



**United States  
Department of  
Agriculture**

**Forest Service**

**Northern  
Research Station**

**Resource Bulletin  
NRS-19**



# **Wisconsin Timber Industry: An Assessment of Timber Product Output and Use in 2003**

**William H. Reading, IV  
James W. Whipple**

---

---

## Abstract

Discusses recent forest industry trends in Wisconsin; reports production and receipts of industrial roundwood by product, species, and county in 2003. Also reports on logging residue, on wood and bark residue generated at primary wood-using mills, and on disposition of mill residues.

---

---

Manuscript received for publication 21 February 2007

---

---

Published by:  
USDA FOREST SERVICE  
11 CAMPUS BLVD SUITE 200  
NEWTOWN SQUARE PA 19073-3294

October 2007

For additional copies:  
USDA Forest Service  
Publications Distribution  
359 Main Road  
Delaware, OH 43015-8640  
Fax: (740)368-0152

---

---

Visit our homepage at: <http://www.nrs.fs.fed.us/>



## Contents

<b>Introduction</b> .....	1
The Authors.....	1
<b>Study Methods</b> .....	1
<b>Primary Timber Industry in Wisconsin</b> .....	2
Industrial Roundwood .....	2
Pulpwood .....	4
Saw logs .....	7
Veneer Logs.....	7
Other Products.....	8
Timber Removals .....	8
<b>Residues</b> .....	9
Harvest Residues.....	9
Primary Mill Residues .....	9
<b>Regional Trends</b> .....	9
All Regions.....	9
Northeastern Region.....	10
Northwestern Region .....	10
Central Region .....	10
Southwestern Region.....	11
<b>Acknowledgments</b> .....	12
<b>Literature Cited</b> .....	12
<b>Definition Of Terms</b> .....	12
<b>Common and Scientific Names of Tree Species</b>	
<b>Mentioned in this Report</b> .....	15
Softwoods .....	15
Hardwoods.....	15
<b>Table Titles</b> .....	18

## INTRODUCTION

This bulletin reports findings of a survey of all known primary wood-using mills in Wisconsin in 2003. Detailed are the industry's size and composition, its use of roundwood, and its generation and disposition of wood residues. This information is necessary for informed planning and decisionmaking in wood procurement, forest resource management and utilization, forest industry development, and research.

All volumes are reported in product-specific standard units and/or cubic feet. Volumes reported by mills in nonstandard units were converted to standard units using regional conversion factors. Reported trends and changes in the primary wood-using industry in Wisconsin are based on comparisons with previous surveys of the state's wood-using industry conducted in 1990, 1992, 1994, 1996, and 1999. Small changes in quantities may appear for previous years compared to previously published data because of changes made to correct errors and omissions in previous surveys.

## STUDY METHODS

The Wisconsin Department of Natural Resources (WIDNR) canvassed all primary wood-using mills within the state. Mail questionnaires were supplied by the U.S. Forest Service Northern Research Station (NRS) and designed to determine the size and composition of Wisconsin's primary wood-using industry, its use of roundwood, and its generation and disposition of wood residues. The WIDNR then contacted nonresponding mills through additional mailings, telephone calls, and personal contacts until achieving a 100 percent response. Completed questionnaires were sent to NRS for compilation and analysis.

As part of data processing and analysis, all industrial roundwood volumes reported on the questionnaires were converted to standard units of measure using regional conversion factors. Timber removals by source of material and harvest residues generated during logging were estimated from standard product volumes using factors developed from logging utilization studies previously conducted by NRS. Data on Wisconsin's industrial roundwood receipts were added to a regional timber removals database and supplemented with data on out-of-state uses of Wisconsin's roundwood to provide a complete assessment of Wisconsin's timber product output.

### The Authors

**William H. Reading IV**, Forester, received a B.S. in forest management in 1988 and an M.S. in forestry/forest mensuration in 1992 from Northern Arizona University. He worked as a consultant forester from 1992 until he joined the Forest Inventory and Analysis Unit at the Northern Research Station in 2000.

**James W. Whipple**, Wood Utilization Specialist, received his B.S. in forestry from Michigan Technological University in 1964. He joined the Wisconsin Department of Natural Resources as a field forester in July 1964 and has been a Utilization Specialist since 1970.

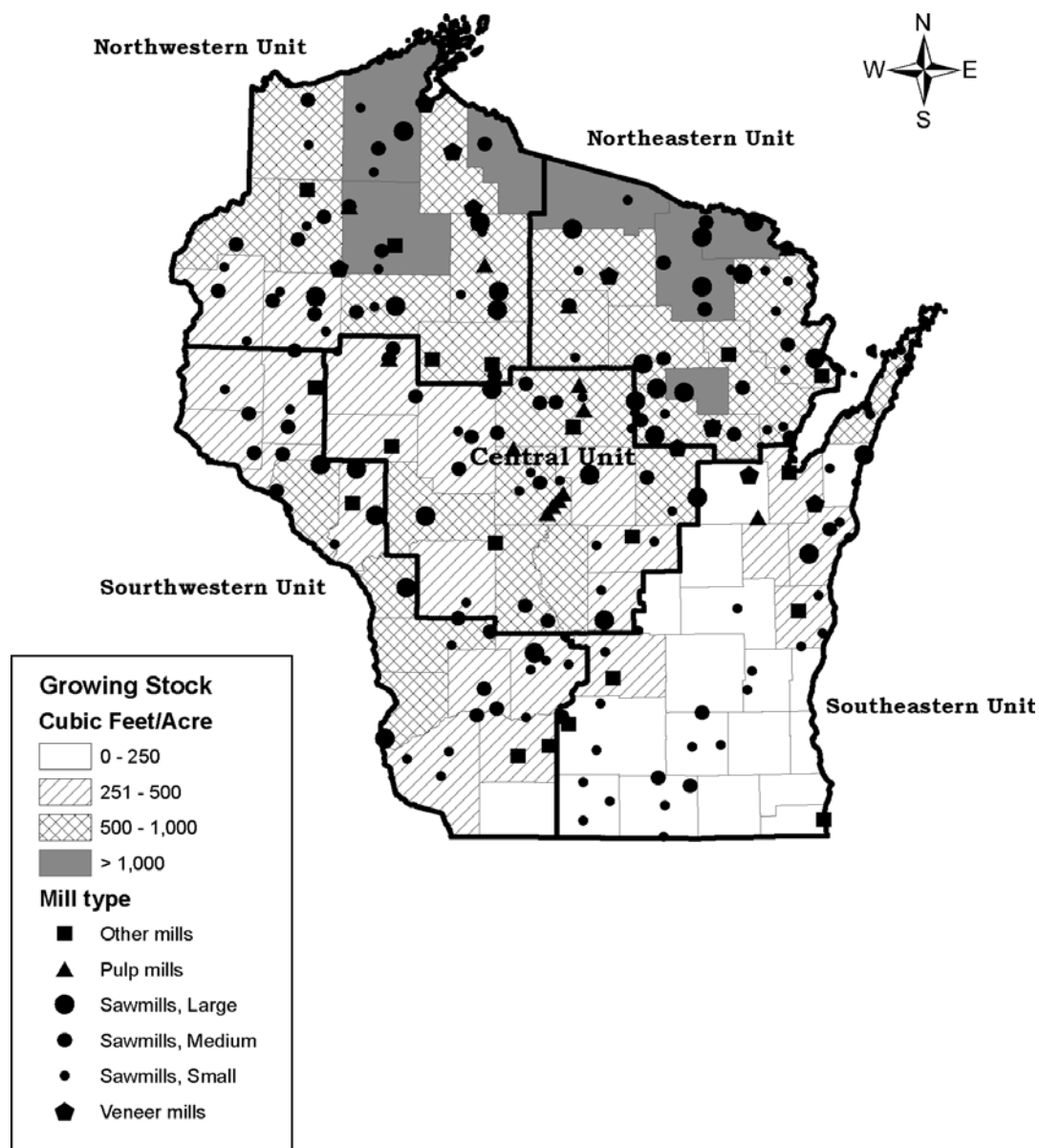


Figure 1.—Growing stock volume per acre by county, and location of primary wood-using mills, by mill type, Wisconsin, 2003.

## PRIMARY TIMBER INDUSTRY IN WISCONSIN

### Industrial Roundwood

- The number of large sawmills (mills sawing more than 5 million board feet/year) decreased from 38 to 32 mills between 1999 and 2003 (Table 1). The total roundwood receipts for large mills dropped 16 percent (Table 2).
- The number of medium-size mills (mills sawing between 1 and 5 million board feet/year) decreased from 80 to 69 mills between 1999 and 2003 (Table 1).
- The number of pulp mills (pulp mills, paper mills, particle board plants, oriented strand board (OSB) plants, waferboard plants, etc.) dropped from 19 to 17 mills between 1999 and 2003 (Table 1). Roundwood receipts for pulp mills dropped 2 percent (Table 2).

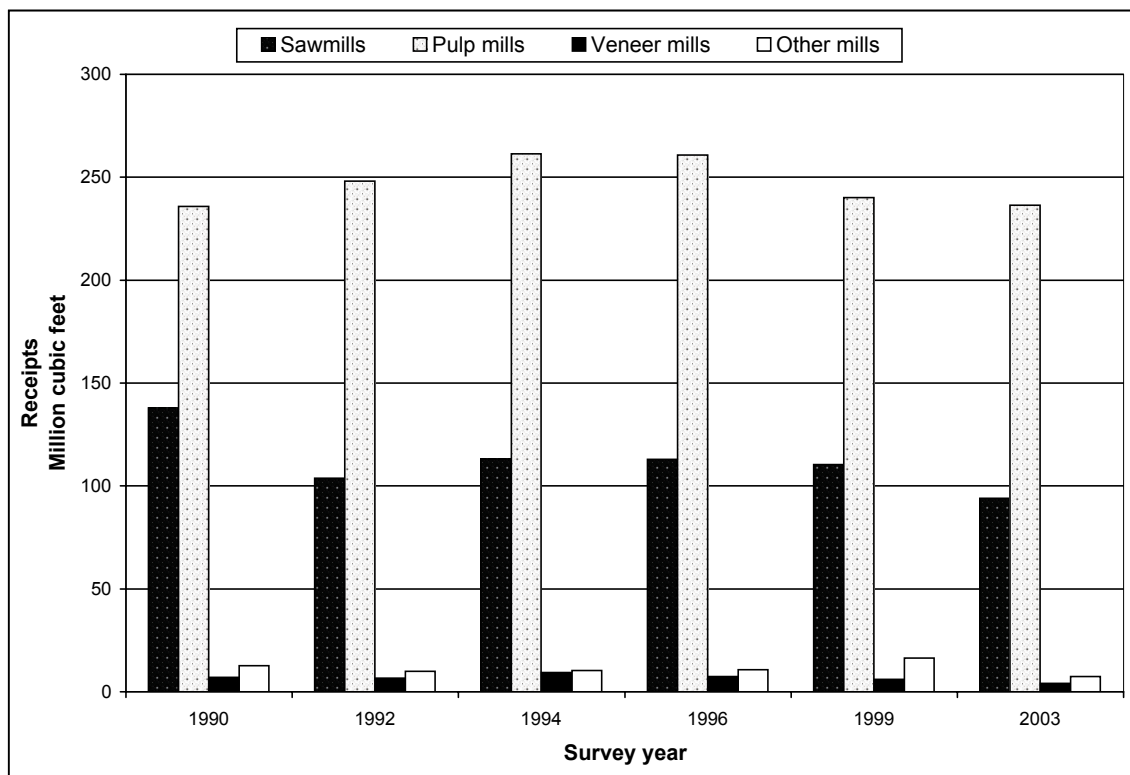


Figure 2.—Wisconsin industrial roundwood receipts by mill type and year.

- The total industrial receipts for softwood species decreased 13 percent from 1999 while hardwood receipts decreased 7 percent (Table 2). The result was an overall decrease in roundwood receipts of 8 percent from 1999.
- The total industrial roundwood production from Wisconsin forests totaled 361 million cubic feet (MMCF) in 2003 (Table 3). Roundwood production has remained stable during the previous two surveys. Roundwood production was 359 MMCF in 1996 and 363 MMCF in 1999.
- Hardwoods comprised 76 percent of the total mill receipts in 2003 (Table 2). The hardwood/softwood ratio has remained fairly constant over the last six survey periods (Table 2).
- Four species groups, which accounted for 10 MMCF or more of Wisconsin's forest production, had shifts of more than 10 percent from 1999 levels. These were jack pine (-35 percent), aspen (-16 percent), hard maple (+45 percent), and soft maple (+53 percent) (Table 3).
- While pulp mill receipts only decreased 2 percent from 1999 levels (Table 2, Fig. 2), mill receipts for all other mill categories decreased substantially.
- The location of mills with large production capacities, such as pulp mills and large sawmills, is highly correlated to the growing-stock inventory (Miles 2006) at the county level (Fig. 1).

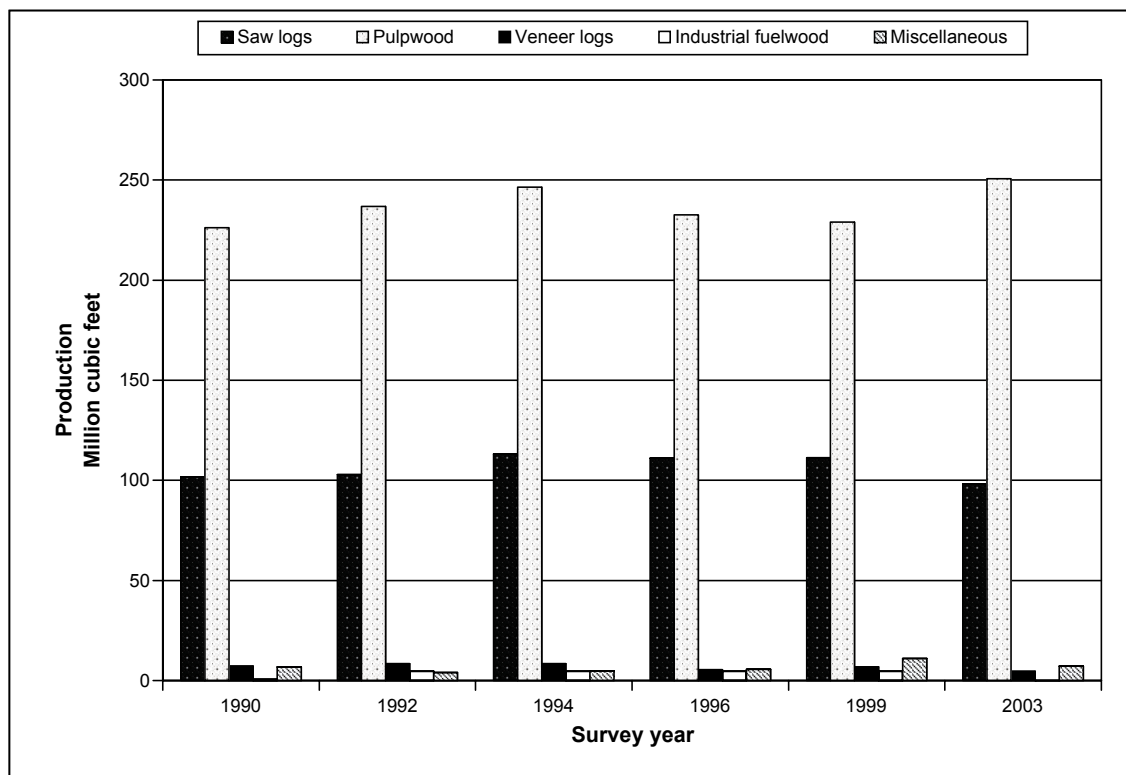


Figure 3.—Wisconsin industrial roundwood production by roundwood category and year.

## Pulpwood

- In 2003, Wisconsin’s pulpwood production increased to record levels (Table 5) with total production increasing from 3,336 thousand cords in 1999 to 3,549 thousand cords in 2003 (Table 5, Fig. 3). This includes pulpwood produced from roundwood (3,174 thousand cords) as well as mill residues from primary mills (375 thousand cords).
- There was a significant increase in Wisconsin’s pulpwood production shipped out of state. The percentage of Wisconsin’s pulpwood harvest shipped to Minnesota increased from 2 percent in 1999 to 10 percent in 2003 (Table 6, Fig. 4A, B). Pulpwood from roundwood shipped to Michigan also increased but by a smaller amount, from 6 to 7 percent. The percentage of pulpwood from roundwood delivered to Wisconsin mills decreased from 81 to 72 percent over the same period.
- Roundwood pulpwood production in Wisconsin increased by 9 percent from 1999 to 2003 (Table 8), but roundwood pulpwood receipts decreased from 3,039 thousand cords in 1999 to 2,993 cords in 2003 or -1.5 percent (Table 9, Fig. 3). Wisconsin’s forests produced 74 percent of the total roundwood pulpwood used (receipts) by Wisconsin mills. (Table 5, Fig. 5A, B) with the rest being supplied by other states.
- The ratio of roundwood receipts to residue receipts increased from 4.9:1 to 6.1:1 from 1999 to 2003 (Table 6).
- It appears that Wisconsin’s pulpwood industry has become less competitive as evidenced by increased exports to other states, an overall increase in production, a decrease in receipts, and a decrease in imports from other states.

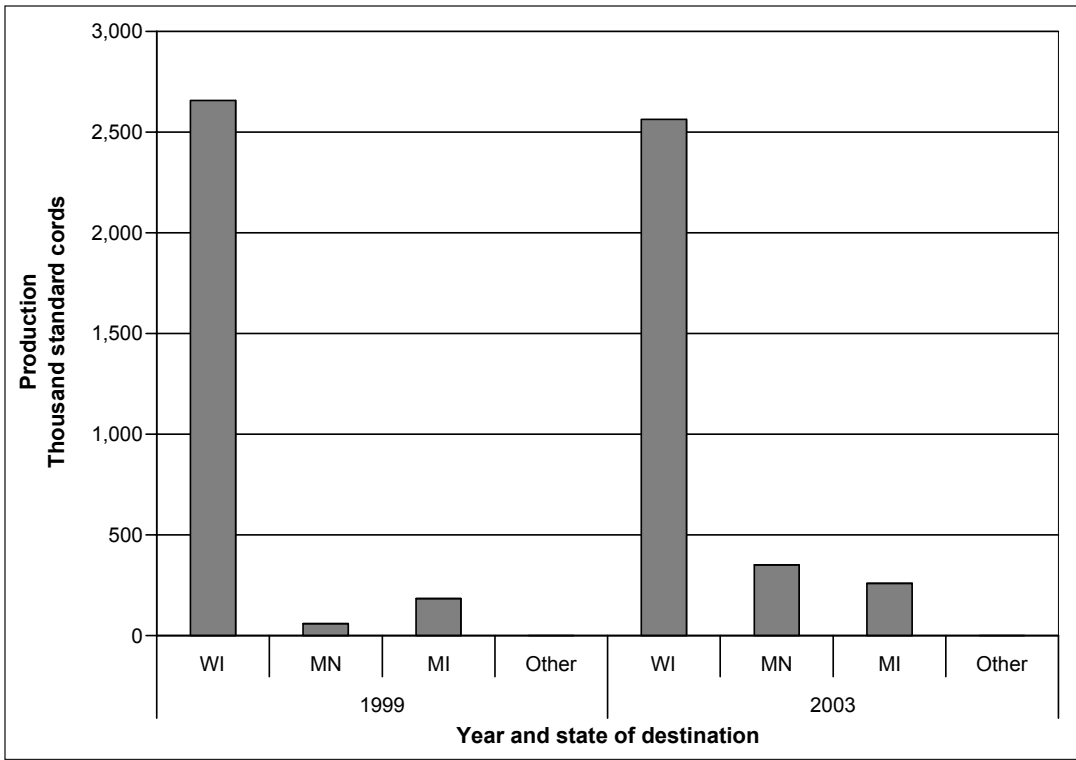


Figure 4A.—Wisconsin roundwood pulpwood production by year and state of destination.

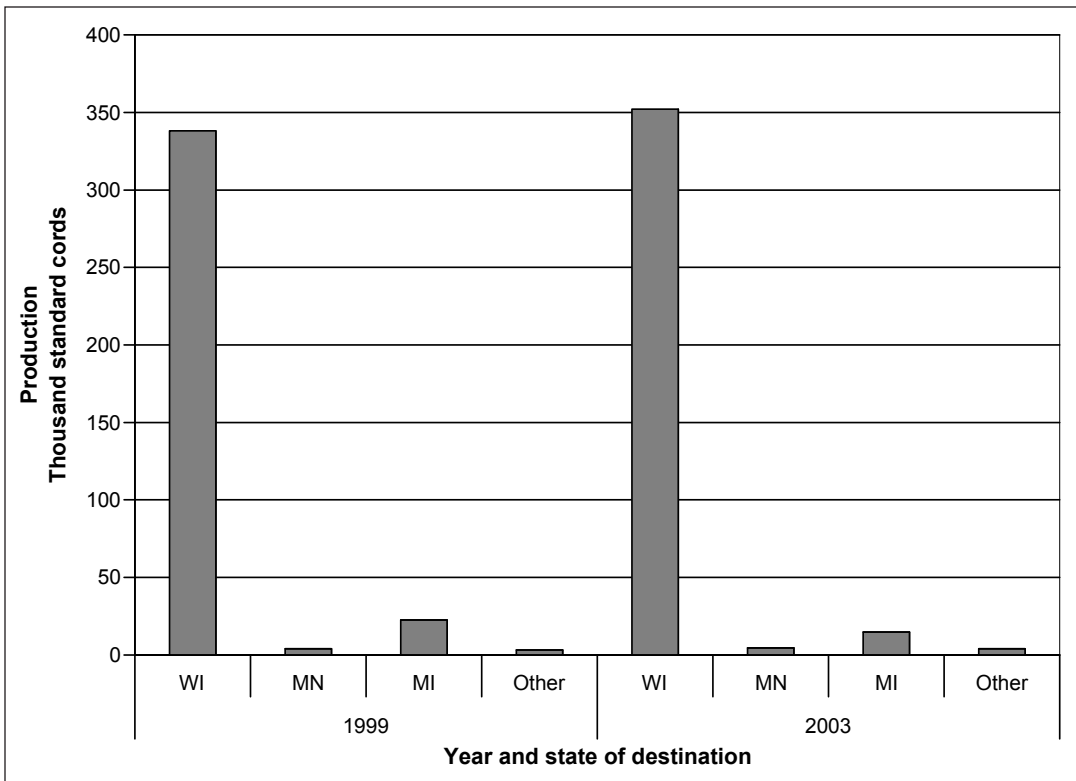


Figure 4B.—Wisconsin residue pulpwood production by year and state of destination.



