timberland by species and tree class, Northern Unit, New Hampshire, 1997  
(In millions of cubic feet)

| Species group              | Tree class   |                |                          |               |                | All classes  | SE         |
|----------------------------|--------------|----------------|--------------------------|---------------|----------------|--------------|------------|
|                            | Preferred    | Acceptable     | Preferred/<br>acceptable | Rough<br>cull | Rotten<br>cull |              |            |
| Balsam fir                 | 39.2         | 416.5          | 455.7                    | 1.9           | 1.2            | 3.1          | 9.8        |
| Tamarack                   | .0           | 7.5            | 7.5                      | .5            | .0             | .5           | 44.6       |
| White spruce               | 2.1          | 31.6           | 33.8                     | .9            | .5             | 1.4          | 44.0       |
| Red spruce                 | 34.3         | 335.0          | 369.3                    | 1.2           | 1.2            | 2.4          | 10.6       |
| Red pine                   | .0           | 21.2           | 21.2                     | .3            | .0             | .3           | 42.3       |
| White pine                 | 21.4         | 393.3          | 414.7                    | 6.5           | 4.9            | 11.4         | 12.0       |
| Northern white-cedar       | .7           | 12.6           | 13.3                     | .3            | .3             | .7           | 58.3       |
| Hemlock                    | 22.1         | 303.8          | 325.9                    | 5.4           | .6             | 6.1          | 14.3       |
| Other softwoods            | .0           | 30.6           | 30.6                     | .2            | .0             | .2           | 55.8       |
| <b>Total softwoods</b>     | <b>119.8</b> | <b>1,552.1</b> | <b>1,671.9</b>           | <b>17.3</b>   | <b>8.8</b>     | <b>26.1</b>  | <b>6.1</b> |
| Sugar maple                | 22.7         | 578.3          | 600.9                    | 23.1          | 11.1           | 34.2         | 10.2       |
| Red maple                  | 2.0          | 484.8          | 486.8                    | 40.8          | 7.7            | 48.5         | 7.4        |
| Yellow birch               | 7.0          | 355.8          | 362.7                    | 32.1          | 9.3            | 41.4         | 8.5        |
| Paper birch                | 14.7         | 318.8          | 333.5                    | 9.3           | 4.9            | 14.2         | 8.9        |
| Beech                      | .0           | 311.4          | 311.4                    | 16.0          | 19.0           | 35.0         | 10.8       |
| White ash                  | 19.7         | 110.8          | 130.5                    | 2.0           | 2.3            | 4.2          | 22.7       |
| Black ash                  | .0           | 5.6            | 5.6                      | .0            | .2             | .2           | 46.0       |
| Aspen                      | 7.3          | 153.5          | 160.8                    | .4            | 2.3            | 2.7          | 16.2       |
| White oaks                 | .0           | 10.3           | 10.3                     | .0            | .0             | .0           | 57.9       |
| Red oaks                   | 15.3         | 187.9          | 203.1                    | 2.7           | 6.7            | 9.4          | 15.0       |
| Basswood                   | .0           | 9.5            | 9.5                      | .0            | .7             | .7           | 57.0       |
| Elm                        | .0           | 1.2            | 1.2                      | .0            | .0             | .0           | 46.2       |
| Other commercial hardwoods | .0           | 33.1           | 33.1                     | 3.8           | 1.1            | 4.9          | 30.9       |
| Noncommercial hardwoods    | .0           | .0             | .0                       | 25.5          | .9             | 26.4         | 14.3       |
| <b>Total hardwoods</b>     | <b>88.5</b>  | <b>2,560.9</b> | <b>2,649.5</b>           | <b>155.6</b>  | <b>66.3</b>    | <b>221.9</b> | <b>4.3</b> |
| <b>Total, all species</b>  | <b>208.3</b> | <b>4,113.1</b> | <b>4,321.4</b>           | <b>172.9</b>  | <b>75.1</b>    | <b>248.0</b> | <b>3.4</b> |
| SE                         | 17.4         | 3.4            | 3.5                      | 7.9           | 13.2           | 7.0          | 3.4        |

Volume of all live trees on timberland, for selected species and percent change, Northern Unit of New Hampshire, 1983 and 1997  
 (Volume decreased by 3.6 percent for all species)

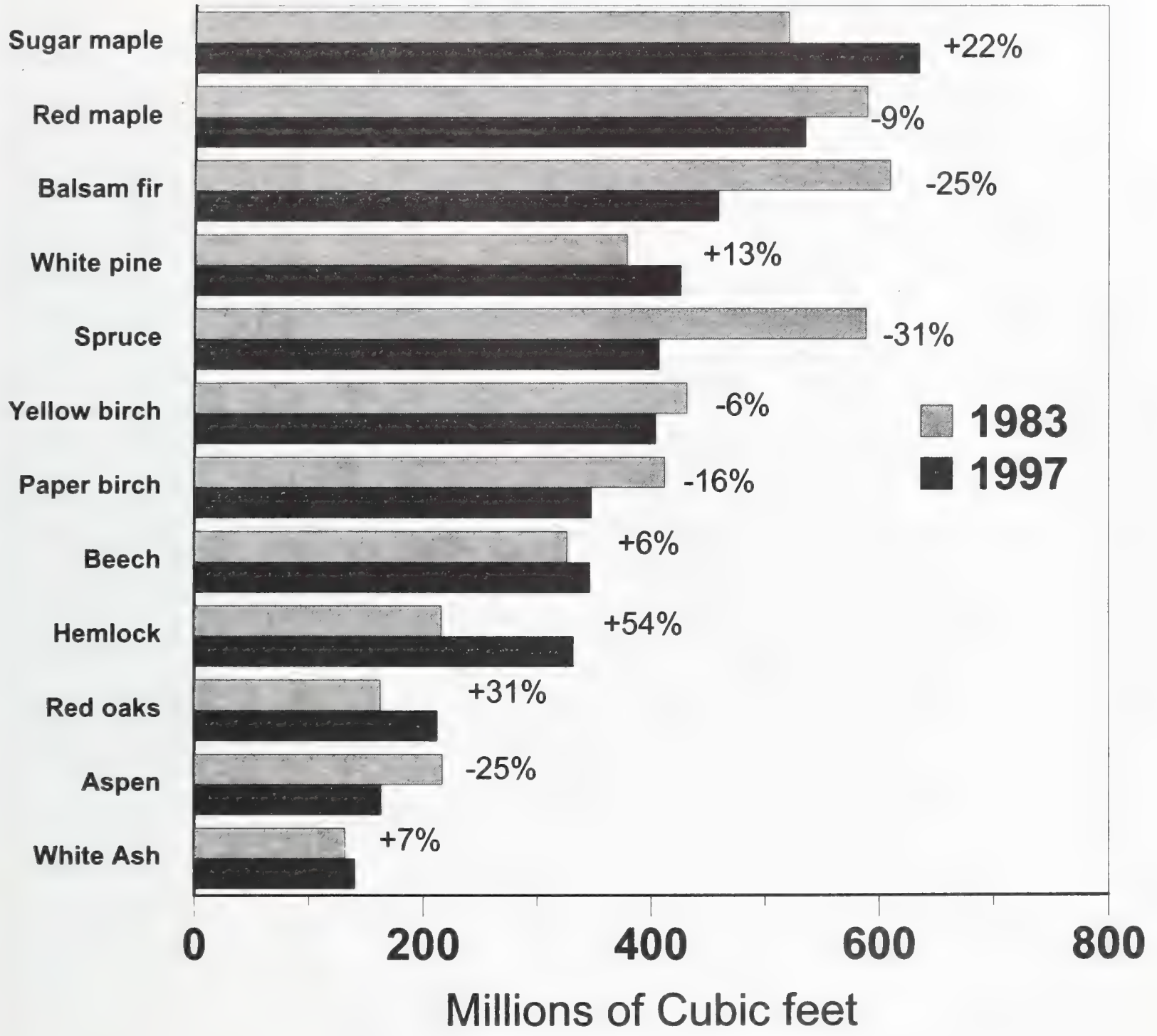


Table 42.--Net volume of all live trees on timberland by species and diameter class, Northern Unit, New Hampshire, 1983

| Species group              | (In millions of cubic feet)              |              |              |              |              |              |              |              |              |             |                |            | All classes | SE    |      |
|----------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|----------------|------------|-------------|-------|------|
|                            | Diameter class (inches at breast height) |              |              |              |              |              |              |              |              |             |                |            |             |       |      |
|                            | 5.0-6.9                                  | 7.0-8.9      | 9.0-10.9     | 11.0-12.9    | 13.0-14.9    | 15.0-16.9    | 17.0-18.9    | 19.0-20.9    | 21.0-28.9    | 29.0+       |                |            |             |       |      |
| Balsam fir                 | 173.2                                    | 186.3        | 138.0        | 80.3         | 24.7         | 6.4          | .9           | .0           | .0           | .0          | .0             | .0         | .0          | 609.7 | 9.7  |
| Tamarack                   | 2.9                                      | 2.8          | 4.1          | 1.3          | .8           | 1.0          | 2.0          | .0           | .0           | .0          | .0             | .0         | .0          | 14.9  | 37.2 |
| White spruce               | 8.8                                      | 11.2         | 6.8          | 12.8         | 6.5          | .0           | 2.0          | 2.2          | .7           | .0          | .0             | .0         | .0          | 51.2  | 47.8 |
| Black spruce               | 1.5                                      | .9           | .0           | .0           | .0           | .0           | .0           | .0           | .0           | .0          | .0             | .0         | .0          | 2.4   | 73.9 |
| Red spruce                 | 118.3                                    | 124.1        | 122.8        | 72.3         | 43.9         | 25.5         | 16.7         | 7.6          | 3.7          | .0          | .0             | .0         | .0          | 534.9 | 10.6 |
| Red pine                   | .0                                       | .0           | 1.0          | 2.8          | .9           | 2.3          | 6.9          | 4.6          | .0           | .0          | .0             | .0         | .0          | 18.3  | 58.7 |
| White pine                 | 24.8                                     | 43.2         | 45.2         | 57.8         | 35.5         | 47.1         | 34.2         | 20.2         | 57.4         | 13.4        | .0             | .0         | .0          | 378.6 | 15.8 |
| Northern white-cedar       | 1.5                                      | 2.6          | 2.5          | 1.9          | 2.0          | .8           | .0           | .0           | 1.2          | .0          | .0             | .0         | .0          | 12.5  | 48.0 |
| Hemlock                    | 20.9                                     | 27.0         | 28.7         | 35.8         | 41.2         | 23.1         | 15.3         | 6.9          | 17.3         | .0          | .0             | .0         | .0          | 216.2 | 13.8 |
| Other softwoods            | 7.5                                      | 4.1          | 1.5          | 2.0          | 4.4          | 1.9          | 3.3          | 2.2          | 1.2          | .0          | .0             | .0         | .0          | 28.2  | 64.0 |
| <b>Total softwoods</b>     | <b>359.3</b>                             | <b>402.3</b> | <b>350.5</b> | <b>267.0</b> | <b>159.9</b> | <b>108.0</b> | <b>81.4</b>  | <b>43.7</b>  | <b>81.5</b>  | <b>13.4</b> | <b>1,867.0</b> | <b>6.1</b> |             |       |      |
| Sugar maple                | 38.7                                     | 86.1         | 95.2         | 73.9         | 54.6         | 48.6         | 38.7         | 27.6         | 50.4         | 7.0         | .0             | .0         | .0          | 520.7 | 12.1 |
| Red maple                  | 92.4                                     | 136.2        | 129.0        | 89.9         | 56.0         | 37.8         | 23.1         | 8.4          | 14.7         | 2.1         | .0             | .0         | .0          | 589.7 | 8.8  |
| Yellow birch               | 36.6                                     | 63.1         | 65.9         | 67.8         | 68.6         | 38.1         | 29.7         | 22.5         | 31.5         | 7.7         | .0             | .0         | .0          | 431.6 | 10.0 |
| Paper birch                | 73.4                                     | 111.6        | 101.2        | 69.3         | 27.3         | 17.9         | 5.3          | 2.7          | 3.4          | .0          | .0             | .0         | .0          | 412.1 | 11.2 |
| Beech                      | 26.2                                     | 41.5         | 68.0         | 52.1         | 51.6         | 37.1         | 27.4         | 9.3          | 11.7         | 1.6         | .0             | .0         | .0          | 326.4 | 14.0 |
| White ash                  | 12.1                                     | 18.9         | 17.7         | 17.9         | 24.0         | 13.0         | 7.9          | .0           | 3.8          | 5.4         | .0             | .0         | .0          | 120.8 | 25.7 |
| Black ash                  | 5.0                                      | 2.7          | 2.7          | .8           | .0           | .0           | .0           | .0           | .0           | .0          | .0             | .0         | .0          | 11.2  | 36.5 |
| Aspen                      | 27.1                                     | 48.0         | 58.2         | 38.5         | 24.5         | 15.0         | 4.6          | 1.4          | .0           | .0          | .0             | .0         | .0          | 217.2 | 16.8 |
| White oaks                 | .2                                       | .0           | .0           | .0           | 1.2          | .0           | .0           | .0           | .7           | .0          | .0             | .0         | .0          | 2.1   | 74.8 |
| Red oaks                   | 16.7                                     | 37.1         | 30.3         | 20.7         | 16.4         | 19.2         | 12.8         | 3.9          | 4.5          | 1.1         | .0             | .0         | .0          | 162.8 | 20.4 |
| Basswood                   | .4                                       | .0           | .0           | .0           | 1.2          | .6           | 1.6          | .0           | .0           | 1.4         | .0             | .0         | .0          | 5.3   | 61.6 |
| Elm                        | 1.2                                      | .5           | .2           | 1.1          | .0           | .0           | .0           | .0           | .0           | .0          | .0             | .0         | .0          | 3.0   | 40.6 |
| Other commercial hardwoods | 6.0                                      | 8.6          | 5.7          | 6.0          | 3.3          | 1.4          | .0           | 1.1          | 1.3          | .0          | .0             | .0         | .0          | 33.4  | 24.8 |
| Noncommercial hardwoods    | 19.2                                     | 10.2         | 3.5          | .9           | 1.2          | .0           | .0           | .0           | .5           | .0          | .0             | .0         | .0          | 35.4  | 17.6 |
| <b>Total hardwoods</b>     | <b>355.3</b>                             | <b>564.5</b> | <b>577.4</b> | <b>438.8</b> | <b>329.8</b> | <b>228.6</b> | <b>151.2</b> | <b>76.9</b>  | <b>122.7</b> | <b>26.4</b> | <b>2,871.6</b> | <b>4.1</b> |             |       |      |
| <b>Total, all species</b>  | <b>714.6</b>                             | <b>966.8</b> | <b>927.9</b> | <b>705.8</b> | <b>489.7</b> | <b>336.6</b> | <b>232.6</b> | <b>120.6</b> | <b>204.2</b> | <b>39.8</b> | <b>4,738.7</b> | <b>2.5</b> |             |       |      |
| SE                         | 4.9                                      | 4.1          | 4.0          | 4.8          | 5.7          | 7.3          | 8.9          | 12.4         | 11.9         | 21.1        | 2.5            |            |             |       |      |

Table 43.--Net volume of live trees on timberland by species and diameter class, Northern Unit, New Hampshire, 1997

| Species group              | (In millions of cubic feet)              |              |              |              |              |              |              |              |              |             |                | All classes | SE         |
|----------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|----------------|-------------|------------|
|                            | Diameter class (inches at breast height) |              |              |              |              |              |              |              |              |             |                |             |            |
|                            | 5.0-6.9                                  | 7.0-8.9      | 9.0-10.9     | 11.0-12.9    | 13.0-14.9    | 15.0-16.9    | 17.0-18.9    | 19.0-20.9    | 21.0-28.9    | 29.0+       |                |             |            |
| Balsam fir                 | 135.6                                    | 136.7        | 92.4         | 61.2         | 18.6         | 9.4          | 5.0          | .0           | .0           | .0          | .0             | 458.9       | 9.8        |
| Tamarack                   | 1.1                                      | 1.3          | 2.6          | 1.8          | .0           | 1.2          | .0           | .0           | .0           | .0          | .0             | 8.0         | 44.6       |
| White spruce               | 1.9                                      | 4.8          | 7.5          | 6.4          | 3.8          | 3.7          | .5           | 2.3          | 4.2          | .0          | .0             | 35.1        | 44.0       |
| Red spruce                 | 58.7                                     | 86.1         | 79.1         | 69.7         | 42.6         | 18.8         | 12.1         | 4.7          | .0           | .0          | .0             | 371.7       | 10.6       |
| Red pine                   | 2.4                                      | 3.2          | 3.1          | 2.8          | 4.2          | 1.2          | .0           | .0           | 4.5          | .0          | .0             | 21.4        | 42.3       |
| White pine                 | 20.9                                     | 30.9         | 36.5         | 38.0         | 58.4         | 48.4         | 39.5         | 18.7         | 95.1         | 39.9        | .0             | 426.1       | 12.0       |
| Northern white-cedar       | 1.5                                      | 3.1          | 4.3          | 2.4          | .0           | .8           | 1.9          | .0           | .0           | .0          | .0             | 14.0        | 58.3       |
| Hemlock                    | 19.5                                     | 33.2         | 53.6         | 54.4         | 48.2         | 38.8         | 28.0         | 30.2         | 21.9         | 4.2         | .0             | 331.9       | 14.3       |
| Other softwoods            | 4.6                                      | 5.3          | 3.5          | 2.6          | 2.1          | 7.4          | 1.6          | 1.6          | 2.2          | .0          | .0             | 30.8        | 55.8       |
| <b>Total softwoods</b>     | <b>246.2</b>                             | <b>304.5</b> | <b>282.4</b> | <b>239.2</b> | <b>178.0</b> | <b>129.6</b> | <b>88.6</b>  | <b>57.5</b>  | <b>128.0</b> | <b>44.1</b> | <b>1,698.0</b> |             | <b>6.1</b> |
| Sugar maple                | 43.0                                     | 79.8         | 130.2        | 116.3        | 75.0         | 52.1         | 38.5         | 32.3         | 61.3         | 6.7         | .0             | 635.1       | 10.2       |
| Red maple                  | 72.3                                     | 117.7        | 106.6        | 82.4         | 71.2         | 36.3         | 24.1         | 10.4         | 12.2         | 2.1         | .0             | 535.3       | 7.4        |
| Yellow birch               | 33.1                                     | 57.1         | 65.8         | 63.5         | 56.3         | 43.8         | 23.5         | 26.3         | 32.6         | 2.1         | .0             | 404.1       | 8.5        |
| Paper birch                | 57.5                                     | 86.4         | 80.6         | 68.3         | 37.5         | 16.0         | .4           | 1.0          | .0           | .0          | .0             | 347.7       | 8.9        |
| Beech                      | 34.0                                     | 49.3         | 67.2         | 62.0         | 42.4         | 44.4         | 22.3         | 11.6         | 13.1         | .1          | .0             | 346.5       | 10.8       |
| White ash                  | 11.4                                     | 15.2         | 20.1         | 29.7         | 19.4         | 10.1         | 8.7          | 2.5          | 6.8          | 10.9        | .0             | 134.8       | 22.7       |
| Black ash                  | .9                                       | 2.7          | 2.3          | .0           | .0           | .0           | .0           | .0           | .0           | .0          | .0             | 5.9         | 46.0       |
| Aspen                      | 12.5                                     | 26.8         | 32.2         | 30.7         | 33.0         | 15.5         | 4.3          | 5.0          | 3.4          | .0          | .0             | 163.5       | 16.2       |
| White oaks                 | .5                                       | .9           | .3           | 1.6          | .7           | .0           | .0           | 1.5          | .0           | 4.9         | .0             | 10.3        | 57.9       |
| Red oaks                   | 13.8                                     | 26.7         | 34.7         | 29.8         | 37.8         | 19.9         | 25.1         | 2.6          | 9.3          | 12.7        | .0             | 212.5       | 15.0       |
| Basswood                   | .8                                       | 1.4          | .0           | 1.3          | 1.3          | .0           | 5.4          | .0           | .0           | .0          | .0             | 10.2        | 57.0       |
| Elm                        | .6                                       | .2           | .5           | .0           | .0           | .0           | .0           | .0           | .0           | .0          | .0             | 1.2         | 46.2       |
| Other commercial hardwoods | 4.8                                      | 6.0          | 3.0          | 6.2          | 8.8          | 4.2          | 1.7          | 3.1          | .0           | .0          | .0             | 37.9        | 30.9       |
| Noncommercial hardwoods    | 12.8                                     | 9.4          | 2.7          | .5           | .9           | .0           | .0           | .0           | .0           | .0          | .0             | 26.4        | 14.3       |
| <b>Total hardwoods</b>     | <b>298.2</b>                             | <b>479.5</b> | <b>546.2</b> | <b>492.4</b> | <b>384.4</b> | <b>242.2</b> | <b>154.0</b> | <b>96.3</b>  | <b>138.8</b> | <b>39.4</b> | <b>2,871.4</b> |             | <b>4.3</b> |
| <b>Total, all species</b>  | <b>544.4</b>                             | <b>784.0</b> | <b>828.6</b> | <b>731.6</b> | <b>562.3</b> | <b>371.8</b> | <b>242.6</b> | <b>153.8</b> | <b>266.7</b> | <b>83.5</b> | <b>4,569.4</b> |             | <b>3.4</b> |
| SE                         | 4.8                                      | 4.0          | 4.3          | 5.0          | 5.8          | 7.2          | 10.0         | 12.7         | 13.1         | 31.1        | 3.4            |             |            |

Table 44.--Net volume of growing-stock trees on timberland by species and diameter class, Northern Unit, New Hampshire, 1983

| Species group             | (In millions of cubic feet)              |              |              |              |              |              |              |              |              |             |                |            |     | All classes | SE    |      |
|---------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|----------------|------------|-----|-------------|-------|------|
|                           | Diameter class (inches at breast height) |              |              |              |              |              |              |              |              |             |                |            |     |             |       |      |
|                           | 5.0-6.9                                  | 7.0-8.9      | 9.0-10.9     | 11.0-12.9    | 13.0-14.9    | 15.0-16.9    | 17.0-18.9    | 19.0-20.9    | 21.0-28.9    | 29.0+       |                |            |     |             |       |      |
| Balsam fir                | 166.6                                    | 178.2        | 135.7        | 79.2         | 24.2         | 6.4          | .9           | .0           | .0           | .0          | .0             | .0         | .0  | .0          | 591.1 | 9.7  |
| Tamarack                  | 2.9                                      | 2.6          | 4.1          | 1.3          | .8           | 1.0          | 1.1          | .0           | .0           | .0          | .0             | .0         | .0  | .0          | 13.8  | 38.5 |
| White spruce              | 7.6                                      | 9.5          | 5.8          | 11.5         | 3.4          | .0           | .0           | .0           | .0           | .0          | .0             | .0         | .0  | .0          | 37.7  | 42.4 |
| Black spruce              | 1.3                                      | .5           | .0           | .0           | .0           | .0           | .0           | .0           | .0           | .0          | .0             | .0         | .0  | .0          | 1.8   | 70.9 |
| Red spruce                | 108.4                                    | 121.1        | 121.0        | 70.9         | 42.2         | 24.5         | 13.8         | 7.6          | 2.9          | .0          | .0             | .0         | .0  | .0          | 512.5 | 10.6 |
| Red pine                  | .0                                       | .0           | 1.0          | 2.8          | .9           | 2.3          | 6.9          | 4.6          | .0           | .0          | .0             | .0         | .0  | .0          | 18.3  | 58.7 |
| White pine                | 21.8                                     | 39.0         | 39.9         | 54.9         | 33.1         | 42.2         | 33.0         | 18.3         | 55.6         | 3.5         | 3.5            | 3.5        | 3.5 | 3.5         | 341.3 | 16.4 |
| Northern white-cedar      | 1.2                                      | 2.5          | 2.5          | 1.9          | 1.5          | .8           | .0           | .0           | 1.2          | .0          | .0             | .0         | .0  | .0          | 11.6  | 49.7 |
| Hemlock                   | 18.1                                     | 24.8         | 25.5         | 31.4         | 38.5         | 21.0         | 15.3         | 6.9          | 16.4         | .0          | .0             | .0         | .0  | .0          | 197.9 | 14.4 |
| Other softwoods           | 7.4                                      | 4.0          | .9           | 2.0          | 4.4          | 1.9          | 3.3          | 2.2          | 1.2          | .0          | .0             | .0         | .0  | .0          | 27.4  | 65.0 |
| <b>Total softwoods</b>    | <b>335.4</b>                             | <b>382.1</b> | <b>336.3</b> | <b>255.9</b> | <b>149.1</b> | <b>100.1</b> | <b>74.3</b>  | <b>39.6</b>  | <b>77.3</b>  | <b>3.5</b>  | <b>1,753.6</b> | <b>6.3</b> |     |             |       |      |
| Sugar maple               | 35.6                                     | 80.7         | 92.6         | 67.8         | 51.3         | 45.0         | 32.3         | 26.2         | 44.0         | 4.3         | 479.8          | 12.5       |     |             |       |      |
| Red maple                 | 84.1                                     | 127.9        | 121.3        | 78.0         | 49.7         | 33.6         | 19.2         | 6.6          | 10.3         | 1.2         | 532.1          | 9.3        |     |             |       |      |
| Yellow birch              | 31.9                                     | 57.2         | 62.4         | 62.3         | 62.6         | 30.2         | 24.3         | 16.7         | 23.0         | 6.2         | 376.7          | 10.6       |     |             |       |      |
| Paper birch               | 70.6                                     | 108.8        | 98.6         | 67.0         | 25.4         | 16.0         | 4.8          | 2.7          | 2.3          | .0          | 396.2          | 11.4       |     |             |       |      |
| Beech                     | 23.4                                     | 37.0         | 53.9         | 47.1         | 47.4         | 32.8         | 23.9         | 8.1          | 5.7          | 1.6         | 280.9          | 14.3       |     |             |       |      |
| White ash                 | 11.9                                     | 18.3         | 16.9         | 16.9         | 22.4         | 13.0         | 7.9          | .0           | 3.8          | 5.4         | 116.5          | 25.7       |     |             |       |      |
| Black ash                 | 4.0                                      | 2.7          | 2.5          | .8           | .0           | .0           | .0           | .0           | .0           | .0          | 10.0           | 38.6       |     |             |       |      |
| Aspen                     | 25.3                                     | 44.7         | 53.7         | 38.1         | 23.7         | 15.0         | 3.6          | 1.4          | .0           | .0          | 205.3          | 17.0       |     |             |       |      |
| White oaks                | .2                                       | .0           | .0           | .0           | .8           | .0           | .0           | .0           | .0           | .0          | 1.1            | 80.6       |     |             |       |      |
| Red oaks                  | 16.5                                     | 35.2         | 30.3         | 20.7         | 15.8         | 18.6         | 12.0         | 3.9          | 4.5          | .0          | 157.6          | 20.8       |     |             |       |      |
| Basswood                  | .4                                       | .0           | .0           | .0           | 1.2          | .0           | 1.6          | .0           | .0           | 1.4         | 4.6            | 68.7       |     |             |       |      |
| Elm                       | .6                                       | .4           | .0           | 1.1          | .0           | .0           | .0           | .0           | .0           | .0          | 2.1            | 53.8       |     |             |       |      |
| Other hardwoods           | 9.4                                      | 9.6          | 6.3          | 5.4          | 2.4          | .8           | .0           | 1.1          | 1.3          | .0          | 36.4           | 22.7       |     |             |       |      |
| <b>Total hardwoods</b>    | <b>314.0</b>                             | <b>522.4</b> | <b>538.4</b> | <b>405.3</b> | <b>302.7</b> | <b>204.9</b> | <b>129.6</b> | <b>66.8</b>  | <b>95.0</b>  | <b>20.2</b> | <b>2,599.3</b> | <b>4.4</b> |     |             |       |      |
| <b>Total, all species</b> | <b>649.4</b>                             | <b>904.6</b> | <b>874.7</b> | <b>661.1</b> | <b>451.8</b> | <b>305.0</b> | <b>203.9</b> | <b>106.4</b> | <b>172.3</b> | <b>23.7</b> | <b>4,352.9</b> | <b>2.7</b> |     |             |       |      |
| SE                        | 5.2                                      | 4.4          | 4.2          | 5.0          | 6.0          | 7.9          | 9.6          | 13.8         | 13.5         | 30.6        | 2.7            |            |     |             |       |      |

Table 45.--Net volume of growing-stock trees on timberland by species and diameter class, Northern Unit, New Hampshire, 1997  
(In millions of cubic feet)

| Species group             | Diameter class (inches at breast height) |  |              |  |              |  |              |  |              |  |              | All classes | SE           |           |              |           |              |           |                |       |            |  |
|---------------------------|--|--|--------------|--|--------------|--|--------------|--|--------------|--|--------------|-------------|--------------|-----------|--------------|-----------|--------------|-----------|----------------|-------|------------|--|
|                           | 5.0-6.9                                  |  | 7.0-8.9      |  | 9.0-10.9     |  | 11.0-12.9    |  | 13.0-14.9    |  | 15.0-16.9    |             |              | 17.0-18.9 |              | 19.0-20.9 |              | 21.0-28.9 |                | 29.0+ |            |  |
|                           |  |  |              |  |              |  |              |  |              |  |              |             |              |           |              |           |              |           |                |       |            |  |
| Balsam fir                | 135.4                                    |  | 136.7        |  | 90.8         |  | 59.9         |  | 18.6         |  | 9.4          |             | 5.0          |           | .0           |           | .0           |           | 455.7          |       | 9.8        |  |
| Tamarack                  | 1.1                                      |  | 1.2          |  | 2.2          |  | 1.8          |  | .0           |  | 1.2          |             | .0           |           | .0           |           | .0           |           | 7.5            |       | 47.0       |  |
| White spruce              | 1.9                                      |  | 4.8          |  | 6.9          |  | 6.1          |  | 3.8          |  | 3.7          |             | .0           |           | 2.3          |           | 4.2          |           | 33.8           |       | 43.6       |  |
| Red spruce                | 58.6                                     |  | 85.8         |  | 77.2         |  | 69.4         |  | 42.6         |  | 18.8         |             | 12.1         |           | 4.7          |           | .0           |           | 369.3          |       | 10.7       |  |
| Red pine                  | 2.4                                      |  | 3.2          |  | 2.8          |  | 2.8          |  | 4.2          |  | 1.2          |             | .0           |           | .0           |           | 4.5          |           | 21.2           |       | 42.3       |  |
| White pine                | 20.9                                     |  | 30.9         |  | 33.9         |  | 37.0         |  | 57.9         |  | 47.4         |             | 37.9         |           | 17.7         |           | 93.5         |           | 414.7          |       | 12.0       |  |
| Northern white-cedar      | 1.3                                      |  | 3.1          |  | 4.1          |  | 2.1          |  | .0           |  | .8           |             | 1.9          |           | .0           |           | .0           |           | 13.3           |       | 59.6       |  |
| Hemlock                   | 19.2                                     |  | 32.7         |  | 50.9         |  | 53.4         |  | 47.8         |  | 37.6         |             | 28.0         |           | 30.2         |           | 21.9         |           | 325.9          |       | 14.5       |  |
| Other softwoods           | 4.6                                      |  | 5.3          |  | 3.2          |  | 2.6          |  | 2.1          |  | 7.4          |             | 1.6          |           | 1.6          |           | 2.2          |           | 30.6           |       | 56.2       |  |
| <b>Total softwoods</b>    | <b>245.4</b>                             |  | <b>303.7</b> |  | <b>271.9</b> |  | <b>235.1</b> |  | <b>177.0</b> |  | <b>127.4</b> |             | <b>86.6</b>  |           | <b>56.4</b>  |           | <b>126.3</b> |           | <b>1,671.9</b> |       | <b>6.1</b> |  |
| Sugar maple               | 42.5                                     |  | 77.6         |  | 127.8        |  | 109.2        |  | 63.7         |  | 50.2         |             | 33.2         |           | 31.0         |           | 59.1         |           | 600.9          |       | 10.3       |  |
| Red maple                 | 70.5                                     |  | 114.6        |  | 105.5        |  | 65.6         |  | 63.2         |  | 30.7         |             | 19.9         |           | 8.8          |           | 7.9          |           | 486.8          |       | 7.6        |  |
| Yellow birch              | 32.3                                     |  | 55.7         |  | 64.4         |  | 54.1         |  | 44.9         |  | 37.0         |             | 20.3         |           | 22.0         |           | 30.0         |           | 362.7          |       | 8.8        |  |
| Paper birch               | 56.2                                     |  | 84.9         |  | 79.2         |  | 63.7         |  | 33.9         |  | 15.6         |             | .0           |           | .0           |           | .0           |           | 333.5          |       | 9.0        |  |
| Beech                     | 33.4                                     |  | 48.2         |  | 65.0         |  | 54.6         |  | 35.7         |  | 37.9         |             | 19.4         |           | 8.7          |           | 8.5          |           | 311.4          |       | 11.1       |  |
| White ash                 | 11.2                                     |  | 15.0         |  | 20.1         |  | 29.1         |  | 18.9         |  | 8.9          |             | 8.7          |           | 1.8          |           | 6.0          |           | 130.5          |       | 23.1       |  |
| Black ash                 | .9                                       |  | 2.7          |  | 2.0          |  | .0           |  | .0           |  | .0           |             | .0           |           | .0           |           | .0           |           | 5.6            |       | 47.0       |  |
| Aspen                     | 12.4                                     |  | 26.7         |  | 31.8         |  | 30.7         |  | 33.0         |  | 14.1         |             | 4.3          |           | 4.3          |           | 3.4          |           | 160.8          |       | 16.3       |  |
| White oaks                | .5                                       |  | .9           |  | .3           |  | 1.6          |  | .7           |  | .0           |             | .0           |           | 1.5          |           | .0           |           | 10.3           |       | 57.9       |  |
| Red oaks                  | 13.7                                     |  | 26.4         |  | 34.5         |  | 29.8         |  | 36.0         |  | 19.9         |             | 24.6         |           | 1.8          |           | 7.7          |           | 203.1          |       | 14.8       |  |
| Basswood                  | .8                                       |  | 1.4          |  | .0           |  | .6           |  | 1.3          |  | .0           |             | 5.4          |           | .0           |           | .0           |           | 9.5            |       | 54.9       |  |
| Elm                       | .6                                       |  | .2           |  | .5           |  | .0           |  | .0           |  | .0           |             | .0           |           | .0           |           | .0           |           | 1.2            |       | 46.2       |  |
| Other hardwoods           | 4.6                                      |  | 6.0          |  | 2.7          |  | 6.0          |  | 7.9          |  | 1.8          |             | 1.7          |           | 2.3          |           | .0           |           | 33.1           |       | 31.2       |  |
| <b>Total hardwoods</b>    | <b>279.7</b>                             |  | <b>460.1</b> |  | <b>533.9</b> |  | <b>445.1</b> |  | <b>338.9</b> |  | <b>216.1</b> |             | <b>137.6</b> |           | <b>82.2</b>  |           | <b>122.6</b> |           | <b>2,649.5</b> |       | <b>4.4</b> |  |
| <b>Total, all species</b> | <b>525.1</b>                             |  | <b>763.9</b> |  | <b>805.8</b> |  | <b>680.2</b> |  | <b>516.0</b> |  | <b>343.6</b> |             | <b>224.2</b> |           | <b>138.6</b> |           | <b>248.9</b> |           | <b>4,321.4</b> |       | <b>3.5</b> |  |
| SE                        | 5.0                                      |  | 4.0          |  | 4.3          |  | 5.1          |  | 5.9          |  | 7.4          |             | 10.6         |           | 13.6         |           | 13.8         |           | 31.0           |       | 3.5        |  |

Table 46.--Net volume of growing-stock trees on timberland by species and stand-size class, Northern Unit, New Hampshire, 1983

(In millions of cubic feet)

| Species group             | Stand-size class |                |                      |             | All classes    | SE         |
|---------------------------|------------------|----------------|----------------------|-------------|----------------|------------|
|                           | Saw-timber       | Pole-timber    | Sapling and seedling | Non-stocked |                |            |
| Balsam fir                | 137.1            | 449.8          | 4.3                  | .0          | 591.1          | 9.7        |
| Tamarack                  | 3.2              | 8.4            | 2.2                  | .0          | 13.8           | 38.5       |
| White spruce              | 2.6              | 35.1           | .0                   | .0          | 37.7           | 42.4       |
| Black spruce              | .0               | .8             | 1.0                  | .0          | 1.8            | 70.9       |
| Red spruce                | 158.8            | 349.1          | 4.6                  | .0          | 512.5          | 10.6       |
| Red pine                  | 17.7             | .7             | .0                   | .0          | 18.3           | 58.7       |
| White pine                | 204.8            | 132.6          | 3.9                  | .0          | 341.3          | 16.4       |
| Northern white-cedar      | 6.7              | 4.9            | .0                   | .0          | 11.6           | 49.7       |
| Hemlock                   | 143.3            | 54.7           | .0                   | .0          | 197.9          | 14.4       |
| Other softwoods           | 15.0             | 11.2           | 1.2                  | .0          | 27.4           | 65.0       |
| <b>Total softwoods</b>    | <b>689.2</b>     | <b>1,047.3</b> | <b>17.2</b>          | <b>.0</b>   | <b>1,753.6</b> | <b>6.3</b> |
| Sugar maple               | 288.7            | 187.7          | 3.4                  | .0          | 479.8          | 12.5       |
| Red maple                 | 222.0            | 309.0          | 1.1                  | .0          | 532.1          | 9.3        |
| Yellow birch              | 231.5            | 143.0          | 2.2                  | .0          | 376.7          | 10.6       |
| Paper birch               | 117.8            | 278.0          | .4                   | .0          | 396.2          | 11.4       |
| Beech                     | 227.2            | 52.9           | .8                   | .0          | 280.9          | 14.3       |
| White ash                 | 67.9             | 46.5           | 2.2                  | .0          | 116.5          | 25.7       |
| Black ash                 | 3.7              | 6.3            | .0                   | .0          | 10.0           | 38.6       |
| Aspen                     | 57.2             | 147.3          | .7                   | .0          | 205.3          | 17.0       |
| White oaks                | .2               | .8             | .0                   | .0          | 1.1            | 80.6       |
| Red oaks                  | 62.5             | 95.0           | .0                   | .0          | 157.6          | 20.8       |
| Basswood                  | 4.6              | .0             | .0                   | .0          | 4.6            | 68.7       |
| Elm                       | .2               | 1.9            | .0                   | .0          | 2.1            | 53.8       |
| Other hardwoods           | 6.7              | 23.2           | 6.5                  | .0          | 36.4           | 22.7       |
| <b>Total hardwoods</b>    | <b>1,290.3</b>   | <b>1,291.7</b> | <b>17.2</b>          | <b>.0</b>   | <b>2,599.3</b> | <b>4.4</b> |
| <b>Total, all species</b> | <b>1,979.5</b>   | <b>2,339.0</b> | <b>34.4</b>          | <b>.0</b>   | <b>4,352.9</b> | <b>2.7</b> |
| SE                        | 8.0              | 6.4            | 32.8                 | .0          | 2.7            |            |



Table 47.--Net volume of growing-stock trees on timberland by species and stand-size class, Northern Unit, New Hampshire, 1997

(In millions of cubic feet)

| Species group             | Stand-size class |                |                      |             | All classes    | SE         |
|---------------------------|------------------|----------------|----------------------|-------------|----------------|------------|
|                           | Saw-timber       | Pole-timber    | Sapling and seedling | Non-stocked |                |            |
| Balsam fir                | 138.7            | 297.3          | 19.7                 | .0          | 455.7          | 9.8        |
| Tamarack                  | 4.8              | 2.5            | .1                   | .0          | 7.5            | 47.0       |
| White spruce              | 25.2             | 8.1            | .5                   | .0          | 33.8           | 43.6       |
| Red spruce                | 191.7            | 167.4          | 10.2                 | .0          | 369.3          | 10.7       |
| Red pine                  | 14.9             | 6.2            | .0                   | .0          | 21.2           | 42.3       |
| White pine                | 313.9            | 93.0           | 7.8                  | .0          | 414.7          | 12.0       |
| Northern white-cedar      | 10.8             | .1             | 2.4                  | .0          | 13.3           | 59.6       |
| Hemlock                   | 269.7            | 55.8           | .3                   | .0          | 325.9          | 14.5       |
| Other softwoods           | 18.3             | 12.4           | .0                   | .0          | 30.6           | 56.2       |
| <b>Total softwoods</b>    | <b>988.1</b>     | <b>642.9</b>   | <b>40.9</b>          | <b>.0</b>   | <b>1,671.9</b> | <b>6.1</b> |
| Sugar maple               | 385.7            | 203.9          | 11.4                 | .0          | 600.9          | 10.3       |
| Red maple                 | 260.2            | 219.2          | 7.3                  | .0          | 486.8          | 7.6        |
| Yellow birch              | 246.8            | 111.9          | 4.0                  | .0          | 362.7          | 8.8        |
| Paper birch               | 156.2            | 164.2          | 13.1                 | .0          | 333.5          | 9.0        |
| Beech                     | 221.7            | 83.5           | 6.2                  | .0          | 311.4          | 11.1       |
| White ash                 | 86.8             | 38.9           | 4.8                  | .0          | 130.5          | 23.1       |
| Black ash                 | 1.5              | 4.1            | .0                   | .0          | 5.6            | 47.0       |
| Aspen                     | 61.2             | 90.6           | 8.9                  | .0          | 160.8          | 16.3       |
| White oaks                | 7.3              | 2.9            | .0                   | .0          | 10.3           | 57.9       |
| Red oaks                  | 128.3            | 72.5           | 2.3                  | .0          | 203.1          | 14.8       |
| Basswood                  | 8.0              | 1.4            | .0                   | .0          | 9.5            | 54.9       |
| Elm                       | .5               | .8             | .0                   | .0          | 1.2            | 46.2       |
| Other hardwoods           | 26.9             | 4.9            | 1.3                  | .0          | 33.1           | 31.2       |
| <b>Total hardwoods</b>    | <b>1,591.1</b>   | <b>999.0</b>   | <b>59.4</b>          | <b>.0</b>   | <b>2,649.5</b> | <b>4.4</b> |
| <b>Total, all species</b> | <b>2,579.2</b>   | <b>1,641.8</b> | <b>100.3</b>         | <b>.0</b>   | <b>4,321.4</b> | <b>3.5</b> |
| SE                        | 6.4              | 7.4            | 22.0                 | .0          | 3.5            |            |

Table 48.--Net volume of growing-stock trees on timberland by forest type and stand-size class, Northern Unit, New Hampshire, 1997

(In millions of cubic feet)

| Forest type                    | Stand-size class |             |                      |             | All classes | SE    |
|--------------------------------|------------------|-------------|----------------------|-------------|-------------|-------|
|                                | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |       |
| Red pine                       | .0               | 4.8         | .0                   | .0          | 4.8         | 100.0 |
| White pine                     | 180.0            | 20.4        | .0                   | .0          | 200.4       | 26.5  |
| White pine/hemlock             | 149.4            | 9.7         | .0                   | .0          | 159.1       | 36.8  |
| Hemlock                        | 179.1            | 10.3        | .0                   | .0          | 189.4       | 32.6  |
| White/red pine group           | 508.6            | 45.2        | .0                   | .0          | 553.7       | 17.6  |
| Balsam fir                     | 48.9             | 229.7       | 24.1                 | .0          | 302.7       | 20.1  |
| Red spruce                     | 32.6             | 20.2        | 4.6                  | .0          | 57.4        | 47.4  |
| Red spruce/balsam fir          | 63.4             | 184.4       | .1                   | .0          | 247.9       | 25.1  |
| White spruce                   | 30.5             | .0          | .0                   | .0          | 30.5        | 76.4  |
| Spruce/fir group               | 175.5            | 434.3       | 28.8                 | .0          | 638.5       | 13.9  |
| Pitch pine                     | 22.9             | 11.8        | .0                   | .0          | 34.7        | 57.9  |
| Loblolly/shortleaf group       | 22.9             | 11.8        | .0                   | .0          | 34.7        | 57.9  |
| Wh. pine/no.red oak/wh. ash    | 61.7             | 26.9        | .0                   | .0          | 88.6        | 43.7  |
| Oak/pine group                 | 61.7             | 26.9        | .0                   | .0          | 88.6        | 43.7  |
| Post, black, or bear oak       | .0               | .0          | .9                   | .0          | .9          | 100.0 |
| White oak/red oak/hickory      | 6.0              | 9.4         | .0                   | .0          | 15.4        | 72.4  |
| Northern red oak               | 86.3             | 37.1        | .0                   | .0          | 123.4       | 37.2  |
| Red maple/central hardwood     | 4.2              | .0          | .0                   | .0          | 4.2         | 100.0 |
| Mixed central hardwoods        | 61.9             | 81.6        | .0                   | .0          | 143.5       | 28.3  |
| Oak/hickory group              | 158.4            | 128.1       | .9                   | .0          | 287.4       | 21.4  |
| Black ash/Amer. elm/red maple  | 14.2             | .7          | .0                   | .0          | 14.9        | 67.7  |
| Red maple(lowland)             | 5.3              | .0          | .0                   | .0          | 5.3         | 100.0 |
| Elm/ash/red maple group        | 19.5             | .7          | .0                   | .0          | 20.2        | 56.4  |
| Sugar maple/beech/yellow birch | 1,170.9          | 574.0       | 25.2                 | .0          | 1,770.1     | 7.7   |
| Black Cherry                   | 14.8             | .0          | 2.3                  | .0          | 17.1        | 81.3  |
| Red maple/northern hardwoods   | 232.4            | 197.8       | 21.8                 | .0          | 452.1       | 16.6  |
| Mixed northern hardwoods       | 92.8             | 76.1        | 12.3                 | .0          | 181.2       | 27.2  |
| Northern hardwoods group       | 1,510.9          | 848.0       | 61.6                 | .0          | 2,420.5     | 6.0   |
| Aspen                          | 43.7             | 50.2        | 5.6                  | .0          | 99.5        | 39.6  |
| Paper birch                    | 78.1             | 96.8        | 2.5                  | .0          | 177.4       | 27.2  |
| Gray birch                     | .0               | .0          | .9                   | .0          | .9          | 98.2  |
| Aspen/birch group              | 121.8            | 147.0       | 9.0                  | .0          | 277.8       | 21.9  |
| All forest types               | 2,579.2          | 1,641.8     | 100.3                | .0          | 4,321.4     | 3.5   |
| SE                             | 6.4              | 7.4         | 22.0                 | .0          | 3.5         |       |

Percent of growing-stock volume by forest-type group  
Northern Unit, New Hampshire, 1997

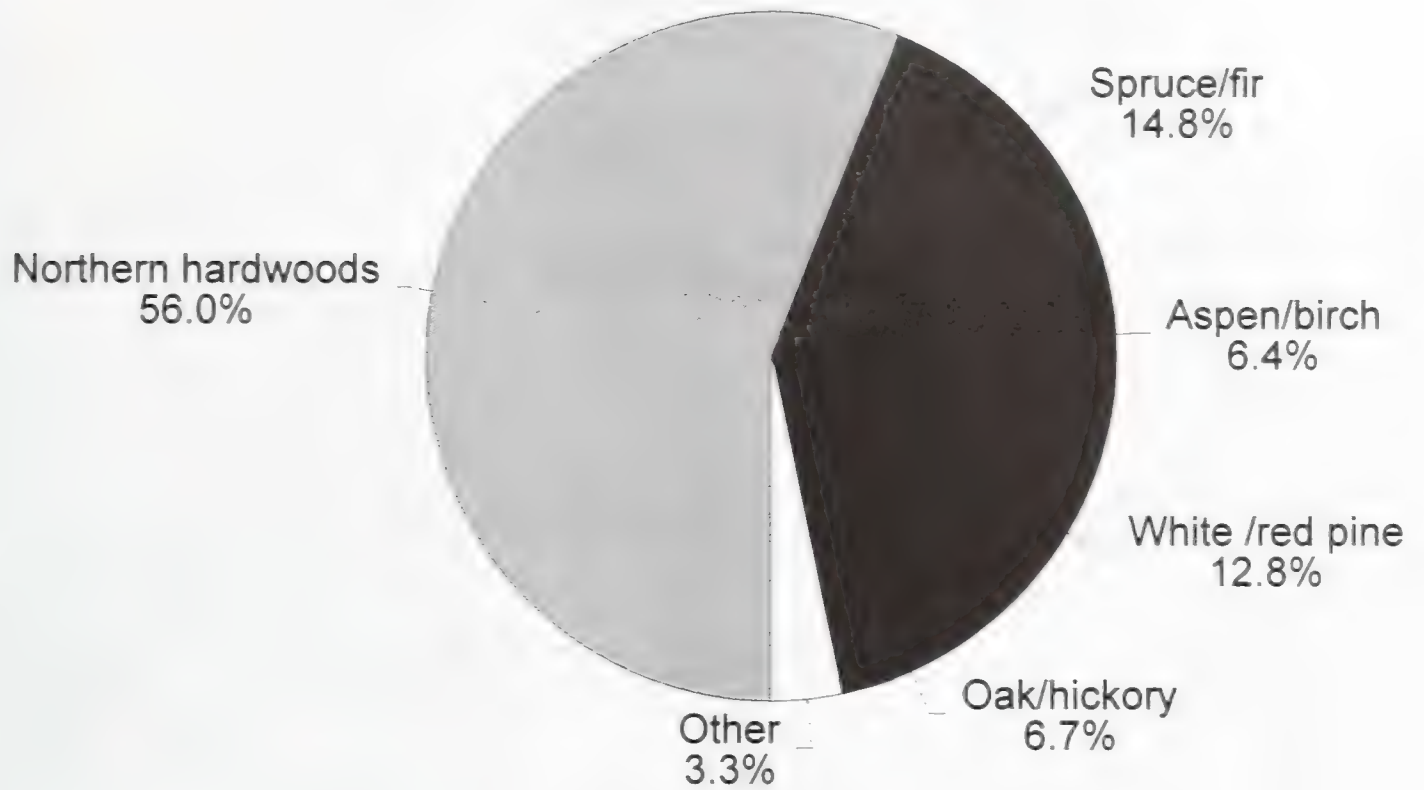


Table 49.--Net volume of growing-stock trees on timberland by species and forest-type group, Northern Unit, New Hampshire, 1983  
(In millions of cubic feet)

| Species group             | Forest-type group |              |                    |             |              |                 |                   |                    |              |                | Total      | SE |
|---------------------------|-------------------|--------------|--------------------|-------------|--------------|-----------------|-------------------|--------------------|--------------|----------------|------------|----|
|                           | White/red pine    | Spruce/fir   | Loblolly/shortleaf | Oak/pine    | Oak/hickory  | Oak/gum/cypress | Elm/ash/red maple | Northern hardwoods | Aspen/birch  | Total          |            |    |
| Balsam fir                | 5.1               | 334.7        | .0                 | .5          | 2.1          | .0              | 1.5               | 148.8              | 98.3         | 591.1          | 9.7        |    |
| Tamarack                  | .0                | 12.1         | .0                 | .0          | 1.3          | .0              | .0                | .0                 | .5           | 13.8           | 38.5       |    |
| White spruce              | .0                | 29.5         | .0                 | .9          | .0           | .0              | .0                | 2.4                | 5.0          | 37.7           | 42.4       |    |
| Black spruce              | .0                | 1.8          | .0                 | .0          | .0           | .0              | .0                | .0                 | .0           | 1.8            | 70.9       |    |
| Red spruce                | 20.9              | 236.4        | .0                 | 3.6         | 1.1          | .0              | .0                | 184.5              | 66.0         | 512.5          | 10.6       |    |
| Red pine                  | 12.7              | .0           | .0                 | 2.7         | .7           | .0              | .0                | 2.2                | .0           | 18.3           | 58.7       |    |
| White pine                | 127.1             | 30.8         | 1.9                | 45.5        | 22.1         | .0              | 1.4               | 89.6               | 22.9         | 341.3          | 16.4       |    |
| Northern white-cedar      | .0                | 6.0          | .0                 | .0          | .0           | .0              | .0                | 1.2                | 4.4          | 11.6           | 49.7       |    |
| Hemlock                   | 46.9              | 9.2          | .0                 | .7          | 6.8          | .0              | .0                | 129.1              | 5.2          | 197.9          | 14.4       |    |
| Other softwoods           | .5                | .0           | 25.7               | .0          | 1.2          | .0              | .0                | .0                 | .0           | 27.4           | 65.0       |    |
| <b>Total softwoods</b>    | <b>213.2</b>      | <b>660.3</b> | <b>27.6</b>        | <b>54.0</b> | <b>35.3</b>  | <b>.0</b>       | <b>3.0</b>        | <b>558.0</b>       | <b>202.3</b> | <b>1,753.6</b> | <b>6.3</b> |    |
| Sugar maple               | 1.4               | 2.8          | .0                 | .5          | 2.0          | .0              | .0                | 464.4              | 8.6          | 479.8          | 12.5       |    |
| Red maple                 | 28.3              | 22.4         | 1.5                | 15.6        | 16.1         | .0              | 5.6               | 396.2              | 46.3         | 532.1          | 9.3        |    |
| Yellow birch              | 2.3               | 16.9         | .0                 | .0          | .7           | .0              | .0                | 326.7              | 30.2         | 376.7          | 10.6       |    |
| Paper birch               | 12.9              | 48.6         | .0                 | 1.9         | 5.1          | .0              | .0                | 135.4              | 192.2        | 396.2          | 11.4       |    |
| Beech                     | .0                | .0           | .0                 | .9          | 3.7          | .0              | .0                | 275.3              | 1.0          | 280.9          | 14.3       |    |
| White ash                 | .7                | .4           | .0                 | 6.9         | .7           | .0              | .0                | 102.2              | 5.6          | 116.5          | 25.7       |    |
| Black ash                 | .6                | 5.9          | .0                 | .0          | .0           | .0              | .0                | 2.8                | .6           | 10.0           | 38.6       |    |
| Aspen                     | 6.6               | 15.4         | .0                 | 3.6         | 9.9          | .0              | .0                | 62.9               | 106.9        | 205.3          | 17.0       |    |
| White oaks                | .0                | .0           | .0                 | .0          | .8           | .0              | .0                | .2                 | .0           | 1.1            | 80.6       |    |
| Red oaks                  | 9.4               | .2           | .0                 | 8.0         | 93.6         | .0              | .0                | 45.8               | .6           | 157.6          | 20.8       |    |
| Basswood                  | .0                | .0           | .0                 | .0          | .0           | .0              | .0                | 4.6                | .0           | 4.6            | 68.7       |    |
| Elm                       | .0                | .0           | .0                 | .0          | .2           | .0              | .0                | 1.7                | .2           | 2.1            | 53.8       |    |
| Other hardwoods           | 1.0               | 2.6          | .0                 | .6          | 2.6          | .0              | 5.8               | 18.8               | 5.0          | 36.4           | 22.7       |    |
| <b>Total hardwoods</b>    | <b>63.1</b>       | <b>115.2</b> | <b>1.5</b>         | <b>38.0</b> | <b>135.6</b> | <b>.0</b>       | <b>11.4</b>       | <b>1,837.2</b>     | <b>397.3</b> | <b>2,599.3</b> | <b>4.4</b> |    |
| <b>Total, all species</b> | <b>276.3</b>      | <b>775.5</b> | <b>29.1</b>        | <b>92.0</b> | <b>170.8</b> | <b>.0</b>       | <b>14.3</b>       | <b>2,395.1</b>     | <b>599.6</b> | <b>4,352.9</b> | <b>2.7</b> |    |
| SE                        | 28.7              | 14.4         | 70.5               | 46.4        | 29.6         | .0              | 71.5              | 6.6                | 17.3         | 2.7            |            |    |

Table 50.--Net volume of growing-stock trees on timberland by species and forest-type group, Northern Unit, New Hampshire, 1997  
(In millions of cubic feet)

| Species group             | Forest-type group |              |                    |             |              |                 |                   |                    |              |                | Total      | SE |
|---------------------------|-------------------|--------------|--------------------|-------------|--------------|-----------------|-------------------|--------------------|--------------|----------------|------------|----|
|                           | White/red pine    | Spruce/fir   | Loblolly/shortleaf | Oak/pine    | Oak/hickory  | Oak/gum/cypress | Elm/ash/red maple | Northern hardwoods | Aspen/birch  |                |            |    |
| Balsam fir                | 11.7              | 284.1        | .0                 | 4.5         | .5           | .0              | .4                | 116.5              | 38.1         | 455.7          | 9.8        |    |
| Tamarack                  | 3.4               | 2.7          | .0                 | .8          | .0           | .0              | .0                | .6                 | .0           | 7.5            | 47.0       |    |
| White spruce              | .4                | 22.6         | .0                 | .0          | .2           | .0              | .0                | 2.2                | 8.4          | 33.8           | 43.6       |    |
| Red spruce                | 25.3              | 165.0        | .0                 | .0          | 2.9          | .0              | .0                | 150.7              | 25.4         | 369.3          | 10.7       |    |
| Red pine                  | 8.9               | .0           | .0                 | .0          | 6.0          | .0              | .0                | 6.1                | .0           | 21.2           | 42.3       |    |
| White pine                | 209.2             | 35.4         | 2.1                | 45.8        | 39.8         | .0              | .4                | 75.0               | 7.0          | 414.7          | 12.0       |    |
| Northern white-cedar      | .6                | 9.9          | .0                 | .0          | .0           | .0              | .0                | 2.5                | .4           | 13.3           | 59.6       |    |
| Hemlock                   | 159.9             | 8.5          | .0                 | .7          | 16.5         | .0              | 1.5               | 125.2              | 13.6         | 325.9          | 14.5       |    |
| Other softwoods           | .0                | .0           | 30.1               | .0          | .6           | .0              | .0                | .0                 | .0           | 30.6           | 56.2       |    |
| <b>Total softwoods</b>    | <b>419.5</b>      | <b>528.2</b> | <b>32.1</b>        | <b>51.8</b> | <b>66.4</b>  | <b>.0</b>       | <b>2.3</b>        | <b>478.7</b>       | <b>92.9</b>  | <b>1,671.9</b> | <b>6.1</b> |    |
| Sugar maple               | 2.1               | 1.1          | .0                 | .2          | 6.4          | .0              | .8                | 586.5              | 3.9          | 600.9          | 10.3       |    |
| Red maple                 | 45.4              | 26.9         | 2.4                | 6.4         | 41.9         | .0              | 16.4              | 333.1              | 14.3         | 486.8          | 7.6        |    |
| Yellow birch              | 9.0               | 14.6         | .0                 | .0          | .4           | .0              | .0                | 315.2              | 23.6         | 362.7          | 8.8        |    |
| Paper birch               | 16.9              | 45.4         | .0                 | 6.1         | 13.9         | .0              | .0                | 163.1              | 88.1         | 333.5          | 9.0        |    |
| Beech                     | 15.6              | .0           | .0                 | .4          | 15.3         | .0              | .0                | 279.9              | .3           | 311.4          | 11.1       |    |
| White ash                 | 7.5               | .0           | .0                 | 2.4         | 3.4          | .0              | .0                | 116.4              | .9           | 130.5          | 23.1       |    |
| Black ash                 | .2                | 3.8          | .0                 | .0          | .0           | .0              | .0                | 1.0                | .7           | 5.6            | 47.0       |    |
| Aspen                     | 14.7              | 17.6         | .0                 | 4.1         | 7.6          | .0              | .0                | 68.5               | 48.3         | 160.8          | 16.3       |    |
| White oaks                | .0                | .0           | .0                 | .0          | 10.1         | .0              | .0                | .2                 | .0           | 10.3           | 57.9       |    |
| Red oaks                  | 15.7              | .0           | .2                 | 16.1        | 121.5        | .0              | .2                | 48.3               | 1.1          | 203.1          | 14.8       |    |
| Basswood                  | .1                | .0           | .0                 | .0          | .0           | .0              | .0                | 9.4                | .0           | 9.5            | 54.9       |    |
| Elm                       | .4                | .1           | .0                 | .5          | .2           | .0              | .0                | .0                 | .0           | 1.2            | 46.2       |    |
| Other hardwoods           | 6.6               | .8           | .0                 | .6          | .3           | .0              | .4                | 20.4               | 3.9          | 33.1           | 31.2       |    |
| <b>Total hardwoods</b>    | <b>134.2</b>      | <b>110.3</b> | <b>2.5</b>         | <b>36.8</b> | <b>221.0</b> | <b>.0</b>       | <b>17.9</b>       | <b>1,941.7</b>     | <b>184.9</b> | <b>2,649.5</b> | <b>4.4</b> |    |
| <b>Total, all species</b> | <b>553.7</b>      | <b>638.5</b> | <b>34.7</b>        | <b>88.6</b> | <b>287.4</b> | <b>.0</b>       | <b>20.2</b>       | <b>2,420.5</b>     | <b>277.8</b> | <b>4,321.4</b> | <b>3.5</b> |    |
| <b>SE</b>                 | <b>17.6</b>       | <b>13.9</b>  | <b>57.9</b>        | <b>43.7</b> | <b>21.4</b>  | <b>.0</b>       | <b>56.4</b>       | <b>6.0</b>         | <b>21.9</b>  | <b>3.5</b>     |            |    |