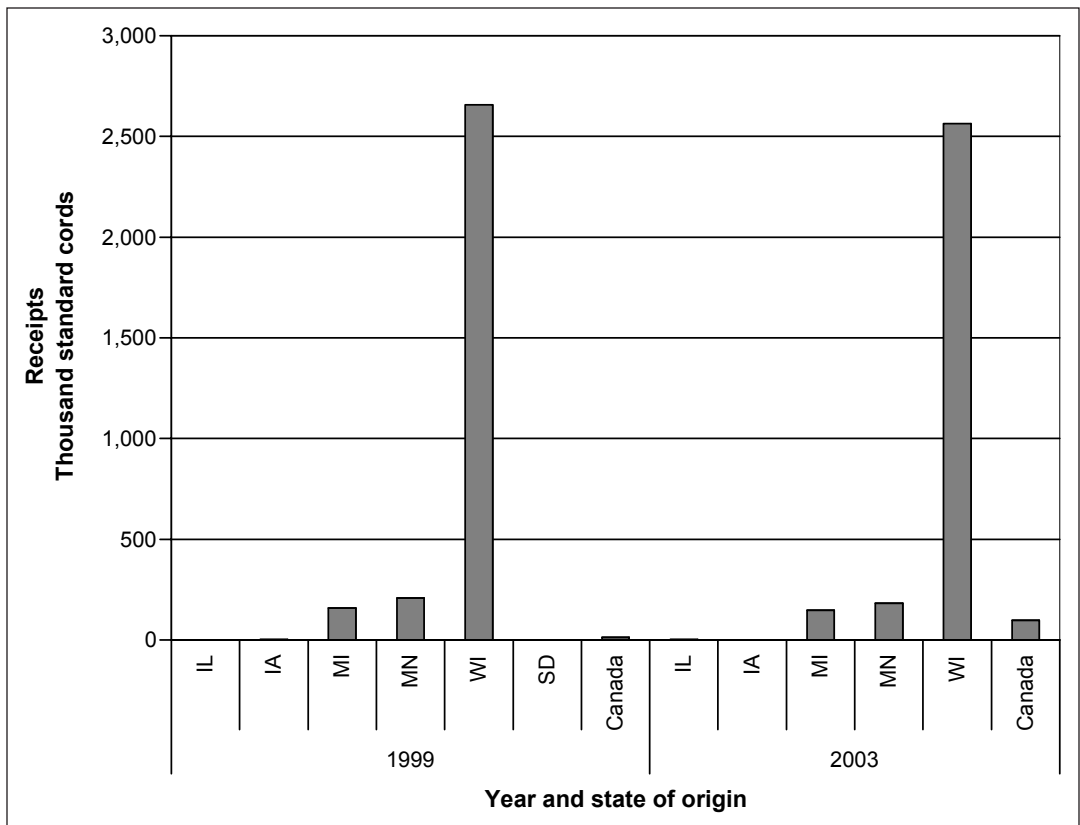


Figure 5A.—Wisconsin roundwood pulpwood receipts by year, product form, and state of origin.

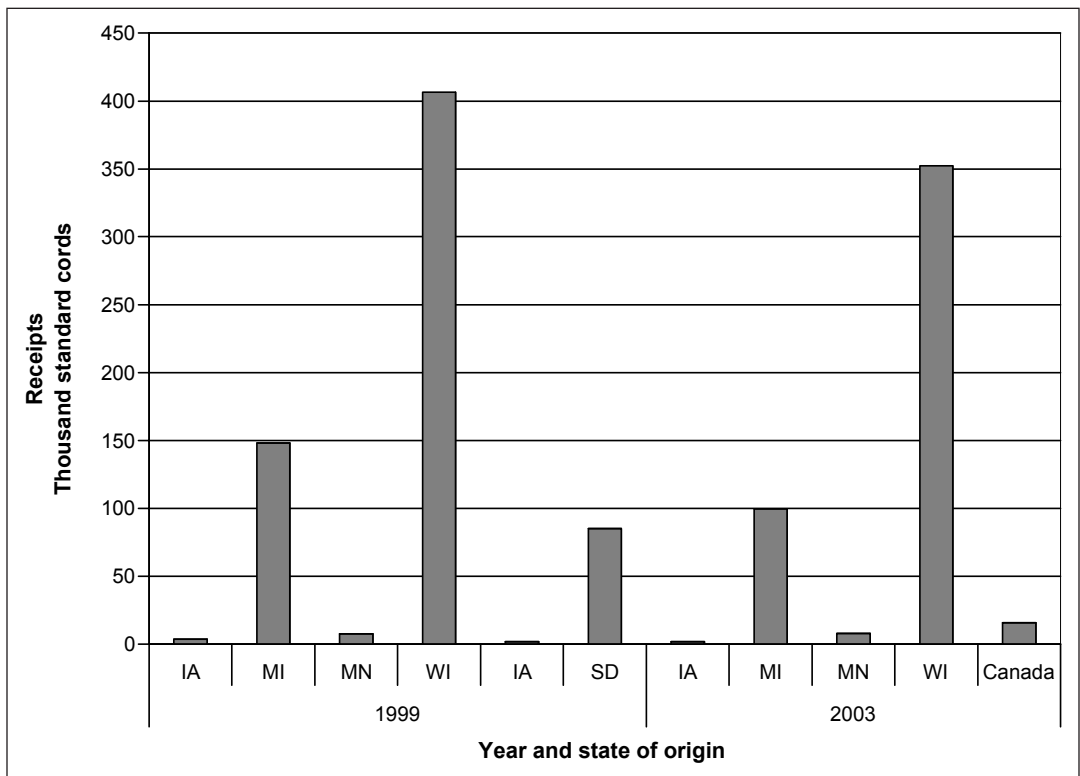


Figure 5B.—Wisconsin residue pulpwood receipts by year, product form, and state of origin.

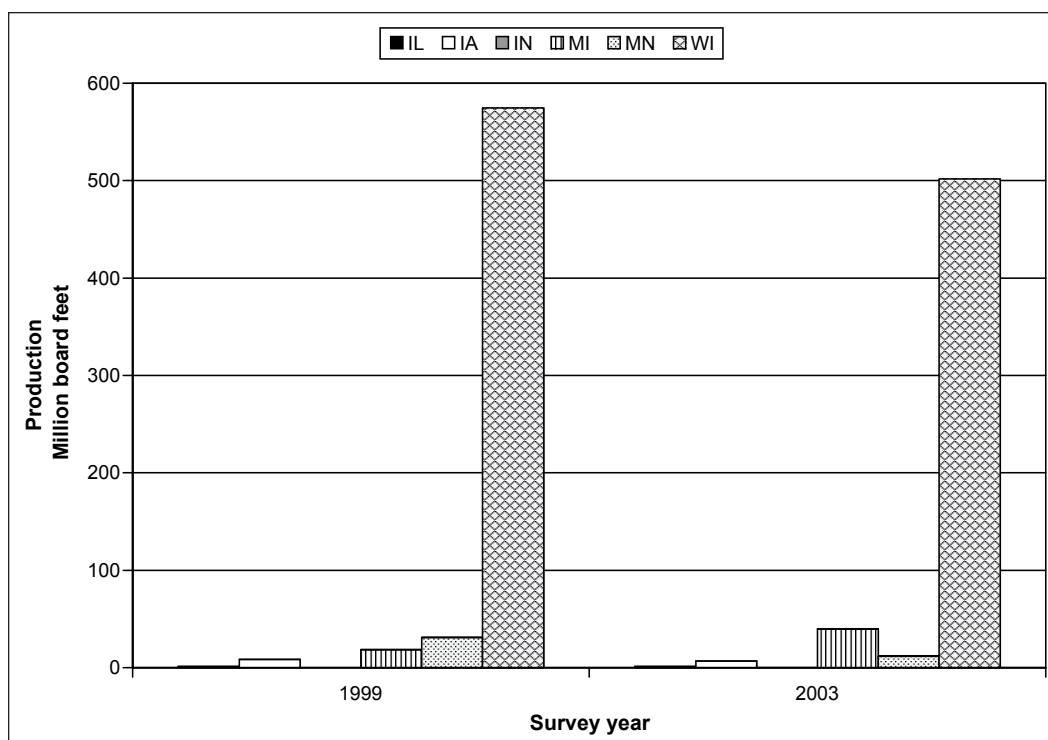


Figure 6.—Sawlog production and state of destination by year, Wisconsin, 2003.

## Saw logs

- In 2003, Wisconsin's saw log production fell by 11 percent compared to 1999 levels, from 634 million board feet (MMBF) to 561 MMBF (Table 10A, Fig. 6).
- The largest changes in production by species were jack pine (-40 percent), white pine (-32 percent), soft maple (-27 percent), white birch (-29 percent), yellow birch (+37 percent), hickory (+57 percent), aspen (-24 percent), white oak group (-15 percent), and basswood (-21 percent) (Table 10A).
- In 2003, Wisconsin's saw log receipts fell by 15 percent compared to 1999 levels from 638 MMBF to 544 MMBF (Table 10B, Fig. 7).
- Saw log exports to Michigan increased between 1999 and 2003 from just 3 percent of total saw log production to 7 percent (Table 11, Fig. 6). Over the same period, saw log exports to Minnesota fell from 5 percent of total production to just 2 percent. The share of saw log production staying in Wisconsin decreased from 91 percent in 1999 to 89 percent in 2003.
- The percentage of wood produced in Wisconsin and utilized by Wisconsin mills increased from 90 percent to 92 percent (Table 13, Fig. 7).

## Veneer Logs

- Veneer log production remains a minor product, comprising only 1 percent of total roundwood production in terms of volume (Table 3). In 2003, 4.6 MMCF of roundwood were veneer logs out of total roundwood production of 361 MMCF.
- Aspen veneer log production is the largest single species group, with 11 MMBF produced in 2003 (Table 3, Table 14A). However, Wisconsin mill receipts of aspen veneer logs were

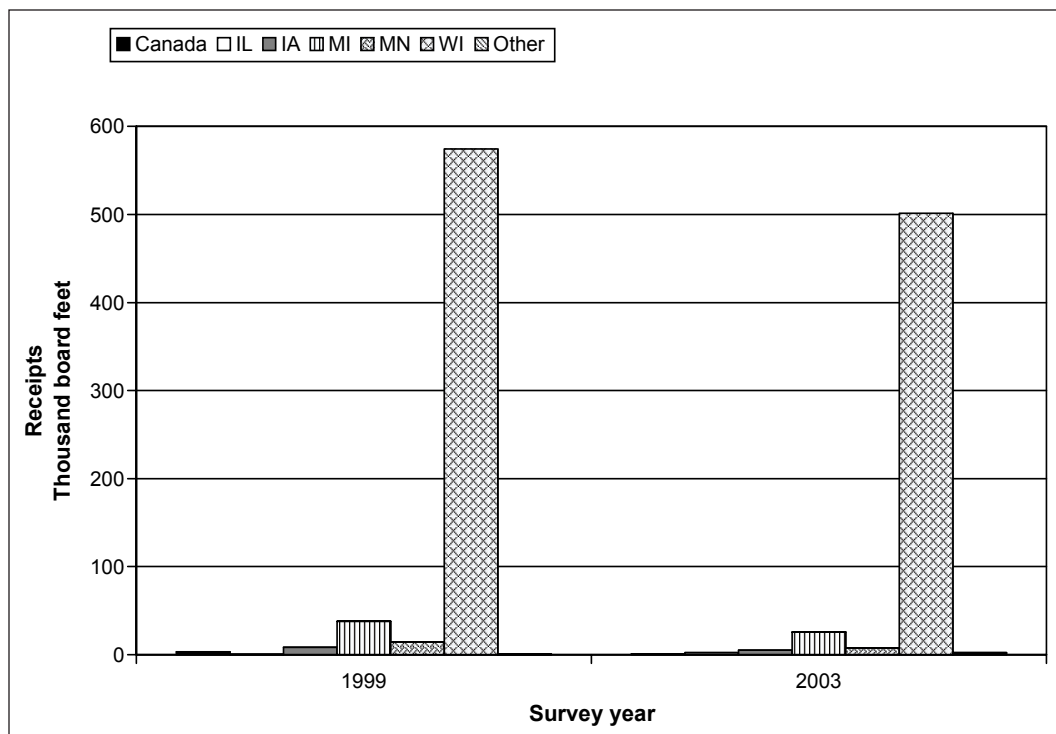


Figure 7.—Sawlog receipts and state/country of origin by year, Wisconsin, 2003.

less than 2 MMBF (Table 14B). The largest market for aspen veneer logs was Michigan, which received nearly 10 MMBF from Wisconsin forests (Table 15).

- In 2003, the red oak group was the largest species group for Wisconsin mill receipts with 17 MMBF received in 2003 (Table 14B). In the same period, Wisconsin forests only produced 9 MMBF (Table 14A).

## Other Products

- Cabin log production and receipts in Wisconsin grew significantly between 1999 and 2003 (Table 16A,B). Production increased 201 percent from 802 thousand cubic feet (MCF) to 2,412 MCF while receipts grew 212 percent from 849 MCF to 2,651 MCF during the same period.
- Red pine is the most popular species for cabin logs, followed by white pine, jack pine, and northern white-cedar (Table 16A,B).

## Timber Removals

- Total material harvested increased from 511 MMCF in 1999 to 513 MMCF in 2003 (Table 4). This includes 361 MMCF that was used for products and 152 MMCF that was left on the ground as harvest residue. During this same period, the removal of sawtimber-size trees decreased from 205 MMCF to 196 MMCF. These changes were due to increases in removals from non-growing stock sources, a change in the mix of species harvested, and a decrease in the harvest of saw logs and veneer logs and increase in the harvest of pulpwood.
- The distribution of timber removals changed very little from 1999, with sawtimber (38 percent), logging slash (26 percent), and poletimber (21 percent) contributing the most (Table 4, Fig. 8).

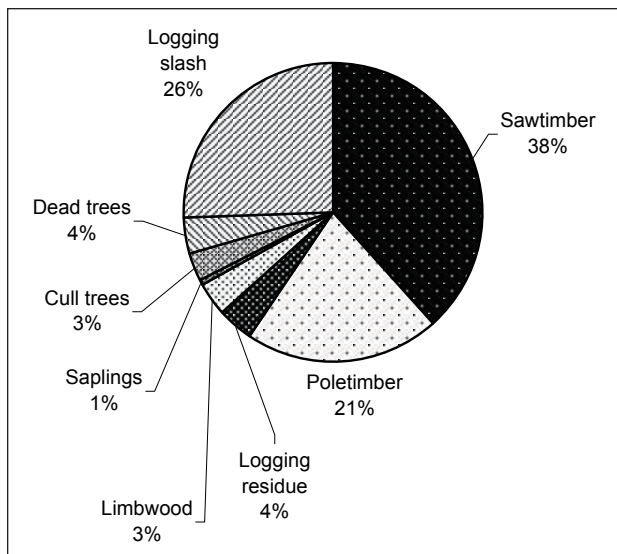


Figure 8.—Distribution of timber removals for industrial roundwood by source of material, Wisconsin, 2003.

## RESIDUES

### Harvest Residues

- One hundred fifty-two MMCF of residues were generated by industrial roundwood harvesting in Wisconsin forests in 2003 (Table 20), a small increase over 1999 levels.
- The percentage of harvest residues from softwood species dropped from 21 to 18 percent of the total between 1999 and 2003 (Table 20).

### Primary Mill Residues

- Seventy-eight percent of mill residues were produced from hardwood roundwood while 22 percent came from softwood roundwood in 2003 (Table 21).
- Of softwood mill residues, 22 percent were used in producing fiber products (Table 21, Fig. 9). This represents a decrease from 1999 when 31 percent were used for fiber products. Of hardwood mill residues, 23 percent of mill residues were used in producing fiber products (Table 21, Fig. 10). In 1999, 47 percent of hardwood mill residues were used for fiber production.
- Fifty-nine percent of softwood residues were used as industrial fuels at the mill at which they were produced, an increase from 50 percent of residues in 1999 (Table 21). Hardwood residues used for industrial fuels produced on site, rose from 19 percent to 30 percent during the same period.
- Miscellaneous uses of residues increased by 4 percent between mill surveys, from 17 percent in 1999 to 21 percent in 2003 (Table 21).

## REGIONAL TRENDS

### All Forest Inventory Units

- Wisconsin's Northwestern Unit provided 36 percent of the roundwood harvested, followed by the Northeastern Unit at 33 percent, the Central Unit at 21 percent, the Southwestern Unit at 7 percent, and the Southeastern Unit at 3 percent (Table 3, Fig. 11). The proportions of hardwoods to softwoods harvested are similar to proportions of the hardwoods to softwoods growing within each Forest Survey Unit (Fig. 12). Based on the

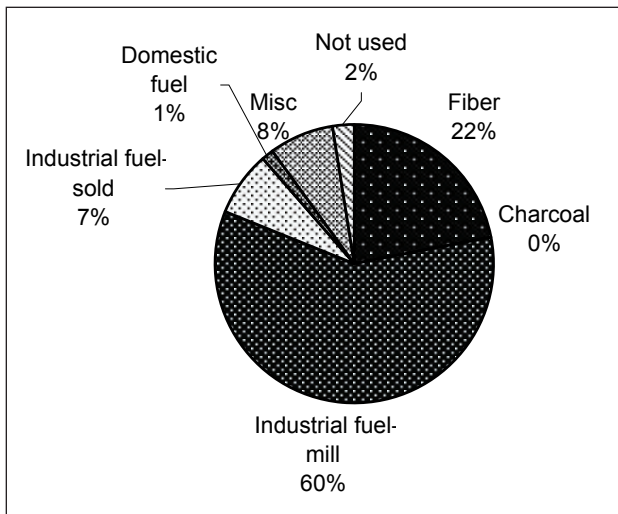


Figure 9.—Distribution of softwood residues generated by primary wood using mills by method of disposal, Wisconsin, 2003.

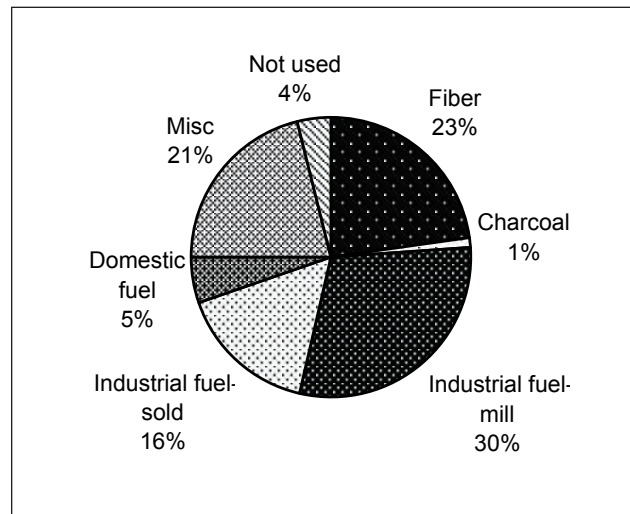


Figure 10.—Distribution of hardwood residues generated by primary wood using mills by method of disposal, Wisconsin, 2003

2004 Forest Inventory and Analysis results, the Northeastern and Northwestern Units are harvested at a slightly greater rate than the Central, Southwestern and Southeastern Units.

- The percentage of roundwood harvested by fiber type varies widely by Unit. Thirty-eight percent of the roundwood harvested in Central Unit is softwood, while softwood harvests from the Northwestern Unit are only 15 percent (Table 3, Fig. 11).
- The production level of the state's five units showed relatively small changes between 1999 and 2003 (Table 3). With the exception of the Southeastern Unit, all Units' 2003 production levels were within 5 percent of the 1999 figures. The Southeastern Unit's production increased 26 percent, but this only reflects an increase of about 2000 MCF. The Southeastern Unit's production was only 3 percent of the state total.

### Northeastern Forest Inventory Unit

- Vener log production decreased by 44 percent in the compared to a 32 percent decrease for the state (Table 3).
- Pulpwood production increased by 20 percent between 1999 and 2003 (Table 3), compared to a statewide increase of 9 percent.

### Northwestern Forest Inventory Unit

- Saw log production decreased by 18 percent from 1999 to 2003 compared to the statewide decrease of 12 percent (Table 3).

### Central Forest Inventory Unit

- Saw log production decreased 18 percent from 1999 to 2003 compared to a statewide reduction of 12 percent (Table 3).
- Pulpwood production fell by 2 percent from 1999 to 2003 compared to a statewide increase of 9 percent (Table 3).
- Vener log production decreased 48 percent in the Central Region; statewide production decreased 32 percent (Table 3).

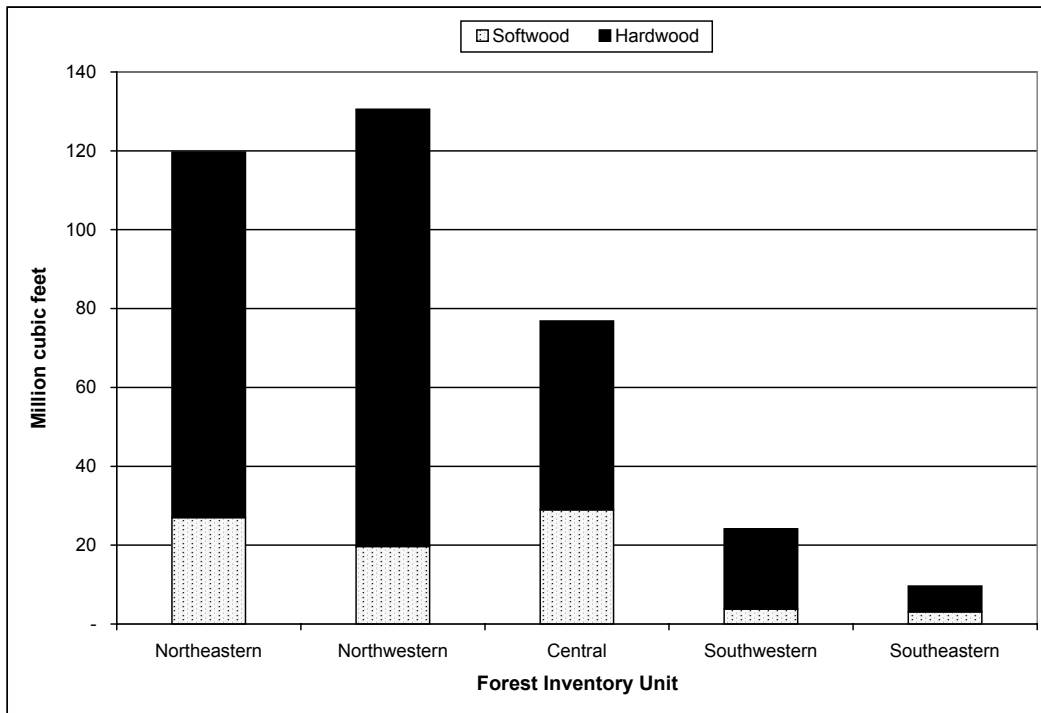


Figure 11.—Roundwood production by fiber type and Forest Inventory Unit, Wisconsin, 2003.

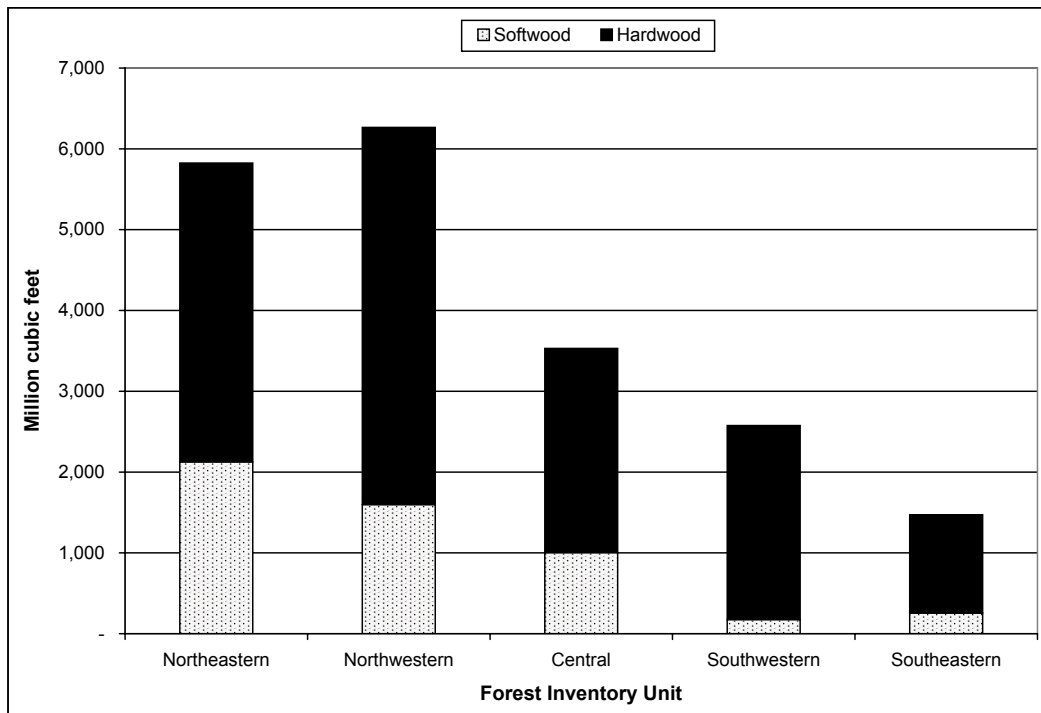


Figure 12.—Volume of growing stock by fiber type and Forest Inventory Unit, Wisconsin, 2003

### Southwestern Forest Inventory Unit

- Sawlog production increased by 2 percent compared to a statewide decline of 12 percent (Table 3).