Table 51.--Net volume of growing-stock in the sawlog portion of sawtimber trees on timberland by species and diameter class, Northern Unit, New Hampshire, 1997

| Species group             | (In millions of cubic feet)              |              |              |              |              |              |              |             |                |             |                | All classes  | SE         |
|---------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|-------------|----------------|-------------|----------------|--------------|------------|
|                           | Diameter class (inches at breast height) |              |              |              |              |              |              |             |                |             |                |              |            |
|                           | 9.0-10.9                                 | 11.0-12.9    | 13.0-14.9    | 15.0-16.9    | 17.0-18.9    | 19.0-20.9    | 21.0-28.9    | 29.0+       |                |             |                |              |            |
| Balsam fir                | 76.4                                     | 52.1         | 16.6         | 8.5          | 4.6          | .0           | .0           | .0          | .0             | .0          | .0             | 158.3        | 11.0       |
| Tamarack                  | 1.8                                      | 1.6          | .0           | 1.1          | .0           | .0           | .0           | .0          | .0             | .0          | .0             | 4.5          | 52.8       |
| White spruce              | 5.8                                      | 5.3          | 3.4          | 3.4          | .0           | 2.2          | 3.9          | .0          | .0             | .0          | .0             | 24.0         | 47.1       |
| Red spruce                | 65.0                                     | 60.4         | 38.1         | 17.1         | 11.2         | 4.3          | .0           | .0          | .0             | .0          | .0             | 196.0        | 12.1       |
| Red pine                  | 2.3                                      | 2.4          | 3.8          | 1.1          | .0           | .0           | .0           | .0          | .0             | .0          | .0             | 13.9         | 45.5       |
| White pine                | 28.5                                     | 32.2         | 51.7         | 43.2         | 35.0         | 16.4         | 87.4         | 35.2        | .0             | .0          | .0             | 329.6        | 12.8       |
| Northern white-cedar      | 3.4                                      | 1.8          | .0           | .8           | 1.7          | .0           | .0           | .0          | .0             | .0          | .0             | 7.7          | 54.8       |
| Hemlock                   | 42.8                                     | 46.4         | 42.7         | 34.2         | 25.9         | 28.1         | 20.5         | 3.9         | .0             | .0          | .0             | 244.5        | 15.3       |
| Other softwoods           | 2.7                                      | 2.2          | 1.9          | 6.7          | 1.5          | 1.5          | 2.1          | .0          | .0             | .0          | .0             | 18.6         | 64.6       |
| <b>Total softwoods</b>    | <b>228.7</b>                             | <b>204.6</b> | <b>158.3</b> | <b>116.0</b> | <b>79.9</b>  | <b>52.5</b>  | <b>118.1</b> | <b>39.1</b> | <b>7.1</b>     | <b>5.7</b>  | <b>284.6</b>   | <b>997.1</b> | <b>7.1</b> |
| Sugar maple               | .0                                       | 80.4         | 51.6         | 42.1         | 28.2         | 26.3         | 50.2         | 5.7         | .0             | .0          | .0             | 156.5        | 12.3       |
| Red maple                 | .0                                       | 48.3         | 51.2         | 25.8         | 17.0         | 7.5          | 6.7          | .0          | .0             | .0          | .0             | 170.5        | 11.5       |
| Yellow birch              | .0                                       | 39.8         | 36.4         | 31.1         | 17.3         | 18.7         | 25.5         | 1.8         | .0             | .0          | .0             | 87.5         | 15.2       |
| Paper birch               | .0                                       | 46.9         | 27.5         | 13.1         | .0           | .0           | .0           | .0          | .0             | .0          | .0             | 132.0        | 14.8       |
| Beech                     | .0                                       | 40.2         | 28.9         | 31.8         | 16.5         | 7.4          | 7.2          | 9.3         | .0             | .0          | .0             | 67.5         | 34.8       |
| White ash                 | .0                                       | 21.4         | 15.3         | 7.5          | 7.4          | 1.5          | 5.1          | .0          | .0             | .0          | .0             | 71.4         | 24.0       |
| Aspen                     | .0                                       | 22.6         | 26.7         | 11.9         | 3.7          | 3.6          | 2.9          | .0          | .0             | .0          | .0             | 7.1          | 68.5       |
| White oaks                | .0                                       | 1.2          | .5           | .0           | .0           | 1.2          | .0           | .0          | .0             | .0          | .0             | 104.2        | 18.6       |
| Red oaks                  | .0                                       | 21.9         | 29.2         | 16.7         | 20.9         | 1.5          | 6.6          | 7.4         | .0             | .0          | .0             | 6.0          | 67.2       |
| Basswood                  | .0                                       | .4           | 1.0          | .0           | 4.6          | .0           | .0           | .0          | .0             | .0          | .0             | 15.8         | 48.5       |
| Other hardwoods           | .0                                       | 4.4          | 6.4          | 1.5          | 1.5          | 2.0          | .0           | .0          | .0             | .0          | .0             | 6.6          | 6.6        |
| <b>Total hardwoods</b>    | <b>.0</b>                                | <b>327.6</b> | <b>274.5</b> | <b>181.5</b> | <b>117.0</b> | <b>69.8</b>  | <b>104.2</b> | <b>28.3</b> | <b>1,103.0</b> | <b>67.4</b> | <b>2,100.1</b> | <b>4.7</b>   | <b>4.7</b> |
| <b>Total, all species</b> | <b>228.7</b>                             | <b>532.2</b> | <b>432.8</b> | <b>297.5</b> | <b>196.9</b> | <b>122.3</b> | <b>222.3</b> | <b>67.4</b> | <b>2,100.1</b> | <b>67.4</b> | <b>2,100.1</b> | <b>4.7</b>   | <b>4.7</b> |
| SE                        | 7.7                                      | 5.1          | 5.9          | 7.4          | 10.6         | 13.7         | 13.9         | 30.6        | 4.7            | 4.7         | 4.7            | 4.7          | 4.7        |

Sawtimber volume on timberland, for selected species and percent change, Northern Unit of New Hampshire, 1983 and 1997  
 (Volume increased by 11.5 percent for all species)

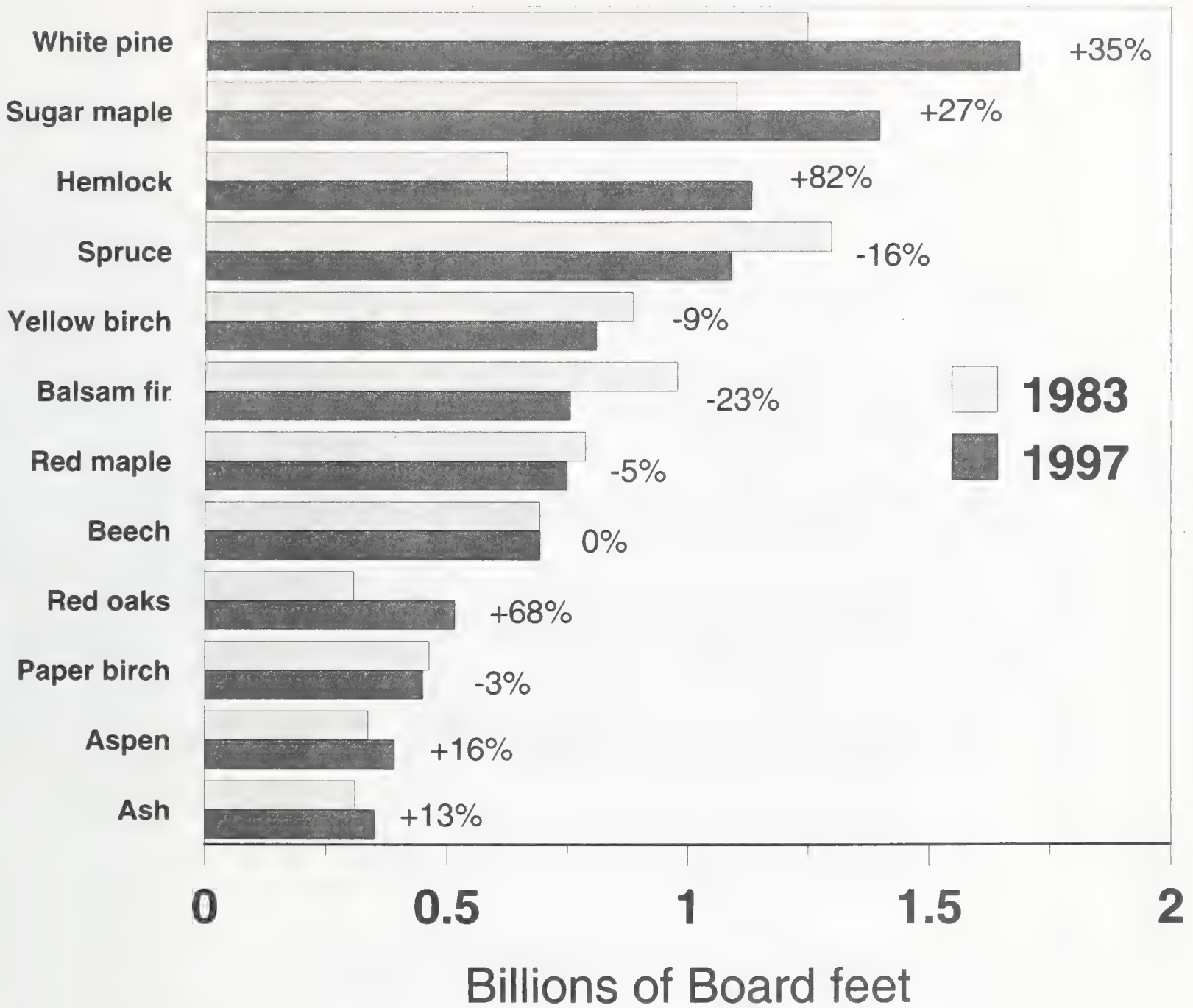


Table 52.--Net volume of sawtimber trees on timberland by species and diameter class, Northern Unit, New Hampshire, 1983

| Species group             | (In millions of board feet)              |                |                |                |               |               |               |              |              |                | All classes | SE         |
|---------------------------|--|----------------|----------------|----------------|---------------|---------------|---------------|--------------|--------------|----------------|-------------|------------|
|                           | Diameter class (inches at breast height) |                |                |                |               |               |               |              |              |                |             |            |
|                           | 9.0-<br>10.9                             | 11.0-<br>12.9  | 13.0-<br>14.9  | 15.0-<br>16.9  | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0+        |              |                |             |            |
| Balsam fir                | 505.7                                    | 326.9          | 109.3          | 31.0           | 4.8           | .0            | .0            | .0           | .0           | .0             | 977.8       | 12.0       |
| Tamarack                  | 14.1                                     | 4.9            | 3.5            | 4.2            | 5.1           | .0            | .0            | .0           | .0           | .0             | 31.7        | 35.2       |
| White spruce              | 21.8                                     | 50.0           | 15.5           | .0             | .0            | .0            | .0            | .0           | .0           | .0             | 87.3        | 44.8       |
| Red spruce                | 451.6                                    | 307.3          | 197.4          | 126.3          | 74.0          | 39.0          | 15.5          | .0           | .0           | 1,211.0        | 12.8        | 60.2       |
| Red pine                  | 3.0                                      | 11.0           | 3.7            | 10.9           | 33.9          | 23.2          | .0            | .0           | .0           | 85.8           | 17.6        | 17.6       |
| White pine                | 130.7                                    | 219.0          | 144.9          | 197.7          | 158.6         | 90.1          | 288.5         | 18.5         | .0           | 1,248.0        | 61.7        | 14.9       |
| Northern white-cedar      | 5.2                                      | 5.7            | 5.5            | 2.5            | .0            | .0            | 5.2           | .0           | .0           | 24.0           | 67.7        | 91.8       |
| Hemlock                   | 82.5                                     | 117.8          | 153.4          | 90.5           | 68.6          | 32.2          | 77.6          | .0           | .0           | 622.6          | 7.5         | 7.5        |
| Other softwoods           | 3.3                                      | 7.5            | 17.3           | 8.4            | 15.2          | 10.1          | 5.8           | .0           | .0           | 67.7           |             |            |
| <b>Total softwoods</b>    | <b>1,217.9</b>                           | <b>1,050.0</b> | <b>650.6</b>   | <b>471.5</b>   | <b>360.2</b>  | <b>194.6</b>  | <b>392.6</b>  | <b>18.5</b>  | <b>18.5</b>  | <b>4,355.9</b> |             |            |
| Sugar maple               | .0                                       | 248.6          | 205.1          | 184.9          | 133.7         | 113.1         | 195.1         | 20.0         | .0           | 1,100.4        | 15.1        | 15.1       |
| Red maple                 | .0                                       | 290.0          | 195.1          | 138.0          | 81.4          | 29.6          | 43.7          | 9.1          | .0           | 787.0          | 13.1        | 13.1       |
| Yellow birch              | .0                                       | 240.7          | 237.9          | 124.3          | 92.5          | 66.1          | 97.5          | 26.3         | .0           | 885.4          | 12.0        | 12.0       |
| Paper birch               | .0                                       | 261.1          | 96.5           | 66.6           | 18.6          | 11.1          | 9.4           | .0           | .0           | 463.3          | 16.2        | 16.2       |
| Beech                     | .0                                       | 178.2          | 199.7          | 132.5          | 111.4         | 40.2          | 22.7          | 7.6          | .0           | 692.4          | 16.0        | 16.0       |
| White ash                 | .0                                       | 67.5           | 94.5           | 58.1           | 37.7          | .0            | 16.0          | 33.1         | .0           | 306.9          | 31.3        | 31.3       |
| Black ash                 | .0                                       | 2.9            | .0             | .0             | .0            | .0            | .0            | .0           | .0           | 2.9            | 100.0       | 100.0      |
| Aspen                     | .0                                       | 149.0          | 99.5           | 65.9           | 16.3          | 6.2           | .0            | .0           | .0           | 337.0          | 24.1        | 24.1       |
| White oaks                | .0                                       | .0             | 3.5            | .0             | .0            | .0            | .0            | .0           | .0           | 3.5            | 100.0       | 100.0      |
| Red oaks                  | .0                                       | 77.4           | 63.3           | 74.5           | 50.9          | 18.8          | 22.3          | .0           | .0           | 307.1          | 19.4        | 19.4       |
| Basswood                  | .0                                       | .0             | 5.8            | .0             | 7.5           | .0            | .0            | 6.4          | .0           | 19.7           | 74.9        | 74.9       |
| Elm                       | .0                                       | 4.3            | .0             | .0             | .0            | .0            | .0            | .0           | .0           | 4.3            | 71.2        | 71.2       |
| Other hardwoods           | .0                                       | 20.0           | 8.7            | 3.1            | .0            | 5.0           | 6.9           | .0           | .0           | 43.7           | 44.5        | 44.5       |
| <b>Total hardwoods</b>    | <b>.0</b>                                | <b>1,539.8</b> | <b>1,209.6</b> | <b>847.9</b>   | <b>550.0</b>  | <b>290.2</b>  | <b>413.6</b>  | <b>102.6</b> | <b>102.6</b> | <b>4,953.7</b> | <b>6.8</b>  | <b>6.8</b> |
| <b>Total, all species</b> | <b>1,217.9</b>                           | <b>2,589.8</b> | <b>1,860.2</b> | <b>1,319.4</b> | <b>910.3</b>  | <b>484.8</b>  | <b>806.2</b>  | <b>121.1</b> | <b>121.1</b> | <b>9,309.6</b> | <b>4.3</b>  | <b>4.3</b> |
| SE                        | 8.2                                      | 5.0            | 6.0            | 8.0            | 9.8           | 13.8          | 14.0          | 31.6         | 31.6         | 4.3            |             |            |



Table 53.--Net volume of sawtimber trees on timberland by species and diameter class, Northern Unit, New Hampshire, 1997

| Species group             | (In millions of board feet)              |                |                |                |               |               |                |              |              |                 | All classes     | SE         |
|---------------------------|--|----------------|----------------|----------------|---------------|---------------|----------------|--------------|--------------|-----------------|-----------------|------------|
|                           | Diameter class (inches at breast height) |                |                |                |               |               |                |              |              |                 |                 |            |
|                           | 9.0-<br>10.9                             | 11.0-<br>12.9  | 13.0-<br>14.9  | 15.0-<br>16.9  | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9  | 29.0+        |              |                 |                 |            |
| Balsam fir                | 343.0                                    | 258.0          | 83.7           | 46.3           | 24.4          | .0            | .0             | .0           | .0           | .0              | 755.4           | 11.2       |
| Tamarack                  | 7.8                                      | 6.4            | .0             | 5.0            | .0            | .0            | .0             | .0           | .0           | .0              | 19.2            | 53.2       |
| White spruce              | 21.2                                     | 24.5           | 16.8           | 18.7           | .0            | 11.9          | 17.6           | .0           | .0           | 110.7           | 110.7           | 44.5       |
| Red spruce                | 293.6                                    | 305.5          | 200.0          | 94.2           | 59.9          | 26.5          | .0             | .0           | .0           | 979.6           | 979.6           | 12.7       |
| Red pine                  | 9.9                                      | 11.7           | 20.2           | 5.9            | .0            | .0            | .0             | .0           | .0           | 72.5            | 72.5            | 46.6       |
| White pine                | 115.5                                    | 154.6          | 253.0          | 224.2          | 185.4         | 87.9          | 490.6          | 176.4        | .0           | 1,687.6         | 1,687.6         | 13.3       |
| Northern white-cedar      | 10.2                                     | 7.7            | .0             | 2.8            | 5.3           | .0            | .0             | .0           | .0           | 26.0            | 26.0            | 54.1       |
| Hemlock                   | 164.6                                    | 201.3          | 196.4          | 164.2          | 127.8         | 144.2         | 113.9          | 20.3         | .0           | 1,132.6         | 1,132.6         | 15.9       |
| Other softwoods           | 10.6                                     | 10.1           | 9.0            | 32.4           | 7.9           | 7.5           | 10.7           | .0           | .0           | 88.2            | 88.2            | 67.0       |
| <b>Total softwoods</b>    | <b>976.2</b>                             | <b>979.9</b>   | <b>779.1</b>   | <b>593.6</b>   | <b>410.8</b>  | <b>277.9</b>  | <b>657.6</b>   | <b>196.7</b> | <b>196.7</b> | <b>4,871.7</b>  | <b>4,871.7</b>  | <b>7.4</b> |
| Sugar maple               | .0                                       | 390.9          | 246.4          | 199.2          | 134.1         | 128.9         | 267.6          | 31.1         | .0           | 1,398.2         | 1,398.2         | 12.5       |
| Red maple                 | .0                                       | 234.5          | 248.8          | 124.5          | 80.1          | 32.6          | 28.0           | .0           | .0           | 748.4           | 748.4           | 11.8       |
| Yellow birch              | .0                                       | 200.8          | 163.2          | 139.4          | 80.6          | 92.1          | 124.9          | 8.3          | .0           | 809.3           | 809.3           | 11.7       |
| Paper birch               | .0                                       | 248.8          | 137.7          | 63.9           | .0            | .0            | .0             | .0           | .0           | 450.3           | 450.3           | 14.9       |
| Beech                     | .0                                       | 209.5          | 144.1          | 160.5          | 93.3          | 45.8          | 39.8           | .0           | .0           | 693.0           | 693.0           | 15.4       |
| White ash                 | .0                                       | 104.8          | 77.1           | 34.5           | 42.5          | 9.4           | 27.7           | 55.0         | .0           | 350.9           | 350.9           | 37.2       |
| Aspen                     | .0                                       | 126.0          | 141.6          | 64.7           | 22.3          | 21.1          | 15.7           | .0           | .0           | 391.5           | 391.5           | 25.9       |
| White oaks                | .0                                       | 5.8            | 2.9            | .0             | .0            | 7.5           | .0             | 30.3         | .0           | 46.5            | 46.5            | 72.7       |
| Red oaks                  | .0                                       | 108.0          | 143.6          | 85.0           | 102.2         | 8.8           | 37.8           | 31.0         | .0           | 516.4           | 516.4           | 18.6       |
| Basswood                  | .0                                       | 1.9            | 5.9            | .0             | 26.4          | .0            | .0             | .0           | .0           | 34.2            | 34.2            | 68.2       |
| Other hardwoods           | .0                                       | 20.7           | 26.0           | 7.8            | 5.6           | 9.7           | .0             | .0           | .0           | 69.6            | 69.6            | 50.5       |
| <b>Total hardwoods</b>    | <b>.0</b>                                | <b>1,651.6</b> | <b>1,337.2</b> | <b>879.4</b>   | <b>587.0</b>  | <b>355.8</b>  | <b>541.6</b>   | <b>155.7</b> | <b>155.7</b> | <b>5,508.5</b>  | <b>5,508.5</b>  | <b>6.7</b> |
| <b>Total, all species</b> | <b>976.2</b>                             | <b>2,631.5</b> | <b>2,116.3</b> | <b>1,473.0</b> | <b>997.8</b>  | <b>633.7</b>  | <b>1,199.3</b> | <b>352.4</b> | <b>352.4</b> | <b>10,380.2</b> | <b>10,380.2</b> | <b>4.9</b> |
| SE                        | 8.2                                      | 5.2            | 6.0            | 7.5            | 11.0          | 13.9          | 14.2           | 31.6         | 31.6         | 4.9             | 4.9             |            |

Table 54.--Average annual net change of growing-stock volume on timberland by species and component of change, Northern Unit, New Hampshire, 1997

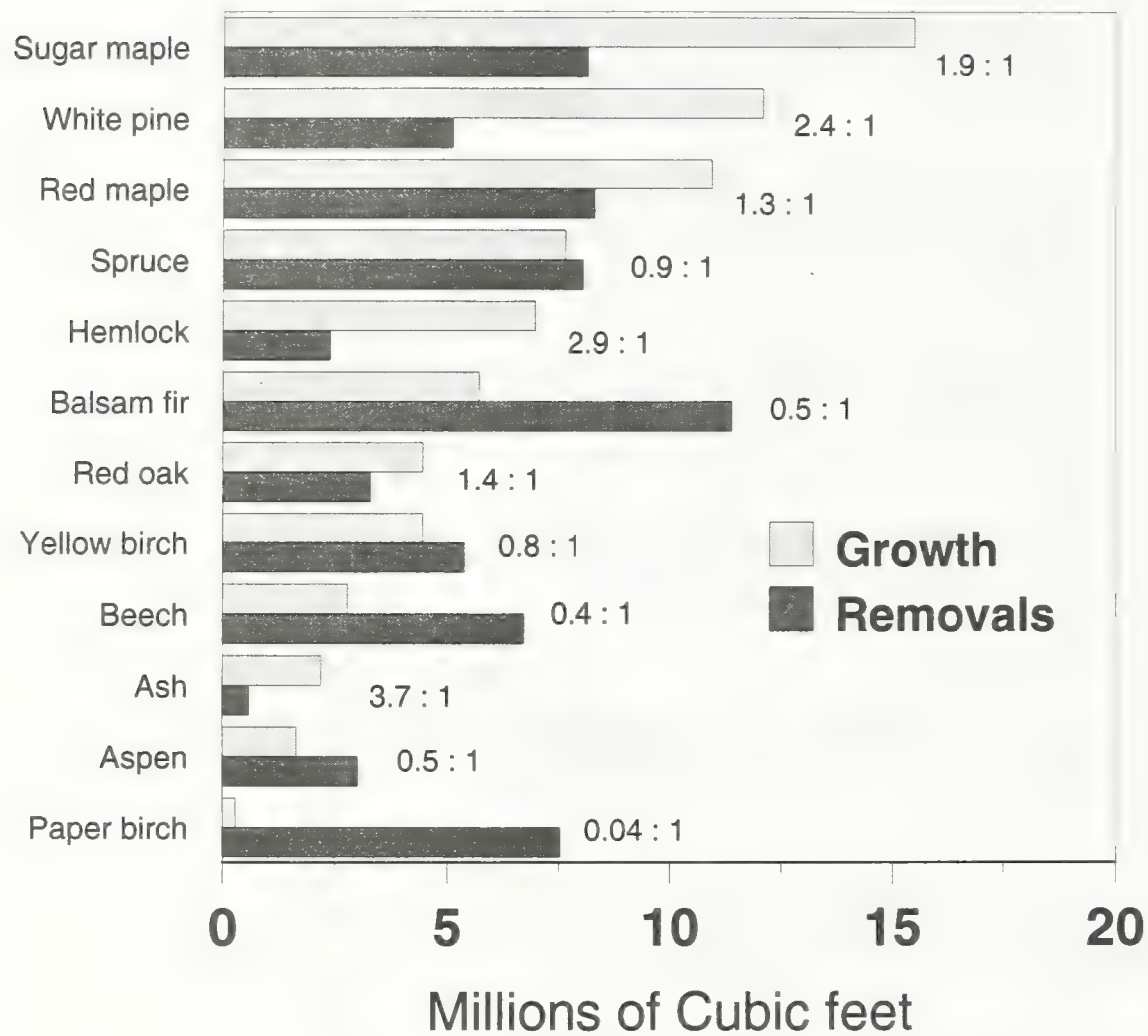
| Species group             | (In thousands of cubic feet) |               |                |                |                |                |               |                | Net change    |
|---------------------------|------------------------------|---------------|----------------|----------------|----------------|----------------|---------------|----------------|---------------|
|                           | Component of change          |               |                |                |                |                |               |                |               |
|                           | Ingrowth                     | Accretion     | Gross growth   | Mortality      | Cull decrement | Cull increment | Net growth    | Removals       |               |
| Balsam fir                | 9,521                        | 7,602         | 17,123         | -11,670        | 492            | -228           | 5,717         | -11,393        | -5,676        |
| Tamarack                  | 119                          | 201           | 320            | -130           | 134            | -77            | 247           | -308           | -60           |
| White spruce              | 373                          | 498           | 872            | -88            | 666            | 0              | 1,450         | -564           | 886           |
| Black spruce              | 0                            | 0             | 0              | 0              | 0              | 0              | 0             | -116           | -116          |
| Red spruce                | 3,391                        | 5,666         | 9,057          | -3,535         | 878            | -208           | 6,192         | -7,379         | -1,187        |
| Red pine                  | 495                          | 55            | 550            | -215           | 0              | 0              | 335           | -660           | -325          |
| White pine                | 3,275                        | 8,786         | 12,060         | -1,373         | 1,593          | -195           | 12,085        | -5,117         | 6,968         |
| Northern white-cedar      | 109                          | 268           | 377            | -200           | 0              | 0              | 176           | -17            | 159           |
| Hemlock                   | 2,361                        | 4,619         | 6,979          | -535           | 662            | -135           | 6,971         | -2,390         | 4,581         |
| Other softwoods           | 167                          | 277           | 444            | -26            | 21             | 0              | 439           | -37            | 402           |
| <b>Total softwoods</b>    | <b>19,811</b>                | <b>27,971</b> | <b>47,782</b>  | <b>-17,773</b> | <b>4,446</b>   | <b>-843</b>    | <b>33,613</b> | <b>-27,981</b> | <b>5,632</b>  |
| Sugar maple               | 6,017                        | 8,988         | 15,006         | -673           | 2,453          | -1,304         | 15,482        | -8,150         | 7,332         |
| Red maple                 | 4,296                        | 7,437         | 11,734         | -1,857         | 2,554          | -1,486         | 10,945        | -8,314         | 2,631         |
| Yellow birch              | 3,501                        | 3,653         | 7,154          | -2,631         | 1,775          | -1,841         | 4,457         | -5,383         | -927          |
| Paper birch               | 2,583                        | 2,537         | 5,120          | -3,603         | 373            | -1,599         | 291           | -7,529         | -7,237        |
| Beech                     | 2,595                        | 2,883         | 5,478          | -2,545         | 2,215          | -2,368         | 2,779         | -6,722         | -3,942        |
| White ash                 | 1,433                        | 1,139         | 2,572          | -299           | 62             | 0              | 2,336         | -518           | 1,817         |
| Black ash                 | 0                            | 16            | 16             | -160           | 0              | 0              | -144          | -70            | -214          |
| Aspen                     | 1,913                        | 1,229         | 3,143          | -1,863         | 415            | -46            | 1,648         | -3,007         | -1,358        |
| White oaks                | 33                           | -103          | -71            | 0              | 0              | 0              | -71           | -136           | -207          |
| Red oaks                  | 1,932                        | 2,348         | 4,280          | -43            | 289            | -66            | 4,459         | -3,287         | 1,172         |
| Basswood                  | 109                          | 88            | 197            | 0              | 29             | 0              | 225           | 0              | 225           |
| Elm                       | 0                            | 0             | 0              | -160           | 53             | 0              | -107          | 0              | -107          |
| Other hardwoods           | 201                          | 138           | 338            | -311           | 219            | -216           | 30            | -509           | -479          |
| <b>Total hardwoods</b>    | <b>24,614</b>                | <b>30,354</b> | <b>54,968</b>  | <b>-14,147</b> | <b>10,437</b>  | <b>-8,927</b>  | <b>42,331</b> | <b>-43,626</b> | <b>-1,295</b> |
| <b>Total, all species</b> | <b>44,424</b>                | <b>58,326</b> | <b>102,750</b> | <b>-31,920</b> | <b>14,883</b>  | <b>-9,770</b>  | <b>75,944</b> | <b>-71,607</b> | <b>4,337</b>  |

Table 55.--Average annual net change of sawtimber volume on timberland by species and component of change, Northern Unit, New Hampshire, 1997

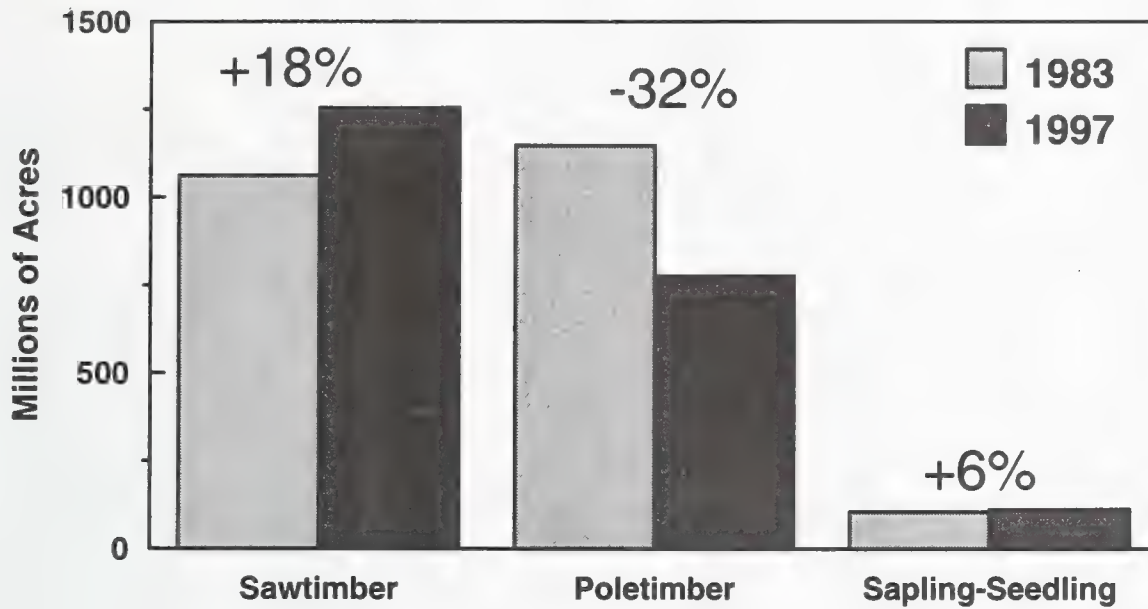
| Species group             | Component of change<br>(In thousands of board feet) |                |                |                |                |                |                |                 | Net change    |
|---------------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|---------------|
|                           | Ingrowth  | Accretion      | Gross growth   | Mortality      | Cull decrement | Cull increment | Net growth     | Removals        |               |
| Balsam fir                | 22,854  | 12,874         | 35,729         | -22,845        | 136            | -166           | 12,855         | -22,618         | -9,764        |
| Tamarack                  | 511   | 507            | 1,017          | -317           | 635            | 0              | 1,337          | -1,127          | 210           |
| White spruce              | 1,767   | 2,082          | 3,849          | -220           | 2,804          | 0              | 6,433          | -1,873          | 4,560         |
| Red spruce                | 12,020  | 17,305         | 29,325         | -10,074        | 1,945          | -342           | 20,854         | -18,882         | 1,972         |
| Red pine                  | 0   | 199            | 199            | -965           | 0              | 0              | -766           | -3,095          | -3,861        |
| White pine                | 14,276  | 39,404         | 53,680         | -5,630         | 6,415          | -519           | 53,945         | -19,226         | 34,719        |
| Northern white-cedar      | 335   | 1,887          | 2,222          | -383           | 0              | 0              | 1,838          | -34             | 1,804         |
| Hemlock                   | 9,243   | 18,946         | 28,189         | -1,843         | 1,474          | -491           | 27,329         | -8,921          | 18,408        |
| Other softwoods           | 489   | 1,299          | 1,788          | 0              | 71             | 0              | 1,859          | 0               | 1,859         |
| <b>Total softwoods</b>    | <b>61,494</b>                                       | <b>94,502</b>  | <b>155,997</b> | <b>-42,277</b> | <b>13,481</b>  | <b>-1,517</b>  | <b>125,684</b> | <b>-75,777</b>  | <b>49,907</b> |
| Sugar maple               | 26,823  | 12,717         | 39,540         | -242           | 5,488          | -4,428         | 40,359         | -20,011         | 20,348        |
| Red maple                 | 17,083  | 10,089         | 27,172         | -2,378         | 4,604          | -4,235         | 25,163         | -14,529         | 10,635        |
| Yellow birch              | 13,643  | 6,222          | 19,866         | -5,838         | 4,838          | -4,614         | 14,252         | -17,254         | -3,002        |
| Paper birch               | 9,370   | 1,290          | 10,660         | -1,408         | 480            | -3,457         | 6,274          | -16,611         | -10,336       |
| Beech                     | 12,965  | 6,327          | 19,292         | -8,815         | 964            | -5,419         | 6,022          | -15,881         | -9,859        |
| White ash                 | 9,066   | 4,518          | 13,584         | -363           | 238            | 0              | 13,459         | -1,353          | 12,106        |
| Black ash                 | 0   | 0              | 0              | 0              | 0              | 0              | 0              | -269            | -269          |
| Aspen                     | 11,566  | 4,155          | 15,722         | -2,299         | 619            | 0              | 14,042         | -3,732          | 10,310        |
| White oaks                | 171   | 0              | 171            | 0              | 0              | 0              | 171            | 0               | 171           |
| Red oaks                  | 9,814   | 4,983          | 14,797         | -169           | 0              | -261           | 14,366         | -7,455          | 6,911         |
| Basswood                  | 478   | -20            | 457            | 0              | 0              | 0              | 457            | 0               | 457           |
| Elm                       | 0   | 0              | 0              | -294           | 0              | 0              | -294           | 0               | -294          |
| Other hardwoods           | 396   | 43             | 440            | -1,206         | 701            | -898           | -963           | -1,098          | -2,062        |
| <b>Total hardwoods</b>    | <b>111,375</b>                                      | <b>50,325</b>  | <b>161,700</b> | <b>-23,013</b> | <b>17,933</b>  | <b>-23,312</b> | <b>133,308</b> | <b>-98,193</b>  | <b>35,115</b> |
| <b>Total, all species</b> | <b>172,869</b>                                      | <b>144,828</b> | <b>317,697</b> | <b>-65,290</b> | <b>31,414</b>  | <b>-24,829</b> | <b>258,992</b> | <b>-173,970</b> | <b>85,022</b> |

# Average annual growth and removals of growing-stock volume

and ratio of growth to removals for selected species on timberland, Northern Unit of New Hampshire, 1983-97  
(Ratio of growth/removals for all species is 1.1 : 1)



# SOUTHERN UNIT TABLES



Southern Unit, area of timberland by stand-size class, 1983 and 1997



Table 56.--Area of timberland by forest type, forest-type group, and stand-size class, Southern Unit, New Hampshire, 1983

(In thousands of acres)

| Forest type                    | Stand-size class |             |                      |             | All classes | SE    |
|--------------------------------|------------------|-------------|----------------------|-------------|-------------|-------|
|                                | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |       |
| Red pine                       | 14.4             | .0          | .0                   | .0          | 14.4        | 70.7  |
| White pine                     | 312.8            | 63.9        | 7.3                  | .0          | 384.0       | 12.4  |
| White pine/hemlock             | 70.2             | 28.3        | .0                   | .0          | 98.5        | 26.1  |
| Hemlock                        | 78.9             | 25.0        | .0                   | .0          | 103.9       | 24.7  |
| White/red pine group           | 476.3            | 117.2       | 7.3                  | .0          | 600.8       | 9.3   |
| Red spruce                     | .0               | 18.7        | .0                   | .0          | 18.7        | 58.7  |
| Red spruce/balsam fir          | 7.3              | .0          | .0                   | .0          | 7.3         | 100.0 |
| Spruce/fir group               | 7.3              | 18.7        | .0                   | .0          | 26.0        | 50.7  |
| Wh. pine/no.red oak/wh. ash    | 65.2             | 57.5        | .0                   | .0          | 122.7       | 23.6  |
| Other oak/pine                 | .0               | 7.3         | .0                   | .0          | 7.3         | 100.0 |
| Oak/pine group                 | 65.2             | 64.8        | .0                   | .0          | 130.0       | 22.7  |
| Post, black, or bear oak       | 7.3              | 14.5        | .0                   | .0          | 21.8        | 57.7  |
| Chestnut oak                   | .0               | 7.1         | .0                   | .0          | 7.1         | 100.0 |
| White oak/red oak/hickory      | 21.6             | 42.8        | .0                   | .0          | 64.4        | 32.7  |
| Northern red oak               | 29.0             | 64.3        | .0                   | .0          | 93.3        | 27.7  |
| Scarlet oak                    | .0               | 7.1         | .0                   | .0          | 7.1         | 100.0 |
| Red maple/central hardwood     | .0               | 7.3         | 7.2                  | .0          | 14.5        | 70.7  |
| Mixed central hardwoods        | 86.7             | 122.1       | 6.9                  | .0          | 215.7       | 17.4  |
| Oak/hickory group              | 144.6            | 265.3       | 14.1                 | .0          | 423.9       | 11.7  |
| Black ash/Amer. elm/red maple  | .0               | 12.6        | .0                   | .0          | 12.6        | 70.8  |
| Red maple(lowland)             | .0               | 14.2        | 2.9                  | .0          | 17.1        | 61.1  |
| Red maple(upland)              | .0               | 14.3        | .0                   | .0          | 14.3        | 70.7  |
| Elm/ash/red maple group        | .0               | 41.1        | 2.9                  | .0          | 44.0        | 38.8  |
| Sugar maple/beech/yellow birch | 194.2            | 157.9       | 7.0                  | .0          | 359.0       | 12.9  |
| Black Cherry                   | .0               | .0          | 6.9                  | .0          | 6.9         | 100.0 |
| Red maple/northern hardwoods   | 73.0             | 256.9       | 5.3                  | .0          | 335.2       | 13.6  |
| Pin cherry/reverting field     | .0               | .0          | 25.3                 | .0          | 25.3        | 50.4  |
| Mixed northern hardwoods       | 79.2             | 130.8       | 7.3                  | .0          | 217.4       | 17.6  |
| Northern hardwoods group       | 346.4            | 545.5       | 51.8                 | .0          | 943.8       | 6.7   |
| Aspen                          | .0               | 51.1        | 7.5                  | .0          | 58.6        | 35.4  |
| Paper birch                    | 14.1             | 43.4        | .0                   | .0          | 57.5        | 34.4  |
| Gray birch                     | 7.3              | .0          | 21.9                 | .0          | 29.3        | 50.0  |
| Aspen/birch group              | 21.4             | 94.5        | 29.4                 | .0          | 145.4       | 21.6  |
| All forest types               | 1,061.3          | 1,147.1     | 105.5                | .0          | 2,313.9     | 1.2   |
| SE                             | 6.1              | 5.8         | 23.4                 | .0          | 1.2         |       |

Table 57.--Area of timberland by forest type, forest-type group, and stand-size class, Southern Unit, New Hampshire, 1997

(In thousands of acres)

| Forest type                    | Stand-size class |             |                      |             | All classes | SE    |
|--------------------------------|------------------|-------------|----------------------|-------------|-------------|-------|
|                                | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |       |
| Red pine                       | 1.8              | .0          | .0                   | .0          | 1.8         | 100.0 |
| White pine                     | 266.6            | 33.0        | 8.7                  | 5.0         | 313.3       | 12.2  |
| White pine/hemlock             | 112.4            | 29.2        | .0                   | .0          | 141.6       | 18.9  |
| Hemlock                        | 64.0             | 40.7        | .0                   | .0          | 104.7       | 22.5  |
| White/red pine group           | 444.8            | 102.9       | 8.7                  | 5.0         | 561.4       | 8.2   |
| Red spruce                     | 8.2              | 23.4        | .0                   | .0          | 31.6        | 43.2  |
| Red spruce/balsam fir          | 6.8              | .0          | .0                   | .0          | 6.8         | 100.0 |
| Spruce/fir group               | 15.1             | 23.4        | .0                   | .0          | 38.5        | 39.7  |
| Wh. pine/no.red oak/wh. ash    | 138.9            | 28.9        | .0                   | .0          | 167.8       | 17.8  |
| Other oak/pine                 | 2.1              | .0          | .0                   | .0          | 2.1         | 100.0 |
| Oak/pine group                 | 141.0            | 28.9        | .0                   | .0          | 169.9       | 17.6  |
| Post, black, or bear oak       | 4.9              | .0          | .0                   | .0          | 4.9         | 100.0 |
| White oak/red oak/hickory      | 51.7             | 12.9        | .0                   | .0          | 64.6        | 29.7  |
| White oak                      | .0               | 4.4         | .0                   | .0          | 4.4         | 100.0 |
| Northern red oak               | 77.8             | 48.2        | .0                   | .0          | 126.0       | 20.4  |
| Red maple/central hardwood     | 10.9             | 11.3        | .0                   | .0          | 22.1        | 50.9  |
| Mixed central hardwoods        | 108.2            | 98.1        | 17.1                 | .0          | 223.4       | 15.2  |
| Oak/hickory group              | 253.5            | 174.9       | 17.1                 | .0          | 445.4       | 10.1  |
| Black ash/Amer. elm/red maple  | .0               | .0          | 6.4                  | .0          | 6.4         | 100.0 |
| Red maple(lowland)             | 10.8             | 18.5        | .0                   | .0          | 29.3        | 42.5  |
| Red maple(upland)              | 7.5              | 7.6         | .0                   | .0          | 15.0        | 54.0  |
| Elm/ash/red maple group        | 18.3             | 26.1        | 6.4                  | .0          | 50.8        | 31.9  |
| Sugar maple/beech/yellow birch | 156.8            | 102.8       | 6.5                  | .0          | 266.0       | 13.8  |
| Black Cherry                   | .0               | 1.8         | .0                   | .0          | 1.8         | 100.0 |
| Red maple/northern hardwoods   | 111.9            | 192.7       | 14.5                 | .0          | 319.2       | 11.8  |
| Pin cherry/reverting field     | .0               | .0          | 6.4                  | .0          | 6.4         | 49.3  |
| Mixed northern hardwoods       | 92.9             | 92.0        | 26.9                 | .0          | 211.8       | 15.5  |
| Northern hardwoods group       | 361.5            | 389.3       | 54.4                 | .0          | 805.3       | 6.4   |
| Aspen                          | 10.6             | 26.1        | 6.4                  | .0          | 43.1        | 34.7  |
| Paper birch                    | 9.1              | 5.8         | 14.7                 | .0          | 29.5        | 40.8  |
| Gray birch                     | .0               | .0          | 4.6                  | .0          | 4.6         | 100.0 |
| Aspen/birch group              | 19.7             | 31.9        | 25.7                 | .0          | 77.2        | 25.6  |
| All forest types               | 1,253.8          | 777.3       | 112.3                | 5.0         | 2,148.5     | 1.5   |
| SE                             | 4.7              | 7.0         | 20.4                 | 100.0       | 1.5         |       |

Table 58.--Number of live trees (1.0+ inches d.b.h.) on timberland by species and diameter class, Southern Unit, New Hampshire, 1997

(In thousands of trees)

| Species group              | Diameter class (inches at breast height) |                |                |                |               |               |               |               |               |               |
|----------------------------|--|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                            | 1.0-<br>2.9                              | 3.0-<br>4.9    | 5.0-<br>6.9    | 7.0-<br>8.9    | 9.0-<br>10.9  | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 |               |               |
| Balsam fir                 | 35,670                                   | 9,788          | 3,659          | 844            | 269           | 268           | 117           | 0             | 0             | 0             |
| Tamarack                   | 0  | 0              | 35             | 74             | 35            | 0             | 0             | 0             | 0             | 0             |
| Black spruce               | 0  | 0              | 38             | 0              | 0             | 0             | 0             | 0             | 0             | 0             |
| Red spruce                 | 21,705                                   | 6,311          | 5,743          | 4,279          | 1,899         | 1,623         | 610           | 275           | 275           | 275           |
| Red pine                   | 0  | 0              | 169            | 67             | 445           | 207           | 382           | 38            | 38            | 38            |
| White pine                 | 63,200                                   | 28,322         | 19,755         | 16,773         | 12,715        | 11,014        | 8,375         | 5,641         | 5,641         | 5,641         |
| Hemlock                    | 83,238                                   | 36,834         | 21,685         | 15,188         | 9,225         | 6,482         | 3,842         | 2,150         | 2,150         | 2,150         |
| Other softwoods            | 852                                      | 0              | 222            | 0              | 0             | 98            | 66            | 29            | 29            | 29            |
| <b>Total softwoods</b>     | <b>204,664</b>                           | <b>81,255</b>  | <b>51,305</b>  | <b>37,226</b>  | <b>24,588</b> | <b>19,693</b> | <b>13,392</b> | <b>8,133</b>  | <b>8,133</b>  | <b>8,133</b>  |
| Sugar maple                | 34,933                                   | 11,313         | 5,835          | 3,493          | 2,768         | 1,223         | 789           | 459           | 459           | 459           |
| Red maple                  | 168,235                                  | 82,528         | 41,818         | 29,437         | 17,938        | 8,135         | 3,622         | 1,488         | 1,488         | 1,488         |
| Yellow birch               | 29,401                                   | 10,181         | 5,479          | 2,736          | 1,826         | 1,442         | 510           | 358           | 358           | 358           |
| Paper birch                | 23,583                                   | 3,760          | 5,769          | 5,667          | 5,025         | 2,231         | 763           | 214           | 214           | 214           |
| Beech                      | 66,565                                   | 13,425         | 7,094          | 4,180          | 2,383         | 1,591         | 951           | 678           | 678           | 678           |
| White ash                  | 20,904                                   | 8,396          | 4,544          | 2,978          | 1,956         | 1,240         | 1,124         | 315           | 315           | 315           |
| Black ash                  | 0  | 483            | 0              | 0              | 38            | 0             | 0             | 0             | 0             | 0             |
| Aspen                      | 19,564                                   | 4,711          | 2,483          | 2,632          | 2,019         | 899           | 551           | 71            | 71            | 71            |
| White oaks                 | 4,123                                    | 1,580          | 2,542          | 1,699          | 1,191         | 809           | 543           | 139           | 139           | 139           |
| Red oaks                   | 41,428                                   | 17,494         | 10,145         | 11,239         | 9,568         | 8,029         | 4,897         | 1,847         | 1,847         | 1,847         |
| Basswood                   | 2,372                                    | 0              | 467            | 258            | 174           | 171           | 98            | 0             | 0             | 0             |
| Elm                        | 4,286                                    | 2,831          | 383            | 339            | 189           | 39            | 76            | 40            | 40            | 40            |
| Other commercial hardwoods | 46,476                                   | 12,472         | 8,198          | 6,088          | 3,321         | 1,393         | 807           | 176           | 176           | 176           |
| Noncommercial hardwoods    | 81,293                                   | 15,328         | 4,688          | 889            | 397           | 99            | 27            | 0             | 0             | 0             |
| <b>Total hardwoods</b>     | <b>543,164</b>                           | <b>184,503</b> | <b>99,446</b>  | <b>71,636</b>  | <b>48,791</b> | <b>27,302</b> | <b>14,760</b> | <b>5,784</b>  | <b>5,784</b>  | <b>5,784</b>  |
| <b>Total, all species</b>  | <b>747,828</b>                           | <b>265,758</b> | <b>150,752</b> | <b>108,861</b> | <b>73,379</b> | <b>46,995</b> | <b>28,152</b> | <b>13,918</b> | <b>13,918</b> | <b>13,918</b> |
| SE                         | 4.8                                      | 5.4            | 3.1            | 3.1            | 3.1           | 3.8           | 4.5           | 6.0           | 6.0           | 6.0           |



Table 58.--continued

| Species group              | (In thousands of trees)                  |               |               |              |                |                  | All classes | SE |
|----------------------------|--|---------------|---------------|--------------|----------------|------------------|-------------|----|
|                            | Diameter class (inches at breast height) |               |               |              |                |                  |             |    |
|                            | 17.0-<br>18.9                            | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0+        | Total<br>5.0+  |                  |             |    |
| Balsam fir                 | 0  | 0             | 0             | 0            | 5,157          | 50,614           | 24.4        |    |
| Tamarack                   | 0  | 0             | 0             | 0            | 143            | 143              | 60.6        |    |
| Black spruce               | 0  | 0             | 0             | 0            | 38             | 38               | 100.0       |    |
| Red spruce                 | 109                                      | 37            | 0             | 0            | 14,577         | 42,592           | 19.8        |    |
| Red pine                   | 0  | 0             | 0             | 0            | 1,308          | 1,308            | 37.9        |    |
| White pine                 | 2,689                                    | 2,637         | 3,043         | 659          | 83,303         | 174,825          | 7.8         |    |
| Hemlock                    | 1,056                                    | 467           | 388           | 0            | 60,484         | 180,556          | 9.4         |    |
| Other softwoods            | 0  | 0             | 0             | 0            | 415            | 1,267            | 48.6        |    |
| <b>Total softwoods</b>     | <b>3,855</b>                             | <b>3,141</b>  | <b>3,431</b>  | <b>659</b>   | <b>165,424</b> | <b>451,343</b>   | <b>5.3</b>  |    |
| Sugar maple                | 147                                      | 116           | 299           | 189          | 15,317         | 61,563           | 21.8        |    |
| Red maple                  | 1,170                                    | 475           | 565           | 39           | 104,686        | 355,450          | 5.6         |    |
| Yellow birch               | 136                                      | 117           | 78            | 38           | 12,720         | 52,302           | 14.2        |    |
| Paper birch                | 196                                      | 0             | 0             | 0            | 19,864         | 47,206           | 13.7        |    |
| Beech                      | 183                                      | 107           | 142           | 0            | 17,310         | 97,300           | 11.5        |    |
| White ash                  | 113                                      | 192           | 39            | 37           | 12,538         | 41,838           | 14.2        |    |
| Black ash                  | 0  | 0             | 0             | 0            | 38             | 521              | 93.0        |    |
| Aspen                      | 0  | 39            | 0             | 0            | 8,696          | 32,971           | 31.2        |    |
| White oaks                 | 218                                      | 36            | 38            | 0            | 7,215          | 12,917           | 17.2        |    |
| Red oaks                   | 1,237                                    | 780           | 746           | 76           | 48,564         | 107,486          | 9.0         |    |
| Basswood                   | 0  | 0             | 0             | 0            | 1,169          | 3,541            | 45.1        |    |
| Elm                        | 0  | 0             | 0             | 0            | 1,067          | 8,184            | 33.8        |    |
| Other commercial hardwoods | 106                                      | 0             | 0             | 0            | 20,089         | 79,038           | 11.5        |    |
| Noncommercial hardwoods    | 0  | 0             | 0             | 0            | 6,099          | 102,720          | 13.1        |    |
| <b>Total hardwoods</b>     | <b>3,505</b>                             | <b>1,862</b>  | <b>1,907</b>  | <b>379</b>   | <b>275,372</b> | <b>1,003,038</b> | <b>3.8</b>  |    |
| <b>Total, all species</b>  | <b>7,360</b>                             | <b>5,003</b>  | <b>5,337</b>  | <b>1,038</b> | <b>440,796</b> | <b>1,454,381</b> | <b>3.1</b>  |    |
| SE                         | 8.2                                      | 10.3          | 10.1          | 20.7         | 2.2            | 3.1              |             |    |

Table 59. --Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Southern Unit, New Hampshire, 1983

| Species group             | (In thousands of trees)                  |                |               |               |               |               |              |              |              |            |                |   |   | All classes | SE     |            |
|---------------------------|--|----------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|------------|----------------|---|---|-------------|--------|------------|
|                           | Diameter class (inches at breast height) |                |               |               |               |               |              |              |              |            |                |   |   |             |        |            |
|                           | 5.0-6.9                                  | 7.0-8.9        | 9.0-10.9      | 11.0-12.9     | 13.0-14.9     | 15.0-16.9     | 17.0-18.9    | 19.0-20.9    | 21.0-28.9    | 29.0+      |                |   |   |             |        |            |
| Balsam fir                | 1,295                                    | 630            | 288           | 114           | 49            | 0             | 0            | 0            | 0            | 0          | 0              | 0 | 0 | 0           | 2,376  | 25.0       |
| Tamarack                  | 207                                      | 0              | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 0          | 0              | 0 | 0 | 0           | 207    | 100.0      |
| Black spruce              | 333                                      | 300            | 32            | 29            | 24            | 0             | 0            | 0            | 0            | 0          | 0              | 0 | 0 | 0           | 718    | 92.4       |
| Red spruce                | 5,831                                    | 3,640          | 1,423         | 798           | 279           | 82            | 19           | 71           | 16           | 0          | 0              | 0 | 0 | 0           | 12,161 | 22.0       |
| Red pine                  | 137                                      | 114            | 382           | 535           | 303           | 179           | 19           | 0            | 0            | 0          | 0              | 0 | 0 | 0           | 1,668  | 41.8       |
| White pine                | 22,253                                   | 18,717         | 14,939        | 11,309        | 7,812         | 4,761         | 2,959        | 1,501        | 1,762        | 164        | 0              | 0 | 0 | 0           | 86,177 | 8.0        |
| Hemlock                   | 16,392                                   | 11,327         | 6,707         | 4,903         | 2,377         | 1,216         | 680          | 325          | 141          | 0          | 0              | 0 | 0 | 0           | 44,069 | 10.5       |
| Other softwoods           | 205                                      | 357            | 342           | 171           | 76            | 24            | 0            | 0            | 0            | 0          | 0              | 0 | 0 | 0           | 1,175  | 47.3       |
| <b>Total softwoods</b>    | <b>46,653</b>                            | <b>35,083</b>  | <b>24,113</b> | <b>17,859</b> | <b>10,921</b> | <b>6,262</b>  | <b>3,678</b> | <b>1,897</b> | <b>1,920</b> | <b>164</b> | <b>148,551</b> |   |   |             |        | <b>5.6</b> |
| Sugar maple               | 6,612                                    | 5,191          | 3,091         | 1,592         | 903           | 297           | 157          | 104          | 88           | 25         | 18,060         |   |   |             |        | 15.4       |
| Red maple                 | 36,086                                   | 23,388         | 13,308        | 5,443         | 2,197         | 749           | 434          | 179          | 137          | 0          | 81,920         |   |   |             |        | 6.6        |
| Yellow birch              | 5,196                                    | 2,217          | 1,191         | 730           | 259           | 387           | 98           | 37           | 32           | 5          | 10,154         |   |   |             |        | 15.3       |
| Paper birch               | 10,816                                   | 7,321          | 5,646         | 1,489         | 617           | 94            | 65           | 54           | 15           | 0          | 26,119         |   |   |             |        | 10.1       |
| Beech                     | 4,935                                    | 3,399          | 1,646         | 1,142         | 816           | 414           | 144          | 0            | 46           | 0          | 12,542         |   |   |             |        | 15.0       |
| White ash                 | 5,327                                    | 3,329          | 1,687         | 999           | 594           | 205           | 114          | 0            | 67           | 0          | 12,322         |   |   |             |        | 17.1       |
| Black ash                 | 411                                      | 119            | 238           | 112           | 76            | 0             | 0            | 0            | 0            | 0          | 957            |   |   |             |        | 64.9       |
| Aspen                     | 4,452                                    | 3,945          | 1,733         | 666           | 224           | 44            | 58           | 17           | 0            | 0          | 11,141         |   |   |             |        | 23.9       |
| White oaks                | 2,960                                    | 2,875          | 1,344         | 1,045         | 329           | 267           | 83           | 18           | 12           | 30         | 8,965          |   |   |             |        | 17.0       |
| Red oaks                  | 14,014                                   | 14,504         | 9,021         | 6,467         | 3,262         | 1,480         | 921          | 233          | 421          | 0          | 50,321         |   |   |             |        | 7.9        |
| Basswood                  | 483                                      | 715            | 315           | 165           | 0             | 23            | 19           | 0            | 0            | 0          | 1,720          |   |   |             |        | 33.7       |
| Elm                       | 276                                      | 112            | 304           | 104           | 103           | 43            | 40           | 0            | 12           | 0          | 995            |   |   |             |        | 29.6       |
| Other hardwoods           | 8,361                                    | 5,407          | 3,050         | 1,102         | 352           | 224           | 80           | 0            | 0            | 0          | 18,576         |   |   |             |        | 10.3       |
| <b>Total hardwoods</b>    | <b>99,929</b>                            | <b>72,521</b>  | <b>42,575</b> | <b>21,059</b> | <b>9,731</b>  | <b>4,227</b>  | <b>2,216</b> | <b>642</b>   | <b>829</b>   | <b>61</b>  | <b>253,791</b> |   |   |             |        | <b>3.5</b> |
| <b>Total, all species</b> | <b>146,582</b>                           | <b>107,605</b> | <b>66,688</b> | <b>38,918</b> | <b>20,652</b> | <b>10,490</b> | <b>5,893</b> | <b>2,539</b> | <b>2,749</b> | <b>224</b> | <b>402,341</b> |   |   |             |        | <b>2.4</b> |
| SE                        | 3.9                                      | 3.5            | 3.7           | 3.9           | 5.0           | 6.3           | 8.1          | 10.3         | 10.3         | 27.0       | 2.4            |   |   |             |        |            |

Table 60. ---Number of growing-stock trees (5.0+ inches d.b.h.) on timberland by species and diameter class, Southern Unit, New Hampshire, 1997

| Species group             | (In thousands of trees)                  |                |               |               |               |               |              |              |              |            |                |            |   |   | All classes | SE     |       |
|---------------------------|--|----------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|------------|----------------|------------|---|---|-------------|--------|-------|
|                           | Diameter class (inches at breast height) |                |               |               |               |               |              |              |              |            |                |            |   |   |             |        |       |
|                           | 5.0-6.9                                  | 7.0-8.9        | 9.0-10.9      | 11.0-12.9     | 13.0-14.9     | 15.0-16.9     | 17.0-18.9    | 19.0-20.9    | 21.0-28.9    | 29.0+      |                |            |   |   |             |        |       |
| Balsam fir                | 3,545                                    | 844            | 269           | 230           | 117           | 0             | 0            | 0            | 0            | 0          | 0              | 0          | 0 | 0 | 0           | 5,005  | 26.7  |
| Tamarack                  | 35                                       | 74             | 35            | 0             | 0             | 0             | 0            | 0            | 0            | 0          | 0              | 0          | 0 | 0 | 0           | 143    | 60.6  |
| Black spruce              | 38                                       | 0              | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 0          | 0              | 0          | 0 | 0 | 0           | 38     | 100.0 |
| Red spruce                | 5,704                                    | 4,201          | 1,823         | 1,584         | 529           | 275           | 109          | 37           | 0            | 0          | 0              | 0          | 0 | 0 | 0           | 14,263 | 19.0  |
| Red pine                  | 169                                      | 67             | 445           | 207           | 382           | 38            | 0            | 0            | 0            | 0          | 0              | 0          | 0 | 0 | 0           | 1,308  | 37.9  |
| White pine                | 19,172                                   | 16,195         | 11,774        | 10,167        | 8,299         | 5,415         | 2,545        | 2,481        | 2,817        | 394        | 0              | 0          | 0 | 0 | 0           | 79,259 | 6.8   |
| Hemlock                   | 20,996                                   | 14,685         | 7,171         | 5,514         | 3,374         | 1,667         | 905          | 346          | 350          | 0          | 0              | 0          | 0 | 0 | 0           | 55,009 | 8.6   |
| Other softwoods           | 222                                      | 0              | 0             | 98            | 66            | 0             | 0            | 0            | 0            | 0          | 0              | 0          | 0 | 0 | 0           | 387    | 29.8  |
| <b>Total softwoods</b>    | <b>49,881</b>                            | <b>36,065</b>  | <b>21,516</b> | <b>17,801</b> | <b>12,768</b> | <b>7,396</b>  | <b>3,560</b> | <b>2,863</b> | <b>3,167</b> | <b>394</b> | <b>155,411</b> | <b>4.6</b> |   |   |             |        |       |
| Sugar maple               | 5,604                                    | 3,273          | 2,768         | 1,067         | 749           | 459           | 147          | 116          | 192          | 116        | 14,491         | 13.5       |   |   |             |        |       |
| Red maple                 | 39,647                                   | 28,225         | 17,463        | 6,787         | 3,157         | 1,225         | 882          | 335          | 411          | 335        | 98,132         | 4.4        |   |   |             |        |       |
| Yellow birch              | 5,167                                    | 2,701          | 1,692         | 1,211         | 443           | 290           | 136          | 117          | 39           | 117        | 11,795         | 12.1       |   |   |             |        |       |
| Paper birch               | 5,694                                    | 5,506          | 4,956         | 2,037         | 727           | 214           | 79           | 0            | 0            | 0          | 19,213         | 8.0        |   |   |             |        |       |
| Beech                     | 6,331                                    | 3,734          | 2,078         | 1,400         | 836           | 678           | 183          | 38           | 74           | 38         | 15,353         | 12.0       |   |   |             |        |       |
| White ash                 | 4,440                                    | 2,886          | 1,929         | 1,199         | 1,046         | 283           | 113          | 192          | 39           | 192        | 12,163         | 11.4       |   |   |             |        |       |
| Black ash                 | 0  | 0              | 38            | 0             | 0             | 0             | 0            | 0            | 0            | 0          | 38             | 100.0      |   |   |             |        |       |
| Aspen                     | 2,409                                    | 2,519          | 2,019         | 899           | 551           | 71            | 0            | 39           | 0            | 39         | 8,509          | 17.9       |   |   |             |        |       |
| White oaks                | 2,418                                    | 1,563          | 1,153         | 666           | 505           | 107           | 218          | 36           | 38           | 36         | 6,705          | 14.0       |   |   |             |        |       |
| Red oaks                  | 9,966                                    | 11,026         | 9,489         | 7,850         | 4,790         | 1,810         | 1,199        | 780          | 640          | 780        | 47,625         | 7.1        |   |   |             |        |       |
| Basswood                  | 352                                      | 258            | 174           | 140           | 98            | 0             | 0            | 0            | 0            | 0          | 1,023          | 29.2       |   |   |             |        |       |
| Elm                       | 305                                      | 339            | 189           | 39            | 76            | 40            | 0            | 0            | 0            | 0          | 989            | 32.4       |   |   |             |        |       |
| Other hardwoods           | 8,021                                    | 5,755          | 3,204         | 1,131         | 732           | 136           | 76           | 0            | 0            | 0          | 19,056         | 9.3        |   |   |             |        |       |
| <b>Total hardwoods</b>    | <b>90,356</b>                            | <b>67,787</b>  | <b>47,153</b> | <b>24,427</b> | <b>13,709</b> | <b>5,310</b>  | <b>3,033</b> | <b>1,653</b> | <b>1,433</b> | <b>230</b> | <b>255,091</b> | <b>2.9</b> |   |   |             |        |       |
| <b>Total, all species</b> | <b>140,237</b>                           | <b>103,852</b> | <b>68,669</b> | <b>42,228</b> | <b>26,477</b> | <b>12,706</b> | <b>6,593</b> | <b>4,516</b> | <b>4,599</b> | <b>624</b> | <b>410,503</b> | <b>2.3</b> |   |   |             |        |       |
| SE                        | 3.2                                      | 3.2            | 3.2           | 4.1           | 4.7           | 6.4           | 8.5          | 10.9         | 10.8         | 25.9       | 2.3            |            |   |   |             |        |       |