### Southeastern Forest Inventory Unit

- Pulpwood production increased by 63 percent from 1999 to 2003 compared to a statewide increase of 9 percent (Table 3).

## ACKNOWLEDGMENTS

This study was a cooperative effort of the Wisconsin Department of Natural Resources (WIDNR) and the U.S. Forest Service's Northern Research Station (NRS).

Special thanks are given to the primary wood-using firms that responded to the survey and to the Wisconsin Department of Natural Resources for canvassing the respondents. Their cooperation is greatly appreciated.

## LITERATURE CITED

Miles, Patrick D. 2006. **Forest inventory mapmaker web-application version 2.1**. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station. Available at: [www.ncrs2.fs.fed.us/4801/fiadb/index.htm](http://www.ncrs2.fs.fed.us/4801/fiadb/index.htm)

## DEFINITION OF TERMS

**Board foot**—Unit of measure applied to roundwood. It relates to lumber that is 1 foot long, 1 foot wide, and 1 inch thick (or its volume equivalent).

**Central stem**—The portion of a tree between a 1-foot stump and the minimum 4.0-inch top diameter outside bark or the point where the central stem breaks into limbs.

**Coarse mill residue**—Wood residue suitable for chipping such as slabs, edgings, and veneer cores.

**Commercial species**—Tree species presently or prospectively suitable for industrial wood products. (Note: Excludes species of typically small size, poor form, or inferior quality such as hophornbeam, peachleaf willow, wild plum.)

**Cull removals**—Net volume of rough and rotten trees, plus the net volume in sections of the central stem of growing-stock trees that do not meet regional merchantability standards, harvested for industrial roundwood products.

**Dead removals**—Net volume of dead trees harvested for industrial roundwood products.

**Diameter at breast height (d.b.h.)**—The outside-bark diameter at 4.5 feet above the forest floor on the uphill side of the tree. For determining breast height, the forest floor includes the duff layer that may be present, but does not include unincorporated woody debris that may rise above the ground line.

**Fine mill residue**—Wood residue not suitable for chipping, such as sawdust and veneer clippings.

**Forest land**—Land at least 10 percent stocked (Note: Historically, 16.7 percent was used based on full stocking equaling 167 percent) by forest trees of any size, or formerly having had such tree cover, and not currently developed for non-forest use. (Note: Stocking is measured by comparing specified standards with basal area and/or number of trees, age or size, and spacing.) The minimum area for classification of forest land is 1 acre. Roadside, streamside, and shelterbelt strips of timber must have a crown width of at least 120 feet to qualify as forest land. Unimproved roads and trails or clearings in forest areas shall be classed as forest if less than 120 feet wide. Streams and other bodies of water shall be classed as forest if less than 30 feet wide.

**Growing-stock removals**—The growing-stock volume removed from the timberland inventory by harvesting industrial roundwood products. (Note: Includes sawtimber removals, poletimber removals, and logging residues.)

**Growing-stock tree**—A live timberland tree of commercial species that contains at least one 12-foot saw log or two saw logs 8 feet meeting minimum log/tree grade requirements, now or prospectively, and that meets specified standards of size, quality, and merchantability. At least

one-third of the gross board-foot volume must be merchantable material and at least 50 percent sound at any point. (Note: Excludes rough, rotten, and dead trees.)

**Growing-stock volume**—Net volume of growing-stock trees 5.0 inches d.b.h. and larger, from 1 foot above the ground 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.

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

**Harvest residues**—The total net volume of unused portions of trees cut or killed by logging. (Note: Includes both logging residues and logging slash.)

**Industrial roundwood production**—The quantity of industrial roundwood harvested in a geographic area.

**Industrial roundwood products**—Saw logs, pulpwood, veneer logs, poles, commercial posts, piling, cooperage logs, particleboard bolts, shaving bolts, lath bolts, charcoal bolts, and chips from roundwood used for fuel, pulp, or board products.

**Industrial roundwood receipts**—The quantity of industrial roundwood received by commercial mills in a geographic area.

**International 1/4-inch rule**—A log rule or formula for estimating the board-foot volume of logs, allowing 1/2 inch of taper for each 4-foot length and assuming 1/4 inch of kerf. This rule is used as the USDA Forest Service standard log rule in the eastern United States.

**Limbwood removals**—Net volume of all portions of a tree other than the central stem, (including forks, large limbs, tops, and stumps) harvested for industrial roundwood products.

**Logging residue**—Net volume of unused portions of the merchantable central stem of growing-stock trees cut or killed by logging.

**Logging slash**—Net volume of unused portions of the unmerchantable (nongrowing-stock) sections of trees cut or killed by logging.

**Merchantable sections**—Sections of the central stem of growing-stock trees that meet either pulpwood or saw log specifications.

**Net volume**—Gross volume less deductions for rot, sweep, or other defects affecting use for roundwood products.

**Noncommercial species**—Tree species of typically small size, poor form, or inferior quality that normally do not develop into trees suitable for industrial roundwood products. Classified in volume tables as rough trees.

**Nonforest land**—Land that has never supported forests, and land formerly forested where use for timber management is precluded by development for other uses. (Note: Includes areas used for crops, improved pasture, residential areas, city parks, improved roads of any width and adjoining clearings, powerline clearings of any width, and 1- to 39.9-acre areas of water classified by the Bureau of the Census as land. If intermingled in forest areas, improved roads and nonforest strips must be more than 120 feet wide and more than 1 acre to qualify as nonforest land.)

**Nonforest land removals**—Net volume of trees on nonforest lands harvested for industrial roundwood products.

**Poletimber**—A growing-stock tree at least 5.0 inches d.b.h. but smaller than sawtimber size (9.0 inches d.b.h. for softwoods, 11.0 inches d.b.h. for hardwoods).

**Poletimber removals**—Net volume in the merchantable central stem of poletimber trees harvested for industrial roundwood products.

**Primary wood-using mills**—Mills receiving roundwood or chips from roundwood for processing into products.



**Primary wood-using mill residue**—Wood materials (coarse and fine) and bark generated at manufacturing plants from roundwood processed into principal products. These residues include wood products (byproducts) obtained incidental to production of principal products and wood materials not utilized for some byproduct.

**Rotten tree**—A tree that does not meet regional merchantability standards because of excessive unsound cull.

**Rough tree**—A tree that does not meet regional merchantability standards because of excessive sound cull. Includes noncommercial tree species.

**Roundwood**—Logs, bolts, or other round sections cut from trees (including chips from roundwood).

**Sapling**—A live tree between 1.0 and 5.0 inches d.b.h.

**Sapling removals**—Net volume in saplings harvested for industrial roundwood products.

**Saw log**—A log meeting minimum standards of diameter, length and defect, that is sound and straight, with a minimum diameter outside bark of 7.0 inches for softwoods and 9.0 inches for hardwoods, or other combinations of size and defect specified by regional standards.

**Saw log portion**—That portion of the central stem of sawtimber trees between the stump and the saw log top.

**Saw log top**—The point on the central stem of sawtimber trees above which a saw log cannot be produced. The minimum saw-log top is 7.0 inches diameter outside bark (d.o.b.) for softwoods and 9.0 inches d.o.b. for hardwoods.

**Sawtimber removals**—As used in Table 4, the net volume in the merchantable central stem of sawtimber trees harvested for industrial roundwood products. This includes the saw-log and upper-stem portions of sawtimber trees. In the case of sawtimber volume removed from timberland inventory as in Table 19, sawtimber removals refer to the net volume in the saw-log portion of sawtimber trees harvested for roundwood products or left on the ground as harvest residue, and is usually expressed in thousands of board feet (International 1/4-inch rule).

**Sawtimber tree**—A growing-stock tree containing at least a 12-foot saw log or two noncontiguous saw logs 8 feet or longer, and meeting regional specifications for freedom from defect. Softwoods must be at least 9.0 inches d.b.h. and hardwoods must be at least 11.0 inches d.b.h.

**Softwoods**—Coniferous trees, usually evergreen, having needles or scale-like leaves.

**Timberland**—Forest land that is producing, or is capable of producing, in excess of 20 cubic feet per acre per year of industrial roundwood products under natural conditions, is not withdrawn from timber utilization by statute or administrative regulation, and is not associated with urban or rural development.

Timber product output—The volume of roundwood products produced from an area's forests.

**Timber removals**—The total net volume of trees removed for industrial roundwood products or left on the ground as harvest residues.

**Tree**—A woody perennial plant, typically large, with a single, well defined stem carrying a more or less definite crown; sometimes defined as attaining a minimum diameter of 3 inches (7.6 cm) and a minimum height of 15 ft (4.6 m) at maturity.

**Upper-stem portion**—That portion of the central stem of sawtimber trees between the saw log top and the minimum top diameter of 4.0 inches outside bark or to the point where the central stem breaks into limbs.

**Veneer log**—Log to be used in the production of plywood, finished panels, or veneer sheets, both rotary cut and sliced.

# COMMON AND SCIENTIFIC NAMES OF TREE SPECIES MENTIONED IN THIS REPORT

## Softwoods

### Pine

Jack pine .....	<i>Pinus banksiana</i>
Red pine .....	<i>Pinus resinosa</i>
Eastern white pine .....	<i>Pinus strobus</i>

### Spruce

White spruce .....	<i>Picea glauca</i>
Black spruce .....	<i>Picea mariana</i>
Balsam fir .....	<i>Abies balsamea</i>
Eastern hemlock .....	<i>Tsuga canadensis</i>
Tamarack .....	<i>Larix laricina</i>
Northern white-cedar .....	<i>Thuja occidentalis</i>
Eastern redcedar .....	<i>Juniperis virginiana</i>

## Hardwoods

### White oak group

White oak .....	<i>Quercus alba</i>
Bur oak .....	<i>Quercus macrocarpa</i>
Chinkapin oak .....	<i>Quercus muehlenbergii</i>
Swamp white oak .....	<i>Quercus bicolor</i>

### Red oak group

Northern red oak .....	<i>Quercus rubra</i>
Black oak .....	<i>Quercus velutina</i>
Northern pin oak .....	<i>Quercus ellipsoidalis</i>

### Hickory

Bitternut hickory .....	<i>Carya cordiformis</i>
Pignut hickory .....	<i>Carya glabra</i>
Shagbark hickory .....	<i>Carya ovata</i>

### Birch

River birch .....	<i>Betula nigra</i>
White birch .....	<i>Betula papyrifera</i>
Yellow birch .....	<i>Betula alleghaniensis</i>

### Hard maple

Black maple .....	<i>Acer nigrum</i>
Sugar maple .....	<i>Acer saccharum</i>

### Soft maple

Red maple .....	<i>Acer rubrum</i>
Silver maple .....	<i>Acer saccharinum</i>

American beech .....	<i>Fagus grandifolia</i>
----------------------	--------------------------

### Ash

Black ash .....	<i>Fraxinus nigra</i>
White ash .....	<i>Fraxinus americana</i>

Green ash .....	<i>Fraxinus pennsylvanica</i>
Balsam poplar .....	<i>Populus balsamifera</i>
Aspen	
Bigtooth aspen .....	<i>Populus grandidentata</i>
Quaking aspen .....	<i>Populus tremuloides</i>
Eastern cottonwood .....	<i>Populus deltoides</i>
American basswood .....	<i>Tilia americana</i>
Black walnut .....	<i>Juglans nigra</i>
Elm	
American elm .....	<i>Ulmus americana</i>
Rock elm .....	<i>Ulmus thomasii</i>
Slippery elm .....	<i>Ulmus rubra</i>
Other hardwoods	
Northern catalpa .....	<i>Catalpa speciosa</i>
Black cherry .....	<i>Prunus serotina</i>
River birch .....	<i>Betula nigra</i>
Black locust .....	<i>Robinia pseudoacacia</i>
Honeylocust .....	<i>Gleditsia triacanthos</i>
Red mulberry .....	<i>Morus rubra</i>
Butternut .....	<i>Juglans cinerea</i>
Black willow .....	<i>Salix nigra</i>
Boxelder .....	<i>Acer negundo</i>
Hackberry .....	<i>Celtis occidentalis</i>

Intentionally left blank

## Table Titles

Table 1.—Number of active primary wood-using mills in Wisconsin, 1990, 1992, 1994, 1996, 1999, and 2003.....	20
Table 2.—Industrial roundwood receipts by type of mill in Wisconsin, 1990, 1992, 1994, 1996, 1999, and 2003 in million cubic feet.....	21
Table 3.—Industrial roundwood production by Forest Inventory Unit, species group, and type of product, Wisconsin, 2003 .....	22
Table 4.—Wood material harvested for industrial roundwood by Forest Inventory Unit, source of material, and species group, Wisconsin, 2003 .....	28
Table 5.—Pulpwood production by product form, species group, and state of destination, Wisconsin, 2003.....	34
Table 6.—Pulpwood receipts by product form, species group, and state of origin, Wisconsin, 2003 .....	35
Table 7.—Pulpwood production by Forest Inventory Unit, county, and species group, Wisconsin, 2003.....	36
Table 8.—Pulpwood production by species group, Wisconsin, 1999, 2003 .....	42
Table 9.—Saw log receipts by species group, Wisconsin, 1999, 2003.....	43
Table 10A.—Saw log production by species group, Wisconsin, 1999, 2003 .....	44
Table 10B.—Pulpwood receipts by species group, Wisconsin, 1999, 2003.....	45
Table 11.—Saw log production by Forest Inventory Unit, species group, and state of destination, Wisconsin, 2003 .....	46
Table 12.—Saw log production by Forest Inventory Unit, county, and species group, Wisconsin, 2003.....	52
Table 13.—Saw log receipts by Forest Inventory Unit, species group, and state of origin, Wisconsin, 2003.....	56
Table 14A.—Veneer log production by species group, Wisconsin, 1999, 2003.....	62
Table 14B.—Veneer log receipts by species group, Wisconsin, 1999, 2003.....	63
Table 15.—Veneer log production by Forest Inventory Unit, species group, and state of destination, Wisconsin, 2003 .....	64
Table 16A.—Cabin log production by species group, Wisconsin, 2003 .....	74
Table 16b.—Cabin log receipts by species group, Wisconsin, 2003.....	75
Table 17A.—Pole/piling production by Forest Inventory Unit, Wisconsin, 2003.....	76
Table 17B.—Pole/piling production by Forest Inventory Unit, Wisconsin, 2003.....	77
Table 18.—Growing-stock removals from timberland for industrial roundwood by Forest Inventory Unit, county, and species group, Wisconsin, 2003 .....	78
Table 19.—Sawtimber removals from timberland for industrial roundwood by Forest Inventory Unit, county, and species group, Wisconsin, 2003 .....	82
Table 20.—Harvest residues generated by industrial roundwood harvested by Forest Inventory Unit, county, and species group, Wisconsin, 2003 .....	86
Table 21.—Residue produced at primary wood-using mills by type of material, type of use, and Forest Inventory Unit, Wisconsin, 2003 .....	92

# TABLES

Table 1.—Number of active primary wood-using mills in Wisconsin, 1990, 1992, 1994, 1996, 1999, and 2003

Mill Type	1990	1992	1994	1996	1999	2003
Sawmills	49	32	37	36	38	32
Large 1						
Medium 2	88	104	111	106	80	69
Small 3	333	206	208	204	174	123
Pulp mills	20	20	20	21	19	17
Veneer mills	13	12	16	15	12	12
Other mills	23	36	42	42	35	26
<b>Total</b>	<b>526</b>	<b>410</b>	<b>434</b>	<b>424</b>	<b>358</b>	<b>279</b>

1— Annual lumber production more than 5 million board feet.

2— Annual lumber production from 1 million to 5 million board feet.

3— Annual lumber production less than 1 million board feet.

Pulp mills- Includes particle board plants, OSB, waferboard, etc.

Other mills- Includes post, pole, piling, cooperage, shavings, mine timber, commercial firewood vendors, etc.

**Table 2.—Industrial roundwood receipts by type of mill in Wisconsin, 1990, 1992, 1994, 1996, 1999, 1999, 1999, and 2003 in million cubic feet**

	1990	1992	1994	1996	1999	2003	Percent change 1999-2003
<b>Softwood</b>							
Sawmills	26.4	13.5	15.7	16.2	20.1	16.9	-16%
Pulp mills	72.9	76.6	83.1	92.7	72.9	61.9	-15%
Veneer mills	0.0	0.0	0.0	0.0	0.0	0.0	-29%
Other mills	7.1	0.8	1.4	1.5	1.6	3.4	107%
<b>Total:</b>	<b>106.4</b>	<b>90.9</b>	<b>100.2</b>	<b>110.4</b>	<b>94.7</b>	<b>82.2</b>	<b>-13%</b>
<b>Hardwood</b>							
Sawmills	111.6	90.2	97.4	96.8	90.4	77.2	-15%
Pulp mills	163.0	171.5	178.4	168.1	167.2	174.5	4%
Veneer mills	7.0	6.7	9.4	7.4	6.0	4.1	-31%
Other mills	5.6	9.0	8.9	9.3	14.8	4.0	-73%
<b>Total:</b>	<b>287.2</b>	<b>277.5</b>	<b>294.1</b>	<b>281.5</b>	<b>278.4</b>	<b>259.8</b>	<b>-7%</b>
<b>All speceils</b>							
Sawmills	138.0	103.7	113.2	112.9	110.5	94.1	-15%
Pulp mills	235.8	248.1	261.4	260.7	240.1	236.5	-2%
Veneer mills	7.0	6.7	9.4	7.4	6.0	4.1	-31%
Other mills	12.7	9.9	10.3	10.8	16.4	7.4	-55%
<b>Total:</b>	<b>393.6</b>	<b>368.4</b>	<b>394.4</b>	<b>391.9</b>	<b>373.1</b>	<b>342.1</b>	<b>-8%</b>

**Pulp mills: Includes particleboard plants: OSB, waferboard, etc.**

**Other mills: Does not include treating plants or fuelwood receipts.**

**Rows and columns may not sum due to rounding**



Table 3.—Industrial roundwood production by Forest Inventory Unit, species group, and type of product, Wisconsin, 2003

Species group	Saw logs		Veneer logs		Pulpwood		Industrial fuelwood		Miscellaneous		All products	
	MBF	MCF	MBF	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF
<b>All Units</b>												
<b>Softwoods</b>												
Fir	1,580	332	--	--	71,497	5,634	--	--	10	--	--	5,976
Hemlock	1,160	198	--	--	26,687	2,108	--	--	--	--	--	2,306
Jack pine	13,234	2,778	48	8	195,474	15,423	--	--	494	--	--	18,703
Northern white-cedar	369	78	--	--	59	5	--	--	379	--	--	462
Other/unknown pine	--	--	--	--	--	--	--	--	3	--	--	3
Red pine	84,817	14,436	1,217	198	266,450	21,050	--	--	1,443	--	--	37,126
Redcedar	109	23	--	--	--	--	--	--	1	--	--	24
Spruce	5,144	1,080	588	96	64,743	5,102	--	--	1	--	--	6,278
Tamarack	22	5	74	12	19,113	1,506	--	--	--	--	--	1,523
White pine	23,151	3,940	971	158	61,626	4,868	--	--	982	--	--	9,959
Species group total	129,587	22,868	2,897	472	705,650	55,696	--	--	3,324	--	--	82,359
<b>Hardwoods</b>												
Ash	15,662	2,796	169	28	84,951	6,711	75	5	--	--	--	9,540
Aspen	72,275	12,619	11,043	1,754	986,904	77,965	50	4	3,559	--	--	95,901
Balsam poplar	532	95	26	4	3,773	298	--	--	--	--	--	397
Basswood	25,082	4,477	87	2	79,335	6,267	--	--	158	--	--	10,905
Beech	2,062	368	36	6	14,569	1,151	50	4	5	--	--	1,534
Black cherry	5,503	982	325	53	--	--	25	2	5	--	--	1,042
Black locust	1	0	--	--	--	--	--	--	--	--	--	0
Black walnut	2,514	449	329	54	--	--	--	--	--	--	--	502
Butternut	346	62	--	--	--	--	--	--	--	--	--	62
Cottonwood	778	139	52	8	1,063	84	--	--	--	--	--	231
Elm	3,728	665	--	--	16,897	1,335	--	--	--	--	--	2,000
Hackberry	171	30	--	--	--	--	--	--	--	--	--	30
Hard maple	82,578	13,799	7,245	836	421,639	33,309	75	5	95	--	--	48,044
Hickory	4,971	887	56	9	--	--	75	5	47	--	--	949
Honeylocust	--	--	--	--	1,007	80	--	--	--	--	--	80
Other/unknown cherry	--	--	--	--	6,851	541	--	--	--	--	--	541
Other/unknown hwrds	1,576	281	--	--	3,407	269	--	--	5	--	--	556
Red oak group	128,126	22,435	9,018	755	148,481	11,744	150	11	4	--	--	34,949
River birch	333	59	--	--	--	--	--	--	--	--	--	59
Soft maple	33,791	6,032	1,152	120	404,501	31,995	75	5	--	--	--	38,152
White birch	13,158	2,349	2,776	372	230,909	18,264	--	--	16	--	--	21,001
White oak group	32,859	5,754	334	54	31,414	2,485	175	12	12	--	--	8,317
Willow	118	21	--	--	--	--	--	--	--	--	--	21
Yellow birch	5,725	1,022	800	71	32,616	2,577	--	--	--	--	--	3,670
Species group total	431,889	75,321	33,449	4,126	2,468,317	195,076	750	53	3,908	--	--	278,484
State Total	561,476	98,189	36,347	4,597	3,173,967	250,772	750	53	7,231	--	--	360,843

(Table 3 continued on next page)

(Table 3 Continued)