Table 61.--Net volume of all trees on timberland by species and tree class, Southern Unit, New Hampshire, 1997  
(In millions of cubic feet)

| Species group              | Tree class   |                |                          |               |                |              | SE         |
|----------------------------|--------------|----------------|--------------------------|---------------|----------------|--------------|------------|
|                            | Preferred    | Acceptable     | Preferred/<br>acceptable | Rough<br>cull | Rotten<br>cull | All<br>cull  |            |
| Balsam fir                 | .0           | 26.5           | 26.5                     | .6            | .0             | .6           | 27.1       |
| Tamarack                   | .0           | .7             | .7                       | .0            | .0             | .0           | 62.7       |
| Black spruce               | .0           | .1             | .1                       | .0            | .0             | .0           | 100.0      |
| Red spruce                 | 6.5          | 124.8          | 131.3                    | 3.4           | .2             | 3.6          | 20.7       |
| Red pine                   | .0           | 23.1           | 23.1                     | .0            | .0             | .0           | 51.7       |
| White pine                 | 44.7         | 1,390.9        | 1,435.6                  | 76.2          | 2.0            | 78.2         | 6.6        |
| Hemlock                    | 4.0          | 502.6          | 506.5                    | 54.9          | 4.8            | 59.7         | 9.6        |
| Other softwoods            | .0           | 3.2            | 3.2                      | .6            | .0             | .6           | 42.0       |
| <b>Total softwoods</b>     | <b>55.2</b>  | <b>2,071.8</b> | <b>2,127.0</b>           | <b>135.7</b>  | <b>7.0</b>     | <b>142.7</b> | <b>4.8</b> |
| Sugar maple                | .9           | 161.1          | 162.0                    | 6.3           | 4.2            | 10.5         | 17.2       |
| Red maple                  | 1.5          | 819.0          | 820.4                    | 43.5          | 13.4           | 56.9         | 5.5        |
| Yellow birch               | .0           | 102.8          | 102.8                    | 4.8           | 4.2            | 9.0          | 13.0       |
| Paper birch                | 2.7          | 181.3          | 184.0                    | 5.0           | 1.2            | 6.2          | 8.9        |
| Beech                      | 1.1          | 154.0          | 155.0                    | 8.6           | 4.2            | 12.8         | 14.4       |
| White ash                  | 4.5          | 141.4          | 145.9                    | 1.7           | .8             | 2.5          | 13.6       |
| Black ash                  | .0           | .5             | .5                       | .0            | .0             | .0           | 100.0      |
| Aspen                      | .0           | 93.4           | 93.4                     | .2            | .2             | .4           | 17.7       |
| White oaks                 | .0           | 65.0           | 65.0                     | 3.1           | .7             | 3.8          | 15.8       |
| Red oaks                   | 56.2         | 594.5          | 650.7                    | 8.3           | 2.2            | 10.4         | 7.3        |
| Basswood                   | .0           | 9.8            | 9.8                      | .5            | .0             | .5           | 30.8       |
| Elm                        | .0           | 8.0            | 8.0                      | .1            | .0             | .1           | 41.9       |
| Other commercial hardwoods | 2.7          | 151.4          | 154.1                    | 7.7           | 1.0            | 8.6          | 10.7       |
| Noncommercial hardwoods    | .0           | .0             | .0                       | 20.0          | .0             | 20.0         | 17.8       |
| <b>Total hardwoods</b>     | <b>69.6</b>  | <b>2,482.1</b> | <b>2,551.7</b>           | <b>109.8</b>  | <b>32.0</b>    | <b>141.8</b> | <b>3.5</b> |
| <b>Total, all species</b>  | <b>124.8</b> | <b>4,553.9</b> | <b>4,678.7</b>           | <b>245.5</b>  | <b>39.0</b>    | <b>284.5</b> | <b>2.6</b> |
| SE                         | 15.5         | 2.8            | 2.7                      | 9.3           | 16.7           | 8.4          | 2.6        |

Volume of all live trees on timberland, for selected species and percent change, Southern Unit of New Hampshire, 1983 and 1997

(Volume increased by 8.0 percent for all species)

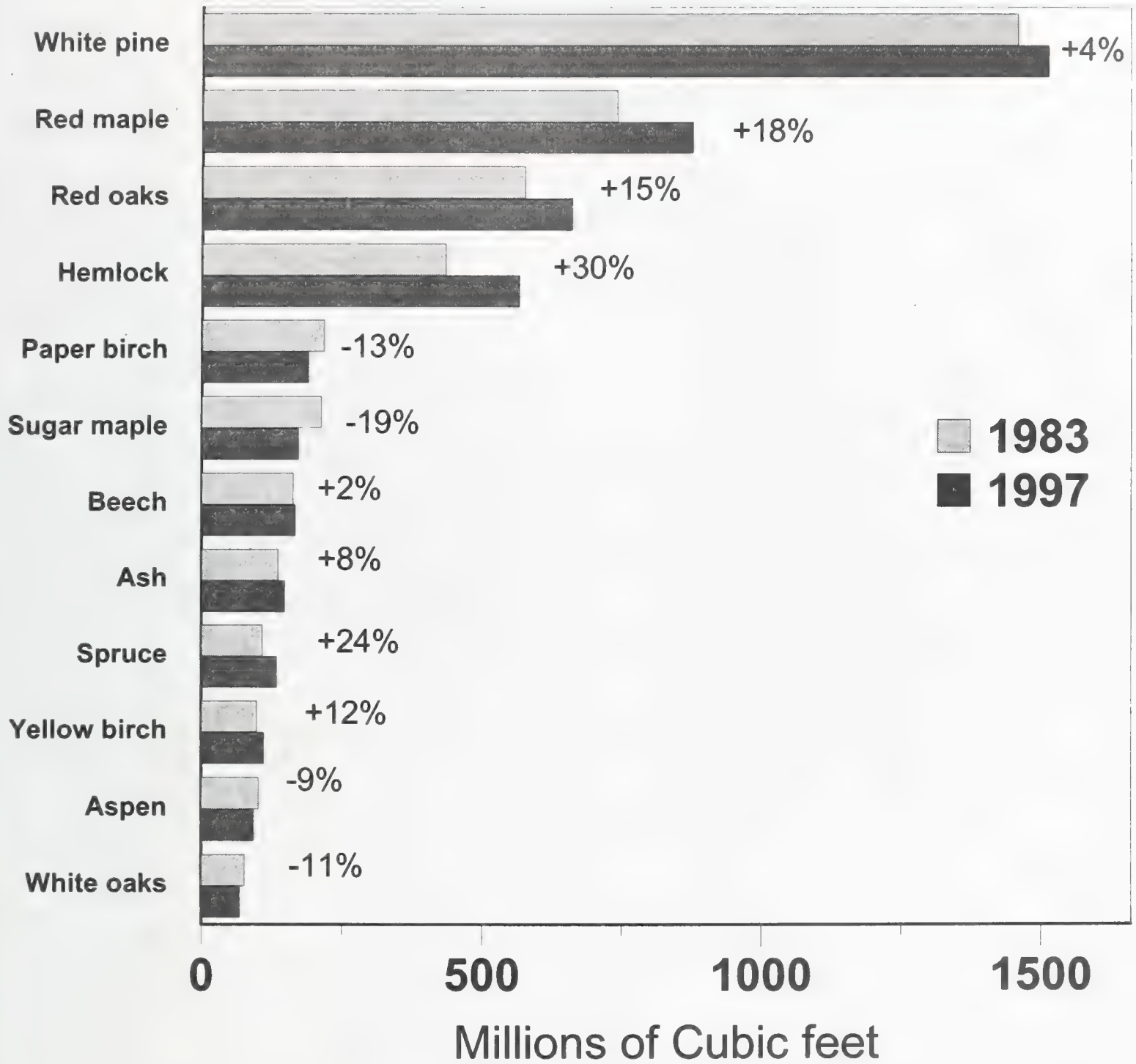


Table 62.--Net volume of all live trees on timberland by species and diameter class, Southern Unit, New Hampshire, 1983

(In millions of cubic feet)

| Species group              | Diameter class (inches at breast height) |              |              |              |              |              |              |              |              |             |                | All classes | SE   |           |      |           |      |           |      |       |         |      |      |
|----------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|----------------|-------------|------|-----------|------|-----------|------|-----------|------|-------|---------|------|------|
|                            | 5.0-6.9                                  |              | 7.0-8.9      |              | 9.0-10.9     |              | 11.0-12.9    |              | 13.0-14.9    |             | 15.0-16.9      |             |      | 17.0-18.9 |      | 19.0-20.9 |      | 21.0-28.9 |      | 29.0+ |         |      |      |
|                            |  |              |              |              |              |              |              |              |              |             |                |             |      |           |      |           |      |           |      |       |         |      |      |
| Balsam fir                 | 4.9                                      | 4.1          | 3.7          | 2.5          | 1.3          | .0           | .0           | .0           | .0           | .0          | .0             | .0          | .0   | .0        | .0   | .0        | .0   | .0        | .0   | .0    | 16.5    | 29.8 |      |
| Tamarack                   | 1.0                                      | .0           | .0           | .0           | .0           | .0           | .0           | .0           | .0           | .0          | .0             | .0          | .0   | .0        | .0   | .0        | .0   | .0        | .0   | .0    | .0      | 1.0  | 77.8 |
| Black spruce               | 1.4                                      | 2.1          | .4           | .5           | .8           | .0           | .0           | .0           | .0           | .0          | .0             | .0          | .0   | .0        | .0   | .0        | .0   | .0        | .0   | .0    | 5.3     | 91.1 |      |
| Red spruce                 | 22.9                                     | 28.5         | 17.8         | 16.8         | 8.1          | 3.9          | 3.9          | 3.9          | 3.9          | 3.9         | 3.9            | 3.9         | 3.9  | 3.9       | 3.9  | 3.9       | 3.9  | 3.9       | 3.9  | 3.9   | 103.9   | 21.8 |      |
| Red pine                   | .9                                       | .9           | 4.4          | 10.1         | 8.6          | 6.2          | 1.0          | 1.0          | 1.0          | 1.0         | 1.0            | 1.0         | 1.0  | 1.0       | 1.0  | 1.0       | 1.0  | 1.0       | 1.0  | 1.0   | 32.1    | 48.7 |      |
| White pine                 | 97.6                                     | 151.1        | 185.9        | 217.9        | 217.3        | 174.6        | 39.5         | 39.5         | 39.5         | 39.5        | 39.5           | 39.5        | 39.5 | 39.5      | 39.5 | 39.5      | 39.5 | 39.5      | 39.5 | 39.5  | 1,459.1 | 7.2  |      |
| Hemlock                    | 51.8                                     | 71.6         | 73.4         | 83.5         | 56.5         | 30.2         | 17.0         | 11.1         | 11.1         | 11.1        | 11.1           | 11.1        | 11.1 | 11.1      | 11.1 | 11.1      | 11.1 | 11.1      | 11.1 | 11.1  | 434.7   | 10.8 |      |
| Other softwoods            | .9                                       | 2.7          | 4.0          | 2.6          | 2.2          | .7           | .0           | .0           | .0           | .0          | .0             | .0          | .0   | .0        | .0   | .0        | .0   | .0        | .0   | .0    | 13.4    | 41.2 |      |
| <b>Total softwoods</b>     | <b>181.4</b>                             | <b>260.9</b> | <b>289.6</b> | <b>333.9</b> | <b>294.8</b> | <b>225.0</b> | <b>175.2</b> | <b>109.2</b> | <b>165.3</b> | <b>30.6</b> | <b>2,065.9</b> | <b>5.4</b>  |      |           |      |           |      |           |      |       |         |      |      |
| Sugar maple                | 23.4                                     | 39.1         | 42.2         | 32.2         | 25.9         | 11.2         | 11.2         | 11.2         | 11.2         | 11.2        | 11.2           | 11.2        | 11.2 | 11.2      | 11.2 | 11.2      | 11.2 | 11.2      | 11.2 | 11.2  | 213.4   | 12.9 |      |
| Red maple                  | 130.2                                    | 184.6        | 171.1        | 109.0        | 61.6         | 32.1         | 32.1         | 32.1         | 32.1         | 32.1        | 32.1           | 32.1        | 32.1 | 32.1      | 32.1 | 32.1      | 32.1 | 32.1      | 32.1 | 32.1  | 741.8   | 6.3  |      |
| Yellow birch               | 17.4                                     | 18.8         | 16.8         | 14.4         | 6.9          | 13.7         | 13.7         | 13.7         | 13.7         | 13.7        | 13.7           | 13.7        | 13.7 | 13.7      | 13.7 | 13.7      | 13.7 | 13.7      | 13.7 | 13.7  | 99.5    | 14.3 |      |
| Paper birch                | 37.1                                     | 54.5         | 70.6         | 27.7         | 17.2         | 4.4          | 2.8          | 2.8          | 2.8          | 2.8         | 2.8            | 2.8         | 2.8  | 2.8       | 2.8  | 2.8       | 2.8  | 2.8       | 2.8  | 2.8   | 218.1   | 9.9  |      |
| Beech                      | 18.3                                     | 29.7         | 23.0         | 26.1         | 25.9         | 20.3         | 7.5          | 7.5          | 7.5          | 7.5         | 7.5            | 7.5         | 7.5  | 7.5       | 7.5  | 7.5       | 7.5  | 7.5       | 7.5  | 7.5   | 163.8   | 13.7 |      |
| White ash                  | 19.8                                     | 28.0         | 23.0         | 21.2         | 17.2         | 7.5          | 7.5          | 7.5          | 7.5          | 7.5         | 7.5            | 7.5         | 7.5  | 7.5       | 7.5  | 7.5       | 7.5  | 7.5       | 7.5  | 7.5   | 127.6   | 15.9 |      |
| Black ash                  | 1.4                                      | .8           | 3.5          | 2.2          | 2.0          | .0           | .0           | .0           | .0           | .0          | .0             | .0          | .0   | .0        | .0   | .0        | .0   | .0        | .0   | .0    | 9.9     | 83.3 |      |
| Aspen                      | 20.2                                     | 32.3         | 24.2         | 13.7         | 6.3          | 1.6          | 1.6          | 1.6          | 1.6          | 1.6         | 1.6            | 1.6         | 1.6  | 1.6       | 1.6  | 1.6       | 1.6  | 1.6       | 1.6  | 1.6   | 103.0   | 21.1 |      |
| White oaks                 | 10.1                                     | 15.5         | 13.5         | 15.4         | 8.3          | 6.0          | 3.9          | 3.9          | 3.9          | 3.9         | 3.9            | 3.9         | 3.9  | 3.9       | 3.9  | 3.9       | 3.9  | 3.9       | 3.9  | 3.9   | 77.6    | 17.1 |      |
| Red oaks                   | 49.0                                     | 102.2        | 107.5        | 110.5        | 78.5         | 49.1         | 37.6         | 12.2         | 28.1         | 1.3         | 3.0            | 3.0         | 3.0  | 3.0       | 3.0  | 3.0       | 3.0  | 3.0       | 3.0  | 3.0   | 576.1   | 7.4  |      |
| Basswood                   | 2.1                                      | 5.4          | 3.9          | 3.0          | .0           | .7           | 1.1          | .0           | .0           | .0          | .0             | .0          | .0   | .0        | .0   | .0        | .0   | .0        | .0   | .0    | 16.2    | 31.5 |      |
| Elm                        | 1.1                                      | 1.0          | 3.3          | 1.5          | 2.5          | 2.1          | 1.5          | .7           | 1.1          | 1.1         | 1.1            | 1.1         | 1.1  | 1.1       | 1.1  | 1.1       | 1.1  | 1.1       | 1.1  | 1.1   | 14.8    | 26.1 |      |
| Other commercial hardwoods | 23.7                                     | 38.0         | 35.2         | 21.9         | 11.0         | 9.2          | 3.0          | 3.0          | 3.0          | 3.0         | 3.0            | 3.0         | 3.0  | 3.0       | 3.0  | 3.0       | 3.0  | 3.0       | 3.0  | 3.0   | 142.1   | 11.2 |      |
| Noncommercial hardwoods    | 16.0                                     | 7.5          | 2.0          | .9           | .0           | .4           | .0           | .0           | .0           | .0          | .0             | .0          | .0   | .0        | .0   | .0        | .0   | .0        | .0   | .0    | 26.8    | 14.9 |      |
| <b>Total hardwoods</b>     | <b>369.8</b>                             | <b>557.3</b> | <b>539.8</b> | <b>399.7</b> | <b>263.2</b> | <b>158.4</b> | <b>109.1</b> | <b>43.6</b>  | <b>73.8</b>  | <b>15.9</b> | <b>2,530.7</b> | <b>3.4</b>  |      |           |      |           |      |           |      |       |         |      |      |
| <b>Total, all species</b>  | <b>551.2</b>                             | <b>818.3</b> | <b>829.4</b> | <b>733.5</b> | <b>558.0</b> | <b>383.4</b> | <b>284.3</b> | <b>152.8</b> | <b>239.1</b> | <b>46.6</b> | <b>4,596.5</b> | <b>2.3</b>  |      |           |      |           |      |           |      |       |         |      |      |
| SE                         | 3.5                                      | 3.3          | 3.6          | 3.7          | 4.8          | 6.1          | 7.8          | 9.6          | 10.1         | 21.5        | 2.3            |             |      |           |      |           |      |           |      |       |         |      |      |

Table 63.--Net volume of live trees on timberland by species and diameter class, Southern Unit, New Hampshire, 1997

| Species group              | (In millions of cubic feet)              |              |              |              |              |              |              |              |              |              |                |            | All classes | SE    |       |
|----------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|------------|-------------|-------|-------|
|                            | Diameter class (inches at breast height) |              |              |              |              |              |              |              |              |              |                |            |             |       |       |
|                            | 5.0-6.9                                  | 7.0-8.9      | 9.0-10.9     | 11.0-12.9    | 13.0-14.9    | 15.0-16.9    | 17.0-18.9    | 19.0-20.9    | 21.0-28.9    | 29.0+        |                |            |             |       |       |
| Balsam fir                 | 9.9                                      | 5.1          | 3.8          | 4.9          | 3.5          | .0           | .0           | .0           | .0           | .0           | .0             | .0         | .0          | 27.1  | 27.1  |
| Tamarack                   | .1                                       | .3           | .3           | .0           | .0           | .0           | .0           | .0           | .0           | .0           | .0             | .0         | .0          | .7    | 62.7  |
| Black spruce               | .1                                       | .0           | .0           | .0           | .0           | .0           | .0           | .0           | .0           | .0           | .0             | .0         | .0          | .1    | 100.0 |
| Red spruce                 | 17.9                                     | 28.9         | 22.9         | 31.4         | 16.5         | 9.8          | 5.3          | 2.2          | .0           | .0           | .0             | .0         | .0          | 134.8 | 20.7  |
| Red pine                   | .5                                       | .6           | 5.3          | 3.6          | 11.6         | 1.6          | .0           | .0           | .0           | .0           | .0             | .0         | .0          | 23.1  | 51.7  |
| White pine                 | 59.6                                     | 110.4        | 147.3        | 195.8        | 217.5        | 197.2        | 118.4        | 145.0        | 231.4        | 91.3         | 1,513.9        | 6.6        |             |       | 6.6   |
| Hemlock                    | 54.0                                     | 83.3         | 90.4         | 101.5        | 85.3         | 63.5         | 42.1         | 21.3         | 24.9         | .0           | 566.3          | 9.6        |             |       | 9.6   |
| Other softwoods            | .4                                       | .0           | .0           | 1.5          | 1.3          | .6           | .0           | .0           | .0           | .0           | .0             | .0         | .0          | 3.8   | 42.0  |
| <b>Total softwoods</b>     | <b>142.5</b>                             | <b>228.6</b> | <b>269.9</b> | <b>338.6</b> | <b>335.6</b> | <b>272.7</b> | <b>165.7</b> | <b>168.5</b> | <b>256.2</b> | <b>91.3</b>  | <b>2,269.6</b> | <b>4.8</b> |             |       |       |
| Sugar maple                | 16.0                                     | 22.4         | 32.0         | 22.8         | 20.1         | 14.3         | 6.3          | 5.6          | 13.9         | 19.2         | 172.5          | 17.2       |             |       | 17.2  |
| Red maple                  | 112.6                                    | 189.1        | 205.7        | 136.7        | 83.8         | 46.1         | 42.8         | 22.0         | 37.8         | .7           | 877.3          | 5.5        |             |       | 5.5   |
| Yellow birch               | 14.0                                     | 17.0         | 18.6         | 23.3         | 11.5         | 11.0         | 5.5          | 5.7          | 2.9          | 2.3          | 111.8          | 13.0       |             |       | 13.0  |
| Paper birch                | 19.1                                     | 39.1         | 60.9         | 41.0         | 19.1         | 7.0          | 3.9          | .0           | .0           | .0           | 190.2          | 8.9        |             |       | 8.9   |
| Beech                      | 17.2                                     | 25.9         | 26.4         | 31.6         | 22.5         | 22.8         | 7.3          | 5.1          | 9.2          | .0           | 167.8          | 14.4       |             |       | 14.4  |
| White ash                  | 14.9                                     | 21.5         | 24.4         | 24.9         | 28.7         | 10.4         | 4.7          | 11.5         | 2.6          | 4.8          | 148.5          | 13.6       |             |       | 13.6  |
| Black ash                  | .0                                       | .0           | .5           | .0           | .0           | .0           | .0           | .0           | .0           | .0           | .5             | 100.0      |             |       | 100.0 |
| Aspen                      | 9.4                                      | 20.9         | 24.8         | 17.9         | 15.5         | 2.8          | .0           | 2.6          | .0           | .0           | 93.8           | 17.7       |             |       | 17.7  |
| White oaks                 | 7.1                                      | 9.3          | 12.0         | 12.4         | 12.0         | 3.7          | 7.6          | 1.8          | 2.9          | .0           | 68.9           | 15.8       |             |       | 15.8  |
| Red oaks                   | 30.3                                     | 73.4         | 107.6        | 138.4        | 111.9        | 60.8         | 49.5         | 39.0         | 41.5         | 8.7          | 661.1          | 7.3        |             |       | 7.3   |
| Basswood                   | 1.2                                      | 2.0          | 1.8          | 2.5          | 2.9          | .0           | .0           | .0           | .0           | .0           | 10.3           | 30.8       |             |       | 30.8  |
| Elm                        | .8                                       | 1.7          | 1.8          | .8           | 1.6          | 1.3          | .0           | .0           | .0           | .0           | 8.1            | 41.9       |             |       | 41.9  |
| Other commercial hardwoods | 25.0                                     | 42.3         | 38.9         | 24.7         | 20.5         | 6.1          | 5.0          | .0           | .0           | .0           | 162.8          | 10.7       |             |       | 10.7  |
| Noncommercial hardwoods    | 10.3                                     | 4.3          | 3.7          | 1.4          | .4           | .0           | .0           | .0           | .0           | .0           | 20.0           | 17.8       |             |       | 17.8  |
| <b>Total hardwoods</b>     | <b>277.9</b>                             | <b>468.9</b> | <b>559.2</b> | <b>478.4</b> | <b>350.5</b> | <b>186.2</b> | <b>132.7</b> | <b>93.3</b>  | <b>110.7</b> | <b>35.7</b>  | <b>2,693.5</b> | <b>3.5</b> |             |       |       |
| <b>Total, all species</b>  | <b>420.4</b>                             | <b>697.5</b> | <b>829.2</b> | <b>817.0</b> | <b>686.1</b> | <b>458.9</b> | <b>298.4</b> | <b>261.8</b> | <b>367.0</b> | <b>127.0</b> | <b>4,963.2</b> | <b>2.6</b> |             |       |       |
| SE                         | 3.3                                      | 3.3          | 3.3          | 4.0          | 4.7          | 6.2          | 8.6          | 11.1         | 10.9         | 21.4         | 2.6            |            |             |       |       |

Table 64.--Net volume of growing-stock trees on timberland by species and diameter class, Southern Unit, New Hampshire, 1983

(In millions of cubic feet)

| Species group             | Diameter class (inches at breast height) |              |              |              |              |              |              |              |              |             |                | All classes | SE |           |    |           |    |           |    |       |                |            |
|---------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|----------------|-------------|----|-----------|----|-----------|----|-----------|----|-------|----------------|------------|
|                           | 5.0-6.9                                  |              | 7.0-8.9      |              | 9.0-10.9     |              | 11.0-12.9    |              | 13.0-14.9    |             | 15.0-16.9      |             |    | 17.0-18.9 |    | 19.0-20.9 |    | 21.0-28.9 |    | 29.0+ |                |            |
|                           |  |              |              |              |              |              |              |              |              |             |                |             |    |           |    |           |    |           |    |       |                |            |
| Balsam fir                | 3.9                                      | 4.1          | 3.5          | 2.2          | 1.3          | .0           | .0           | .0           | .0           | .0          | .0             | .0          | .0 | .0        | .0 | .0        | .0 | .0        | .0 | .0    | 15.0           | 31.5       |
| Tamarack                  | .6                                       | .0           | .0           | .0           | .0           | .0           | .0           | .0           | .0           | .0          | .0             | .0          | .0 | .0        | .0 | .0        | .0 | .0        | .0 | .0    | .6             | 100.0      |
| Black spruce              | 1.2                                      | 2.1          | .4           | .5           | .8           | .0           | .0           | .0           | .0           | .0          | .0             | .0          | .0 | .0        | .0 | .0        | .0 | .0        | .0 | .0    | 5.1            | 90.7       |
| Red spruce                | 20.3                                     | 26.9         | 17.3         | 15.2         | 7.5          | 3.1          | .9           | 3.9          | 3.9          | 1.1         | .0             | .0          | .0 | .0        | .0 | .0        | .0 | .0        | .0 | .0    | 96.3           | 22.4       |
| Red pine                  | .5                                       | .9           | 4.4          | 10.1         | 8.0          | 6.2          | 1.0          | .0           | .0           | .0          | .0             | .0          | .0 | .0        | .0 | .0        | .0 | .0        | .0 | .0    | 31.1           | 50.0       |
| White pine                | 71.1                                     | 128.3        | 179.6        | 208.1        | 208.7        | 166.6        | 135.9        | 82.9         | 140.4        | 24.1        | 1,345.8        | 7.5         |    |           |    |           |    |           |    |       | 1,345.8        | 7.5        |
| Hemlock                   | 43.4                                     | 65.3         | 67.6         | 80.8         | 54.9         | 37.7         | 28.0         | 16.1         | 10.4         | .0          | 404.1          | 10.9        |    |           |    |           |    |           |    |       | 404.1          | 10.9       |
| Other softwoods           | .5                                       | 2.2          | 3.7          | 2.6          | 1.7          | .7           | .0           | .0           | .0           | .0          | .0             | .0          | .0 | .0        | .0 | .0        | .0 | .0        | .0 | .0    | 11.3           | 44.3       |
| <b>Total softwoods</b>    | <b>141.5</b>                             | <b>229.7</b> | <b>276.5</b> | <b>319.6</b> | <b>282.8</b> | <b>214.3</b> | <b>165.8</b> | <b>102.8</b> | <b>152.0</b> | <b>24.1</b> | <b>1,909.3</b> | <b>5.6</b>  |    |           |    |           |    |           |    |       | <b>1,909.3</b> | <b>5.6</b> |
| Sugar maple               | 21.0                                     | 37.6         | 39.5         | 29.6         | 21.9         | 9.7          | 7.5          | 6.2          | 6.4          | 3.2         | 182.8          | 13.9        |    |           |    |           |    |           |    |       | 182.8          | 13.9       |
| Red maple                 | 107.5                                    | 161.6        | 157.4        | 95.1         | 53.3         | 24.4         | 17.8         | 8.9          | 9.7          | .0          | 635.8          | 6.5         |    |           |    |           |    |           |    |       | 635.8          | 6.5        |
| Yellow birch              | 15.3                                     | 15.6         | 15.1         | 12.5         | 5.4          | 11.7         | 3.9          | 2.2          | 1.6          | 1.4         | 84.7           | 14.6        |    |           |    |           |    |           |    |       | 84.7           | 14.6       |
| Paper birch               | 34.0                                     | 51.1         | 68.7         | 26.1         | 14.5         | 2.7          | 2.4          | 2.8          | .6           | .0          | 203.0          | 10.4        |    |           |    |           |    |           |    |       | 203.0          | 10.4       |
| Beech                     | 13.6                                     | 24.5         | 20.3         | 21.6         | 21.7         | 14.9         | 6.1          | .0           | 3.2          | .0          | 126.0          | 15.2        |    |           |    |           |    |           |    |       | 126.0          | 15.2       |
| White ash                 | 19.2                                     | 26.3         | 22.7         | 20.9         | 16.6         | 6.6          | 5.6          | .0           | 4.6          | .0          | 122.4          | 16.4        |    |           |    |           |    |           |    |       | 122.4          | 16.4       |
| Black ash                 | 1.4                                      | .8           | 3.5          | 2.2          | 2.0          | .0           | .0           | .0           | .0           | .0          | 9.9            | 83.3        |    |           |    |           |    |           |    |       | 9.9            | 83.3       |
| Aspen                     | 16.7                                     | 30.9         | 22.1         | 12.9         | 5.7          | 1.6          | 2.9          | 1.1          | .0           | .0          | 94.0           | 22.5        |    |           |    |           |    |           |    |       | 94.0           | 22.5       |
| White oaks                | 7.7                                      | 14.6         | 13.5         | 14.8         | 7.2          | 6.0          | 2.8          | .7           | 1.3          | 3.0         | 71.6           | 17.4        |    |           |    |           |    |           |    |       | 71.6           | 17.4       |
| Red oaks                  | 43.9                                     | 96.6         | 105.2        | 108.2        | 76.0         | 48.7         | 36.7         | 11.4         | 25.8         | .0          | 552.5          | 7.4         |    |           |    |           |    |           |    |       | 552.5          | 7.4        |
| Basswood                  | 1.4                                      | 5.1          | 3.1          | 3.0          | .0           | .7           | 1.1          | .0           | .0           | .0          | 14.4           | 33.1        |    |           |    |           |    |           |    |       | 14.4           | 33.1       |
| Elm                       | .7                                       | .7           | 3.0          | 1.5          | 2.2          | 1.2          | 1.5          | .0           | 1.1          | .0          | 11.9           | 28.0        |    |           |    |           |    |           |    |       | 11.9           | 28.0       |
| Other hardwoods           | 24.5                                     | 37.6         | 35.4         | 19.2         | 8.7          | 7.7          | 3.0          | .0           | .0           | .0          | 136.1          | 11.0        |    |           |    |           |    |           |    |       | 136.1          | 11.0       |
| <b>Total hardwoods</b>    | <b>307.1</b>                             | <b>503.0</b> | <b>509.5</b> | <b>367.6</b> | <b>235.3</b> | <b>136.0</b> | <b>91.5</b>  | <b>33.4</b>  | <b>54.3</b>  | <b>7.6</b>  | <b>2,245.3</b> | <b>3.6</b>  |    |           |    |           |    |           |    |       | <b>2,245.3</b> | <b>3.6</b> |
| <b>Total, all species</b> | <b>448.6</b>                             | <b>732.7</b> | <b>786.0</b> | <b>687.2</b> | <b>518.2</b> | <b>350.4</b> | <b>257.3</b> | <b>136.2</b> | <b>206.3</b> | <b>31.7</b> | <b>4,154.6</b> | <b>2.5</b>  |    |           |    |           |    |           |    |       | <b>4,154.6</b> | <b>2.5</b> |
| SE                        | 4.0                                      | 3.6          | 3.8          | 3.9          | 5.1          | 6.4          | 8.3          | 10.3         | 11.1         | 26.9        | 2.5            |             |    |           |    |           |    |           |    |       |                |            |