Species group	Saw logs		Veneer logs		Pulpwood		Industrial fuelwood		Miscellaneous		All products	
	MBF	MCF	MBF	MCF	Cords	MCF	Cords	MCF	MCF	MCF	MCF	
<b>Central Unit</b>												
<b>Softwoods</b>												
Fir	31	7	--	--	744	59	--	--	--	--	65	
Hemlock	38	7	--	--	2,198	174	--	--	--	--	180	
Jack pine	2,021	424	0	0	93,681	7,391	--	--	494	8,310		
Northern white-cedar	10	2	--	--	--	--	--	--	--	2		
Red pine	25,511	4,342	0	0	133,273	10,529	--	--	787	15,657		
Spruce	8	2	--	--	4,915	387	--	--	0	389		
Tamarack	1	0	--	--	1,147	90	--	--	--	91		
White pine	6,053	1,030	0	0	33,905	2,678	--	--	521	4,230		
Species group total	33,674	5,813	0	0	269,862	21,308	--	--	1,803	28,924		
<b>Hardwoods</b>												
Ash	3,096	553	33	5	13,311	1,052	25	2	--	1,611		
Aspen	12,882	2,249	136	4	171,877	13,578	--	--	613	16,444		
Balsam poplar	5	1	--	--	1	0	--	--	--	1		
Basswood	4,406	786	31	--	5,953	470	--	--	--	1,257		
Beech	22	4	2	0	222	18	--	--	--	22		
Black cherry	700	125	51	8	--	--	--	--	--	133		
Black walnut	18	3	67	11	--	--	--	--	--	14		
Butternut	12	2	--	--	--	--	--	--	--	2		
Cottonwood	4	1	--	--	486	38	--	--	--	39		
Elm	707	126	--	--	2,738	216	--	--	--	343		
Hackberry	15	3	--	--	--	--	--	--	--	3		
Hard maple	11,128	1,860	759	83	61,982	4,897	--	--	--	6,839		
Hickory	900	161	30	5	--	--	--	--	--	166		
Honeylocust	--	--	--	--	42	3	--	--	--	3		
Other/unknown cherry	--	--	--	--	90	7	--	--	--	7		
Other/unknown hwd	168	30	--	--	46	4	--	--	--	34		
Red oak group	31,360	5,491	1,860	221	62,012	4,905	25	2	--	10,619		
Soft maple	7,157	1,277	437	30	47,839	3,784	25	2	--	5,093		
White birch	1,273	227	105	17	29,133	2,304	--	--	--	2,549		
White oak group	8,042	1,408	73	12	12,956	1,025	--	--	--	2,445		
Yellow birch	317	57	98	16	2,843	225	--	--	--	297		
Species group total	82,212	14,364	3,682	412	411,631	32,526	75	5	613	47,920		
Unit Total	115,886	20,177	3,682	412	681,394	53,834	75	5	2,416	76,845		

(Table 3 continued on next page)

(Table 3 Continued)

Species group	Saw logs		Veneer logs		Pulpwood		Industrial fuelwood		Miscellaneous		All products	
	MBF	MCF	MBF	MCF	Cords	MCF	Cords	MCF	MCF	MCF	MCF	
<b>Northeastern Unit</b>												
<b>Softwoods</b>												
Fir	798	167	--	--	25,315	1,995	--	--	10	--	2,173	
Hemlock	716	122	--	--	23,249	1,837	--	--	--	--	1,958	
Jack pine	6,879	1,444	23	4	41,270	3,256	--	--	--	--	4,704	
Northern white-cedar	199	42	--	--	59	5	--	--	305	--	351	
Red pine	36,018	6,130	734	120	59,950	4,736	--	--	290	--	11,276	
Spruce	3,976	835	478	78	25,685	2,024	--	--	--	--	2,936	
Tamarack	1	0	69	11	7,783	613	--	--	--	--	625	
White pine	11,805	2,009	706	115	7,804	617	--	--	211	--	2,952	
Species group total	60,391	10,749	2,011	327	191,117	15,082	--	--	817	--	26,975	
<b>Hardwoods</b>												
Ash	5,200	928	53	9	32,950	2,603	--	--	--	--	3,540	
Aspen	30,141	5,263	1,154	162	319,746	25,260	--	--	--	--	30,685	
Balsam poplar	303	54	26	4	552	44	--	--	--	--	102	
Basswood	8,035	1,434	56	2	36,649	2,895	--	--	158	--	4,490	
Beech	1,449	259	34	6	13,218	1,044	--	--	1	--	1,310	
Black cherry	1,754	313	105	17	--	--	--	--	1	--	331	
Black walnut	--	--	57	9	--	--	--	--	--	--	9	
Butternut	84	15	--	--	--	--	--	--	--	--	15	
Cottonwood	20	4	8	1	--	--	--	--	--	--	5	
Elm	739	132	--	--	5,094	402	--	--	--	--	534	
Hard maple	33,462	5,591	4,202	449	189,543	14,974	--	--	21	--	21,035	
Hickory	1,190	212	7	1	--	--	--	--	11	--	224	
Honeylocust	--	--	--	--	544	43	--	--	--	--	43	
Other/unknown cherry	--	--	--	--	2,915	230	--	--	--	--	230	
Other/unknown hwd	725	129	--	--	2,876	227	--	--	1	--	358	
Red oak group	14,408	2,523	3,001	104	29,645	2,345	--	--	--	--	4,972	
River birch	249	45	--	--	--	--	--	--	--	--	45	
Soft maple	10,165	1,814	434	44	150,604	11,913	--	--	--	--	13,771	
White birch	7,437	1,328	1,824	225	79,634	6,299	--	--	--	--	7,851	
White oak group	2,896	507	95	15	4,278	338	--	--	--	--	861	
Yellow birch	4,175	745	434	20	19,958	1,577	--	--	--	--	2,342	
Species group total	122,432	21,296	11,489	1,070	888,204	70,194	--	--	194	--	92,753	
Unit Total	182,822	32,045	13,500	1,397	1,079,321	85,276	--	--	1,010	--	119,729	

(Table 3 continued on next page)

(Table 3 Continued)

Species group	Saw logs		Veneer logs		Pulpwood		Industrial fuelwood		Miscellaneous		All products	
	MBF	MCF	MBF	MCF	Cords	MCF	Cords	MCF	MCF	MCF	MCF	MCF
<b>Northwestern Unit</b>												
<b>Softwoods</b>												
Fir	532	112	--	--	45,340	3,573	--	--	--	--	--	3,685
Hemlock	6	1	--	--	1,101	87	--	--	--	--	--	88
Jack pine	4,212	884	25	4	56,697	4,473	--	--	--	--	--	5,362
Northern white-cedar	21	4	--	--	--	--	--	--	--	15	--	19
Red pine	16,820	2,863	482	79	38,129	3,012	--	--	20	--	--	5,973
Spruce	920	193	110	18	30,218	2,381	--	--	--	--	--	2,592
Tamarack	18	4	4	1	9,091	716	--	--	--	--	--	721
White pine	3,109	529	265	43	7,979	630	--	--	7	--	--	1,210
Species group total	25,638	4,590	886	144	188,555	14,874	--	--	--	41	--	19,649
<b>Hardwoods</b>												
Ash	2,966	533	51	8	36,712	2,900	--	--	--	--	--	3,441
Aspen	21,182	3,698	9,750	1,587	479,286	37,864	--	--	2,633	--	--	45,783
Balsam poplar	--	--	--	--	3,130	247	--	--	--	--	--	247
Basswood	5,765	1,029	--	--	35,985	2,843	--	--	--	--	--	3,872
Beech	84	15	--	--	1,037	82	--	--	4	--	--	101
Black cherry	408	73	15	2	--	--	--	--	4	--	--	79
Black walnut	3	1	--	--	--	--	--	--	--	--	--	1
Butternut	56	10	--	--	--	--	--	--	--	--	--	10
Cottonwood	8	1	--	--	577	46	--	--	--	--	--	47
Elm	238	42	--	--	8,794	695	--	--	--	--	--	737
Hackberry	11	2	--	--	--	--	--	--	--	--	--	2
Hard maple	26,179	4,374	1,605	194	160,858	12,708	--	--	73	--	--	17,349
Hickory	288	51	5	1	--	--	--	--	37	--	--	89
Honeylocust	--	--	--	--	410	32	--	--	--	--	--	32
Other/unknown cherry	--	--	--	--	3,834	303	--	--	--	--	--	303
Other/unknown hwrds	315	56	--	--	473	37	--	--	4	--	--	98
Red oak group	27,997	4,902	2,523	164	50,506	3,995	--	--	--	--	--	9,061
Soft maple	5,944	1,061	164	25	199,737	15,799	--	--	--	--	--	16,885
White birch	3,790	676	750	114	118,332	9,359	--	--	--	--	--	10,149
White oak group	3,372	590	69	11	13,196	1,044	--	--	--	--	--	1,645
Yellow birch	1,146	205	178	20	9,346	738	--	--	--	--	--	963
Species group total	99,771	17,321	15,098	2,126	1,122,213	88,691	--	--	2,756	--	--	110,895
Unit Total	125,408	21,911	15,984	2,270	1,310,768	103,565	--	--	2,797	--	--	130,544

(Table 3 continued on next page)

(Table 3 Continued)

Species group	Saw logs		Veneer logs		Pulpwood		Industrial fuelwood		Miscellaneous		All products	
	MBF	MCF	MBF	MCF	Cords	MCF	Cords	MCF	MCF	MCF	MCF	
<b>Southeastern Unit</b>												
<b>Softwoods</b>												
Fir	219	46	--	--	17	1	--	--	--	--	47	
Hemlock	401	68	--	--	139	11	--	--	--	--	79	
Jack pine	122	26	--	--	551	44	--	--	--	--	69	
Northern white-cedar	140	29	--	--	--	--	--	--	--	60	89	
Red pine	3,260	555	--	--	13,366	1,056	--	--	--	250	1,860	
Eastern red cedar	99	21	--	--	--	--	--	--	--	--	21	
Spruce	239	50	--	--	1,779	140	--	--	--	--	190	
Tamarack	2	1	--	--	1,092	86	--	--	--	--	87	
White pine	780	133	--	--	5,315	420	--	--	--	52	604	
Species group total	5,261	928	--	--	22,260	1,758	--	--	--	361	3,047	
<b>Hardwoods</b>												
Ash	1,622	290	1	0	879	69	--	--	--	--	359	
Aspen	2,095	366	--	--	6,804	538	25	2	79	984		
Balsam poplar	171	30	--	--	84	7	--	--	--	37		
Basswood	1,418	253	--	--	361	28	--	--	--	282		
Beech	505	90	--	--	57	4	--	--	--	95		
Black cherry	1,062	190	12	2	--	--	--	--	--	192		
Black locust	1	0	--	--	--	--	--	--	--	0		
Black walnut	377	67	4	1	--	--	--	--	--	68		
Butternut	103	18	--	--	--	--	--	--	--	18		
Cottonwood	195	35	44	7	--	--	--	--	--	42		
Elm	638	114	--	--	123	10	--	--	--	124		
Hackberry	17	3	--	--	--	--	--	--	--	3		
Hard maple	3,673	614	79	13	4,092	323	25	2	--	952		
Hickory	547	98	--	--	--	--	--	--	--	98		
Honeylocust	--	--	--	--	11	1	--	--	--	1		
Other/unknown cherry	--	--	--	--	11	1	--	--	--	1		
Other/unknown hwd	1	0	--	--	11	1	--	--	--	1		
Red oak group	6,376	1,116	16	3	2,080	165	25	2	--	1,285		
River birch	83	15	--	--	--	--	--	--	--	15		
Soft maple	5,766	1,029	56	9	2,658	210	25	2	--	1,250		
White birch	179	32	48	8	1,525	121	--	--	--	160		
White oak group	3,072	538	20	3	347	27	50	4	--	572		
Willow	50	9	--	--	--	--	--	--	--	9		
Yellow birch	55	10	--	--	312	25	--	--	--	35		
Species group total	28,008	4,917	280	46	19,358	1,530	150	11	79	6,582		
Unit Total	33,270	5,845	280	46	41,618	3,288	150	11	440	9,629		

(Table 3 continued on next page)

(Table 3 Continued)

Species group	Saw logs		Veneer logs		Pulpwood		Industrial fuelwood		Miscellaneous		All products	
	MBF	MCF	MBF	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF
<b>Southwestern Unit</b>												
Softwoods												
Fir	1	0	--	--	80	6	--	--	--	--	7	
Jack pine	--	--	0	0	3,274	258	--	--	0	258		
Other/unknown pine	--	--	--	--	--	--	--	--	--	3	3	
Red pine	3,207	546	0	0	21,732	1,717	--	--	97	2,360		
Redcedar	10	2	--	--	--	--	--	--	1	3		
Spruce	1	0	--	--	2,146	169	--	--	1	170		
White pine	1,404	239	0	0	6,624	523	--	--	201	963		
Species group total	4,624	787	0	0	33,856	2,674	--	--	302	3,764		
Hardwoods												
Ash	2,759	492	31	5	1,099	87	50	4	--	588		
Aspen	5,974	1,043	3	1	9,191	726	25	2	233	2,005		
Balsam poplar	53	9	--	--	6	0	--	--	--	10		
Basswood	5,458	974	--	--	387	31	--	--	--	1,005		
Beech	2	0	--	--	34	3	50	4	--	7		
Black cherry	1,579	282	141	23	--	--	25	2	--	307		
Black locust	0	0	--	--	--	--	--	--	--	0		
Black walnut	2,115	378	200	33	--	--	--	--	--	410		
Butternut	91	16	--	--	--	--	--	--	--	16		
Cottonwood	551	98	--	--	--	--	--	--	--	98		
Elm	1,406	251	--	--	149	12	--	--	--	263		
Hackberry	128	23	--	--	--	--	--	--	--	23		
Hard maple	8,137	1,360	601	98	5,165	408	50	4	--	1,869		
Hickory	2,046	365	14	2	--	--	75	5	--	373		
Other/unknown cherry	--	--	--	--	1	0	--	--	--	0		
Other/unknown hwd	368	66	--	--	--	--	--	--	--	66		
Red oak group	47,985	8,402	1,619	264	4,237	335	100	7	4	9,012		
Soft maple	4,759	850	72	12	3,662	290	25	2	--	1,153		
White birch	478	85	50	8	2,285	181	--	--	16	291		
White oak group	15,477	2,710	78	13	636	50	125	9	12	2,794		
Willow	68	12	--	--	--	--	--	--	--	12		
Yellow birch	31	6	90	15	158	12	--	--	--	33		
Species group total	99,466	17,423	2,900	472	27,010	2,135	525	37	266	20,333		
Unit Total	104,090	18,210	2,900	472	60,866	4,809	525	37	568	24,096		

MBF: Thousand board feet, International 1/4-inch rule.

MCF: Thousand cubic feet.

Cords: Standard cords are 128 cubic feet, consisting of 79 cubic feet of wood and 49 cubic feet of air space.

Miscellaneous column includes such products as cabin logs, utility poles, pilings, cooperage bolts, etc.

Columns and rows may not sum due to rounding

Table 4.—Wood material harvested for industrial roundwood by Forest Survey Unit, source of material, and species group, Wisconsin, 2003

Species group	Growing stock										Nongrowing stock									
	Used					Not used					Used					Not used				
	Sawtimber	Pole-timber	Logging residue	Total	Limb-wood	Saplings	Cull Trees	Dead Trees	Nonforest trees	Total	Logging slash	Total material used for product	Total material not used	Total material harvested						
<b>All Units</b>																				
In thousand cubic feet																				
Softwoods	2,999.9	2,401.7	142.5	5,544.0	233.5	119.9	35.4	185.9	--	2,218.9	2,793.6	5,976.2	2,361.4	8,337.6						
Fir	1,110.2	925.0	33.9	2,069.1	117.1	77.4	53.6	22.5	--	501.8	772.4	2,305.8	535.7	2,841.5						
Hemlock	6,933.7	8,468.2	469.6	15,871.6	784.5	467.4	158.1	1,891.0	--	5,735.3	9,036.3	18,702.9	6,205.0	24,907.9						
Jack pine	196.9	232.6	48.7	478.2	11.5	16.6	3.9	0.2	--	70.7	102.8	461.7	119.4	581.1						
Northern white-cedar	0.7	1.9	0.4	3.0	0.1	0.1	0.0	--	--	0.1	0.4	2.9	0.5	3.4						
Other/unknown pine	24,129.1	10,000.0	1,091.9	35,220.9	1,337.9	779.4	574.7	305.1	--	10,031.1	13,028.2	37,126.2	11,122.9	48,249.1						
Red pine	20.3	3.2	1.6	25.1	0.4	0.0	0.0	--	--	9.5	10.0	23.9	11.1	35.1						
Eastern red cedar	3,467.3	2,282.3	196.9	5,946.5	208.3	109.7	42.1	168.3	--	2,381.6	2,910.1	6,278.2	2,578.4	8,856.6						
Spruce	7,335.5	640.8	34.8	1,409.1	55.5	32.5	10.7	49.7	--	570.9	719.4	1,522.7	605.7	2,128.4						
Tamarack	6,713.1	2,503.6	346.1	9,562.7	327.4	191.0	147.1	76.9	--	2,760.0	3,502.4	9,959.0	3,106.1	13,065.1						
White pine	46,304.6	27,459.3	2,366.3	76,130.2	3,076.0	1,794.2	1,025.8	2,699.6	--	24,280.0	32,875.5	82,359.5	26,646.2	109,005.7						
Hardwoods	4,227.8	2,246.1	562.0	7,035.9	789.6	19.6	491.9	1,764.5	--	3,748.3	6,814.0	9,539.6	4,310.3	13,849.9						
Ash	58,684.1	29,115.9	5,980.0	93,780.0	2,017.4	56.2	4,591.6	1,435.6	--	34,097.1	42,198.0	95,900.8	40,077.2	135,977.9						
Balsam poplar	169.9	92.6	22.4	285.0	34.7	0.4	21.9	77.6	--	157.5	292.1	397.2	180.0	577.2						
Basswood	5,493.3	2,257.3	789.7	8,540.3	747.6	11.8	508.4	1,886.6	--	4,438.0	7,592.4	10,905.0	5,227.7	16,132.7						
Beech	648.4	369.9	85.6	1,103.9	135.4	2.6	83.0	294.4	--	597.2	1,112.6	1,533.7	682.8	2,216.5						
Black cherry	802.9	93.8	125.9	1,022.6	7.9	0.0	29.1	108.4	--	481.2	626.6	1,042.1	607.1	1,649.2						
Black locust	0.2	0.0	0.0	0.2	0.0	--	0.0	0.0	--	0.1	0.1	0.2	0.1	0.4						
Black walnut	391.3	42.0	61.8	495.1	3.4	--	16.0	49.5	--	227.8	296.7	502.2	289.6	791.8						
Butternut	47.2	5.8	7.3	60.2	0.4	--	1.5	6.8	--	29.3	38.1	61.7	36.6	98.3						
Cottonwood	126.7	67.3	17.8	211.8	11.4	3.6	5.8	16.5	--	70.1	107.4	231.4	87.9	319.3						
Elm	917.1	462.0	123.2	1,502.3	157.6	4.5	99.1	360.0	--	790.9	1,412.1	2,000.3	914.1	2,914.5						
Hackberry	233	2.9	3.6	29.7	0.2	--	0.7	3.4	--	14.5	18.8	30.5	18.1	48.5						
Hard maple	23,307.5	10,840.9	2,441.8	36,590.1	3,879.7	105.3	2,593.2	7,317.7	--	18,627.2	32,523.1	48,044.3	21,069.0	69,113.3						
Hickory	722.4	97.4	119.1	938.8	8.5	0.0	23.0	97.9	--	425.0	554.4	949.2	544.1	1,493.2						
Honeylocust	20.8	32.0	1.9	54.6	9.3	1.2	3.9	12.4	--	20.5	47.3	79.6	22.4	101.9						
Other/unknown cherry	--	--	--	--	61.9	1.8	361.1	116.4	--	1,331.2	1,872.4	541.2	1,331.2	1,872.4						
Other/unknown hwd	215.2	26.3	33.1	274.6	33.0	1.4	193.7	86.1	--	802.9	1,117.2	555.8	836.1	1,391.8						
Red oak group	25,588.3	5,627.0	3,522.0	34,737.3	1,448.2	62.7	1,839.3	383.8	--	14,264.3	17,998.3	34,949.3	17,786.3	52,735.6						
River birch	45.4	5.6	7.0	57.9	0.4	--	1.4	6.6	--	28.2	36.6	59.4	35.2	94.6						
Soft maple	15,588.7	14,392.8	1,995.5	31,977.0	3,179.6	584.2	3,572.9	833.7	--	14,819.5	22,989.9	38,151.9	16,815.0	54,966.9						
White birch	4,604.2	13,242.5	1,074.7	18,921.3	1,483.0	297.6	550.0	823.4	--	7,172.2	10,326.2	21,000.7	8,246.9	29,247.5						
White oak group	6,240.6	1,241.9	860.3	8,342.9	327.7	9.5	402.6	94.7	--	3,465.6	4,300.1	8,317.0	4,325.9	12,642.9						
Willow	16.1	2.0	2.5	20.6	0.2	--	0.5	2.3	--	10.0	13.0	21.1	12.5	33.5						
Yellow birch	1,620.9	895.8	216.1	2,732.8	303.2	11.9	188.4	649.4	--	1,393.9	2,546.9	3,669.6	1,610.0	5,279.7						
Total	149,502.1	81,159.6	18,063.3	248,715.0	14,640.3	1,174.4	15,579.3	16,427.9	--	107,012.5	154,834.4	278,483.6	125,065.8	403,549.5						
State total	195,806.7	108,618.9	20,419.6	324,845.2	17,716.3	2,968.6	16,805.1	19,127.4	--	131,292.5	187,710.0	360,843.1	151,712.1	512,555.2						

(Table 4 continued on next page)

(table 4 continued)