Table 65.--Net volume of growing-stock trees on timberland by species and diameter class, Southern Unit, New Hampshire, 1997  
(In millions of cubic feet)

| Species group             | Diameter class (inches at breast height) |              |              |               |               |               |               |               |               |             |                |            |    | All classes | SE    |
|---------------------------|--|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|----------------|------------|----|-------------|-------|
|                           | 5.0-<br>6.9                              | 7.0-<br>8.9  | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0+       |                |            |    |             |       |
| Balsam fir                | 9.8                                      | 5.1          | 3.8          | 4.4           | 3.5           | .0            | .0            | .0            | .0            | .0          | .0             | .0         | .0 | 26.5        | 27.4  |
| Tamarack                  | .1                                       | .3           | .3           | .0            | .0            | .0            | .0            | .0            | .0            | .0          | .0             | .0         | .0 | .7          | 62.7  |
| Black spruce              | .1                                       | .0           | .0           | .0            | .0            | .0            | .0            | .0            | .0            | .0          | .0             | .0         | .0 | .1          | 100.0 |
| Red spruce                | 17.8                                     | 28.7         | 22.2         | 31.0          | 14.3          | 9.8           | 5.3           | 2.2           | .0            | .0          | .0             | .0         | .0 | 131.3       | 20.6  |
| Red pine                  | .5                                       | .6           | 5.3          | 3.6           | 11.6          | 1.6           | .0            | .0            | .0            | .0          | .0             | .0         | .0 | 23.1        | 51.7  |
| White pine                | 58.3                                     | 107.8        | 140.8        | 186.5         | 216.5         | 192.1         | 113.9         | 138.5         | 225.1         | 56.1        | 1,435.6        | 6.7        |    |             |       |
| Hemlock                   | 53.2                                     | 82.0         | 75.8         | 90.8          | 77.4          | 50.7          | 36.6          | 16.7          | 23.5          | .0          | 506.5          | 10.0       |    |             |       |
| Other softwoods           | .4                                       | .0           | .0           | 1.5           | 1.3           | .0            | .0            | .0            | .0            | .0          | 3.2            | 40.5       |    |             |       |
| <b>Total softwoods</b>    | <b>140.2</b>                             | <b>224.5</b> | <b>248.1</b> | <b>317.7</b>  | <b>324.5</b>  | <b>254.1</b>  | <b>155.8</b>  | <b>157.3</b>  | <b>248.6</b>  | <b>56.1</b> | <b>2,127.0</b> | <b>5.0</b> |    |             |       |
| Sugar maple               | 15.6                                     | 21.6         | 32.0         | 20.5          | 19.7          | 14.3          | 6.3           | 5.6           | 11.0          | 15.5        | 162.0          | 17.8       |    |             |       |
| Red maple                 | 109.8                                    | 184.9        | 204.4        | 121.1         | 76.5          | 40.4          | 36.8          | 17.3          | 29.3          | .0          | 820.4          | 5.5        |    |             |       |
| Yellow birch              | 13.7                                     | 17.0         | 18.1         | 20.5          | 10.3          | 9.9           | 5.5           | 5.7           | 2.1           | .0          | 102.8          | 13.5       |    |             |       |
| Paper birch               | 18.9                                     | 38.7         | 60.2         | 39.1          | 18.2          | 7.0           | 1.9           | .0            | .0            | .0          | 184.0          | 9.0        |    |             |       |
| Beech                     | 16.5                                     | 24.8         | 24.9         | 29.5          | 21.0          | 22.8          | 7.3           | 3.0           | 5.2           | .0          | 155.0          | 14.7       |    |             |       |
| White ash                 | 14.8                                     | 21.1         | 24.1         | 24.3          | 27.8          | 10.2          | 4.7           | 11.5          | 2.6           | 4.8         | 145.9          | 13.6       |    |             |       |
| Black ash                 | .0                                       | .0           | .5           | .0            | .0            | .0            | .0            | .0            | .0            | .0          | .5             | 100.0      |    |             |       |
| Aspen                     | 9.3                                      | 20.6         | 24.8         | 17.9          | 15.5          | 2.8           | .0            | 2.6           | .0            | .0          | 93.4           | 17.7       |    |             |       |
| White oaks                | 6.9                                      | 9.1          | 11.8         | 10.4          | 11.4          | 3.1           | 7.6           | 1.8           | 2.9           | .0          | 65.0           | 16.0       |    |             |       |
| Red oaks                  | 30.0                                     | 72.4         | 107.3        | 136.3         | 111.0         | 60.0          | 48.3          | 39.0          | 37.6          | 8.7         | 650.7          | 7.4        |    |             |       |
| Basswood                  | 1.0                                      | 2.0          | 1.8          | 2.2           | 2.9           | .0            | .0            | .0            | .0            | .0          | 9.8            | 31.1       |    |             |       |
| Elm                       | .7                                       | 1.7          | 1.8          | .8            | 1.6           | 1.3           | .0            | .0            | .0            | .0          | 8.0            | 42.4       |    |             |       |
| Other hardwoods           | 24.7                                     | 41.2         | 38.2         | 21.9          | 19.2          | 5.1           | 3.8           | .0            | .0            | .0          | 154.1          | 10.9       |    |             |       |
| <b>Total hardwoods</b>    | <b>261.8</b>                             | <b>455.1</b> | <b>550.1</b> | <b>444.5</b>  | <b>335.0</b>  | <b>176.7</b>  | <b>122.3</b>  | <b>86.5</b>   | <b>90.8</b>   | <b>29.0</b> | <b>2,551.7</b> | <b>3.6</b> |    |             |       |
| <b>Total, all species</b> | <b>402.0</b>                             | <b>679.6</b> | <b>798.2</b> | <b>762.2</b>  | <b>659.5</b>  | <b>430.8</b>  | <b>278.1</b>  | <b>243.8</b>  | <b>339.4</b>  | <b>85.2</b> | <b>4,678.7</b> | <b>2.7</b> |    |             |       |
| SE                        | 3.4                                      | 3.4          | 3.4          | 4.2           | 4.8           | 6.6           | 8.9           | 11.6          | 11.5          | 26.7        | 2.7            |            |    |             |       |

Table 66.--Net volume of growing-stock trees on timberland by species and stand-size class, Southern Unit, New Hampshire, 1983

(In millions of cubic feet)

| Species group             | Stand-size class |                |                      |             | All classes    | SE         |
|---------------------------|------------------|----------------|----------------------|-------------|----------------|------------|
|                           | Saw-timber       | Pole-timber    | Sapling and seedling | Non-stocked |                |            |
| Balsam fir                | 5.5              | 8.4            | 1.1                  | .0          | 15.0           | 31.5       |
| Tamarack                  | .0               | .0             | .6                   | .0          | .6             | 100.0      |
| Black spruce              | 4.6              | .5             | .0                   | .0          | 5.1            | 90.7       |
| Red spruce                | 43.1             | 51.8           | 1.4                  | .0          | 96.3           | 22.4       |
| Red pine                  | 28.5             | 1.8            | .8                   | .0          | 31.1           | 50.0       |
| White pine                | 982.5            | 344.3          | 19.0                 | .0          | 1,345.8        | 7.5        |
| Hemlock                   | 286.9            | 117.0          | .2                   | .0          | 404.1          | 10.9       |
| Other softwoods           | 5.4              | 5.9            | .0                   | .0          | 11.3           | 44.3       |
| <b>Total softwoods</b>    | <b>1,356.4</b>   | <b>529.8</b>   | <b>23.1</b>          | <b>.0</b>   | <b>1,909.3</b> | <b>5.6</b> |
| Sugar maple               | 94.0             | 88.3           | .6                   | .0          | 182.8          | 13.9       |
| Red maple                 | 246.7            | 385.3          | 3.8                  | .0          | 635.8          | 6.5        |
| Yellow birch              | 43.0             | 41.7           | .0                   | .0          | 84.7           | 14.6       |
| Paper birch               | 56.6             | 146.4          | .0                   | .0          | 203.0          | 10.4       |
| Beech                     | 80.7             | 45.3           | .0                   | .0          | 126.0          | 15.2       |
| White ash                 | 43.4             | 79.0           | .0                   | .0          | 122.4          | 16.4       |
| Black ash                 | .8               | 9.1            | .0                   | .0          | 9.9            | 83.3       |
| Aspen                     | 26.9             | 66.9           | .2                   | .0          | 94.0           | 22.5       |
| White oaks                | 33.7             | 37.4           | .6                   | .0          | 71.6           | 17.4       |
| Red oaks                  | 258.3            | 290.5          | 3.8                  | .0          | 552.5          | 7.4        |
| Basswood                  | 4.9              | 9.5            | .0                   | .0          | 14.4           | 33.1       |
| Elm                       | 9.9              | 2.0            | .0                   | .0          | 11.9           | 28.0       |
| Other hardwoods           | 67.5             | 68.0           | .6                   | .0          | 136.1          | 11.0       |
| <b>Total hardwoods</b>    | <b>966.4</b>     | <b>1,269.4</b> | <b>9.5</b>           | <b>.0</b>   | <b>2,245.3</b> | <b>3.6</b> |
| <b>Total, all species</b> | <b>2,322.8</b>   | <b>1,799.2</b> | <b>32.6</b>          | <b>.0</b>   | <b>4,154.6</b> | <b>2.5</b> |
| SE                        | 6.7              | 6.6            | 29.9                 | .0          | 2.5            |            |

Table 67.--Net volume of growing-stock trees on timberland by species and stand-size class, Southern Unit, New Hampshire, 1997

(In millions of cubic feet)

| Species group             | Stand-size class |                |                      |             | All classes    | SE         |
|---------------------------|------------------|----------------|----------------------|-------------|----------------|------------|
|                           | Saw-timber       | Pole-timber    | Sapling and seedling | Non-stocked |                |            |
| Balsam fir                | 12.9             | 13.2           | .3                   | .0          | 26.5           | 27.4       |
| Tamarack                  | .5               | .1             | .0                   | .0          | .7             | 62.7       |
| Black spruce              | .0               | .0             | .1                   | .0          | .1             | 100.0      |
| Red spruce                | 59.4             | 69.3           | 2.5                  | .0          | 131.3          | 20.6       |
| Red pine                  | 16.3             | 6.3            | .5                   | .0          | 23.1           | 51.7       |
| White pine                | 1,243.7          | 184.7          | 7.2                  | .0          | 1,435.6        | 6.7        |
| Hemlock                   | 364.4            | 139.0          | 3.1                  | .0          | 506.5          | 10.0       |
| Other softwoods           | 2.1              | .5             | .6                   | .0          | 3.2            | 40.5       |
| <b>Total softwoods</b>    | <b>1,699.4</b>   | <b>413.2</b>   | <b>14.4</b>          | <b>.0</b>   | <b>2,127.0</b> | <b>5.0</b> |
| Sugar maple               | 113.9            | 47.4           | .7                   | .0          | 162.0          | 17.8       |
| Red maple                 | 501.3            | 305.5          | 13.7                 | .0          | 820.4          | 5.5        |
| Yellow birch              | 57.0             | 43.1           | 2.7                  | .0          | 102.8          | 13.5       |
| Paper birch               | 98.8             | 85.0           | .2                   | .0          | 184.0          | 9.0        |
| Beech                     | 105.6            | 48.5           | 1.0                  | .0          | 155.0          | 14.7       |
| White ash                 | 83.4             | 60.6           | 2.0                  | .0          | 145.9          | 13.6       |
| Black ash                 | .0               | .5             | .0                   | .0          | .5             | 100.0      |
| Aspen                     | 31.0             | 61.1           | 1.3                  | .0          | 93.4           | 17.7       |
| White oaks                | 43.7             | 21.3           | .0                   | .0          | 65.0           | 16.0       |
| Red oaks                  | 418.5            | 226.3          | 5.9                  | .0          | 650.7          | 7.4        |
| Basswood                  | 4.3              | 5.5            | .0                   | .0          | 9.8            | 31.1       |
| Elm                       | 6.6              | 1.0            | .4                   | .0          | 8.0            | 42.4       |
| Other hardwoods           | 99.8             | 50.2           | 4.1                  | .0          | 154.1          | 10.9       |
| <b>Total hardwoods</b>    | <b>1,563.8</b>   | <b>956.0</b>   | <b>31.9</b>          | <b>.0</b>   | <b>2,551.7</b> | <b>3.6</b> |
| <b>Total, all species</b> | <b>3,263.2</b>   | <b>1,369.2</b> | <b>46.3</b>          | <b>.0</b>   | <b>4,678.7</b> | <b>2.7</b> |
| SE                        | 5.2              | 8.0            | 27.9                 | .0          | 2.7            |            |

Table 68.--Net volume of growing-stock trees on timberland by forest type and stand-size class, Southern Unit, New Hampshire, 1997

(In millions of cubic feet)

| Forest type                    | Stand-size class |             |                      |             | All classes | SE    |
|--------------------------------|------------------|-------------|----------------------|-------------|-------------|-------|
|                                | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |       |
| Red pine                       | 11.3             | .0          | .0                   | .0          | 11.3        | 100.0 |
| White pine                     | 745.7            | 56.5        | 6.2                  | .0          | 808.4       | 13.1  |
| White pine/hemlock             | 323.7            | 63.9        | .0                   | .0          | 387.6       | 19.9  |
| Hemlock                        | 175.5            | 65.0        | .0                   | .0          | 240.5       | 26.7  |
| White/red pine group           | 1,256.2          | 185.4       | 6.2                  | .0          | 1,447.8     | 8.8   |
| Red spruce                     | 17.4             | 53.6        | .0                   | .0          | 71.1        | 44.8  |
| Red spruce/balsam fir          | 9.8              | .0          | .0                   | .0          | 9.8         | 100.0 |
| Spruce/fir group               | 27.3             | 53.6        | .0                   | .0          | 80.9        | 41.2  |
| Wh. pine/no.red oak/wh. ash    | 441.4            | 38.9        | .0                   | .0          | 480.3       | 19.5  |
| Other oak/pine                 | 7.6              | .0          | .0                   | .0          | 7.6         | 100.0 |
| Oak/pine group                 | 449.0            | 38.9        | .0                   | .0          | 487.9       | 19.3  |
| Post, black, or bear oak       | 9.9              | .0          | .0                   | .0          | 9.9         | 100.0 |
| White oak/red oak/hickory      | 134.4            | 17.5        | .0                   | .0          | 151.9       | 32.0  |
| White oak                      | .0               | 2.5         | .0                   | .0          | 2.5         | 100.0 |
| Northern red oak               | 173.8            | 98.0        | .0                   | .0          | 271.8       | 21.7  |
| Red maple/central hardwood     | 26.5             | 21.9        | .0                   | .0          | 48.4        | 52.8  |
| Mixed central hardwoods        | 230.7            | 172.6       | 7.5                  | .0          | 410.8       | 16.5  |
| Oak/hickory group              | 575.4            | 312.4       | 7.5                  | .0          | 895.3       | 10.9  |
| Black ash/Amer. elm/red maple  | .0               | .0          | 2.2                  | .0          | 2.2         | 100.0 |
| Red maple(lowland)             | 10.2             | 16.5        | .0                   | .0          | 26.6        | 48.3  |
| Red maple(upland)              | 15.6             | 12.9        | .0                   | .0          | 28.4        | 50.6  |
| Elm/ash/red maple group        | 25.7             | 29.3        | 2.2                  | .0          | 57.2        | 33.9  |
| Sugar maple/beech/yellow birch | 379.4            | 195.7       | 1.7                  | .0          | 576.7       | 15.2  |
| Black Cherry                   | .0               | 2.3         | .0                   | .0          | 2.3         | 100.0 |
| Red maple/northern hardwoods   | 269.8            | 350.8       | 7.1                  | .0          | 627.7       | 13.4  |
| Mixed northern hardwoods       | 244.4            | 161.9       | 15.8                 | .0          | 422.2       | 18.0  |
| Northern hardwoods group       | 893.6            | 710.7       | 24.6                 | .0          | 1,628.9     | 7.7   |
| Aspen                          | 13.7             | 31.7        | .6                   | .0          | 46.0        | 39.8  |
| Paper birch                    | 22.3             | 7.2         | 4.6                  | .0          | 34.1        | 55.5  |
| Gray birch                     | .0               | .0          | .5                   | .0          | .5          | 100.0 |
| Aspen/birch group              | 36.0             | 38.9        | 5.7                  | .0          | 80.6        | 32.7  |
| All forest types               | 3,263.2          | 1,369.2     | 46.3                 | .0          | 4,678.7     | 2.7   |
| SE                             | 5.2              | 8.0         | 27.9                 | .0          | 2.7         |       |

Percent of growing-stock volume by forest-type group  
Southern Unit, New Hampshire, 1997

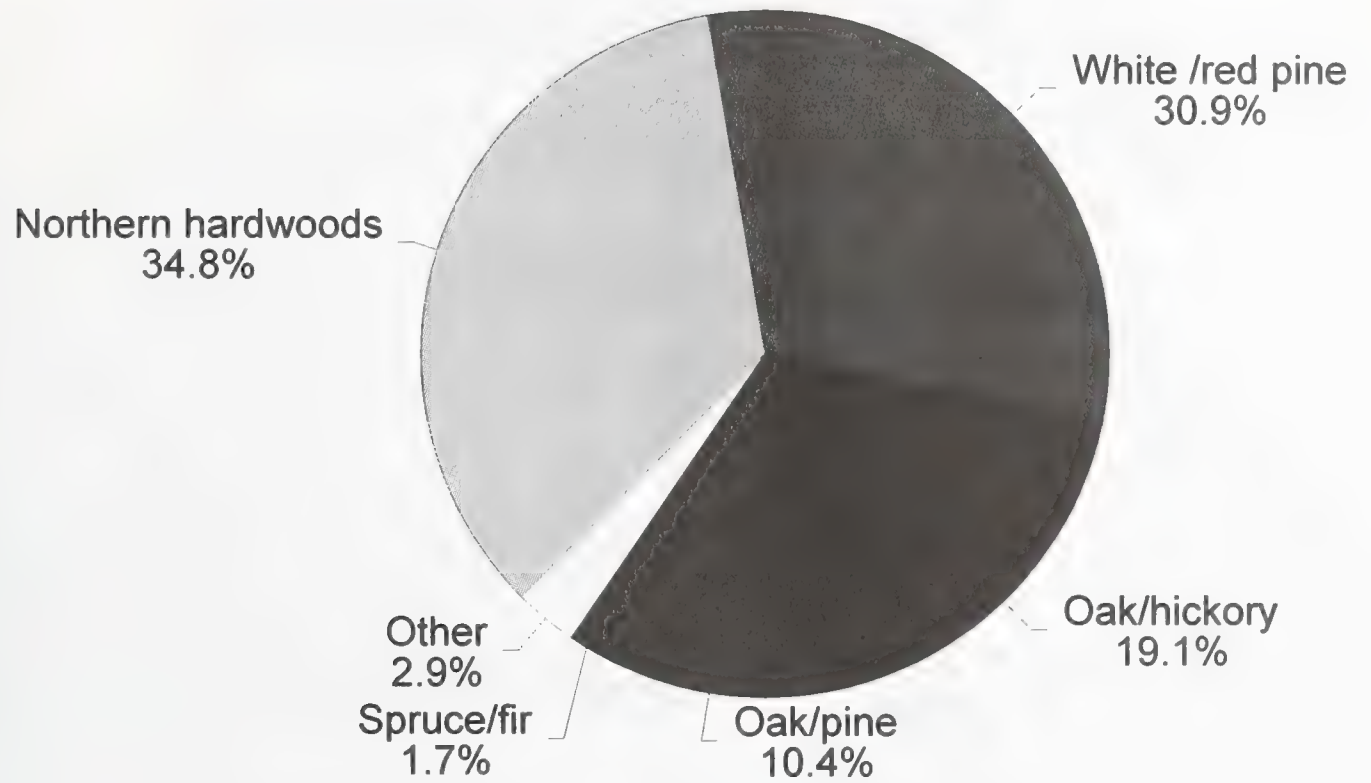


Table 69.--Net volume of growing-stock trees on timberland by species and forest-type group, Southern Unit, New Hampshire, 1983

(In millions of cubic feet)

| Species group             | Forest-type group |             |                    |              |              |             |                   |                    |              |  |  | Total          | SE         |
|---------------------------|-------------------|-------------|--------------------|--------------|--------------|-------------|-------------------|--------------------|--------------|--|--|----------------|------------|
|                           | White/red pine    | Spruce/fir  | Loblolly/shortleaf | Oak/pine     | Oak/hickory  | Oak/cypress | Elm/ash/red maple | Northern hardwoods | Aspen/birch  |  |  |                |            |
| Balsam fir                | 2.1               | 4.0         | .0                 | .0           | .5           | .0          | .0                | 7.0                | 1.4          |  |  | 15.0           | 31.5       |
| Tamarack                  | .0                | .0          | .0                 | .0           | .0           | .0          | .0                | .6                 | .0           |  |  | .6             | 100.0      |
| Black spruce              | 4.6               | .0          | .0                 | .0           | .0           | .0          | .0                | .5                 | .0           |  |  | 5.1            | 90.7       |
| Red spruce                | 20.2              | 28.6        | .0                 | .0           | 4.2          | .0          | .0                | 36.8               | 6.6          |  |  | 96.3           | 22.4       |
| Red pine                  | 28.3              | .0          | .0                 | 1.8          | .6           | .0          | .0                | .3                 | .0           |  |  | 31.1           | 50.0       |
| White pine                | 826.6             | .0          | .0                 | 129.6        | 116.3        | .0          | 2.2               | 242.5              | 28.6         |  |  | 1,345.8        | 7.5        |
| Hemlock                   | 200.0             | .6          | .0                 | 23.8         | 42.8         | .0          | .3                | 127.6              | 8.9          |  |  | 404.1          | 10.9       |
| Other softwoods           | 7.1               | .0          | .0                 | 2.7          | 1.5          | .0          | .0                | .0                 | .0           |  |  | 11.3           | 44.3       |
| <b>Total softwoods</b>    | <b>1,088.8</b>    | <b>33.1</b> | <b>.0</b>          | <b>158.0</b> | <b>165.8</b> | <b>.0</b>   | <b>2.5</b>        | <b>415.4</b>       | <b>45.5</b>  |  |  | <b>1,909.3</b> | <b>5.6</b> |
| Sugar maple               | 9.5               | 1.1         | .0                 | 1.7          | 6.8          | .0          | .0                | 157.9              | 6.0          |  |  | 182.8          | 13.9       |
| Red maple                 | 91.2              | 2.3         | .0                 | 26.4         | 79.9         | .0          | 23.7              | 390.3              | 22.1         |  |  | 635.8          | 6.5        |
| Yellow birch              | 2.7               | .5          | .0                 | .3           | 3.6          | .0          | .4                | 76.2               | 1.0          |  |  | 84.7           | 14.6       |
| Paper birch               | 23.8              | .7          | .0                 | 10.9         | 19.0         | .0          | .0                | 109.2              | 39.4         |  |  | 203.0          | 10.4       |
| Beech                     | 5.2               | .0          | .0                 | 1.1          | 9.4          | .0          | .0                | 109.3              | 1.1          |  |  | 126.0          | 15.2       |
| White ash                 | 17.2              | .7          | .0                 | 2.8          | 7.4          | .0          | .0                | 93.3               | 1.0          |  |  | 122.4          | 16.4       |
| Black ash                 | .0                | .0          | .0                 | .0           | .6           | .0          | .0                | 9.3                | .0           |  |  | 9.9            | 83.3       |
| Aspen                     | 22.6              | .0          | .0                 | 1.9          | 8.4          | .0          | .0                | 16.2               | 44.9         |  |  | 94.0           | 22.5       |
| White oaks                | 12.3              | .0          | .0                 | 6.1          | 44.5         | .0          | .0                | 8.3                | .4           |  |  | 71.6           | 17.4       |
| Red oaks                  | 58.2              | 1.4         | .0                 | 38.6         | 304.0        | .0          | .0                | 135.1              | 15.3         |  |  | 552.5          | 7.4        |
| Basswood                  | 1.9               | .0          | .0                 | .0           | .5           | .0          | .0                | 12.0               | .0           |  |  | 14.4           | 33.1       |
| Elm                       | 5.1               | .0          | .0                 | .4           | 2.9          | .0          | .0                | 3.5                | .0           |  |  | 11.9           | 28.0       |
| Other hardwoods           | 23.0              | .0          | .0                 | 1.1          | 31.9         | .0          | 1.2               | 75.5               | 3.4          |  |  | 136.1          | 11.0       |
| <b>Total hardwoods</b>    | <b>272.6</b>      | <b>6.7</b>  | <b>.0</b>          | <b>91.3</b>  | <b>518.8</b> | <b>.0</b>   | <b>25.3</b>       | <b>1,196.1</b>     | <b>134.7</b> |  |  | <b>2,245.3</b> | <b>3.6</b> |
| <b>Total, all species</b> | <b>1,361.4</b>    | <b>39.7</b> | <b>.0</b>          | <b>249.3</b> | <b>684.6</b> | <b>.0</b>   | <b>27.8</b>       | <b>1,611.5</b>     | <b>180.3</b> |  |  | <b>4,154.6</b> | <b>2.5</b> |
| SE                        | 10.2              | 53.6        | .0                 | 24.9         | 12.5         | .0          | 52.8              | 7.4                | 26.5         |  |  | 2.5            |            |

Table 70.--Net volume of growing-stock trees on timberland by species and forest-type group, Southern Unit, New Hampshire, 1997  
(In millions of cubic feet)

| Species group      | Forest-type group |            |                    |          |             |                 |                   |                    |             |      | Total   | SE    |
|--------------------|-------------------|------------|--------------------|----------|-------------|-----------------|-------------------|--------------------|-------------|------|---------|-------|
|                    | White/red pine    | Spruce/fir | Loblolly/shortleaf | Oak/pine | Oak/hickory | Oak/gum/cypress | Elm/ash/red maple | Northern hardwoods | Aspen/birch |      |         |       |
| Balsam fir         | 4.6               | 3.6        | .0                 | .1       | 2.1         | .0              | .0                | .2                 | 15.9        | .0   | 26.5    | 27.4  |
| Tamarack           | .5                | .0         | .0                 | .0       | .0          | .0              | .0                | .0                 | .1          | .0   | .7      | 62.7  |
| Black spruce       | .0                | .0         | .0                 | .0       | .0          | .0              | .0                | .0                 | .0          | .1   | .1      | 100.0 |
| Red spruce         | 19.2              | 56.5       | .0                 | .8       | 8.7         | .0              | .0                | .0                 | 41.2        | 4.9  | 131.3   | 20.6  |
| Red pine           | 18.1              | .0         | .0                 | .5       | 1.8         | .0              | .0                | .0                 | 2.2         | .5   | 23.1    | 51.7  |
| White pine         | 772.8             | 1.2        | .0                 | 268.7    | 134.4       | .0              | .0                | 9.1                | 226.5       | 23.0 | 1,435.6 | 6.7   |
| Hemlock            | 273.9             | 3.2        | .0                 | 48.5     | 39.1        | .0              | .0                | 1.3                | 139.4       | 1.2  | 506.5   | 10.0  |
| Other softwoods    | 1.4               | .0         | .0                 | .5       | .6          | .0              | .0                | .0                 | .6          | .0   | 3.2     | 40.5  |
| Total softwoods    | 1,090.6           | 64.4       | .0                 | 319.0    | 186.8       | .0              | .0                | 10.6               | 425.9       | 29.6 | 2,127.0 | 5.0   |
| Sugar maple        | 9.2               | .0         | .0                 | 1.3      | 7.4         | .0              | .0                | .2                 | 144.0       | .0   | 162.0   | 17.8  |
| Red maple          | 132.1             | 11.4       | .0                 | 63.0     | 142.3       | .0              | .0                | 40.9               | 417.3       | 13.5 | 820.4   | 5.5   |
| Yellow birch       | 9.1               | .4         | .0                 | 2.6      | 8.0         | .0              | .0                | .1                 | 82.2        | .3   | 102.8   | 13.5  |
| Paper birch        | 32.6              | 3.2        | .0                 | 8.0      | 28.2        | .0              | .0                | .1                 | 103.6       | 8.3  | 184.0   | 9.0   |
| Beech              | 12.9              | .0         | .0                 | 2.2      | 35.3        | .0              | .0                | .0                 | 103.9       | .8   | 155.0   | 14.7  |
| White ash          | 15.7              | .0         | .0                 | 14.4     | 17.8        | .0              | .0                | .0                 | 97.5        | .5   | 145.9   | 13.6  |
| Black ash          | .0                | .0         | .0                 | .0       | .0          | .0              | .0                | .0                 | .5          | .0   | .5      | 100.0 |
| Aspen              | 26.6              | .0         | .0                 | 4.9      | 3.8         | .0              | .0                | .4                 | 39.4        | 18.3 | 93.4    | 17.7  |
| White oaks         | 12.9              | .0         | .0                 | 3.7      | 44.7        | .0              | .0                | .0                 | 2.6         | 1.1  | 65.0    | 16.0  |
| Red oaks           | 81.6              | 1.3        | .0                 | 61.7     | 382.1       | .0              | .0                | .3                 | 118.4       | 5.2  | 650.7   | 7.4   |
| Basswood           | 1.1               | .0         | .0                 | .0       | 1.5         | .0              | .0                | .0                 | 6.3         | .9   | 9.8     | 31.1  |
| Elm                | 6.0               | .0         | .0                 | .0       | .0          | .0              | .0                | .7                 | 1.2         | .1   | 8.0     | 42.4  |
| Other hardwoods    | 17.4              | .2         | .0                 | 7.0      | 37.4        | .0              | .0                | 4.1                | 86.0        | 2.0  | 154.1   | 10.9  |
| Total hardwoods    | 357.3             | 16.5       | .0                 | 168.8    | 708.5       | .0              | .0                | 46.7               | 1,203.0     | 50.9 | 2,551.7 | 3.6   |
| Total, all species | 1,447.8           | 80.9       | .0                 | 487.9    | 895.3       | .0              | .0                | 57.2               | 1,628.9     | 80.6 | 4,678.7 | 2.7   |
| SE                 | 8.8               | 41.2       | .0                 | 19.3     | 10.9        | .0              | .0                | 33.9               | 7.7         | 32.7 | 2.7     |       |