Species group	Growing stock						Nongrowing stock						Total material harvested			
	Used			Not used			Used			Not used				Total material used for product	Total material not used	
	Sawtimber	Pole-timber	Total	Logging residue	Total	Limb-wood	Saplings	Cull Trees	Dead Trees	Nonforest trees	Logging slash	Total				
<b>Northeastern Unit</b> In thousand cubic feet																
<b>Softwoods</b>																
Fir	1,100.6	873.5	2,029.4	55.3	2,029.4	76.3	43.6	12.9	65.8	--	--	818.9	1,017.4	2,172.6	874.2	3,046.8
Hemlock	920.3	803.4	1,750.7	27.0	1,750.7	101.4	67.4	46.6	19.3	--	--	418.8	653.6	1,958.4	445.8	2,404.3
Jack pine	2,118.6	1,877.1	4,144.9	149.2	4,144.9	174.7	99.0	34.1	400.3	--	--	1,525.3	2,233.5	4,703.9	1,674.5	6,378.4
Northern white-cedar	123.6	200.2	363.0	39.3	363.0	9.3	14.7	3.5	0.2	--	--	36.6	66.3	351.4	78.0	429.3
Red pine	8,174.5	2,369.1	10,941.2	397.6	10,941.2	333.5	173.8	139.6	85.5	--	--	3,331.9	4,064.3	11,276.1	3,729.5	15,005.5
Spruce	1,764.7	953.1	2,829.4	111.6	2,829.4	87.4	43.7	20.8	66.8	--	--	1,125.9	1,344.5	2,936.4	1,237.5	4,174.0
Tamarack	302.9	260.8	578.8	15.1	578.8	22.6	13.2	5.0	20.2	--	--	233.5	294.6	624.7	248.7	873.4
White pine	2,444.5	376.0	2,957.8	137.3	2,957.8	59.9	22.6	29.4	19.3	--	--	968.4	1,099.7	2,951.8	1,105.7	4,057.5
<b>Total</b>	<b>16,949.7</b>	<b>7,713.1</b>	<b>25,595.2</b>	<b>932.4</b>	<b>25,595.2</b>	<b>865.0</b>	<b>478.1</b>	<b>291.9</b>	<b>677.5</b>	<b>--</b>	<b>--</b>	<b>8,461.4</b>	<b>10,773.9</b>	<b>26,975.3</b>	<b>9,393.8</b>	<b>36,369.1</b>
<b>Hardwoods</b>																
Ash	1,524.6	841.0	2,566.3	200.7	2,566.3	303.9	5.9	188.4	675.8	--	--	1,393.5	2,567.5	3,539.7	1,594.1	5,133.9
Aspen	18,938.2	9,191.4	29,793.0	1,663.4	29,793.0	602.1	12.1	1,465.9	475.3	--	--	11,686.8	14,241.2	30,685.0	13,349.2	44,034.2
Balsam poplar	58.9	17.3	84.8	8.6	84.8	5.4	0.1	4.5	15.8	--	--	43.1	68.9	101.9	51.8	153.7
Basswood	2,122.7	990.9	3,429.0	315.5	3,429.0	340.3	3.7	221.7	810.6	--	--	1,765.9	3,142.1	4,489.8	2,081.4	6,571.2
Beech	530.4	320.2	919.1	68.5	919.1	120.9	1.6	73.9	262.5	--	--	512.2	971.1	1,309.6	580.7	1,890.2
Black cherry	255.8	29.6	325.5	40.1	325.5	2.3	--	9.2	34.6	--	--	153.5	199.6	331.5	193.5	525.0
Black walnut	8.3	--	9.9	1.6	9.9	0.0	--	0.9	--	--	--	2.5	3.4	9.3	4.1	13.3
Butternut	11.4	1.4	14.6	1.8	14.6	0.1	--	0.4	1.6	--	--	7.1	9.2	14.9	8.8	23.8
Cottonwood	4.0	0.3	5.0	0.7	5.0	0.0	--	0.2	0.4	--	--	2.1	2.7	5.0	2.8	7.7
Elm	227.2	125.4	382.3	29.8	382.3	46.8	0.5	29.2	105.2	--	--	212.9	394.6	534.3	242.7	776.9
Hard maple	10,051.2	4,672.8	15,792.1	1,068.1	15,792.1	1,736.1	29.7	1,172.7	3,372.8	--	--	8,253.8	14,565.2	21,035.4	9,321.9	30,357.3
Hickory	171.3	22.8	222.2	28.1	222.2	1.5	--	5.2	23.4	--	--	101.4	131.6	224.3	129.6	353.8
Honeylocust	12.5	14.3	28.1	1.3	28.1	5.0	0.3	2.5	8.4	--	--	13.9	30.0	43.0	15.2	58.2
Other/unknown cherry	--	--	--	--	--	26.3	0.5	152.8	50.6	--	--	568.3	798.6	230.3	568.3	798.6
Other/unknown hws	99.0	12.1	126.3	15.2	126.3	26.9	0.5	155.1	64.2	--	--	625.1	871.8	357.8	640.3	998.1
Red oak group	3,320.9	1,005.0	4,773.0	447.1	4,773.0	250.3	16.5	329.5	49.6	--	--	1,941.4	2,587.3	4,971.8	2,388.6	7,360.3
River birch	34.1	4.2	43.5	5.2	43.5	0.3	--	1.1	4.9	--	--	21.2	27.5	44.5	26.4	70.9
Soft maple	5,496.0	5,292.1	11,485.1	697.0	11,485.1	1,176.8	214.5	1,330.1	261.8	--	--	5,354.8	8,338.1	13,771.4	6,051.8	19,823.2
White birch	2,063.1	4,626.8	7,143.9	454.0	7,143.9	506.9	97.5	212.8	344.4	--	--	2,804.8	3,966.3	7,851.4	3,258.8	11,110.2
White oak group	613.4	146.9	844.1	83.8	844.1	38.0	1.3	52.4	9.0	--	--	352.8	453.4	860.8	436.6	1,297.5
Yellow birch	1,075.0	530.3	1,750.5	145.2	1,750.5	185.6	4.0	119.5	427.4	--	--	931.4	1,667.8	2,341.8	1,076.5	3,418.3
<b>Total</b>	<b>46,617.9</b>	<b>27,844.9</b>	<b>79,738.4</b>	<b>5,275.6</b>	<b>79,738.4</b>	<b>5,375.6</b>	<b>388.6</b>	<b>5,528.0</b>	<b>6,988.4</b>	<b>--</b>	<b>--</b>	<b>36,747.5</b>	<b>55,038.1</b>	<b>92,753.4</b>	<b>42,023.1</b>	<b>134,776.5</b>
<b>Unit total</b>	<b>63,567.6</b>	<b>35,558.0</b>	<b>105,333.7</b>	<b>6,208.1</b>	<b>105,333.7</b>	<b>6,240.6</b>	<b>866.7</b>	<b>5,819.9</b>	<b>7,675.9</b>	<b>--</b>	<b>--</b>	<b>45,208.9</b>	<b>65,811.9</b>	<b>119,728.6</b>	<b>51,416.9</b>	<b>171,145.6</b>

(Table 4 continued on next page)



(table 4 continued)

Species group	Growing stock					Nongrowing stock					Total material harvested			
	Used		Not used		Total	Used		Not used		Total		Total material used for product	Total material not used	
	Sawtimber	Pole-timber	Logging residue	Total		Limb-wood	Saplings	Cull Trees	Dead Trees					Nonforest trees
<b>Northwestern Unit</b> In thousand cubic feet														
<b>Softwoods</b>														
Fir	1,821.6	1,494.2	82.3	3,398.1	154.0	74.9	22.1	117.9	--	1,353.4	1,722.3	3,684.7	1,435.7	5,120.3
Hemlock	39.2	37.8	1.0	78.0	4.7	3.2	2.2	0.9	--	18.1	29.1	88.0	19.1	107.2
Jack pine	1,972.6	2,429.7	131.6	4,533.8	234.6	134.3	45.6	544.8	--	1,626.8	2,586.1	5,361.6	1,758.4	7,120.0
Northern white-cedar	16.5	2.1	1.2	19.8	0.3	--	0.0	--	--	7.8	8.1	18.9	9.0	27.9
Red pine	4,086.6	1,439.7	191.2	5,717.5	202.3	109.7	86.7	48.0	--	1,684.6	2,131.4	5,973.0	1,875.9	7,848.8
Spruce	1,324.7	1,026.8	66.7	2,418.2	94.5	51.0	16.8	78.6	--	972.5	1,213.4	2,592.4	1,039.2	3,631.6
Tamarack	345.6	304.9	15.8	666.4	26.4	15.5	4.6	23.6	--	270.8	340.9	720.7	286.6	1,007.3
White pine	815.7	299.8	41.2	1,156.8	40.7	23.1	20.8	9.5	--	336.2	430.4	1,209.7	377.4	1,587.2
<b>Total</b>	<b>10,422.5</b>	<b>7,035.0</b>	<b>531.1</b>	<b>17,988.6</b>	<b>757.5</b>	<b>411.8</b>	<b>198.9</b>	<b>823.3</b>	<b>--</b>	<b>6,270.2</b>	<b>8,461.7</b>	<b>19,649.0</b>	<b>6,801.3</b>	<b>26,450.3</b>
<b>Hardwoods</b>														
Ash	1,295.6	932.7	160.3	2,388.6	336.2	11.4	192.4	673.1	--	1,273.1	2,486.2	3,441.4	1,433.4	4,874.8
Aspen	27,726.6	14,093.2	3,102.2	44,922.0	956.6	25.7	2,298.1	682.6	--	15,549.5	19,512.6	45,782.8	18,651.8	64,434.5
Balsam poplar	77.6	69.5	8.8	155.9	28.2	0.3	16.0	55.7	--	92.3	192.5	247.3	101.1	348.4
Basswood	1,672.0	912.0	220.2	2,804.2	331.8	5.5	206.2	744.4	--	1,534.3	2,822.2	3,871.9	1,754.5	5,626.4
Beech	37.3	32.2	5.2	74.7	9.6	0.9	4.8	16.3	--	31.4	63.0	101.1	36.6	137.6
Black cherry	60.7	7.9	10.1	78.7	0.5	--	2.0	8.0	--	35.3	45.8	79.2	45.4	124.5
Black walnut	0.4	0.1	0.1	0.6	0.0	--	0.0	0.1	--	0.3	0.4	0.6	0.3	0.9
Butternut	7.7	0.9	1.2	9.8	0.1	--	0.2	1.1	--	4.8	6.2	10.0	5.9	16.0
Cottonwood	8.0	29.6	0.2	37.8	5.7	2.0	0.9	0.8	--	1.6	10.9	46.9	1.8	48.7
Elm	244.0	214.0	28.2	486.2	79.9	2.6	44.0	152.7	--	265.3	544.5	737.1	293.5	1,030.7
Hackberry	1.5	0.2	0.2	1.9	0.0	--	0.0	0.2	--	0.9	1.2	2.0	1.2	3.2
Hard maple	7,926.6	4,287.2	827.4	13,041.3	1,480.4	63.0	924.2	2,667.8	--	6,462.0	11,597.4	17,349.2	7,289.4	24,638.7
Hickory	66.7	14.8	16.4	97.9	0.4	--	1.3	5.7	--	25.3	32.6	88.9	41.6	130.5
Honeylocust	7.2	15.8	0.5	23.5	3.9	0.8	1.3	3.4	--	5.7	15.1	32.4	6.2	38.6
Other/unknown cherry	--	--	--	--	34.7	1.1	202.7	64.4	--	743.6	1,046.5	302.9	743.6	1,046.5
Other/unknown hwd	43.0	5.3	6.6	54.9	4.8	0.8	33.0	10.8	--	121.8	171.2	97.7	128.4	226.1
Red oak group	6,236.0	1,692.8	845.2	8,774.1	430.6	20.2	589.7	91.3	--	3,639.6	4,771.4	9,060.7	4,484.8	13,545.5
Soft maple	6,167.7	6,963.8	747.2	13,878.7	1,559.5	292.7	1,699.2	201.6	--	6,336.8	10,089.8	16,884.5	7,084.0	23,968.5
White birch	1,885.6	6,717.9	463.5	9,067.0	766.9	159.2	260.2	359.6	--	3,327.9	4,873.6	10,149.4	3,791.3	13,940.7
White oak group	1,006.3	378.1	131.8	1,516.1	96.0	4.0	147.4	13.7	--	651.3	912.3	1,645.4	783.1	2,428.4
Yellow birch	383.3	279.8	48.5	711.7	87.1	7.0	48.0	158.2	--	327.3	627.6	963.4	375.9	1,339.3
<b>Total</b>	<b>54,854.0</b>	<b>36,647.8</b>	<b>6,623.7</b>	<b>98,125.6</b>	<b>6,212.8</b>	<b>597.2</b>	<b>6,671.6</b>	<b>5,911.3</b>	<b>--</b>	<b>40,430.1</b>	<b>59,823.1</b>	<b>110,894.8</b>	<b>47,053.8</b>	<b>157,948.6</b>
<b>Unit total</b>	<b>65,276.5</b>	<b>43,682.8</b>	<b>7,154.8</b>	<b>116,114.1</b>	<b>6,970.3</b>	<b>1,009.0</b>	<b>6,870.5</b>	<b>6,734.6</b>	<b>--</b>	<b>46,700.4</b>	<b>68,284.8</b>	<b>130,543.8</b>	<b>53,855.1</b>	<b>184,398.9</b>

(Table 4 continued on next page)

(table 4 continued)

Species group	Growing stock						Nongrowing stock						Total material harvested		
	Used			Not used			Used			Not used				Total material used for product	Total material not used
	Sawtimber	Pole-timber	Total	Logging residue	Total	Limb-wood	Saplings	Cull Trees	Dead Trees	Nonforest trees	Logging slash	Total			
<b>Central Unit</b>															
In thousand cubic feet															
<b>Softwoods</b>															
Fir	33.7	25.6	61.0	1.7	2.3	1.3	0.4	1.9	--	--	24.7	30.6	65.2	26.4	91.6
Hemlock	82.3	75.7	160.3	2.3	9.5	6.4	4.4	1.8	--	--	37.8	59.9	180.1	40.1	220.2
Jack pine	2,740.9	3,999.3	6,922.4	182.2	360.6	224.9	75.4	908.7	--	--	2,486.5	4,056.1	8,309.8	2,668.7	10,978.5
Northern white-cedar	1.8	0.2	2.2	0.1	0.0	--	0.0	--	--	--	0.9	0.9	2.1	1.0	3.1
Red pine	9,368.5	4,855.9	14,611.5	387.2	633.3	389.2	274.5	135.9	--	--	3,972.7	5,405.6	15,657.3	4,359.9	20,017.2
Spruce	186.3	165.0	359.7	8.5	14.3	8.4	2.5	12.8	--	--	146.2	184.1	389.1	154.7	543.8
Tamarack	43.4	38.5	83.8	2.0	3.3	2.0	0.6	3.0	--	--	34.1	42.9	90.7	36.0	126.7
White pine	2,592.4	1,266.2	3,969.9	111.3	164.8	100.6	70.1	36.0	--	--	1,098.5	1,470.0	4,230.1	1,209.7	5,439.9
<b>Total</b>	<b>15,049.3</b>	<b>10,426.5</b>	<b>26,171.0</b>	<b>695.2</b>	<b>1,188.1</b>	<b>732.6</b>	<b>427.8</b>	<b>1,100.1</b>	<b>--</b>	<b>--</b>	<b>7,801.3</b>	<b>11,250.0</b>	<b>28,924.4</b>	<b>8,496.6</b>	<b>37,421.0</b>
<b>Hardwoods</b>															
Ash	755.1	354.4	1,212.0	102.6	124.7	2.1	81.1	284.1	--	--	650.4	1,152.4	1,611.5	752.9	2,364.4
Aspen	9,860.6	5,150.0	15,973.4	962.7	418.1	17.4	751.2	246.9	--	--	5,686.9	7,120.4	16,444.2	6,649.6	23,093.8
Balsam poplar	0.7	0.1	0.9	0.1	0.0	0.0	0.0	0.1	--	--	0.4	0.6	1.0	0.6	1.5
Basswood	742.8	219.8	1,070.5	107.8	59.7	2.2	47.6	184.6	--	--	535.7	829.7	1,256.7	643.5	1,900.2
Beech	8.4	6.0	15.5	1.1	2.0	0.1	1.2	4.0	--	--	7.8	15.1	21.7	8.9	30.6
Black cherry	103.0	11.7	130.8	16.1	0.9	--	3.8	13.8	--	--	61.6	80.2	133.3	77.7	211.0
Black walnut	12.4	0.3	14.9	2.2	0.0	--	1.1	0.4	--	--	4.5	6.1	14.2	6.8	21.0
Butternut	1.6	0.2	2.1	0.2	0.0	--	0.1	0.2	--	--	1.0	1.3	2.1	1.3	3.4
Cottonwood	6.5	24.9	31.5	0.1	4.8	1.7	0.7	0.6	--	--	1.2	9.0	39.2	1.3	40.5
Elm	160.1	82.5	264.1	21.6	25.8	1.4	15.8	57.0	--	--	131.3	231.3	342.6	152.8	495.4
Hackberry	2.1	0.3	2.6	0.3	0.0	--	0.1	0.3	--	--	1.3	1.7	2.7	1.6	4.3
Hard maple	3,244.4	1,545.2	5,127.1	337.5	568.2	11.7	376.1	1,093.4	--	--	2,679.7	4,729.1	6,838.9	3,017.2	9,856.2
Hickory	127.3	15.0	162.0	19.7	1.2	--	4.3	17.7	--	--	77.7	100.9	165.6	97.4	262.9
Honeylocust	0.7	1.6	2.4	0.0	0.4	0.1	0.1	0.3	--	--	0.6	1.5	3.3	0.6	3.9
Other/unknown cherry	--	--	--	--	0.8	0.1	5.0	1.2	--	--	16.8	23.9	7.1	16.8	23.9
Other/unknown hws	22.9	2.8	29.2	3.5	0.7	0.1	3.4	3.7	--	--	22.6	30.5	33.6	26.1	59.7
Red oak group	7,218.5	2,032.5	10,227.8	976.8	517.1	24.1	722.6	104.4	--	--	4,249.1	5,617.4	10,619.3	5,225.9	15,845.2
Soft maple	2,296.8	1,746.5	4,349.9	306.6	379.5	68.1	441.4	160.5	--	--	2,039.3	3,088.8	5,092.9	2,345.9	7,438.7
White birch	498.9	1,666.6	2,289.2	123.6	184.7	36.4	65.1	97.0	--	--	877.0	1,260.2	2,548.7	1,000.6	3,549.3
White oak group	1,714.7	435.0	2,382.0	232.2	112.2	3.9	153.8	25.3	--	--	1,003.1	1,298.2	2,444.9	1,235.3	3,680.2
Yellow birch	125.8	73.7	216.3	16.8	26.2	0.9	16.8	53.8	--	--	110.0	207.6	297.1	126.8	423.9
<b>Total</b>	<b>26,903.3</b>	<b>13,369.2</b>	<b>43,504.2</b>	<b>3,231.7</b>	<b>2,427.1</b>	<b>170.1</b>	<b>2,691.3</b>	<b>2,359.4</b>	<b>--</b>	<b>--</b>	<b>18,157.9</b>	<b>25,805.8</b>	<b>47,920.4</b>	<b>21,389.5</b>	<b>69,310.0</b>
<b>Unit total</b>	<b>41,952.6</b>	<b>23,795.7</b>	<b>69,675.2</b>	<b>3,926.9</b>	<b>3,615.2</b>	<b>902.8</b>	<b>3,119.2</b>	<b>3,459.5</b>	<b>--</b>	<b>--</b>	<b>25,959.2</b>	<b>37,055.8</b>	<b>76,844.9</b>	<b>29,866.1</b>	<b>106,731.0</b>

(Table 4 continued on next page)

(table 4 continued)

Species group	Growing stock						Nongrowing stock						Total material harvested		
	Used			Not used			Used			Not used				Total material used for product	Total material not used
	Sawtimber	Pole-timber	Total	Logging residue	Total	Limb-wood	Saplings	Cull Trees	Dead Trees	Nonforest trees	Logging slash	Total			
<b>Southwestern Unit</b> In thousand cubic feet															
Softwoods															
Fir	3.2	2.7	6.1	0.2	0.1	0.0	0.2	0.2	0.0	0.0	2.5	3.1	6.5	2.6	9.2
Jack pine	67.8	136.3	208.4	4.3	7.9	2.6	31.8	12.1	7.9	2.6	73.7	128.0	258.5	77.9	336.4
Other/unknown pine	0.7	1.9	3.0	0.4	0.1	0.0	--	0.1	0.1	0.0	0.1	0.4	2.9	0.5	3.4
Red pine	1,286.6	836.5	2,181.9	58.7	67.9	45.3	20.6	102.6	67.9	45.3	553.6	790.0	2,359.6	612.3	2,971.9
Eastern red cedar	2.1	0.9	3.2	0.3	0.1	0.0	--	0.1	0.0	0.0	0.9	1.0	3.1	1.2	4.2
Spruce	81.0	72.3	157.1	3.7	3.7	1.1	5.6	6.2	3.7	1.1	63.6	80.2	169.9	67.4	237.3
White pine	504.2	370.3	916.7	42.3	29.2	15.9	6.7	37.0	29.2	15.9	204.0	292.8	963.2	246.3	1,209.5
<b>Total</b>	<b>1,945.6</b>	<b>1,420.9</b>	<b>3,476.3</b>	<b>109.8</b>	<b>109.1</b>	<b>64.9</b>	<b>64.9</b>	<b>158.3</b>	<b>109.1</b>	<b>64.9</b>	<b>898.4</b>	<b>1,295.6</b>	<b>3,763.7</b>	<b>1,008.2</b>	<b>4,771.9</b>
Hardwoods															
Ash	409.1	71.4	542.4	61.9	0.1	18.5	73.9	14.8	0.1	18.5	267.8	375.1	587.9	329.7	917.6
Aspen	1,491.2	427.4	2,096.9	178.3	0.0	46.8	19.4	19.9	0.0	46.8	812.6	898.7	2,004.7	990.9	2,995.6
Balsam poplar	7.4	1.0	9.5	1.1	0.0	0.3	1.1	0.1	0.0	0.3	4.7	6.2	9.9	5.8	15.7
Basswood	754.7	99.8	970.2	115.7	10.6	25.4	114.4	10.6	0.0	25.4	474.3	624.8	1,004.9	590.0	1,595.0
Beech	1.9	1.8	3.8	0.1	3.8	0.0	0.7	1.6	0.0	0.7	1.3	4.2	6.6	1.4	8.0
Black cherry	236.5	26.8	300.4	37.0	2.8	9.3	31.1	2.8	0.0	9.3	140.2	183.3	306.5	177.2	483.7
Black locust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0	0.0	0.0
Black walnut	318.1	35.3	403.3	49.9	2.8	12.3	41.7	2.8	--	12.3	188.3	245.0	410.2	238.2	648.4
Butternut	12.5	1.5	15.9	1.9	0.1	0.4	1.8	0.1	--	0.4	7.8	10.1	16.3	9.7	26.0
Cottonwood	75.1	9.2	95.9	11.6	0.7	2.4	10.8	0.7	--	2.4	46.7	60.6	98.3	58.2	156.5
Elm	195.6	26.8	252.3	29.9	3.2	6.8	30.3	3.2	0.0	6.8	123.6	163.9	262.7	153.6	416.3
Hackberry	17.4	2.1	22.2	2.7	0.2	0.5	2.5	0.2	--	0.5	10.8	14.0	22.8	13.5	36.3
Hard maple	1,426.0	204.3	1,774.4	144.0	54.5	78.7	104.9	54.5	0.5	78.7	818.7	1,057.4	1,869.0	962.8	2,831.8
Hickory	282.4	35.6	361.4	43.3	4.7	9.7	40.3	4.7	0.0	9.7	174.2	229.0	372.7	217.6	590.3
Other/unknown cherry	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.1	0.2	0.3
Other/unknown hwd	50.2	6.1	64.0	7.7	0.5	1.6	7.2	0.5	--	1.6	31.2	40.5	65.6	38.9	104.5
Red oak group	7,756.7	757.7	9,619.5	1,105.1	212.2	162.8	121.7	212.2	1.3	162.8	3,882.5	4,380.4	9,012.3	4,987.6	13,999.9
Soft maple	760.1	203.7	1,077.5	113.6	35.1	53.3	95.2	35.1	5.1	53.3	517.0	705.8	1,152.6	630.7	1,783.3
White birch	108.8	141.8	274.1	23.5	14.8	7.4	15.1	14.8	2.7	7.4	104.3	144.4	290.7	127.8	418.5
White oak group	2,418.8	230.7	2,993.4	343.8	66.3	38.8	38.9	66.3	0.2	38.8	1,211.3	1,355.6	2,793.9	1,555.1	4,349.0
Willow	9.3	1.1	11.9	1.4	0.1	0.3	1.3	0.1	--	0.3	5.8	7.5	12.2	7.2	19.4
Yellow birch	21.5	4.0	29.1	3.6	1.5	2.4	3.4	1.5	0.0	2.4	11.3	18.7	32.8	14.9	47.7
<b>Total</b>	<b>16,353.4</b>	<b>2,288.3</b>	<b>20,918.0</b>	<b>2,276.3</b>	<b>446.4</b>	<b>478.4</b>	<b>756.1</b>	<b>446.4</b>	<b>10.2</b>	<b>478.4</b>	<b>8,834.6</b>	<b>10,525.6</b>	<b>20,332.8</b>	<b>11,110.9</b>	<b>31,443.7</b>
<b>Unit total</b>	<b>18,299.0</b>	<b>3,709.2</b>	<b>24,394.3</b>	<b>2,386.1</b>	<b>604.7</b>	<b>543.3</b>	<b>821.0</b>	<b>604.7</b>	<b>119.2</b>	<b>543.3</b>	<b>9,733.0</b>	<b>11,821.2</b>	<b>24,096.4</b>	<b>12,119.1</b>	<b>36,215.5</b>

(Table 4 continued on next page)

(table 4 continued)