Table 71.--Net volume of growing-stock in the sawlog portion of sawtimber trees on timberland by species and diameter class, Southern Unit, New Hampshire, 1997

| Species group             | (In millions of cubic feet)              |               |               |               |               |               |               |             |                |    | All classes | SE         |
|---------------------------|--|---------------|---------------|---------------|---------------|---------------|---------------|-------------|----------------|----|-------------|------------|
|                           | Diameter class (inches at breast height) |               |               |               |               |               |               |             |                |    |             |            |
|                           | 9.0-<br>10.9                             | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0+       |                |    |             |            |
| Balsam fir                | 3.2                                      | 3.8           | 3.1           | .0            | .0            | .0            | .0            | .0          | .0             | .0 | 10.1        | 36.9       |
| Tamarack                  | .2                                       | .0            | .0            | .0            | .0            | .0            | .0            | .0          | .0             | .0 | .2          | 100.0      |
| Red spruce                | 18.7                                     | 27.0          | 12.8          | 8.9           | 4.9           | 2.0           | .0            | .0          | .0             | .0 | 74.2        | 23.2       |
| Red pine                  | 4.5                                      | 3.1           | 10.4          | 1.4           | .0            | .0            | .0            | .0          | .0             | .0 | 19.4        | 54.5       |
| White pine                | 118.4                                    | 162.3         | 193.5         | 174.8         | 105.1         | 128.8         | 210.5         | 52.5        | 1,145.8        |    |             | 7.1        |
| Hemlock                   | 63.7                                     | 79.0          | 69.2          | 46.1          | 33.8          | 15.5          | 21.9          | .0          | 329.2          |    |             | 11.5       |
| Other softwoods           | .0                                       | 1.3           | 1.1           | .0            | .0            | .0            | .0            | .0          | 2.4            |    |             | 46.4       |
| <b>Total softwoods</b>    | <b>208.7</b>                             | <b>276.4</b>  | <b>290.1</b>  | <b>231.2</b>  | <b>143.7</b>  | <b>146.3</b>  | <b>232.5</b>  | <b>52.5</b> | <b>1,581.4</b> |    |             | <b>5.6</b> |
| Sugar maple               | .0                                       | 15.1          | 15.9          | 12.0          | 5.3           | 4.8           | 9.3           | 13.2        | 75.6           |    |             | 23.5       |
| Red maple                 | .0                                       | 89.1          | 62.0          | 33.9          | 31.3          | 14.7          | 24.9          | .0          | 255.9          |    |             | 9.7        |
| Yellow birch              | .0                                       | 15.1          | 8.3           | 8.4           | 4.7           | 4.8           | 1.8           | .0          | 43.1           |    |             | 18.5       |
| Paper birch               | .0                                       | 28.8          | 14.8          | 5.8           | 1.6           | .0            | .0            | .0          | 51.0           |    |             | 16.1       |
| Beech                     | .0                                       | 21.7          | 17.0          | 19.1          | 6.2           | 2.5           | 4.5           | .0          | 71.0           |    |             | 18.6       |
| White ash                 | .0                                       | 17.9          | 22.5          | 8.6           | 4.0           | 9.8           | 2.2           | 4.1         | 69.1           |    |             | 17.6       |
| Aspen                     | .0                                       | 13.1          | 12.5          | 2.3           | .0            | 2.2           | .0            | .0          | 30.2           |    |             | 21.5       |
| White oaks                | .0                                       | 7.7           | 9.2           | 2.6           | 6.5           | 1.5           | 2.5           | .0          | 29.9           |    |             | 21.9       |
| Red oaks                  | .0                                       | 100.3         | 89.9          | 50.4          | 41.0          | 33.2          | 32.0          | 7.4         | 354.2          |    |             | 8.6        |
| Basswood                  | .0                                       | 1.6           | 2.3           | .0            | .0            | .0            | .0            | .0          | 4.0            |    |             | 46.1       |
| Elm                       | .0                                       | .6            | 1.3           | 1.1           | .0            | .0            | .0            | .0          | 3.0            |    |             | 62.2       |
| Other hardwoods           | .0                                       | 16.1          | 15.5          | 4.3           | 3.2           | .0            | .0            | .0          | 39.2           |    |             | 18.6       |
| <b>Total hardwoods</b>    | <b>.0</b>                                | <b>327.1</b>  | <b>271.4</b>  | <b>148.4</b>  | <b>103.9</b>  | <b>73.5</b>   | <b>77.2</b>   | <b>24.7</b> | <b>1,026.2</b> |    |             | <b>5.2</b> |
| <b>Total, all species</b> | <b>208.7</b>                             | <b>603.5</b>  | <b>561.5</b>  | <b>379.7</b>  | <b>247.6</b>  | <b>219.8</b>  | <b>309.6</b>  | <b>77.2</b> | <b>2,607.6</b> |    |             | <b>3.8</b> |
| SE                        | 6.4                                      | 4.2           | 4.9           | 6.5           | 8.9           | 11.6          | 11.6          | 26.5        | 3.8            |    |             |            |



Sawtimber volume on timberland, for selected species and percent change, Southern Unit of New Hampshire, 1983 and 1997  
 (Volume increased by 25.4 percent for all species)

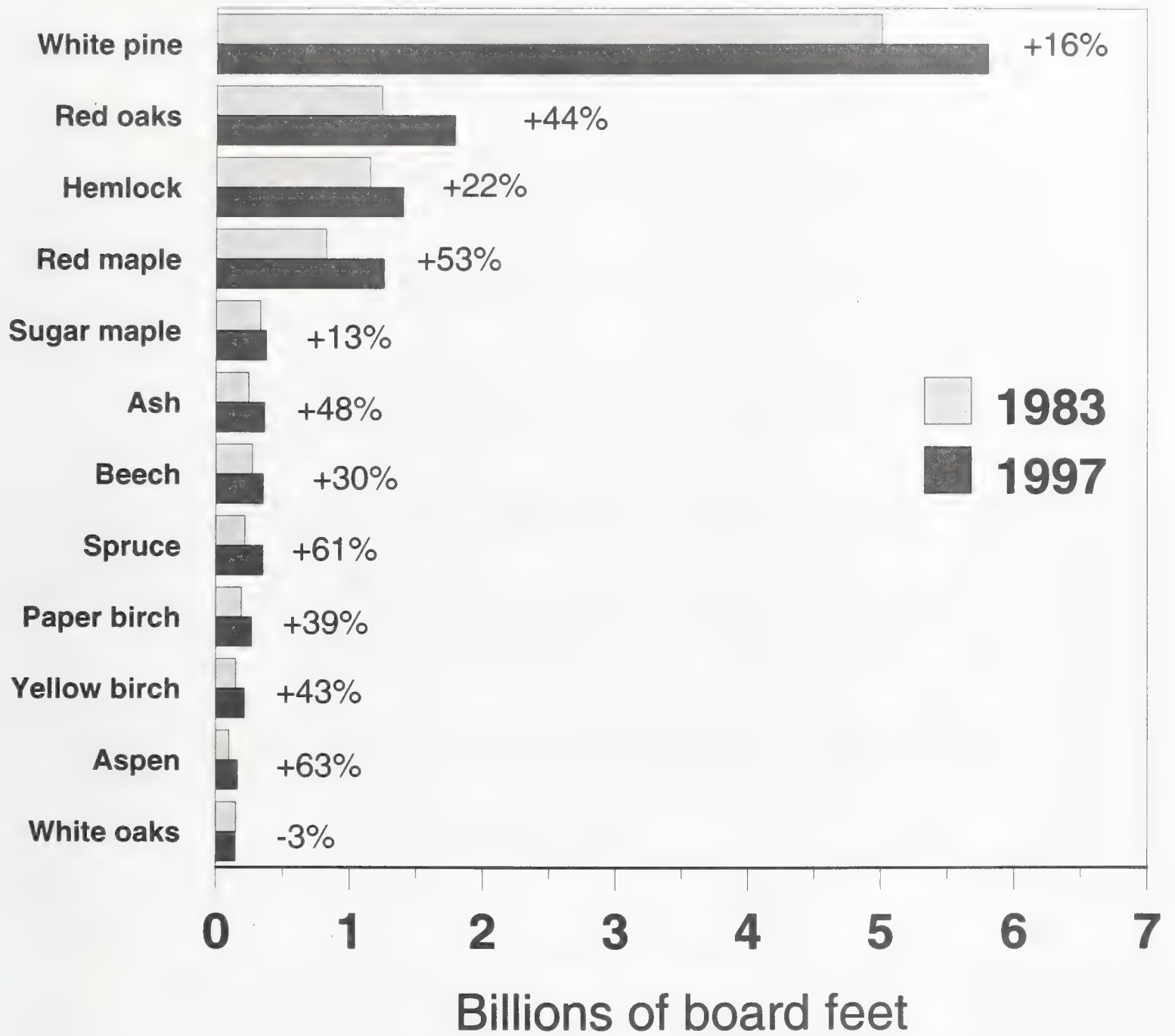


Table 72.--Net volume of sawtimber trees on timberland by species and diameter class, Southern Unit, New Hampshire, 1983

(In millions of board feet)

| Species group             | Diameter class (inches at breast height) |                |                |                |                |               |                |              |                 |            | All classes     | SE         |
|---------------------------|--|----------------|----------------|----------------|----------------|---------------|----------------|--------------|-----------------|------------|-----------------|------------|
|                           | 9.0-<br>10.9                             | 11.0-<br>12.9  | 13.0-<br>14.9  | 15.0-<br>16.9  | 17.0-<br>18.9  | 19.0-<br>20.9 | 21.0-<br>28.9  | 29.0+        |                 |            |                 |            |
| Balsam fir                | 12.8                                     | 9.0            | 5.6            | .0             | .0             | .0            | .0             | .0           | .0              | .0         | 27.5            | 53.0       |
| Black spruce              | 1.5                                      | 2.3            | 3.9            | .0             | .0             | .0            | .0             | .0           | .0              | .0         | 7.7             | 100.0      |
| Red spruce                | 64.4                                     | 65.7           | 34.6           | 16.3           | 4.9            | 20.0          | 6.1            | .0           | 211.9           | 26.9       | 211.9           | 26.9       |
| Red pine                  | 14.6                                     | 40.3           | 35.1           | 29.3           | 5.0            | .0            | .0             | .0           | 124.2           | .0         | 124.2           | 53.9       |
| White pine                | 591.9                                    | 823.6          | 913.9          | 779.9          | 649.0          | 407.1         | 719.5          | 124.3        | 5,009.1         | 7.9        | 5,009.1         | 7.9        |
| Hemlock                   | 217.7                                    | 302.8          | 218.4          | 163.6          | 125.0          | 74.4          | 50.7           | .0           | 1,152.6         | 12.3       | 1,152.6         | 12.3       |
| Other softwoods           | 12.5                                     | 9.5            | 6.4            | 2.9            | .0             | .0            | .0             | .0           | 31.3            | 44.7       | 31.3            | 44.7       |
| <b>Total softwoods</b>    | <b>915.3</b>                             | <b>1,253.2</b> | <b>1,217.8</b> | <b>992.0</b>   | <b>783.8</b>   | <b>501.6</b>  | <b>776.2</b>   | <b>124.3</b> | <b>6,564.1</b>  | <b>6.3</b> | <b>6,564.1</b>  | <b>6.3</b> |
| Sugar maple               | .0                                       | 108.7          | 86.9           | 39.5           | 30.1           | 26.5          | 28.7           | 13.5         | 333.8           | 15.1       | 333.8           | 15.1       |
| Red maple                 | .0                                       | 354.3          | 210.8          | 101.7          | 76.9           | 39.2          | 42.2           | .0           | 825.0           | 10.0       | 825.0           | 10.0       |
| Yellow birch              | .0                                       | 47.6           | 20.2           | 48.2           | 15.0           | 8.6           | 6.5            | 5.6          | 151.8           | 17.5       | 151.8           | 17.5       |
| Paper birch               | .0                                       | 103.3          | 56.3           | 11.2           | 9.5            | 10.7          | 2.6            | .0           | 193.7           | 18.2       | 193.7           | 18.2       |
| Beech                     | .0                                       | 81.6           | 91.6           | 60.5           | 28.5           | .0            | 12.7           | .0           | 274.8           | 18.0       | 274.8           | 18.0       |
| White ash                 | .0                                       | 82.5           | 71.2           | 28.8           | 26.6           | .0            | 20.0           | .0           | 229.0           | 22.1       | 229.0           | 22.1       |
| Black ash                 | .0                                       | 8.7            | 9.0            | .0             | .0             | .0            | .0             | .0           | 17.7            | 87.5       | 17.7            | 87.5       |
| Aspen                     | .0                                       | 49.8           | 24.1           | 6.7            | 14.9           | 5.8           | .0             | .0           | 101.3           | 26.3       | 101.3           | 26.3       |
| White oaks                | .0                                       | 56.6           | 28.4           | 30.5           | 11.8           | 3.3           | 7.2            | 15.6         | 153.4           | 21.6       | 153.4           | 21.6       |
| Red oaks                  | .0                                       | 401.7          | 303.8          | 197.4          | 160.6          | 51.6          | 125.0          | .0           | 1,240.1         | 9.0        | 1,240.1         | 9.0        |
| Basswood                  | .0                                       | 9.4            | .0             | 2.9            | 5.0            | .0            | .0             | .0           | 17.2            | 43.0       | 17.2            | 43.0       |
| Elm                       | .0                                       | 6.0            | 8.7            | 6.6            | 6.0            | .0            | 5.5            | .0           | 32.9            | 33.6       | 32.9            | 33.6       |
| Other hardwoods           | .0                                       | 72.6           | 33.0           | 33.1           | 12.4           | .0            | .0             | .0           | 151.1           | 17.8       | 151.1           | 17.8       |
| <b>Total hardwoods</b>    | <b>.0</b>                                | <b>1,382.8</b> | <b>943.9</b>   | <b>567.2</b>   | <b>397.4</b>   | <b>145.7</b>  | <b>250.1</b>   | <b>34.7</b>  | <b>3,722.0</b>  | <b>5.3</b> | <b>3,722.0</b>  | <b>5.3</b> |
| <b>Total, all species</b> | <b>915.3</b>                             | <b>2,636.0</b> | <b>2,161.8</b> | <b>1,559.2</b> | <b>1,181.2</b> | <b>647.3</b>  | <b>1,026.4</b> | <b>159.0</b> | <b>10,286.1</b> | <b>4.0</b> | <b>10,286.1</b> | <b>4.0</b> |
| SE                        | 7.1                                      | 3.9            | 5.2            | 6.5            | 8.4            | 10.4          | 11.4           | 27.0         | 4.0             |            |                 |            |

Table 73.--Net volume of sawtimber trees on timberland by species and diameter class, Southern Unit, New Hampshire, 1997

| Species group             | Diameter class (inches at breast height) |              |       |                |       |                |       |                |       |                | All classes | SE             |       |                |       |              |                 |            |
|---------------------------|--|--------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------------|----------------|-------|----------------|-------|--------------|-----------------|------------|
|                           | 9.0-                                     |              | 11.0- |                | 13.0- |                | 15.0- |                | 17.0- |                |             |                | 19.0- |                | 21.0- |              | 29.0+           |            |
|                           | 10.9                                     | 15.1         | 12.9  | 18.1           | 14.9  | 14.2           | 16.9  | 15.0           | 18.9  | 17.0           |             |                | 20.9  | 19.0           | 28.9  | 21.0         | 29.0+           |            |
| Balsam fir                |  | 15.1         |       | 18.1           |       | 14.2           |       | .0             |       | .0             |             | .0             |       | .0             |       | .0           | 47.5            | 38.0       |
| Tamarack                  |  | .6           |       | .0             |       | .0             |       | .0             |       | .0             |             | .0             |       | .0             |       | .0           | .6              | 100.0      |
| Red spruce                |  | 80.0         |       | 134.0          |       | 64.3           |       | 45.6           |       | 22.2           |             | 8.0            |       | .0             |       | .0           | 354.1           | 23.8       |
| Red pine                  |  | 17.4         |       | 14.3           |       | 56.8           |       | 7.9            |       | .0             |             | .0             |       | .0             |       | .0           | 96.5            | 59.1       |
| White pine                |  | 479.6        |       | 751.7          |       | 965.9          |       | 910.9          |       | 545.5          |             | 690.2          |       | 1,157.9        |       | 305.0        | 5,806.8         | 7.3        |
| Hemlock                   |  | 234.4        |       | 326.7          |       | 295.7          |       | 208.3          |       | 159.2          |             | 72.5           |       | 104.6          |       | .0           | 1,401.4         | 12.0       |
| Other softwoods           |  | .0           |       | 5.4            |       | 5.0            |       | .0             |       | .0             |             | .0             |       | .0             |       | .0           | 10.4            | 46.7       |
| <b>Total softwoods</b>    |  | <b>827.1</b> |       | <b>1,250.3</b> |       | <b>1,401.9</b> |       | <b>1,172.8</b> |       | <b>727.0</b>   |             | <b>770.7</b>   |       | <b>1,262.5</b> |       | <b>305.0</b> | <b>7,717.3</b>  | <b>5.9</b> |
| Sugar maple               |  | .0           |       | 77.9           |       | 80.5           |       | 60.2           |       | 24.5           |             | 23.5           |       | 43.9           |       | 68.0         | 378.4           | 23.7       |
| Red maple                 |  | .0           |       | 450.0          |       | 294.8          |       | 161.4          |       | 149.7          |             | 79.4           |       | 124.0          |       | .0           | 1,259.3         | 10.0       |
| Yellow birch              |  | .0           |       | 80.9           |       | 38.6           |       | 38.6           |       | 26.2           |             | 21.3           |       | 10.8           |       | .0           | 216.5           | 18.9       |
| Paper birch               |  | .0           |       | 157.3          |       | 75.4           |       | 30.1           |       | 7.2            |             | .0             |       | .0             |       | .0           | 270.1           | 16.3       |
| Beech                     |  | .0           |       | 114.7          |       | 83.7           |       | 94.9           |       | 31.9           |             | 12.0           |       | 19.5           |       | .0           | 356.8           | 18.7       |
| White ash                 |  | .0           |       | 99.8           |       | 118.2          |       | 40.9           |       | 19.0           |             | 51.3           |       | 10.5           |       | 25.4         | 365.1           | 17.5       |
| Aspen                     |  | .0           |       | 71.9           |       | 68.8           |       | 11.9           |       | .0             |             | 12.2           |       | .0             |       | .0           | 164.9           | 21.2       |
| White oaks                |  | .0           |       | 39.5           |       | 43.2           |       | 12.9           |       | 28.1           |             | 8.9            |       | 15.6           |       | .0           | 148.1           | 23.0       |
| Red oaks                  |  | .0           |       | 506.9          |       | 444.3          |       | 246.3          |       | 203.3          |             | 177.1          |       | 168.9          |       | 43.1         | 1,789.9         | 8.7        |
| Basswood                  |  | .0           |       | 6.2            |       | 11.6           |       | .0             |       | .0             |             | .0             |       | .0             |       | .0           | 17.8            | 47.8       |
| Elm                       |  | .0           |       | 4.0            |       | 6.1            |       | 6.5            |       | .0             |             | .0             |       | .0             |       | .0           | 16.6            | 63.5       |
| Other hardwoods           |  | .0           |       | 81.8           |       | 76.3           |       | 22.0           |       | 14.0           |             | .0             |       | .0             |       | .0           | 194.2           | 18.9       |
| <b>Total hardwoods</b>    |  | <b>.0</b>    |       | <b>1,690.9</b> |       | <b>1,341.6</b> |       | <b>725.7</b>   |       | <b>504.0</b>   |             | <b>385.8</b>   |       | <b>393.2</b>   |       | <b>136.5</b> | <b>5,177.7</b>  | <b>5.4</b> |
| <b>Total, all species</b> |  | <b>827.1</b> |       | <b>2,941.2</b> |       | <b>2,743.5</b> |       | <b>1,898.4</b> |       | <b>1,231.0</b> |             | <b>1,156.4</b> |       | <b>1,655.7</b> |       | <b>441.5</b> | <b>12,895.0</b> | <b>4.0</b> |
| SE                        |  | 6.5          |       | 4.3            |       | 5.0            |       | 6.7            |       | 9.1            |             | 11.9           |       | 11.8           |       | 26.9         | 4.0             |            |

Table 74.--Average annual net change of growing-stock volume on timberland by species and component of change, Southern Unit, New Hampshire, 1997

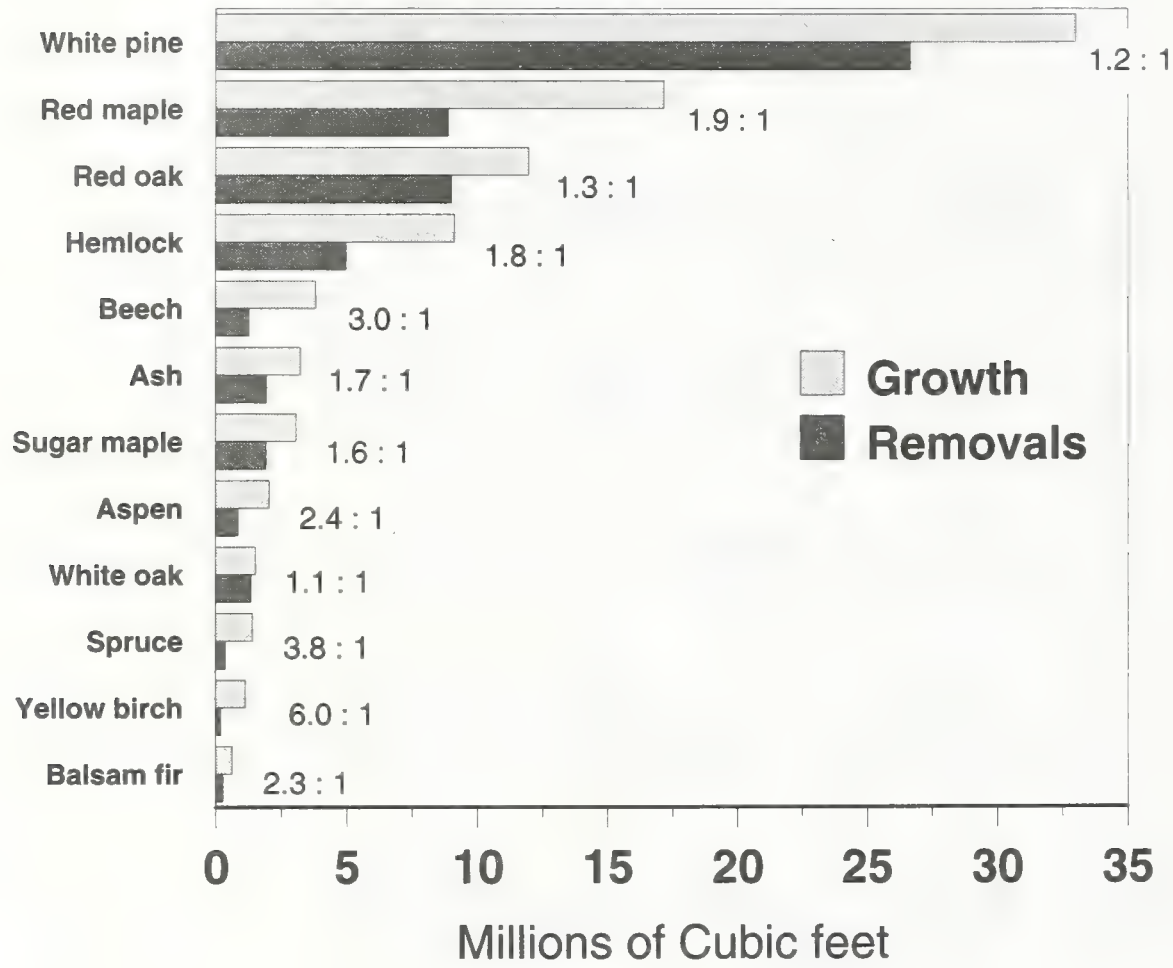
| Species group             | Component of change<br>(In thousands of cubic feet) |               |                |                |                |                |               | Net change     |               |
|---------------------------|---|---------------|----------------|----------------|----------------|----------------|---------------|----------------|---------------|
|                           | Ingrowth  | Accretion     | Gross growth   | Mortality      | Cull decrement | Cull increment | Net growth    |                | Removals      |
| Balsam fir                | 682   | 144           | 826            | -148           | 51             | -102           | 627           | -274           | 353           |
| Tamarack                  | 0   | 0             | 0              | 0              | 73             | 0              | 73            | 0              | 73            |
| Black spruce              | 0   | 31            | 31             | -155           | 0              | 0              | -124          | -153           | -277          |
| Red spruce                | 793   | 1,506         | 2,299          | -551           | 51             | -265           | 1,532         | -219           | 1,313         |
| Red pine                  | 32  | 194           | 227            | 0              | 35             | -72            | 190           | -1,319         | -1,129        |
| White pine                | 9,464   | 23,056        | 32,520         | -2,522         | 5,315          | -2,297         | 33,015        | -26,673        | 6,342         |
| Hemlock                   | 6,028   | 6,575         | 12,603         | -1,473         | 1,139          | -3,138         | 9,131         | -4,977         | 4,154         |
| Other softwoods           | 10  | 1             | 11             | -36            | 24             | 0              | 0             | -39            | -40           |
| <b>Total softwoods</b>    | <b>17,009</b>                                       | <b>31,509</b> | <b>48,518</b>  | <b>-4,886</b>  | <b>6,688</b>   | <b>-5,874</b>  | <b>44,446</b> | <b>-33,655</b> | <b>10,791</b> |
| Sugar maple               | 1,283   | 1,753         | 3,037          | -516           | 1,185          | -632           | 3,073         | -1,925         | 1,148         |
| Red maple                 | 6,647   | 9,662         | 16,309         | -2,485         | 5,780          | -2,427         | 17,177        | -8,892         | 8,285         |
| Yellow birch              | 1,067   | 800           | 1,868          | -1,159         | 745            | -315           | 1,138         | -190           | 949           |
| Paper birch               | 1,270   | 1,654         | 2,924          | -2,421         | 482            | -562           | 422           | -1,663         | -1,241        |
| Beech                     | 1,090   | 2,226         | 3,316          | -539           | 1,757          | -715           | 3,819         | -1,265         | 2,554         |
| White ash                 | 2,216   | 2,276         | 4,492          | -1,255         | 92             | -87            | 3,242         | -1,940         | 1,302         |
| Aspen                     | 1,179   | 2,189         | 3,368          | -1,668         | 471            | -124           | 2,047         | -861           | 1,186         |
| White oaks                | 519   | 929           | 1,448          | -158           | 365            | -123           | 1,532         | -1,361         | 171           |
| Red oaks                  | 6,008   | 6,308         | 12,316         | -1,871         | 1,683          | -146           | 11,982        | -9,011         | 2,971         |
| Basswood                  | 87  | 339           | 426            | 0              | 40             | -32            | 435           | -65            | 370           |
| Elm                       | 48  | 0             | 48             | -417           | 0              | 0              | -368          | -244           | -613          |
| Other hardwoods           | 2,023   | 2,342         | 4,365          | -856           | 781            | -124           | 4,166         | -891           | 3,275         |
| <b>Total hardwoods</b>    | <b>23,438</b>                                       | <b>30,480</b> | <b>53,918</b>  | <b>-13,344</b> | <b>13,379</b>  | <b>-5,289</b>  | <b>48,665</b> | <b>-28,307</b> | <b>20,357</b> |
| <b>Total, all species</b> | <b>40,447</b>                                       | <b>61,989</b> | <b>102,436</b> | <b>-18,231</b> | <b>20,068</b>  | <b>-11,163</b> | <b>93,111</b> | <b>-61,963</b> | <b>31,148</b> |

Table 75.--Average annual net change of sawtimber volume on timberland by species and component of change, Southern Unit, New Hampshire, 1997

| Species group             | Component of change |                |                |                |                |                |                | Net change      |                |
|---------------------------|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|
|                           | Ingrowth            | Accretion      | Gross growth   | Mortality      | Cull decrement | Cull increment | Net growth     |                 | Removals       |
| Balsam fir                | 790                 | 217            | 1,006          | -403           | 0              | 0              | 603            | -401            | 202            |
| Black spruce              | 101                 | 0              | 101            | 0              | 0              | 0              | 101            | -690            | -589           |
| Red spruce                | 4,133               | 4,881          | 9,013          | -1,329         | 122            | -1,241         | 6,566          | -795            | 5,771          |
| Red pine                  | 109                 | 1,085          | 1,194          | 0              | 0              | -309           | 885            | -5,928          | -5,043         |
| White pine                | 50,263              | 115,661        | 165,925        | -5,353         | 16,421         | -9,182         | 167,811        | -107,920        | 59,891         |
| Hemlock                   | 16,696              | 18,880         | 35,577         | -3,379         | 2,290          | -10,814        | 23,674         | -16,337         | 7,336          |
| Other softwoods           | 0                   | 4              | 4              | -127           | 0              | 0              | -123           | -145            | -268           |
| <b>Total softwoods</b>    | <b>72,092</b>       | <b>140,728</b> | <b>212,821</b> | <b>-10,590</b> | <b>18,833</b>  | <b>-21,546</b> | <b>199,518</b> | <b>-132,217</b> | <b>67,301</b>  |
| Sugar maple               | 5,206               | 3,263          | 8,470          | -498           | 4,060          | -1,745         | 10,287         | -3,957          | 6,330          |
| Red maple                 | 25,869              | 10,496         | 36,365         | -2,483         | 6,361          | -5,602         | 34,641         | -14,693         | 19,947         |
| Yellow birch              | 3,738               | 1,856          | 5,595          | -1,141         | 1,270          | -569           | 5,156          | -527            | 4,629          |
| Paper birch               | 6,861               | 1,716          | 8,577          | -1,593         | 220            | -546           | 6,658          | -1,562          | 5,097          |
| Beech                     | 5,652               | 3,797          | 9,449          | -859           | 1,644          | -1,323         | 8,910          | -2,139          | 6,772          |
| White ash                 | 6,524               | 4,662          | 11,186         | -1,955         | 0              | 0              | 9,231          | -5,063          | 4,168          |
| Aspen                     | 6,275               | 2,825          | 9,100          | -1,932         | 217            | -491           | 6,894          | -2,258          | 4,635          |
| White oaks                | 2,039               | 1,399          | 3,438          | 0              | 488            | -580           | 3,346          | -2,795          | 551            |
| Red oaks                  | 35,208              | 20,381         | 55,589         | -2,875         | 2,605          | -272           | 55,047         | -24,058         | 30,988         |
| Basswood                  | 440                 | 1,301          | 1,741          | 0              | 0              | 0              | 1,741          | 0               | 1,741          |
| Elm                       | 0                   | 0              | 0              | -1,404         | 0              | 0              | -1,404         | -1,209          | -2,613         |
| Other hardwoods           | 6,678               | 2,077          | 8,755          | -928           | 1,827          | 0              | 9,654          | -1,053          | 8,601          |
| <b>Total hardwoods</b>    | <b>104,491</b>      | <b>53,774</b>  | <b>158,265</b> | <b>-15,669</b> | <b>18,692</b>  | <b>-11,127</b> | <b>150,161</b> | <b>-59,313</b>  | <b>90,848</b>  |
| <b>Total, all species</b> | <b>176,583</b>      | <b>194,502</b> | <b>371,086</b> | <b>-26,260</b> | <b>37,525</b>  | <b>-32,673</b> | <b>349,679</b> | <b>-191,530</b> | <b>158,149</b> |