Species group	Growing stock						Nongrowing stock						Total material harvested		
	Used			Not used			Used			Not used				Total material used for product	Total material not used
	Sawtimber	Pole-timber	Total	Logging residue	Total	Limb-wood	Saplings	Cull Trees	Dead Trees	Nonforest trees	Logging slash	Total			
<b>Southeastern Unit</b>															
In thousand cubic feet															
Softwoods															
Fir	40.7	5.7	49.4	0.7	0.0	0.0	0.0	0.0	0.0	--	19.4	20.3	47.2	22.5	69.7
Hemlock	68.4	8.1	80.1	1.4	0.4	0.4	0.4	0.5	0.5	--	27.2	29.8	79.2	30.7	109.9
Jack pine	33.8	25.8	62.0	2.4	1.3	0.5	5.3	5.3	--	--	23.0	32.6	69.2	25.4	94.6
Northern white-cedar	55.0	30.2	93.2	1.8	1.9	0.5	--	--	--	--	23.4	27.6	89.4	31.4	120.7
Red pine	1,212.9	498.8	1,768.8	66.2	38.8	28.6	15.1	15.1	--	--	488.2	636.9	1,860.3	545.4	2,405.7
Eastern red cedar	18.2	2.3	21.9	0.3	--	0.0	--	--	--	--	8.6	8.9	20.9	10.0	30.8
Spruce	110.6	65.2	182.1	5.9	3.0	0.9	4.6	4.6	--	--	73.3	87.8	190.3	79.7	269.9
Tamarack	41.5	36.6	80.0	3.2	1.9	0.5	2.8	2.8	--	--	32.5	41.0	86.6	34.4	121.0
White pine	356.3	191.3	561.5	25.0	15.4	10.8	5.3	5.3	--	--	152.9	209.5	604.1	166.9	771.0
Total	1,937.5	863.9	2,899.1	107.1	62.7	42.2	33.8	33.8	--	--	848.6	1,094.4	3,047.1	946.3	3,993.5
Hardwoods															
Ash	243.4	46.6	326.5	10.0	0.1	11.5	47.6	47.6	--	--	163.5	232.7	359.1	200.1	559.2
Aspen	667.5	253.9	994.7	20.8	1.0	29.6	11.4	11.4	--	--	362.3	425.1	984.1	435.6	1,419.7
Balsam poplar	25.4	4.7	33.9	1.0	0.0	1.2	4.9	4.9	--	--	17.0	24.0	37.1	20.8	57.9
Basswood	201.1	34.9	266.4	5.2	0.4	7.5	32.5	32.5	--	--	127.8	173.5	281.6	158.3	439.9
Beech	70.4	9.7	90.9	1.2	0.0	2.5	11.0	11.0	--	--	44.5	59.1	94.7	55.3	150.0
Black cherry	146.8	17.7	187.2	1.4	--	4.8	20.9	20.9	--	--	90.6	117.7	191.7	113.3	305.0
Black locust	0.2	0.0	0.2	0.0	--	0.0	0.0	0.0	--	--	0.1	0.1	0.2	0.1	0.3
Black walnut	52.1	6.3	66.4	0.5	--	1.7	7.4	7.4	--	--	32.2	41.8	68.0	40.2	108.2
Butternut	14.0	1.7	17.9	0.1	--	0.4	2.0	2.0	--	--	8.7	11.3	18.3	10.9	29.2
Cottonwood	33.1	3.3	41.6	0.3	--	1.5	3.8	3.8	--	--	18.5	24.2	42.0	23.8	65.8
Elm	90.2	13.4	117.3	1.9	0.0	3.4	14.8	14.8	--	--	57.8	77.8	123.7	71.5	195.2
Hackberry	2.3	0.3	2.9	0.0	--	0.1	0.3	0.3	--	--	1.4	1.9	3.0	1.8	4.8
Hard maple	659.3	131.4	855.3	40.5	0.4	41.5	78.7	78.7	--	--	413.0	574.0	951.7	477.7	1,429.3
Hickory	74.7	9.1	95.3	0.7	--	2.4	10.8	10.8	--	--	46.4	60.2	97.7	57.9	155.6
Honeylocust	0.3	0.3	0.6	0.1	0.0	0.1	0.2	0.2	--	--	0.3	0.7	0.9	0.4	1.3
Other/unknown cherry	--	--	--	--	--	0.1	0.6	0.6	--	--	2.2	3.1	0.9	2.2	3.1
Other/unknown hives	0.1	0.0	0.2	0.1	0.0	0.6	0.2	0.2	--	--	2.3	3.3	1.1	2.3	3.4
Red oak group	1,056.2	139.0	1,477.7	1,342.9	38.0	0.6	34.7	16.8	--	--	551.7	641.8	1,285.2	699.5	1,984.7
River birch	11.4	1.4	14.5	1.7	0.1	--	0.4	1.6	--	--	7.1	9.2	14.8	8.8	23.6
Soft maple	868.0	186.6	1,311.1	1,185.8	28.6	3.7	48.8	114.7	--	--	571.5	767.4	1,250.5	702.7	1,953.1
White birch	47.7	89.3	101.1	147.1	9.7	1.8	4.6	7.3	--	--	58.2	81.7	160.5	68.3	228.8
White oak group	487.5	51.2	607.3	68.7	0.1	10.3	7.8	7.8	--	--	247.1	280.6	572.1	315.8	887.9
Willow	6.8	0.8	8.7	1.0	--	0.2	1.0	1.0	--	--	4.2	5.5	8.9	5.3	14.1
Yellow birch	15.3	7.9	25.1	2.0	0.0	1.8	6.6	6.6	--	--	13.9	25.3	34.5	15.9	50.4
Total	4,773.5	1,009.4	6,428.8	1,784	8.3	210.0	402.7	402.7	--	--	2,842.5	3,641.9	6,582.3	3,488.5	10,070.7
Unit total	6,711.0	1,873.3	743.7	9,327.9	285.5	71.0	252.2	436.4	--	--	3,691.1	4,736.3	9,629.4	4,434.8	14,064.2

All table cells without observations in the inventory sample are indicated by --. Table value of 0.0 indicates the volume rounds to less than 0.1 thousand cubic feet. Columns and rows may not add to their totals due to rounding.

Table 5.—Pulpwood production by product form, species group, and state of destination, Wisconsin, 2003

Product form and species group	Iowa	Michigan	Minnesota	Wisconsin	Total
Roundwood	In standard cords, unpeeled <sup>1</sup>				
Softwoods					
Fir	--	1,028	29,809	40,660	71,497
Tamarack	--	208	11	18,894	19,113
Spruce	--	415	9,660	54,668	64,743
Jack pine	--	353	3,827	191,293	195,474
Red pine	--	668	2,815	262,967	266,450
White pine	--	140	66	61,420	61,626
Northern white-cedar	--	59	--	--	59
Hemlock	--	7,223	--	19,465	26,687
Species Group Total	10,095	46,189	649,366	705,650	
Hardwoods					
Soft maple	--	74,134	98,518	231,849	404,501
Hard maple	--	68,578	32,046	321,015	421,639
White birch	--	12,497	11,839	206,573	230,909
Yellow birch	--	9,579	--	23,037	32,616
Beech	--	11,917	--	2,651	14,569
Ash	--	4,483	3,313	77,155	84,951
Honeylocust	--	--	--	1,007	1,007
Cottonwood	--	--	--	1,063	1,063
Balsam poplar	--	634	3,139	--	3,773
Aspen	--	40,531	137,212	809,160	986,904
Other/unknown cherry	--	2,400	3,371	1,080	6,851
Red oak group	--	5,401	--	143,080	148,481
White oak group	--	--	--	31,414	31,414
Basswood	--	17,291	12,666	49,378	79,335
Elm	--	--	2,836	14,062	16,897
Other/unknown hwds	--	2,399	--	1,007	3,407
Species Group Total	249,844	304,941	1,913,532	2,468,317	
Product Source Total	259,938	351,130	2,562,898	3,173,967	
Residues <sup>2</sup>					
Softwood	--	78	1,824	103,450	105,352
Hardwood	3,833	14,536	2,526	248,765	269,660
Species Group Total	3,833	14,614	4,350	352,214	375,012
Product Source Total	3,833	14,614	4,350	352,214	375,012
All Woody Material	3,833	274,553	355,481	2,915,112	3,548,979

<sup>1</sup> Standard cords are 128 cubic feet, consisting of 79 cubic feet of wood and 49 cubic feet of bark and air space.

<sup>2</sup> Chippable mill residues such as slabs, edgings, etc. Roundwood chips are included in roundwood.

Table 6.—Pulpwood receipts by product form, species group, and state of origin, Wisconsin, 2003

Product form and species group	Canada	Illinois	Iowa	Michigan	Minnesota	Wisconsin	Total
Roundwood							
Softwoods							
Fir	40	--	--	5,956	414	40,660	47,070
Tamarack	1,459	--	--	5,830	20,866	18,894	47,049
Spruce	8,639	--	--	16,854	51,045	54,668	131,206
Jack pine	--	280	--	7,511	6,180	191,293	205,265
Red pine	--	792	--	3,649	2,408	262,967	269,815
White pine	151	388	155	905	322	61,420	63,341
Hemlock	--	--	--	933	--	19,465	20,397
Species Group Total	10,289	1,460	155	41,638	81,235	649,366	784,144
Hardwoods							
Soft maple	8,761	--	--	16,226	5,518	231,849	262,353
Hard maple	11,045	--	--	23,282	314	321,015	355,656
White birch	26,070	--	--	13,064	29,594	206,573	275,300
Yellow birch	591	--	--	2,566	--	23,037	26,194
Beech	--	--	--	235	--	2,651	2,886
Ash	2,284	--	--	5,469	194	77,155	85,102
Honeylocust	--	--	--	144	--	1,007	1,151
Cottonwood	--	--	--	--	--	1,063	1,063
Balsam poplar	16	--	--	--	--	--	16
Aspen	29,494	--	--	37,544	65,710	809,160	941,909
Other/unknown cherry	--	--	--	144	--	1,080	1,224
Red oak group	5,810	--	--	2,873	395	143,080	152,157
White oak group	2,206	--	--	1,205	106	31,414	34,931
Basswood	739	--	--	1,892	271	49,378	52,279
Elm	442	--	--	1,135	--	14,062	15,639
Other/unknown hwrds	--	--	--	144	--	1,007	1,151
Species Group Total	87,457	1,460	155	105,922	102,102	1,913,532	2,209,013
Product Source Total	97,746	1,460	155	147,560	183,337	2,562,898	2,993,156
Residues <sup>2</sup>							
Softwood	15,521	--	--	91,205	1,575	103,450	211,751
Hardwood	--	--	1,776	8,286	6,032	248,765	264,859
Species Group Total	15,521	--	1,776	99,491	7,607	352,214	476,610
Product Source Total	15,521	--	1,776	99,491	7,607	352,214	476,610
All Woody Material	113,267	1,460	1,931	247,052	190,944	2,915,112	3,469,766

<sup>1</sup> In standard cords, unpeeled

<sup>1</sup> Standard cords are 128 cubic feet, consisting of 79 cubic feet of wood and 49 cubic feet of bark and air space.

<sup>2</sup> Chippable mill residues such as slabs, edgings, etc. Roundwood chips are included in roundwood.

Table 7.—Pulpwood production by Forest Inventory Unit, county, and species group, Wisconsin, 2003

Forest Inventory Unit and county	Fir	Tamarack	Spruce	Jack pine	Red pine	White pine	N. white-cedar	Hemlock	Soft maple	Hard maple	White birch	Yellow birch	Beech	Ash	Honeylocust
Central															
Adams	--	150	19	20,291	22,860	3,480	--	--	2,913	3,524	1,054	65	2	661	--
Chippewa	34	52	134	948	2,850	564	--	--	3,658	5,094	4,574	425	6	1,269	2
Clark	--	--	150	2,095	1,592	808	--	38	5,515	7,291	4,138	412	24	1,674	1
Eau Claire	15	--	56	4,907	5,757	1,261	--	--	2,133	2,670	1,967	220	4	689	3
Jackson	--	22	114	19,023	10,928	4,813	--	--	6,723	8,173	3,886	286	2	1,695	2
Juneau	--	52	44	21,846	15,376	3,318	--	--	4,515	5,436	1,288	50	--	966	--
Marathon	409	28	1,113	1,068	5,938	1,210	--	1,819	8,008	11,134	5,572	733	115	2,601	19
Marquette	--	59	58	1,552	8,376	1,829	--	--	368	459	108	12	2	84	--
Monroe	--	99	131	4,897	5,111	1,631	--	--	2,029	2,449	669	35	--	449	--
Portage	239	561	373	7,876	14,141	4,582	--	278	3,167	4,038	1,618	211	15	849	13
Waupaca	18	108	506	156	8,506	1,210	--	39	2,064	3,411	947	123	42	683	--
Waushara	--	--	1,308	2,175	23,731	4,675	--	--	1,773	2,152	423	19	2	371	1
Wood	29	16	909	6,846	8,106	4,522	--	25	4,974	6,151	2,890	252	7	1,321	1
Total	744	1,147	4,915	93,681	133,273	33,905	--	2,198	47,839	61,982	29,133	2,843	222	13,311	42
Northeastern															
Florence	3,184	236	1,432	4,163	5,155	451	35	3,674	18,113	17,371	4,580	2,362	2,675	1,605	--
Forest	3,470	479	6,345	487	8,774	113	10	911	25,092	28,519	12,558	2,963	2,708	4,301	--
Langlade	4,797	563	5,007	535	3,057	262	--	113	32,451	40,958	14,551	3,596	2,785	6,962	47
Lincoln	4,369	2,567	3,053	2,131	3,473	873	--	155	16,696	27,261	11,699	3,238	514	6,297	298
Marinette	1,850	882	1,353	14,141	15,026	956	13	6,990	15,741	17,064	6,824	1,976	1,787	2,464	--
Menominee	313	3	86	613	2,497	2,006	1	10,666	5,085	8,994	1,962	863	292	1,740	--
Oconto	235	64	165	1,939	2,834	203	--	67	8,770	8,766	2,855	1,108	1,177	1,009	1
Oneida	3,931	2,630	5,962	6,896	7,272	818	--	111	13,527	17,196	13,889	2,167	936	3,607	98
Shawano	394	12	109	464	4,406	299	--	486	8,854	13,196	3,871	695	160	2,661	24
Vilas	2,772	348	2,173	9,903	7,456	1,824	1	77	6,275	10,220	6,846	989	184	2,306	76
Total	25,315	7,783	25,685	41,270	59,950	7,804	59	23,249	150,604	189,543	79,634	19,958	13,218	32,950	544

(table 7 continued on next page)

(Table 7 continued)

Forest inventory Unit and county	Cottonwood	Balsam poplar	Aspen	Other/unknown cherry	Red oak group	White oak group	Basswood	Elm	Other/unknown hardwoods	Total
Central										
In standard cords, unpeeled <sup>1</sup>										
Adams	--	--	8,061	--	5,202	1,294	98	59	--	69,733
Chippewa	425	1	22,276	3	4,689	373	1,305	704	2	49,386
Clark	61	--	36,723	3	6,415	1,222	1,243	434	1	69,840
Eau Claire	--	--	6,409	3	4,941	501	349	192	3	32,080
Jackson	--	--	14,379	2	13,199	2,347	469	266	2	86,331
Juneau	--	--	6,265	--	6,420	1,928	80	48	--	67,631
Marathon	--	--	31,936	58	3,654	1,135	1,487	539	24	78,600
Marquette	--	--	449	--	477	142	6	4	--	13,985
Monroe	--	--	2,085	--	2,508	753	55	33	--	22,936
Portage	--	--	11,419	14	2,859	892	193	117	13	53,465
Waupaca	--	--	9,033	3	2,264	308	232	90	--	29,744
Waushara	--	--	1,018	1	5,124	714	13	7	1	43,508
Wood	--	--	21,825	3	4,261	1,347	423	245	1	64,154
<b>Total</b>	<b>486</b>	<b>1</b>	<b>171,877</b>	<b>90</b>	<b>62,012</b>	<b>12,956</b>	<b>5,953</b>	<b>2,738</b>	<b>46</b>	<b>681,394</b>
Northeastern										
Florence	--	30	21,847	533	1,523	60	3,740	181	532	93,483
Forest	--	31	37,959	521	4,189	339	7,082	849	521	148,218
Langlade	--	10	39,751	563	5,692	1,069	9,216	1,194	553	173,732
Lincoln	--	--	71,110	328	2,351	429	3,067	679	312	160,901
Maitette	--	260	37,555	348	2,259	286	5,676	518	348	134,318
Menominee	--	--	11,185	5	1,468	55	934	110	5	48,882
Oconto	--	218	19,528	235	884	67	2,228	174	235	52,760
Oneida	--	--	43,883	260	3,240	276	2,622	758	260	130,339
Shawano	--	2	11,853	37	5,132	1,551	560	291	24	55,081
Vilas	--	0	25,074	86	2,906	146	1,522	340	86	81,608
<b>Total</b>	<b>--</b>	<b>552</b>	<b>319,746</b>	<b>2,915</b>	<b>29,645</b>	<b>4,278</b>	<b>36,649</b>	<b>5,094</b>	<b>2,876</b>	<b>1,079,321</b>

(table 7 continued on next page)



(Table 7 continued)

Forest Inventory Unit and county	Fir	Tamarack	Spruce	Jack pine	Red pine	White pine	N. white-cedar	Hemlock	Soft maple	Hard maple	White birch	Yellow birch	Beech	Ash	Honeylocust
<b>Northwestern</b>															
Ashland	6,767	1,623	6,006	869	1,445	1,277	--	140	51,584	21,200	7,647	438	30	2,592	1
Barron	63	153	294	696	1,554	606	--	22	2,326	2,065	1,327	86	1	639	1
Bayfield	5,848	178	2,994	10,578	9,368	1,139	--	--	10,554	9,346	13,249	886	81	3,372	81
Burnett	476	--	178	7,538	3,411	78	--	--	7,472	3,628	6,765	44	1	379	--
Douglas	12,904	1,940	694	16,079	6,092	321	--	--	16,146	9,047	19,159	304	2	2,301	2
Iron	4,097	463	5,312	233	525	1,019	--	--	18,111	18,653	7,953	2,230	348	3,808	180
Polk	136	67	168	2,431	855	173	--	--	2,218	1,840	1,767	138	1	419	1
Price	7,401	2,469	6,845	424	1,433	569	--	903	13,874	20,892	13,100	1,632	261	4,709	79
Rusk	168	184	2,118	65	533	208	--	--	14,640	18,524	11,356	1,051	83	4,195	22
Sawyer	3,752	1,196	3,901	3,707	3,645	1,378	--	26	39,930	33,895	20,512	1,472	99	7,946	18
Taylor	1,658	635	964	43	1,292	68	--	10	8,418	13,336	6,924	768	127	3,029	25
Washburn	2,070	183	744	14,034	7,976	1,145	--	--	14,466	8,431	8,572	296	3	3,322	--
Total	45,340	9,091	30,218	56,697	38,129	7,979	--	1,101	199,737	160,858	118,332	9,346	1,037	36,712	410
<b>Southeastern</b>															
Brown	--	--	9	80	624	26	--	--	35	54	26	5	0	12	--
Calumet	--	13	--	--	10	3	--	--	36	62	17	9	2	12	--
Columbia	--	--	80	322	6,269	787	--	--	538	657	472	46	--	166	--
Dane	--	--	13	16	138	130	--	--	33	40	9	--	--	6	--
Dodge	--	--	--	--	26	--	--	--	--	--	--	--	--	--	--
Door	--	--	248	--	260	326	--	122	516	742	522	73	8	192	--
Fond Du Lac	--	--	729	51	1,079	1,103	--	--	67	83	38	4	0	18	--
Green	--	--	--	12	153	24	--	--	13	16	2	--	--	2	--
Green Lake	--	--	6	34	1,145	687	--	--	31	48	10	6	1	9	1
Jefferson	--	--	46	--	611	361	--	--	13	16	11	1	--	3	--
Kewaunee	--	--	28	--	535	25	--	--	103	172	53	25	6	36	--
Manitowoc	17	1,079	98	--	133	505	--	--	168	213	46	6	2	38	--
Milwaukee	--	--	--	--	--	--	--	--	3	5	1	1	0	1	--
Outagamie	--	--	69	--	358	82	--	--	818	1,587	220	106	30	304	9
Ozaukee	--	--	--	--	14	13	--	--	6	11	2	1	0	2	--
Rock	--	--	103	--	391	157	--	--	28	32	8	--	--	6	--
Sheboygan	--	--	--	--	265	58	--	--	24	31	13	2	0	7	--

(table 7 continued on next page)

(Table 7 continued)

Fores/Inventory Unit and county	Cottonwood	Balsam poplar	Aspen	Other/unknown cherry	Red oak group	White oak group	Basswood	Elm	Other/unknown hardwoods	Total
<b>Northwestern</b>										
Ashland	--	863	57,933	1,605	2,632	909	3,747	1,758	6	171,073
Barron	--	16	12,983	2	2,131	416	745	82	1	26,209
Bayfield	--	1,007	71,579	201	3,498	797	7,871	338	81	153,045
Burnett	--	29	23,434	193	2,834	427	565	204	--	57,657
Douglas	--	659	63,219	381	2,205	356	2,864	608	2	155,284
Iron	--	104	21,607	490	1,858	482	1,455	664	214	89,805
Polk	--	4	17,851	6	3,716	255	664	129	1	32,842
Price	--	48	41,346	127	1,992	474	2,700	937	89	122,304
Rusk	456	36	33,347	73	6,809	1,827	3,743	1,288	22	100,748
Sawyer	--	290	63,671	527	15,165	5,489	5,875	1,695	32	214,221
Taylor	121	--	26,372	26	1,742	489	1,524	625	25	68,221
Washburn	--	73	45,944	203	5,924	1,275	4,230	466	--	119,357
<b>Total</b>	<b>577</b>	<b>3,130</b>	<b>479,286</b>	<b>3,834</b>	<b>50,506</b>	<b>13,196</b>	<b>35,985</b>	<b>8,794</b>	<b>473</b>	<b>1,310,768</b>
<b>Southeastern</b>										
Brown	--	72	917	--	23	1	45	2	--	1,931
Calumet	--	--	13	--	26	3	1	1	--	209
Columbia	--	--	1,547	--	901	141	79	46	--	12,051
Dane	--	--	--	--	31	13	1	--	--	430
Dodge	--	--	--	--	13	1	--	--	--	39
Door	--	13	1,906	--	100	19	89	53	--	5,187
Fond Du Lac	--	--	91	--	47	17	5	3	--	3,334
Green	--	--	--	--	13	5	--	--	--	240
Green Lake	--	--	96	1	297	5	--	--	1	2,380
Jefferson	--	--	54	--	6	2	2	1	--	1,128
Kewaunee	--	--	364	--	27	1	5	3	--	1,384
Manitowoc	--	--	16	--	142	55	2	1	--	2,521
Milwaukee	--	--	--	--	--	--	--	--	--	10
Outagamie	--	--	431	9	85	8	16	9	9	4,153
Ozaukee	--	--	--	--	--	--	--	--	--	50
Rock	--	--	14	--	26	10	1	--	--	777
Sheboygan	--	--	1,126	--	17	5	112	1	--	1,660

(table 7 continued on next page)

(Table 7 continued)

Forest Inventory Unit and county	Fir	Tamarack	Spruce	Jack pine	Red pine	White pine	N. white-cedar	Hemlock	Soft maple	Hard maple	White birch	Yellow birch	Beech	Ash	Honeylocust
<b>Southeastern</b>															
Walworth	--	--	--	--	19	11	--	--	24	43	8	6	2	8	--
Washington	--	--	46	16	186	27	--	--	39	65	12	8	2	12	--
Waukesha	--	--	142	--	955	345	--	--	11	20	4	3	1	4	--
Winnebago	--	--	161	21	194	643	--	18	152	197	51	10	1	39	1
Total	17	1,092	1,779	551	13,366	5,315	--	139	2,658	4,092	1,525	312	57	879	11
<b>Southwestern</b>															
Buffalo	54	--	485	--	307	347	--	--	246	274	365	8	--	54	--
Crawford	--	--	10	--	217	240	--	--	175	209	34	--	--	34	--
Dunn	--	--	188	1,195	2,031	422	--	--	621	738	612	63	--	199	--
Grant	--	--	--	5	22	--	--	--	5	6	1	--	--	1	--
Iowa	--	--	83	63	1,978	1,265	--	--	214	257	46	--	--	43	--
La Crosse	--	--	82	169	1,618	491	--	--	121	147	65	6	--	31	--
Lafayette	--	--	13	--	148	488	--	--	--	--	--	--	--	--	--
Pepin	--	--	--	25	356	176	--	--	34	25	33	3	--	7	--
Pierce	--	--	--	--	39	17	--	--	16	13	12	1	--	3	--
Richland	--	--	--	50	2,042	463	--	--	123	147	38	2	--	27	--
Sauk	--	--	108	619	5,765	915	--	--	415	504	181	13	0	99	--
St. Croix	--	--	583	1,028	3,445	225	--	--	406	347	366	34	--	157	--
Trempealeau	26	--	354	91	3,067	1,197	--	--	291	356	519	26	--	91	--
Vernon	--	--	239	30	697	378	--	--	995	2,142	14	1	34	352	--
Total	80	--	2,146	3,274	21,732	6,624	--	--	3,662	5,165	2,285	158	34	1,099	--
State total	71,497	19,113	64,743	195,474	266,450	61,626	59	26,687	404,501	421,639	230,909	32,616	14,569	84,951	1,007

<sup>1</sup> Standard cords are 128 cubic feet, consisting of 79 cubic feet of wood and 49 cubic feet of bark and air space. Rows may not sum due to rounding.

(Table 7 continued)

Forest Inventory Unit and county	Cottonwood	Balsam poplar	Aspen	Other/unknown cherry	Red oak group	White oak group	Basswood	Elm	Other/unknown hardwoods	Total
<b>Southeastern</b>										
Walworth	--	--	--	--	8	--	--	--	--	129
Washington	--	--	15	--	34	3	--	--	--	464
Waukesha	--	--	24	--	9	--	--	--	--	1,518
Winnebago	--	--	193	1	276	57	3	2	1	2,021
Total	--	84	6,804	11	2,080	347	361	123	11	41,618
<b>Southwestern</b>										
Buffalo	--	--	951	--	188	73	15	5	--	3,373
Crawford	--	--	170	--	175	70	--	--	--	1,334
Dunn	--	1	2,114	0	1,771	91	110	61	--	10,215
Grant	--	--	--	--	5	2	--	--	--	48
Iowa	--	--	254	--	211	84	1	--	--	4,500
La Crosse	--	--	350	--	102	36	8	5	--	3,232
Lafayette	--	--	--	--	--	--	--	--	--	649
Pepin	--	--	399	--	35	1	12	3	--	1,111
Pierce	--	--	147	0	2	--	3	1	--	254
Richland	--	--	549	--	115	46	3	2	--	3,606
Sauk	--	--	919	--	458	136	21	13	--	10,167
St. Croix	--	4	2,447	--	439	19	172	32	--	9,705
Trempealeau	--	--	749	--	713	68	42	25	--	7,613
Vernon	--	--	140	--	24	10	1	1	--	5,058
Total	--	6	9,191	1	4,237	636	387	149	--	60,866
State total	1,063	3,773	986,904	6,851	148,481	31,414	79,335	16,897	3,407	3,173,967

<sup>1</sup> Standard cords are 128 cubic feet, consisting of 79 cubic feet of wood and 49 cubic feet of bark and air space.

Rows may not sum due to rounding.

Table 8.—Pulpwood production by species group, Wisconsin, 1999, 2003

Species group	1999	2003	Change
<b>Softwood</b>			
In standard cords, unpeeled <sup>1</sup>			
Fir	91,693	71,497	-22.0%
Tamarack	13,176	19,113	45.1%
Spruce	50,432	64,743	28.4%
Jack pine	304,372	195,474	-35.8%
Red pine	273,325	266,450	-2.5%
White pine	57,000	61,626	8.1%
Northern white-cedar	463	59	-87.2%
Hemlock	25,398	26,687	5.1%
<b>Total</b>	<b>815,858</b>	<b>705,650</b>	<b>-13.5%</b>
<b>Hardwood</b>			
Soft maple	209,554	404,501	93.0%
Hard maple	241,438	421,639	74.6%
White birch	216,971	230,909	6.4%
Yellow birch	30,314	32,616	7.6%
Hickory	1,450	--	--
Beech	5,091	14,569	186.2%
Ash	68,832	84,951	23.4%
Honeylocust	--	1,007	--
Cottonwood	2,472	1,063	-57.0%
Balsam poplar	5,413	3,773	-30.3%
Aspen	1,046,832	986,904	-5.7%
Other/unknown cherry	4,522	6,851	51.5%
Red oak group	136,403	148,481	8.9%
White oak group	14,993	31,414	109.5%
Willow	499	--	--
Basswood	58,847	79,335	34.8%
Elm	39,098	16,897	-56.8%
Other/unknown hwd	1,543	3,407	120.8%
<b>Total</b>	<b>2,084,271</b>	<b>2,468,317</b>	<b>18.4%</b>
<b>All species</b>	<b>2,900,129</b>	<b>3,173,967</b>	<b>9.4%</b>

<sup>1</sup> Standard cords are 128 cubic feet, consisting of 79 cubic feet of wood and 49 cubic feet of bark and air space. Rows may not sum due to rounding

**Table 9.—Pulpwood receipts by species group, Wisconsin, 1999, 2003**

Species group	1999	2003	Change
<b>Softwood</b>			
In standard cords, unpeeled <sup>1</sup>			
Fir	86,899	47,070	-45.8%
Tamarack	24,758	47,049	90.0%
Spruce	111,756	131,206	17.4%
Jack pine	331,325	205,265	-38.0%
Red pine	290,006	269,815	-7.0%
White pine	58,485	63,341	8.3%
Hemlock	19,513	20,397	4.5%
<b>Total</b>	<b>922,743</b>	<b>784,144</b>	<b>-15.0%</b>
<b>Hardwood</b>			
Soft maple	179,690	262,353	46.0%
Hard maple	204,544	355,656	73.9%
White birch	247,820	275,300	11.1%
Yellow birch	25,717	26,194	1.9%
Hickory	1,515	--	--
Beech	821	2,886	251.5%
Ash	69,326	85,102	22.8%
Honeylocust	--	1,151	--
Cottonwood	2,497	1,063	-57.4%
Balsam poplar	531	16	-97.0%
Aspen	1,131,599	941,909	-16.8%
Other/unknown cherry	1,515	1,224	-19.2%
Red oak group	137,262	152,157	10.9%
White oak group	15,057	34,931	132.0%
Willow	524	--	--
Basswood	56,432	52,279	-7.4%
Elm	39,725	15,639	-60.6%
Other/unknown hwd	1,515	1,151	-24.0%
<b>Total</b>	<b>2,116,090</b>	<b>2,209,013</b>	<b>4.4%</b>
<b>All species</b>	<b>3,038,834</b>	<b>2,993,156</b>	<b>-1.5%</b>

<sup>1</sup> Standard cords are 128 cubic feet, consisting of 79 cubic feet of wood and 49 cubic feet of bark and air space.

Columns may not sum due to rounding

Table 10A.—Saw log production by species group, Wisconsin, 1999, 2003

Species group	1999	2003	Change
<b>Softwood</b>			
	In thousand board feet		
Fir	1,688	1,580	-6.4%
Redcedar	34	109	223.9%
Tamarack	98	22	-77.5%
Spruce	4,548	5,144	13.1%
Jack pine	21,960	13,234	-39.7%
Red pine	82,017	84,817	3.4%
White pine	33,902	23,151	-31.7%
Other/unknown pine	47	--	--
Northern white-cedar	1,085	369	-66.0%
Hemlock	1,590	1,160	-27.0%
<b>Total</b>	<b>146,969</b>	<b>129,587</b>	<b>-11.8%</b>
<b>Hardwood</b>			
Soft maple	45,991	33,791	-26.5%
Hard maple	79,069	82,578	4.4%
White birch	18,433	13,158	-28.6%
River birch	--	333	--
Yellow birch	4,181	5,725	36.9%
Hickory	3,170	4,971	56.8%
Hackberry	294	171	-41.9%
Beech	2,623	2,062	-21.4%
Ash	17,205	15,662	-9.0%
Butternut	317	346	9.0%
Black walnut	1,017	2,514	147.1%
Cottonwood	1,183	778	-34.2%
Balsam poplar	160	532	232.1%
Aspen	95,687	72,275	-24.5%
Black cherry	3,618	5,503	52.1%
Other/unknown cherry	14	--	--
Red oak group	140,785	128,126	-9.0%
White oak group	38,720	32,859	-15.1%
Black locust	3	1	-58.0%
Willow	118	118	0.0%
Basswood	31,587	25,082	-20.6%
Elm	2,782	3,728	34.0%
Other/unknown hwd	327	1,576	381.7%
<b>Total</b>	<b>487,286</b>	<b>431,889</b>	<b>-11.4%</b>
<b>All species</b>	<b>634,255</b>	<b>561,476</b>	<b>-11.5%</b>

Columns may not sum due to rounding

Table 10B.—Saw log receipts by species group, Wisconsin, 1999, 2003

Species group	1999	2003	Change
<b>Softwood</b>			
	In thousand board feet		
Fir	868	112	-87.1%
Redcedar	34	109	223.9%
Tamarack	161	19	-87.9%
Spruce	2,122	2,666	25.7%
Jack pine	7,835	651	-91.7%
Red pine	70,205	70,467	0.4%
White pine	32,948	22,780	-30.9%
Other/unknown pine	94	--	--
Northern white-cedar	633	358	-43.4%
Hemlock	1,815	1,379	-24.0%
<b>Total</b>	<b>116,714</b>	<b>98,542</b>	<b>-15.6%</b>
<b>Hardwood</b>			
Soft maple	48,802	33,868	-30.6%
Hard maple	89,889	91,968	2.3%
White birch	19,983	12,333	-38.3%
River birch	--	366	--
Yellow birch	5,462	7,348	34.5%
Hickory	3,039	4,940	62.5%
Hackberry	207	80	-61.2%
Beech	2,606	1,845	-29.2%
Ash	17,730	16,352	-7.8%
Butternut	327	352	7.7%
Black walnut	669	2,668	298.9%
Cottonwood	827	476	-42.5%
Balsam poplar	142	519	265.4%
Aspen	102,373	70,932	-30.7%
Black cherry	3,897	5,622	44.3%
Other/unknown cherry	14	--	--
Red oak group	147,032	128,987	-12.3%
White oak group	41,149	33,160	-19.4%
Black locust	4	1	-68.5%
Basswood	33,992	27,509	-19.1%
Elm	2,879	4,034	40.1%
Other/unknown hwds	327	2,399	633.2%
<b>Total</b>	<b>521,350</b>	<b>445,759</b>	<b>-14.5%</b>
<b>All species</b>	<b>638,065</b>	<b>544,301</b>	<b>-14.7%</b>

Columns may not sum due to rounding



Table 11.—Saw log production by Forest Inventory Unit, species group, and state of destination, Wisconsin, 2003

Species group	All Units							Total
	Illinois	Indiana	Iowa	Michigan	Minnesota	Wisconsin		
<b>Softwoods</b>			In thousand board feet					
Fir	--	--	--	1,250	219	112	1,580	
Redcedar	--	--	--	--	--	109	109	
Tamarack	--	--	--	--	2	19	22	
Spruce	--	--	--	2,250	249	2,646	5,144	
Jack pine	--	--	--	7,500	5,104	630	13,234	
Red pine	--	--	--	13,029	4,232	67,556	84,817	
White pine	69	--	--	29	287	22,766	23,151	
Northern white-cedar	--	--	--	11	--	358	369	
Hemlock	--	--	--	--	--	1,160	1,160	
<b>Total</b>	<b>69</b>	<b>--</b>	<b>--</b>	<b>24,069</b>	<b>10,093</b>	<b>95,356</b>	<b>129,587</b>	
<b>Hardwoods</b>								
Soft maple	184	6	280	1,920	6	31,396	33,791	
Hard maple	39	17	486	3,840	28	78,169	82,578	
White birch	--	--	--	1,359	4	11,794	13,158	
River birch	--	--	--	--	0	333	333	
Yellow birch	--	--	--	413	0	5,312	5,725	
Hickory	69	--	279	--	28	4,595	4,971	
Hackberry	69	--	28	--	--	74	171	
Beech	--	--	--	277	--	1,786	2,062	
Ash	74	6	244	550	12	14,777	15,662	
Butternut	--	--	--	--	--	346	346	
Black walnut	230	17	375	--	--	1,892	2,514	
Cottonwood	75	--	230	--	--	474	778	
Balsam poplar	--	--	--	13	--	519	532	
Aspen	--	--	84	2,439	4	69,748	72,275	
Black cherry	93	17	117	291	11	4,974	5,503	
Red oak group	84	17	2,591	4,421	1,445	119,568	128,126	
White oak group	150	17	1,490	--	88	31,114	32,859	
Black locust	--	--	--	--	--	1	1	
Willow	69	--	49	--	--	--	118	
Basswood	69	6	569	120	57	24,261	25,082	
Elm	72	--	92	--	--	3,564	3,728	
Other/unknown hwoods	--	--	--	--	1	1,575	1,576	
<b>Total</b>	<b>1,276</b>	<b>99</b>	<b>6,914</b>	<b>15,643</b>	<b>1,684</b>	<b>406,272</b>	<b>431,889</b>	
<b>All species</b>	<b>1,345</b>	<b>99</b>	<b>6,914</b>	<b>39,712</b>	<b>11,776</b>	<b>501,629</b>	<b>561,476</b>	

Rows and columns may not sum due to rounding

(Table 11 continued on next page)

(Table 11 continued)

## Central Unit

Species group	Indiana	Minnesota	Wisconsin	Total
<b>Softwoods</b>				
Fir	--	--	31	31
Tamarack	--	--	1	1
Spruce	--	--	8	8
Jack pine	--	1,993	28	2,021
Red pine	--	--	25,511	25,511
White pine	--	8	6,046	6,053
Northern white-cedar	--	--	10	10
Hemlock	--	--	38	38
Total	--	2,000	31,674	33,674
<b>Hardwoods</b>				
Soft maple	1	--	7,156	7,157
Hard maple	1	--	11,127	11,128
White birch	--	--	1,273	1,273
Yellow birch	--	--	317	317
Hickory	--	--	900	900
Hackberry	--	--	15	15
Beech	--	--	22	22
Ash	1	--	3,096	3,096
Butternut	--	--	12	12
Black walnut	--	--	18	18
Cottonwood	--	--	4	4
Balsam poplar	--	--	5	5
Aspen	--	--	12,882	12,882
Black cherry	4	--	696	700
Red oak group	2	--	31,357	31,360
White oak group	1	--	8,041	8,042
Basswood	1	--	4,405	4,406
Elm	--	--	707	707
Other/unknown hwds	--	--	168	168
Total	11	--	82,201	82,212
<b>All species</b>	<b>11</b>	<b>2,000</b>	<b>113,874</b>	<b>115,886</b>

Rows and columns may not sum due to rounding

(Table 11 continued on next page)

(Table 11 continued)

## Northeastern Unit

Species group	Indiana	Michigan	Minnesota	Wisconsin	Total
<b>Softwoods</b>					
Fir	--	768	--	30	798
Tamarack	--	--	--	1	1
Spruce	--	1,829	17	2,130	3,976
Jack pine	--	6,623	--	255	6,879
Red pine	--	8,667	2,089	25,262	36,018
White pine	--	29	--	11,776	11,805
Northern white-cedar	--	11	--	188	199
Hemlock	--	--	--	716	716
<b>Total</b>	<b>--</b>	<b>17,927</b>	<b>2,106</b>	<b>40,357</b>	<b>60,391</b>
<b>Hardwoods</b>					
Soft maple	5	1,106	--	9,055	10,165
Hard maple	14	2,911	--	30,537	33,462
White birch	--	494	--	6,943	7,437
River birch	--	--	--	249	249
Yellow birch	--	300	--	3,876	4,175
Hickory	--	--	--	1,190	1,190
Beech	--	277	--	1,172	1,449
Ash	4	546	--	4,649	5,200
Butternut	--	--	--	84	84
Cottonwood	--	--	--	20	20
Balsam poplar	--	13	--	290	303
Aspen	--	2,029	--	28,112	30,141
Black cherry	3	181	--	1,570	1,754
Red oak group	--	245	--	14,163	14,408
White oak group	--	--	--	2,896	2,896
Basswood	3	89	--	7,942	8,035
Elm	--	--	--	739	739
Other/unknown hwd's	--	--	--	725	725
<b>Total</b>	<b>29</b>	<b>8,192</b>	<b>--</b>	<b>114,211</b>	<b>122,432</b>
<b>All species</b>	<b>29</b>	<b>26,119</b>	<b>2,106</b>	<b>154,568</b>	<b>182,822</b>

Rows and columns may not sum due to rounding

(Table 11 continued on next page)

(Table 11 continued)

Species group	Northwestern Unit					Total
	Indiana	Michigan	Minnesota	Wisconsin	Total	
<b>Softwoods</b>						
Fir	--	482	--	50	532	
Tamarack	--	--	--	18	18	
Spruce	--	421	--	499	920	
Jack pine	--	877	2,989	346	4,212	
Red pine	--	4,362	--	12,459	16,820	
White pine	--	--	--	3,109	3,109	
Northern white-cedar	--	--	--	21	21	
Hemlock	--	--	--	6	6	
<b>Total</b>	--	6,142	2,989	16,507	25,638	
<b>Hardwoods</b>						
Soft maple	0	814	--	5,129	5,944	
Hard maple	1	930	--	25,248	26,179	
White birch	--	865	--	2,925	3,790	
Yellow birch	--	113	--	1,033	1,146	
Hickory	--	--	--	288	288	
Hackberry	--	--	--	11	11	
Beech	--	--	--	84	84	
Ash	--	4	--	2,982	2,986	
Butternut	--	--	--	56	56	
Black walnut	--	--	--	3	3	
Cottonwood	--	--	--	8	8	
Aspen	--	410	3	20,770	21,182	
Black cherry	1	110	--	296	408	
Red oak group	--	4,175	--	23,822	27,997	
White oak group	--	--	--	3,372	3,372	
Basswood	2	31	--	5,733	5,765	
Elm	--	--	--	238	238	
Other/unknown hwd	--	--	--	315	315	
<b>Total</b>	5	7,451	3	92,312	99,771	
<b>All species</b>	5	13,593	2,992	108,819	125,408	

Rows and columns may not sum due to rounding

(Table 11 continued on next page)

(Table 11 continued)

**Southeastern Unit**

Species group	Illinois	Indiana	Minnesota	Wisconsin	Total
<b>Softwoods</b>					
Fir	--	--	219	--	219
Redcedar	--	--	--	99	99
Tamarack	--	--	2	--	2
Spruce	--	--	231	8	239
Jack pine	--	--	122	--	122
Red pine	--	--	2,143	1,116	3,260
White pine	28	--	280	473	780
Northern white-cedar	--	--	--	140	140
Hemlock	--	--	--	401	401
<b>Total</b>	<b>28</b>	<b>--</b>	<b>2,997</b>	<b>2,236</b>	<b>5,261</b>
<b>Hardwoods</b>					
Soft maple	60	--	6	5,700	5,766
Hard maple	8	--	28	3,637	3,673
White birch	--	--	4	175	179
River birch	--	--	0	83	83
Yellow birch	--	--	0	55	55
Hickory	9	--	28	511	547
Hackberry	8	--	--	9	17
Beech	--	--	--	505	505
Ash	30	0	12	1,579	1,622
Butternut	--	--	--	103	103
Black walnut	9	2	--	366	377
Cottonwood	16	--	--	179	195
Balsam poplar	--	--	--	171	171
Aspen	--	--	1	2,094	2,095
Black cherry	4	1	11	1,046	1,062
Red oak group	--	--	1,442	4,934	6,376
White oak group	--	--	87	2,986	3,072
Black locust	--	--	--	1	1
Willow	50	--	--	--	50
Basswood	5	--	57	1,356	1,418
Elm	--	--	--	638	638
Other/unknown hwd's	--	--	1	--	1
<b>Total</b>	<b>199</b>	<b>4</b>	<b>1,677</b>	<b>26,129</b>	<b>28,008</b>
<b>All species</b>	<b>226</b>	<b>4</b>	<b>4,674</b>	<b>28,365</b>	<b>33,270</b>

Rows and columns may not sum due to rounding

(Table 11 continued on next page)

(Table 11 continued) **Southwestern Unit**

Species group	Illinois	Indiana	Iowa	Minnesota	Wisconsin	Total
<b>Softwoods</b>						
Fir	--	--	--	--	1	1
Redcedar	--	--	--	--	10	10
Spruce	--	--	--	--	1	1
Red pine	--	--	--	--	3,207	3,207
White pine	41	--	--	--	1,363	1,404
<b>Total</b>	<b>41</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>4,583</b>	<b>4,624</b>
<b>Hardwoods</b>						
Soft maple	123	--	280	--	4,356	4,759
Hard maple	31	--	486	--	7,620	8,137
White birch	--	--	--	--	478	478
Yellow birch	--	--	--	--	31	31
Hickory	60	--	279	--	1,707	2,046
Hackberry	61	--	28	--	39	128
Beech	--	--	--	--	2	2
Ash	43	0	244	--	2,471	2,759
Butternut	--	--	--	--	91	91
Black walnut	222	15	375	--	1,504	2,115
Cottonwood	58	--	230	--	262	551
Balsam poplar	--	--	--	--	53	53
Aspen	--	--	84	--	5,890	5,974
Black cherry	89	7	117	--	1,366	1,579
Red oak group	84	14	2,591	3	45,293	47,985
White oak group	150	15	1,490	1	13,821	15,477
Black locust	--	--	--	--	0	0
Willow	19	--	49	--	--	68
Basswood	64	--	569	--	4,825	5,458
Elm	72	--	92	--	1,242	1,406
Other/unknown hwd's	--	--	--	--	368	368
<b>Total</b>	<b>1,077</b>	<b>51</b>	<b>6,914</b>	<b>4</b>	<b>91,420</b>	<b>99,466</b>
<b>All species</b>	<b>1,119</b>	<b>51</b>	<b>6,914</b>	<b>4</b>	<b>96,002</b>	<b>104,090</b>

Rows and columns may not sum due to rounding

Table 12.—Saw log production by Forest Inventory Unit, county, and species group, Wisconsin, 2003