Average annual growth and removals of growing-stock volume and ratio of growth to removals for selected species on timberland, Southern Unit of New Hampshire, 1983-97

(Ratio of growth/removals for all species is 1.5 : 1)



# COUNTY TABLES



Table 76.--Net land area by county, and land class, New Hampshire, 1997

(In thousands of acres)

| County        | Land class |                    |                 |                  |                   |                | All classes |
|---------------|------------|--------------------|-----------------|------------------|-------------------|----------------|-------------|
|               | Timberland | Other-urban forest | Reserved forest | Other res forest | Total forest land | Nonforest land |             |
| Carroll       | 502.0      | 14.3               | .0              | .0               | 516.2             | 81.5           | 597.7       |
| Coos          | 1,037.1    | 15.3               | 49.6            | 6.3              | 1,108.4           | 44.0           | 1,152.4     |
| Grafton       | 821.1      | 39.4               | 99.0            | 2.0              | 961.5             | 135.2          | 1,096.6     |
| Northern Unit | 2,360.2    | 69.0               | 148.6           | 8.3              | 2,586.1           | 260.7          | 2,846.8     |
| Belknap       | 200.9      | 4.5                | .0              | .0               | 205.4             | 51.4           | 256.8       |
| Cheshire      | 366.2      | 8.7                | .0              | .0               | 375.0             | 77.8           | 452.8       |
| Hillsborough  | 383.0      | 15.7               | .0              | .0               | 398.6             | 162.3          | 560.9       |
| Merrimack     | 474.1      | 31.6               | .0              | .0               | 505.7             | 92.4           | 598.1       |
| Rockingham    | 284.2      | 28.8               | .0              | .0               | 313.0             | 132.0          | 444.9       |
| Strafford     | 158.9      | .0                 | .0              | .0               | 158.9             | 77.1           | 236.1       |
| Sullivan      | 281.1      | .0                 | .0              | .0               | 281.1             | 62.8           | 344.0       |
| Southern Unit | 2,148.5    | 89.2               | .0              | .0               | 2,237.7           | 655.9          | 2,893.6     |
| Total         | 4,508.6    | 158.2              | 148.6           | 8.3              | 4,823.8           | 916.6          | 5,740.4     |



Table 77.--Area of timberland by county and ownership class, New Hampshire, 1997

(In thousands of acres)

| County        | Ownership class    |                  |       |                         |                    |        |        | Individual | Corporate | All<br>ownerships | SE |
|---------------|--------------------|------------------|-------|-------------------------|--------------------|--------|--------|------------|-----------|-------------------|----|
|               | National<br>Forest | Misc.<br>federal | State | County and<br>municipal | Forest<br>industry | Farmer | Farmer |            |           |                   |    |
| Carroll       | 153.2              | .0               | 10.4  | .0                      | 5.5                | .0     | 105.1  | 227.8      | 502.0     | 3.1               |    |
| Coos          | 154.7              | .0               | 66.1  | 6.1                     | 434.6              | 13.9   | 135.1  | 226.6      | 1,037.1   | 2.2               |    |
| Grafton       | 217.7              | .0               | 10.9  | 10.9                    | 12.6               | .0     | 124.2  | 444.7      | 821.1     | 3.6               |    |
| Northern Unit | 525.6              | .0               | 87.4  | 17.0                    | 452.7              | 13.9   | 364.5  | 899.1      | 2,360.2   | 1.7               |    |
| Belknap       | .0                 | .0               | 22.4  | .0                      | .0                 | .0     | 6.7    | 171.8      | 200.9     | 3.5               |    |
| Cheshire      | .0                 | 6.7              | 6.2   | 39.3                    | .0                 | .0     | 90.8   | 223.2      | 366.2     | 2.9               |    |
| Hillsborough  | .0                 | 5.0              | .0    | 16.5                    | .0                 | 2.1    | 82.6   | 276.8      | 383.0     | 4.0               |    |
| Merrimack     | .0                 | 10.7             | 26.3  | 22.9                    | 5.0                | 4.8    | 81.3   | 323.1      | 474.1     | 2.3               |    |
| Rockingham    | .0                 | .0               | 24.1  | 27.5                    | .0                 | .0     | 38.7   | 193.9      | 284.2     | 6.1               |    |
| Strafford     | .0                 | .0               | 6.3   | .0                      | .0                 | .0     | 19.5   | 133.1      | 158.9     | 5.7               |    |
| Sullivan      | .0                 | .0               | 42.7  | .0                      | .0                 | 5.6    | 43.3   | 189.6      | 281.1     | 3.2               |    |
| Southern Unit | .0                 | 22.3             | 128.0 | 106.2                   | 5.0                | 12.5   | 362.9  | 1,511.5    | 2,148.5   | 1.5               |    |
| Total         | 525.6              | 22.3             | 215.4 | 123.2                   | 457.7              | 26.4   | 727.4  | 2,410.7    | 4,508.6   | 1.1               |    |
| SE            | 6.3                | 50.7             | 15.9  | 21.2                    | 8.2                | 46.2   | 8.1    | 3.1        | 1.1       |                   |    |

Table 78.--Area of timberland by county and forest-type group, New Hampshire, 1997

(In thousands of acres)

| County        | Forest-type group |            |                    |          |             |                 |                   |                    |             |         | Total | SE |
|---------------|-------------------|------------|--------------------|----------|-------------|-----------------|-------------------|--------------------|-------------|---------|-------|----|
|               | White/red pine    | Spruce/fir | Loblolly/shortleaf | Oak/pine | Oak/hickory | Oak/gum/cypress | Elm/ash/red maple | Northern hardwoods | Aspen/birch |         |       |    |
| Carroll       | 88.8              | 5.3        | 15.5               | 22.5     | 101.5       | .0              | 14.0              | 241.2              | 13.0        | 502.0   | 3.1   |    |
| Coos          | 9.4               | 252.7      | .0                 | .0       | 6.5         | .0              | 7.5               | 653.3              | 107.8       | 1,037.1 | 2.2   |    |
| Grafton       | 90.5              | 113.5      | .0                 | 12.7     | 43.8        | .0              | .0                | 501.1              | 59.4        | 821.1   | 3.6   |    |
| Northern Unit | 188.7             | 371.6      | 15.5               | 35.3     | 151.8       | .0              | 21.5              | 1,395.6            | 180.2       | 2,360.2 | 1.7   |    |
| Belknap       | 70.1              | 6.7        | .0                 | 13.5     | 44.9        | .0              | .0                | 61.2               | 4.6         | 200.9   | 3.5   |    |
| Cheshire      | 66.3              | 6.1        | .0                 | 17.9     | 84.8        | .0              | 12.6              | 167.3              | 11.3        | 366.2   | 2.9   |    |
| Hillsborough  | 124.5             | 1.5        | .0                 | 32.9     | 88.8        | .0              | 17.5              | 114.4              | 3.3         | 383.0   | 4.0   |    |
| Merrimack     | 133.1             | 4.4        | .0                 | 48.3     | 82.2        | .0              | 6.2               | 173.6              | 26.3        | 474.1   | 2.3   |    |
| Rockingham    | 86.8              | .0         | .0                 | 20.3     | 83.0        | .0              | 13.2              | 63.0               | 17.8        | 284.2   | 6.1   |    |
| Strafford     | 19.5              | 6.8        | .0                 | 30.6     | 29.3        | .0              | 1.3               | 67.8               | 3.7         | 158.9   | 5.7   |    |
| Sullivan      | 61.1              | 12.9       | .0                 | 6.4      | 32.4        | .0              | .0                | 158.0              | 10.3        | 281.1   | 3.2   |    |
| Southern Unit | 561.4             | 38.5       | .0                 | 169.9    | 445.4       | .0              | 50.8              | 805.3              | 77.2        | 2,148.5 | 1.5   |    |
| Total         | 750.1             | 410.1      | 15.5               | 205.2    | 597.1       | .0              | 72.3              | 2,200.9            | 257.4       | 4,508.6 | 1.1   |    |
| SE            | 7.2               | 11.1       | 56.0               | 15.7     | 8.8         | .0              | 26.9              | 3.7                | 14.5        | 1.1     |       |    |

Table 79.--Area of timberland by county and stand-size class, New Hampshire, 1997

(In thousands of acres)

| County        | Stand-size class |             |                      |             | All classes | SE  |
|---------------|------------------|-------------|----------------------|-------------|-------------|-----|
|               | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |     |
| Carroll       | 319.0            | 147.7       | 35.3                 | .0          | 502.0       | 3.1 |
| Coos          | 383.6            | 476.8       | 172.8                | 3.9         | 1,037.1     | 2.2 |
| Grafton       | 389.5            | 362.8       | 68.8                 | .0          | 821.1       | 3.6 |
| Northern Unit | 1,092.2          | 987.2       | 276.8                | 3.9         | 2,360.2     | 1.7 |
| Belknap       | 126.2            | 65.9        | 8.8                  | .0          | 200.9       | 3.5 |
| Cheshire      | 238.2            | 117.4       | 10.6                 | .0          | 366.2       | 2.9 |
| Hillsborough  | 259.1            | 110.6       | 13.2                 | .0          | 383.0       | 4.0 |
| Merrimack     | 236.1            | 213.7       | 19.3                 | 5.0         | 474.1       | 2.3 |
| Rockingham    | 164.4            | 92.4        | 27.3                 | .0          | 284.2       | 6.1 |
| Strafford     | 103.5            | 40.9        | 14.5                 | .0          | 158.9       | 5.7 |
| Sullivan      | 126.3            | 136.4       | 18.5                 | .0          | 281.1       | 3.2 |
| Southern Unit | 1,253.8          | 777.3       | 112.3                | 5.0         | 2,148.5     | 1.5 |
| Total         | 2,346.0          | 1,764.5     | 389.1                | 8.9         | 4,508.6     | 1.1 |
| SE            | 3.6              | 4.6         | 10.9                 | 71.3        | 1.1         |     |

Table 80.--Area of timberland by county and stocking class of growing-stock trees,  
New Hampshire, 1997

(In thousands of acres)

| County        | Stocking class |                |                    |               |              | All classes | SE  |
|---------------|----------------|----------------|--------------------|---------------|--------------|-------------|-----|
|               | Nonstocked     | Poorly stocked | Moderately stocked | Fully stocked | Over-stocked |             |     |
| Carroll       | 5.2            | 74.5           | 124.7              | 266.7         | 30.8         | 502.0       | 3.1 |
| Coos          | 56.9           | 272.2          | 349.5              | 338.9         | 19.7         | 1,037.1     | 2.2 |
| Grafton       | 5.4            | 97.6           | 284.1              | 382.5         | 51.4         | 821.1       | 3.6 |
| Northern Unit | 67.5           | 444.3          | 758.3              | 988.1         | 102.0        | 2,360.2     | 1.7 |
| Belknap       | .0             | 31.1           | 91.3               | 78.6          | .0           | 200.9       | 3.5 |
| Cheshire      | .0             | 37.8           | 115.9              | 193.7         | 18.8         | 366.2       | 2.9 |
| Hillsborough  | .0             | 34.1           | 151.6              | 186.5         | 10.7         | 383.0       | 4.0 |
| Merrimack     | 5.0            | 55.5           | 199.1              | 204.1         | 10.3         | 474.1       | 2.3 |
| Rockingham    | 9.9            | 23.8           | 123.9              | 109.7         | 16.9         | 284.2       | 6.1 |
| Strafford     | 1.6            | 38.6           | 61.6               | 53.5          | 3.6          | 158.9       | 5.7 |
| Sullivan      | 1.5            | 25.8           | 110.9              | 130.0         | 12.9         | 281.1       | 3.2 |
| Southern Unit | 18.0           | 246.6          | 854.4              | 956.1         | 73.3         | 2,148.5     | 1.5 |
| Total         | 85.5           | 690.8          | 1,612.8            | 1,944.3       | 175.3        | 4,508.6     | 1.1 |
| SE            | 25.0           | 8.2            | 4.9                | 4.3           | 17.2         | 1.1         |     |

Table 81.--Net volume of growing-stock trees on timberland by county and forest-type group, New Hampshire, 1997

(In millions of cubic feet)

| County        | Forest-type group |            |                    |          |             |                 |                   |                    |             |         | Total | SE |
|---------------|-------------------|------------|--------------------|----------|-------------|-----------------|-------------------|--------------------|-------------|---------|-------|----|
|               | White/red pine    | Spruce/fir | Loblolly/shortleaf | Oak/pine | Oak/hickory | Oak/gum/cypress | Elm/ash/red maple | Northern hardwoods | Aspen/birch |         |       |    |
| Carroll       | 266.4             | 21.5       | 34.7               | 62.9     | 188.0       | .0              | 13.5              | 517.2              | 2.2         | 1,106.3 | 7.1   |    |
| Coos          | 31.4              | 420.7      | .0                 | .0       | 8.0         | .0              | 6.7               | 920.2              | 169.1       | 1,556.1 | 5.4   |    |
| Grafton       | 255.9             | 196.3      | .0                 | 25.7     | 91.4        | .0              | .0                | 983.1              | 106.5       | 1,659.0 | 5.7   |    |
| Northern Unit | 553.7             | 638.5      | 34.7               | 88.6     | 287.4       | .0              | 20.2              | 2,420.5            | 277.8       | 4,321.4 | 3.5   |    |
| Belknap       | 165.1             | 14.5       | .0                 | 44.4     | 78.9        | .0              | .0                | 93.1               | 6.9         | 402.9   | 9.8   |    |
| Cheshire      | 176.0             | 12.4       | .0                 | 71.9     | 198.7       | .0              | 12.8              | 360.0              | 14.4        | 846.3   | 5.8   |    |
| Hillsborough  | 337.3             | 2.9        | .0                 | 101.4    | 192.8       | .0              | 20.9              | 265.8              | .0          | 921.1   | 6.4   |    |
| Merrimack     | 335.2             | 7.2        | .0                 | 124.4    | 148.3       | .0              | 8.4               | 345.1              | 38.4        | 1,007.0 | 5.8   |    |
| Rockingham    | 238.2             | .0         | .0                 | 38.2     | 170.9       | .0              | 10.2              | 135.6              | 8.5         | 601.6   | 8.8   |    |
| Strafford     | 45.4              | 9.8        | .0                 | 94.0     | 43.3        | .0              | 5.0               | 128.5              | 6.7         | 332.7   | 9.4   |    |
| Sullivan      | 150.5             | 34.1       | .0                 | 13.6     | 62.4        | .0              | .0                | 300.7              | 5.7         | 567.1   | 7.3   |    |
| Southern Unit | 1,447.8           | 80.9       | .0                 | 487.9    | 895.3       | .0              | 57.2              | 1,628.9            | 80.6        | 4,678.7 | 2.7   |    |
| Total         | 2,001.5           | 719.4      | 34.7               | 576.4    | 1,182.7     | .0              | 77.4              | 4,049.4            | 358.4       | 9,000.0 | 2.2   |    |
| SE            | 8.0               | 13.2       | 57.9               | 17.6     | 9.8         | .0              | 29.1              | 4.7                | 18.5        | 2.2     |       |    |

Table 82.--Net volume of growing-stock trees on timberland by county and stand-size class, New Hampshire, 1997

(In millions of cubic feet)

| County        | Stand-size class |             |                      |             | All classes | SE  |
|---------------|------------------|-------------|----------------------|-------------|-------------|-----|
|               | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |     |
| Carroll       | 876.6            | 220.4       | 9.3                  | .0          | 1,106.3     | 7.1 |
| Coos          | 734.0            | 772.4       | 49.8                 | .0          | 1,556.1     | 5.4 |
| Grafton       | 968.6            | 649.1       | 41.2                 | .0          | 1,659.0     | 5.7 |
| Northern Unit | 2,579.2          | 1,641.8     | 100.3                | .0          | 4,321.4     | 3.5 |
| Belknap       | 299.8            | 96.9        | 6.3                  | .0          | 402.9       | 9.8 |
| Cheshire      | 614.7            | 229.0       | 2.6                  | .0          | 846.3       | 5.8 |
| Hillsborough  | 705.2            | 206.7       | 9.2                  | .0          | 921.1       | 6.4 |
| Merrimack     | 639.7            | 359.3       | 8.0                  | .0          | 1,007.0     | 5.8 |
| Rockingham    | 421.3            | 175.4       | 5.0                  | .0          | 601.6       | 8.8 |
| Strafford     | 270.6            | 56.8        | 5.3                  | .0          | 332.7       | 9.4 |
| Sullivan      | 311.9            | 245.2       | 10.0                 | .0          | 567.1       | 7.3 |
| Southern Unit | 3,263.2          | 1,369.2     | 46.3                 | .0          | 4,678.7     | 2.7 |
| Total         | 5,842.4          | 3,011.0     | 146.6                | .0          | 9,000.0     | 2.2 |
| SE            | 4.1              | 5.5         | 17.5                 | .0          | 2.2         |     |

Table 83.--Net volume of sawtimber trees on timberland by county and forest-type group, New Hampshire, 1997

(In millions of board feet)

| County        | Forest-type group |            |                    |          |             |                 |                   |                    |             |          | Total | SE |
|---------------|-------------------|------------|--------------------|----------|-------------|-----------------|-------------------|--------------------|-------------|----------|-------|----|
|               | White/red pine    | Spruce/fir | Loblolly/shortleaf | Oak/pine | Oak/hickory | Oak/gum/cypress | Elm/ash/red maple | Northern hardwoods | Aspen/birch |          |       |    |
| Carroll       | 915.8             | 57.9       | 91.6               | 197.2    | 488.6       | .0              | 26.1              | 1,498.6            | .0          | 3,275.8  | 9.5   |    |
| Coos          | 113.9             | 852.7      | .0                 | .0       | 7.9         | .0              | 18.1              | 1,887.0            | 328.8       | 3,208.5  | 8.0   |    |
| Grafton       | 753.4             | 329.8      | .0                 | 67.8     | 196.0       | .0              | .0                | 2,339.1            | 209.7       | 3,895.9  | 7.8   |    |
| Northern Unit | 1,783.2           | 1,240.4    | 91.6               | 265.0    | 692.5       | .0              | 44.2              | 5,724.7            | 538.5       | 10,380.2 | 4.9   |    |
| Belknap       | 430.3             | 27.1       | .0                 | 159.2    | 196.1       | .0              | .0                | 214.0              | 7.8         | 1,034.5  | 16.4  |    |
| Cheshire      | 489.8             | 8.3        | .0                 | 294.7    | 538.1       | .0              | 34.9              | 886.9              | 32.8        | 2,285.5  | 9.1   |    |
| Hillsborough  | 1,131.3           | 7.6        | .0                 | 350.6    | 427.8       | .0              | 38.5              | 699.6              | .0          | 2,655.4  | 8.6   |    |
| Merrimack     | 1,072.1           | 9.3        | .0                 | 381.5    | 364.8       | .0              | 17.4              | 803.9              | 94.2        | 2,743.2  | 8.5   |    |
| Rockingham    | 800.4             | .0         | .0                 | 113.3    | 416.2       | .0              | 5.9               | 373.6              | 15.5        | 1,724.8  | 10.9  |    |
| Strafford     | 157.0             | 33.5       | .0                 | 342.2    | 97.3        | .0              | 9.5               | 342.4              | 23.2        | 1,005.2  | 14.0  |    |
| Sullivan      | 439.2             | 107.1      | .0                 | 52.0     | 122.4       | .0              | .0                | 718.8              | 7.0         | 1,446.4  | 11.2  |    |
| Southern Unit | 4,520.1           | 192.8      | .0                 | 1,693.5  | 2,162.7     | .0              | 106.2             | 4,039.1            | 180.5       | 12,895.0 | 4.0   |    |
| Total         | 6,303.3           | 1,433.2    | 91.6               | 1,958.5  | 2,855.1     | .0              | 150.3             | 9,763.9            | 719.1       | 23,275.1 | 3.1   |    |
| SE            | 8.7               | 15.0       | 69.3               | 19.1     | 11.1        | .0              | 34.0              | 5.8                | 22.5        | 3.1      |       |    |

Table 84.--Net volume of sawtimber trees on timberland by county and stand-size class, New Hampshire, 1997

(In millions of board feet)

| County        | Stand-size class |             |                      |             | All classes | SE   |
|---------------|------------------|-------------|----------------------|-------------|-------------|------|
|               | Saw-timber       | Pole-timber | Sapling and seedling | Non-stocked |             |      |
| Carroll       | 2,932.6          | 326.0       | 17.2                 | .0          | 3,275.8     | 9.5  |
| Coos          | 2,000.1          | 1,114.4     | 93.9                 | .0          | 3,208.5     | 8.0  |
| Grafton       | 2,821.3          | 980.5       | 94.0                 | .0          | 3,895.9     | 7.8  |
| Northern Unit | 7,754.1          | 2,420.9     | 205.2                | .0          | 10,380.2    | 4.9  |
| Belknap       | 892.6            | 132.1       | 9.8                  | .0          | 1,034.5     | 16.4 |
| Cheshire      | 1,870.0          | 408.8       | 6.7                  | .0          | 2,285.5     | 9.1  |
| Hillsborough  | 2,320.4          | 319.9       | 15.1                 | .0          | 2,655.4     | 8.6  |
| Merrimack     | 2,103.5          | 619.8       | 19.9                 | .0          | 2,743.2     | 8.5  |
| Rockingham    | 1,374.5          | 339.1       | 11.2                 | .0          | 1,724.8     | 10.9 |
| Strafford     | 887.1            | 114.1       | 4.0                  | .0          | 1,005.2     | 14.0 |
| Sullivan      | 954.3            | 468.2       | 23.9                 | .0          | 1,446.4     | 11.2 |
| Southern Unit | 10,402.3         | 2,402.0     | 90.6                 | .0          | 12,895.0    | 4.0  |
| Total         | 18,156.4         | 4,822.9     | 295.8                | .0          | 23,275.1    | 3.1  |
| SE            | 4.4              | 6.2         | 24.9                 | .0          | 3.1         |      |



Table 85.--Biomass of all trees and shrubs on timberland, by county and class of material, New Hampshire, 1997

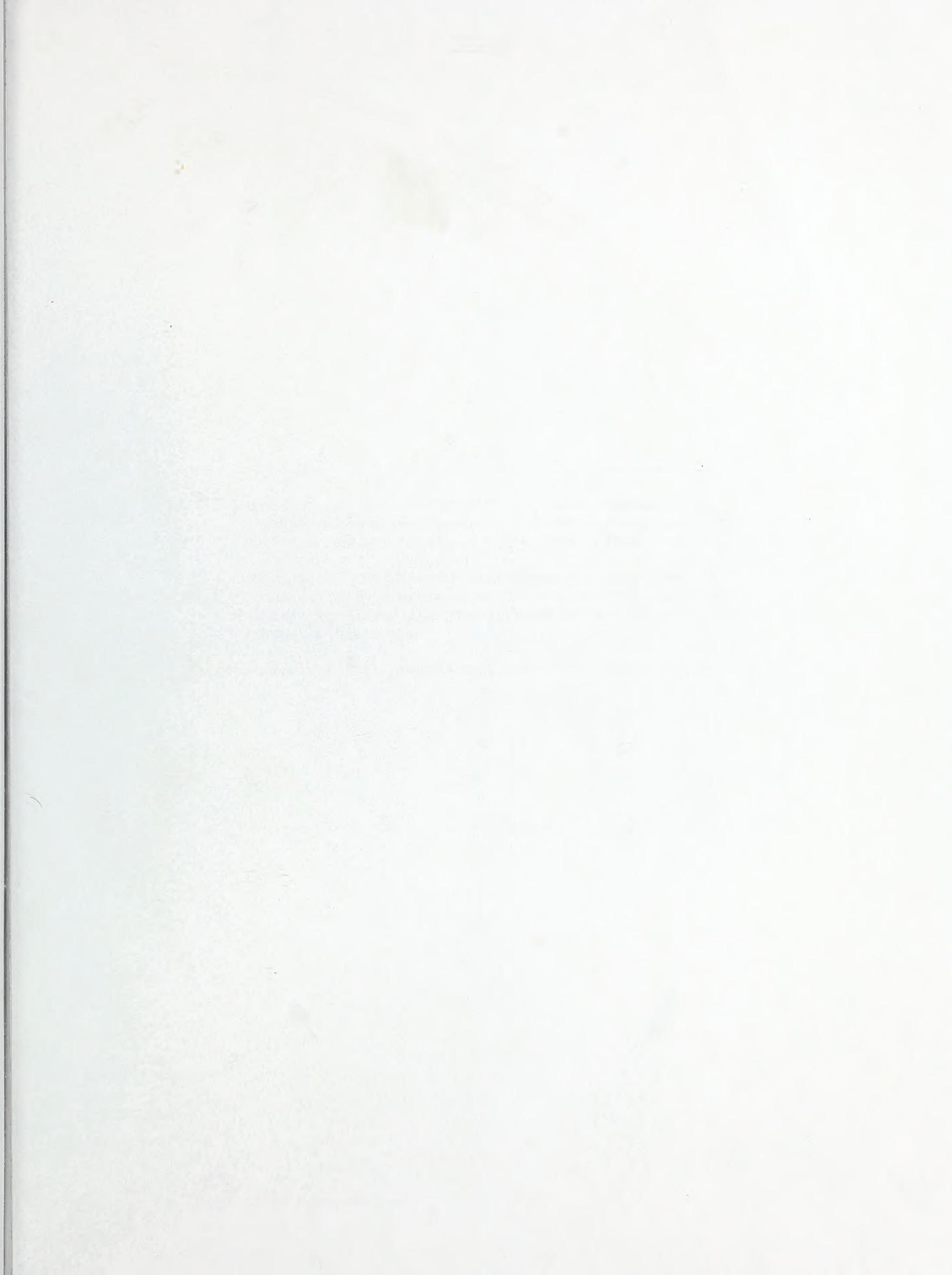
(In thousands of dry tons)

| County       | Timber  | Non-timber          |          |           |        | Total trees and shrubs | SE  |
|--------------|---------|---------------------|----------|-----------|--------|------------------------|-----|
|              |         | Salvable dead trees | Saplings | Seedlings | Shrubs |                        |     |
| Carroll      | 41,276  | 411                 | 3,456    | 681       | 115    | 45,939                 | 8.2 |
| Coos         | 59,730  | 1,137               | 8,045    | 1,704     | 660    | 71,275                 | 4.4 |
| Grafton      | 59,982  | 675                 | 6,610    | 1,310     | 230    | 68,807                 | 5.1 |
| Belknap      | 15,174  | 79                  | 1,670    | 213       | 49     | 17,185                 | 6.7 |
| Cheshire     | 32,038  | 276                 | 2,200    | 266       | 97     | 34,879                 | 5.4 |
| Hillsborough | 30,401  | 256                 | 2,353    | 259       | 187    | 33,456                 | 5.9 |
| Merrimack    | 35,940  | 573                 | 2,658    | 365       | 161    | 39,697                 | 4.3 |
| Rockingham   | 21,153  | 380                 | 1,582    | 178       | 139    | 23,433                 | 8.1 |
| Strafford    | 11,764  | 60                  | 1,177    | 154       | 54     | 13,209                 | 7.4 |
| Sullivan     | 21,669  | 216                 | 2,094    | 245       | 42     | 24,267                 | 6.1 |
| Total        | 329,127 | 4,063               | 31,847   | 5,374     | 1,736  | 372,147                | 2.0 |
| SE           | 2.2     | 8.2                 | 3.5      | 4.0       | 8.3    | 2.0                    |     |

Table 86.--Biomass of all timber on timberland, by county, class of timber, and component, New Hampshire, 1997

(In thousands of dry tons)

| County       | Growing stock trees |          |         |                 |            | Total timber | SE  |
|--------------|---------------------|----------|---------|-----------------|------------|--------------|-----|
|              | Growing stock       | Branches | Foliage | Stump and roots | Cull trees |              |     |
| Carroll      | 25,840              | 3,488    | 1,416   | 7,930           | 2,601      | 41,276       | 9.1 |
| Coos         | 35,263              | 4,927    | 2,136   | 11,165          | 6,239      | 59,730       | 5.0 |
| Grafton      | 35,921              | 5,032    | 2,170   | 11,354          | 5,505      | 59,982       | 5.4 |
| Belknap      | 8,529               | 1,246    | 573     | 2,712           | 2,113      | 15,174       | 7.9 |
| Cheshire     | 19,847              | 2,731    | 1,147   | 6,152           | 2,160      | 32,038       | 5.7 |
| Hillsborough | 19,030              | 2,736    | 1,233   | 5,984           | 1,418      | 30,401       | 6.2 |
| Merrimack    | 21,426              | 3,046    | 1,358   | 6,691           | 3,419      | 35,940       | 4.6 |
| Rockingham   | 12,934              | 1,842    | 836     | 4,025           | 1,516      | 21,153       | 8.7 |
| Strafford    | 7,213               | 1,009    | 430     | 2,246           | 867        | 11,764       | 8.4 |
| Sullivan     | 12,486              | 1,768    | 783     | 3,930           | 2,703      | 21,669       | 6.6 |
| Total        | 198,489             | 27,825   | 12,082  | 62,189          | 28,542     | 329,127      | 2.2 |
| SE           | 2.2                 | 2.1      | 2.3     | 2.2             | 5.9        | 2.2          |     |



|    |     |         |   |   |
|----|-----|---------|---|---|
| 1  | 100 | 5155114 | 1 | 2 |
| 2  | 100 | 5155114 | 1 | 2 |
| 3  | 100 | 5155114 | 1 | 2 |
| 4  | 100 | 5155114 | 1 | 2 |
| 5  | 100 | 5155114 | 1 | 2 |
| 6  | 100 | 5155114 | 1 | 2 |
| 7  | 100 | 5155114 | 1 | 2 |
| 8  | 100 | 5155114 | 1 | 2 |
| 9  | 100 | 5155114 | 1 | 2 |
| 10 | 100 | 5155114 | 1 | 2 |

Frieswyk, Thomas S.; Widmann Richard H. 2000. **Forest statistics for New Hampshire: 1983 and 1997**. Resour. Bull. NE-146. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station. 130 p.

A statistical report on the fifth forest inventory of New Hampshire (1996-1998). Findings are displayed in 86 tables containing estimates of forest area, numbers of trees, timber volume, growth, change, and biomass. Data are presented at three levels: state, county, and region.

**Keywords:** Forest survey, inventory, area, volume, growth, change, biomass.





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