Forest Inventory Unit and County	Fir	Redcedar	Tamarack	Spruce	Jack pine	Red pine	White pine	N. white-cedar	Hemlock	Soft maple	Hard maple	White birch	River birch	Yellow birch	Hickory	Hackberry
In thousand board feet																
<b>Central</b>																
Adams	--	--	--	--	996	5,310	197	--	--	112	56	144	--	--	23	2
Chippewa	--	--	--	--	--	2,211	301	--	--	424	702	65	--	4	38	--
Clark	9	--	--	--	--	1,082	1,553	--	--	--	903	231	--	29	110	2
Eau Claire	--	--	--	--	1	1,130	46	--	--	195	72	25	--	--	6	--
Jackson	--	--	--	--	1,008	4,414	1,111	--	--	556	502	163	--	--	116	2
Juneau	--	--	--	--	--	984	155	--	--	653	422	98	--	--	133	2
Marathon	11	--	1	1	7	793	428	10	33	1,820	5,245	202	--	206	130	--
Marquette	--	--	--	--	--	21	44	--	--	161	91	35	--	--	28	--
Monroe	--	--	--	--	--	680	559	--	--	593	678	177	--	13	170	4
Portage	12	--	--	7	2	2,050	404	--	3	503	149	69	--	--	38	2
Waupaca	--	--	--	--	--	536	469	--	--	548	1,426	32	--	12	71	--
Waushara	--	--	--	--	--	4,295	547	--	--	104	62	8	--	2	--	--
Wood	--	--	--	--	6	2,007	240	--	2	552	821	25	--	51	38	--
<b>Total</b>	<b>31</b>	<b>--</b>	<b>1</b>	<b>8</b>	<b>2,021</b>	<b>25,511</b>	<b>6,053</b>	<b>10</b>	<b>38</b>	<b>7,157</b>	<b>11,128</b>	<b>1,273</b>	<b>--</b>	<b>317</b>	<b>900</b>	<b>15</b>
<b>Northeastern</b>																
Florence	60	--	--	81	688	2,576	1	--	1	397	1,240	1,328	25	346	1	--
Forest	145	--	--	509	1,399	8,349	35	9	627	704	5,211	1,351	25	1,043	19	--
Langlade	65	--	--	8	700	740	57	--	1	1,083	7,115	196	25	454	51	--
Lincoln	196	--	0	295	--	1,261	348	--	--	1,040	4,176	236	--	169	40	--
Marquette	2	--	--	2	1	2,125	132	26	--	1,921	2,292	246	122	1,129	7	--
Menominee	--	--	--	144	--	1,530	6,376	2	9	892	3,872	258	--	255	96	--
Ontonio	--	--	--	464	349	5,633	21	8	--	742	953	1,183	28	171	79	--
Oneida	168	--	--	957	1,750	7,120	1,620	--	--	635	1,321	1,259	--	212	7	--
Shawano	0	--	1	1	--	995	241	151	77	2,405	6,449	210	25	223	884	--
Vilas	161	--	--	1,516	1,983	5,690	2,975	3	1	335	832	1,171	--	173	6	--
<b>Total</b>	<b>798</b>	<b>--</b>	<b>1</b>	<b>3,976</b>	<b>6,879</b>	<b>36,018</b>	<b>11,805</b>	<b>199</b>	<b>716</b>	<b>10,165</b>	<b>33,462</b>	<b>7,437</b>	<b>249</b>	<b>4,175</b>	<b>1,190</b>	<b>--</b>
<b>Northwestern</b>																
Ashland	187	--	--	214	--	383	40	5	1	519	2,922	418	--	300	2	--
Barron	3	--	--	--	--	272	329	--	--	589	1,097	110	--	19	24	1
Bayfield	146	--	15	162	1,085	4,592	960	10	1	387	1,590	1,171	--	107	3	--
Burnett	--	--	--	--	--	671	44	--	--	56	43	6	--	4	1	--
Douglas	--	--	--	--	1,132	2,581	187	--	--	100	1,424	317	--	72	3	--
Iron	59	--	--	164	348	1,191	1	--	1	575	2,925	282	--	202	3	--
Polk	--	--	--	--	121	193	138	--	--	158	314	16	--	11	2	--
Pierce	136	--	2	170	--	1,428	352	5	2	1,246	1,616	357	--	99	40	--
Rusk	--	--	--	162	--	884	378	--	--	536	4,759	281	--	16	105	10
Sawyer	0	--	0	1	1	2,357	329	--	1	711	6,614	505	--	212	51	--
Taylor	0	--	0	47	--	182	1	--	--	880	2,293	189	--	60	44	--
Washburn	--	--	--	--	181	2,086	349	--	--	187	581	137	--	43	9	--
<b>Total</b>	<b>532</b>	<b>--</b>	<b>18</b>	<b>920</b>	<b>4,212</b>	<b>16,820</b>	<b>3,109</b>	<b>21</b>	<b>6</b>	<b>5,944</b>	<b>26,179</b>	<b>3,790</b>	<b>--</b>	<b>1,146</b>	<b>288</b>	<b>11</b>

Rows and columns may not sum due to rounding

(Table 12 continued on next page)

(Table 12 continued)

Forest inventory Unit and County	Beech	Ash	Butternut	Black walnut	Cottonwood	Balsam poplar	Aspen	Black cherry	Red oak group	White oak group	Black locust	Willow	Basswood	Elm	Other/unknown hws	Total
<b>Central</b>																
Adams	--	187	--	--	1	--	391	19	1,918	410	--	--	69	19	--	9,854
Chippewa	--	264	1	--	--	--	1,984	34	2,595	164	--	--	627	55	46	9,515
Clark	--	371	2	--	--	--	1,737	44	5,280	2,051	--	--	574	28	--	14,941
Eau Claire	--	22	--	--	1	--	547	17	1,355	110	--	--	42	2	46	3,618
Jackson	--	82	2	--	1	--	1,164	36	5,541	1,787	--	--	235	25	--	16,743
Juneau	--	429	--	5	--	--	1,030	33	2,494	926	--	--	249	94	--	7,707
Marathon	--	518	4	--	--	--	2,789	250	2,885	380	--	--	1,462	105	--	17,280
Marquette	--	89	--	1	--	--	56	38	308	125	--	--	188	59	76	1,318
Monte	--	337	--	10	1	--	578	72	4,223	906	--	--	330	90	--	9,422
Portage	--	334	1	1	--	--	625	31	1,401	339	--	--	118	29	--	6,119
Waupaca	22	286	--	--	--	--	1,474	85	1,844	490	--	--	301	135	--	7,733
Waushara	--	4	--	--	--	--	167	--	277	77	--	--	--	--	--	5,542
Wood	--	175	1	1	--	5	339	39	1,240	278	--	--	210	66	--	6,096
<b>Total</b>	<b>22</b>	<b>3,096</b>	<b>12</b>	<b>18</b>	<b>4</b>	<b>5</b>	<b>12,882</b>	<b>700</b>	<b>31,360</b>	<b>8,042</b>	<b>--</b>	<b>--</b>	<b>4,406</b>	<b>707</b>	<b>168</b>	<b>115,886</b>
<b>Northeastern</b>																
Florence	--	91	1	--	--	3	4,146	57	381	320	--	--	377	--	--	12,129
Forest	78	511	5	--	--	--	5,127	209	1,575	20	--	--	1,377	20	36	28,384
Langlade	36	1,100	9	--	--	--	3,587	198	1,090	120	--	--	1,414	6	134	18,197
Lincoln	18	270	1	--	--	--	2,648	165	1,305	253	--	--	396	11	15	12,843
Marquette	80	713	--	--	1	276	4,447	84	3,425	567	--	--	675	7	--	18,279
Menominee	799	443	33	--	--	8	1,890	51	1,817	160	--	--	1,494	85	2	20,217
Oconto	62	355	--	--	16	14	2,312	36	653	89	--	--	277	27	507	13,980
Oneida	--	462	2	--	1	--	2,680	121	671	241	--	--	148	6	32	19,413
Shawano	376	1,204	32	--	3	1	1,881	757	2,950	977	--	--	1,746	569	--	22,158
Vilas	--	50	--	--	--	--	1,424	76	540	149	--	--	130	6	--	17,222
<b>Total</b>	<b>1,449</b>	<b>5,200</b>	<b>84</b>	<b>--</b>	<b>20</b>	<b>303</b>	<b>30,141</b>	<b>1,754</b>	<b>14,408</b>	<b>2,896</b>	<b>--</b>	<b>--</b>	<b>8,035</b>	<b>739</b>	<b>725</b>	<b>182,822</b>
<b>Northwestern</b>																
Ashland	9	172	1	--	--	--	305	30	2,777	40	--	--	493	--	--	8,819
Barron	--	210	2	1	6	--	2,298	6	3,027	1,009	--	--	769	12	--	9,785
Bayfield	19	148	1	--	--	--	974	5	4,502	73	--	--	220	--	--	16,183
Burnett	--	23	--	--	--	--	860	--	447	135	--	--	24	--	--	3,650
Douglas	16	44	3	--	--	--	493	1	2,240	92	--	--	150	--	--	8,854
Iron	17	241	1	--	--	--	161	180	1,167	46	--	--	600	--	15	8,179
Polk	--	92	--	--	1	--	1,153	--	1,952	359	--	--	100	1	--	4,611
Price	--	404	2	--	--	--	2,175	45	734	92	--	--	809	57	41	9,812
Rusk	2	434	5	--	--	--	4,072	36	2,781	907	--	--	767	55	260	16,450
Sawyer	17	675	34	2	--	--	3,470	51	5,027	258	--	--	1,146	56	--	21,519
Taylor	--	388	1	--	--	--	1,713	46	896	234	--	--	405	56	--	7,437
Washburn	3	154	5	--	--	--	3,509	6	2,447	127	--	--	283	--	--	10,108
<b>Total</b>	<b>84</b>	<b>2,986</b>	<b>56</b>	<b>3</b>	<b>8</b>	<b>--</b>	<b>21,182</b>	<b>408</b>	<b>27,997</b>	<b>3,372</b>	<b>--</b>	<b>--</b>	<b>5,765</b>	<b>238</b>	<b>315</b>	<b>125,408</b>

(Table 12 continued on next page)

Rows and columns may not sum due to rounding



(Table 12 continued)

Forest Inventory Unit and County	Fir	Redcedar	Tamarack	Spruce	Jack pine	Red pine	White pine	N. white-cedar	Hemlock	Soft maple	Hard maple	White birch	River birch	Yellow birch	Hickory	Hackberry
<b>Southeastern</b>																
Brown	--	97	--	--	--	8	54	6	373	126	342	67	5	37	16	--
Calumet	--	--	--	--	--	6	8	6	--	140	78	--	--	--	17	--
Columbia	--	--	--	--	--	26	124	--	--	317	130	5	--	--	86	4
Dane	--	--	--	--	--	--	--	--	--	58	107	--	--	--	45	4
Dodge	--	--	--	--	--	--	17	--	--	125	172	--	--	--	71	6
Door	--	--	--	4	--	31	107	86	5	818	179	91	54	8	1	--
Fond Du Lac	--	--	--	--	--	113	--	--	--	114	131	--	--	--	39	--
Green	--	--	--	--	--	6	6	--	--	140	173	--	--	--	73	--
Green Lake	--	--	--	--	--	575	--	--	--	22	--	--	--	--	2	--
Jefferson	219	--	2	231	122	2,143	280	--	--	210	72	4	0	0	50	2
Kenosha	--	--	--	--	--	--	8	--	10	58	48	1	--	--	1	--
Kewaunee	--	--	--	1	--	2	11	5	11	1,654	22	--	11	5	2	--
Manitowoc	--	2	--	1	--	25	101	32	2	1,187	860	8	5	4	25	--
Milwaukee	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Outagamie	--	--	--	--	--	2	15	--	--	346	--	--	--	--	--	--
Ozaukee	--	--	--	--	--	--	--	--	--	135	192	2	2	--	5	--
Racine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
Rock	--	--	--	--	--	--	--	--	--	39	57	0	--	0	24	--
Sheboygan	--	--	--	1	--	163	40	3	--	285	652	1	5	1	64	--
Walworth	--	--	--	--	--	--	--	--	--	5	13	--	--	--	3	--
Washington	--	--	--	--	--	--	8	--	--	8	419	--	--	--	18	--
Waukesha	--	--	--	--	--	162	1	--	--	1	4	--	--	--	1	--
<b>Total</b>	<b>219</b>	<b>99</b>	<b>2</b>	<b>239</b>	<b>122</b>	<b>3,260</b>	<b>780</b>	<b>140</b>	<b>401</b>	<b>5,766</b>	<b>3,673</b>	<b>179</b>	<b>83</b>	<b>55</b>	<b>547</b>	<b>17</b>
<b>Southwestern</b>																
Buffalo	--	--	--	--	--	175	3	--	--	417	272	67	--	18	141	10
Crawford	--	--	--	--	--	--	5	--	--	327	1,020	27	--	--	238	33
Dunn	--	--	--	--	--	1,530	950	--	--	384	953	48	--	5	32	5
Grant	1	--	--	1	--	324	3	--	--	303	444	57	--	--	282	14
Iowa	--	--	--	--	--	--	--	--	--	199	316	57	--	--	251	19
La Crosse	--	--	--	--	--	366	4	--	--	150	145	5	--	--	76	19
Lafayette	--	--	--	--	--	--	--	--	--	11	30	--	--	--	11	--
Pepin	--	--	--	--	--	211	152	--	--	185	268	29	--	5	76	--
Pierce	--	--	--	--	--	--	3	--	--	266	855	43	--	--	52	--
Richland	--	--	--	--	--	80	19	--	--	586	1,634	30	--	--	280	12
Sauk	--	10	--	--	--	271	54	--	--	1,264	827	5	--	--	324	4
St. Croix	--	--	--	--	--	195	146	--	--	72	269	10	--	2	12	--
Tempealeau	--	--	--	--	--	46	43	--	--	243	180	24	--	--	78	4
Vernon	--	--	--	--	--	11	20	--	--	353	923	76	--	--	196	6
<b>Total</b>	<b>1</b>	<b>10</b>	<b>22</b>	<b>5,144</b>	<b>13,234</b>	<b>84,817</b>	<b>23,151</b>	<b>369</b>	<b>1,160</b>	<b>4,759</b>	<b>8,137</b>	<b>478</b>	<b>333</b>	<b>5,725</b>	<b>4,971</b>	<b>128</b>
<b>State total</b>	<b>1,580</b>	<b>109</b>	<b>22</b>	<b>5,144</b>	<b>13,234</b>	<b>84,817</b>	<b>23,151</b>	<b>369</b>	<b>1,160</b>	<b>33,791</b>	<b>82,578</b>	<b>13,158</b>	<b>333</b>	<b>5,725</b>	<b>4,971</b>	<b>171</b>

(Table 12 continued on next page)

Rows and columns may not sum due to rounding

(Table 12 continued)

Forest Inventory Unit and County	Beech	Ash	Butternut	Black walnut	Cottonwood	Balsam poplar	Aspen	Black cherry	Red oak group	White oak group	Black locust	Willow	Basswood	Elm	Other/unknown hws	Total
<b>Southeastern</b>																
Brown	66	81	--	--	25	15	140	38	266	121	--	--	52	19	--	1,955
Calumet	41	33	33	--	41	15	270	94	51	41	--	--	56	4	--	936
Columbia	--	138	--	36	26	--	328	132	927	605	--	--	92	86	--	3,062
Dane	--	42	--	39	7	25	3	170	676	562	1	--	37	41	--	1,817
Dodge	3	103	--	5	5	--	356	82	220	186	--	6	72	87	--	1,519
Door	57	171	--	2	2	1	88	4	99	38	--	--	367	5	--	2,188
Fond Du Lac	2	105	--	--	1	--	2	47	180	113	--	--	106	66	--	1,018
Green	--	149	--	125	2	16	--	117	352	394	--	--	79	83	--	1,717
Green Lake	--	--	54	--	--	--	--	1	12	12	--	--	15	48	--	739
Jefferson	--	53	--	39	33	16	368	45	1,539	222	--	10	76	18	1	5,756
Kenosha	8	16	--	17	--	--	356	43	27	23	--	--	12	3	--	631
Kewaunee	119	227	--	--	--	2	32	5	44	11	--	4	54	4	--	2,228
Manitowoc	132	148	14	58	50	48	57	31	674	301	--	--	159	26	--	3,951
Milwaukee	--	1	--	1	--	--	--	--	4	3	--	--	--	1	--	11
Outagamie	--	43	--	--	--	--	69	3	--	15	--	12	11	5	--	521
Ozaukee	13	15	--	1	1	16	27	13	75	72	--	--	10	12	--	592
Racine	--	--	--	1	--	--	--	--	1	--	--	10	--	--	--	14
Rock	--	23	--	44	--	16	--	87	169	147	--	--	15	17	--	637
Sheboygan	33	224	--	1	1	--	26	93	595	128	--	--	160	79	--	2,556
Walworth	--	9	--	2	1	--	--	26	39	43	--	--	5	6	--	154
Washington	31	34	1	--	--	--	1	21	392	4	--	4	38	21	--	999
Waukesha	--	6	--	8	--	--	--	11	32	31	--	4	2	5	--	269
<b>Total</b>	<b>505</b>	<b>1,622</b>	<b>103</b>	<b>377</b>	<b>195</b>	<b>171</b>	<b>2,095</b>	<b>1,062</b>	<b>6,376</b>	<b>3,072</b>	<b>1</b>	<b>50</b>	<b>1,418</b>	<b>638</b>	<b>1</b>	<b>33,270</b>
<b>Southwestern</b>																
Buffalo	--	97	2	4	77	3	745	144	6,264	1,749	--	2	433	62	--	10,686
Crawford	--	326	--	557	9	--	193	181	3,707	1,673	--	--	562	205	--	9,062
Dunn	--	246	1	--	19	2	1,128	77	3,165	779	--	--	441	36	322	10,122
Grant	--	254	--	473	246	--	288	134	4,449	2,014	--	49	640	183	--	10,161
Iowa	--	176	--	590	3	24	141	219	3,513	1,849	--	--	350	153	--	7,861
La Crosse	--	65	--	18	6	--	187	60	1,759	523	--	--	110	69	--	3,562
Lafayette	--	25	--	17	--	--	--	62	133	195	--	--	28	14	--	526
Pepin	--	87	1	--	19	4	83	64	1,753	266	--	--	162	5	46	3,417
Pierce	2	153	1	--	80	17	287	14	1,658	487	--	--	349	45	--	4,313
Richland	--	503	--	283	2	--	734	167	6,147	1,742	--	--	899	188	--	13,306
Sauk	--	487	85	34	2	--	1,287	233	7,628	2,139	0	--	594	198	--	15,446
St. Croix	--	51	--	--	4	2	109	2	775	216	--	--	319	5	--	2,189
Trempealeau	--	66	1	19	38	--	375	130	3,909	726	--	11	185	70	--	6,149
Vernon	--	222	--	119	45	--	417	92	3,125	1,119	--	6	387	172	--	7,290
<b>Total</b>	<b>2</b>	<b>2,759</b>	<b>91</b>	<b>2,115</b>	<b>551</b>	<b>53</b>	<b>5,974</b>	<b>1,579</b>	<b>47,985</b>	<b>15,477</b>	<b>0</b>	<b>68</b>	<b>5,458</b>	<b>1,406</b>	<b>368</b>	<b>104,090</b>
<b>State total</b>	<b>2,062</b>	<b>15,662</b>	<b>346</b>	<b>2,514</b>	<b>778</b>	<b>532</b>	<b>72,275</b>	<b>5,503</b>	<b>128,126</b>	<b>32,859</b>	<b>1</b>	<b>118</b>	<b>25,082</b>	<b>3,728</b>	<b>1,576</b>	<b>561,476</b>

Rows and columns may not sum due to rounding

Table 13.—Saw log receipts by Forest Inventory Unit, species group, and state of origin, Wisconsin, 2003

Species	All Units										Total	
	Canada	Illinois	Iowa	Michigan	Minnesota	Other U.S.	Wisconsin					
Softwoods												
Fir	..	..	..	..	..	..	..	..	..	..	..	112
Hemlock	..	..	..	218	..	..	..	..	..	..	..	1,379
Jack pine	..	..	..	22	..	..	..	..	..	..	..	651
Northern white-cedar	..	..	..	..	..	..	..	..	..	..	..	358
Red pin	..	..	..	2,057	855	..	..	..	..	..	..	70,467
Redcedar	..	..	..	..	..	..	..	..	..	..	..	109
Spruce	..	..	..	21	..	..	..	..	..	..	..	2,666
Tamarack	..	..	..	..	..	..	..	..	..	..	..	19
White pine	..	..	..	14	..	..	..	..	..	..	..	22,766
<b>Total</b>	..	..	..	2,331	855	..	..	..	..	..	..	98,542
Hardwoods												
Ash	5	59	322	993	195	..	..	..	..	..	..	16,352
Aspen	67	..	113	819	185	..	..	..	..	..	..	70,932
Balsam poplar	..	..	..	1	..	..	..	..	..	..	..	519
Basswood	4	15	348	2,666	215	..	..	..	..	..	..	27,509
Beech	..	..	..	15	44	..	..	..	..	..	..	1,845
Black cherry	1	105	55	410	77	..	..	..	..	..	..	5,622
Black locust	..	..	..	..	..	..	..	..	..	..	..	1
Black walnut	..	71	540	..	164	..	..	..	..	..	..	2,668
Butternut	..	..	..	2	4	..	..	..	..	..	..	352
Cottonwood	..	..	1	..	1	..	..	..	..	..	..	476
Elm	..	105	292	1	72	..	..	..	..	..	..	4,034
Hackberry	..	..	..	..	6	..	..	..	..	..	..	80
Hard maple	306	122	1,331	10,448	508	1,085	..	..	..	..	..	91,968
Hickory	..	13	186	14	132	..	..	..	..	..	..	4,940
Other/unknown hwrds	..	..	..	824	..	..	..	..	..	..	..	2,399
Red oak group	238	1,022	1,238	2,798	3,671	453	..	..	..	..	..	128,987
River birch	..	..	9	25	..	..	..	..	..	..	..	366
Soft maple	17	15	56	2,133	195	54	..	..	..	..	..	33,868
White birch	15	..	10	501	13	..	..	..	..	..	..	12,333
White oak group	..	662	274	122	987	..	..	..	..	..	..	33,160
Yellow birch	57	..	..	1,655	..	324	..	..	..	..	..	7,348
<b>Total</b>	711	2,189	4,774	23,427	6,470	1,916	..	..	..	..	..	445,759
<b>All species</b>	711	2,189	4,774	25,758	7,325	1,916	..	..	..	..	..	544,301

Rows and columns may not sum due to rounding

(Table 13 continued on next page)

(Table 13 continued)

Species	Central Unit					Total
	Iowa	Michigan	Minnesota	Wisconsin	Total	
<b>Softwoods</b>						
Fir	--	--	--	31	31	
Hemlock	--	216	--	38	254	
Jack pine	--	--	--	14	14	
Northern white-cedar	--	--	--	15	15	
Red pine	--	--	--	3,320	3,320	
Spruce	--	--	--	3	3	
Tamarack	--	--	--	1	1	
White pine	--	--	--	5,147	5,147	
<b>Total</b>	<b>--</b>	<b>216</b>	<b>--</b>	<b>8,570</b>	<b>8,786</b>	
<b>Hardwoods</b>						
Ash	9	35	13	4,096	4,152	
Aspen	--	--	--	12,834	12,834	
Balsam poplar	--	--	--	5	5	
Basswood	--	129	24	4,513	4,665	
Beech	--	--	--	22	22	
Black cherry	--	2	6	260	268	
Black walnut	--	--	--	2	2	
Butternut	--	--	4	23	27	
Elm	--	--	--	163	163	
Hard maple	9	874	38	10,872	11,792	
Hickory	--	--	4	526	530	
Red oak group	10	204	442	27,401	28,057	
River birch	9	--	--	--	9	
Soft maple	9	117	14	7,184	7,323	
White birch	10	41	--	1,553	1,604	
White oak group	18	6	116	6,765	6,905	
Yellow birch	--	43	--	403	446	
<b>Total</b>	<b>72</b>	<b>1,450</b>	<b>661</b>	<b>76,620</b>	<b>78,804</b>	
<b>All species</b>	<b>72</b>	<b>1,666</b>	<b>661</b>	<b>85,190</b>	<b>87,590</b>	

Rows and columns may not sum due to rounding

(Table 13 continued on next page)

(Table 13 continued)

Species	Northeastern Unit					Total
	Canada	Michigan	Other U.S.	Wisconsin		
<b>Softwoods</b>						
Fir	--	--	--	30		30
Hemlock	--	2	--	720		723
Jack pine	--	22	--	248		270
Northern white-cedar	--	--	--	180		180
Red pine	--	2	--	7,318		7,320
Spruce	--	21	--	2,627		2,648
Tamarack	--	--	--	1		1
White pine	--	14	--	12,414		12,428
<b>Total</b>	<b>--</b>	<b>60</b>	<b>--</b>	<b>23,539</b>		<b>23,599</b>
<b>Hardwoods</b>						
Ash	1	489	--	2,710		3,200
Aspen	--	702	--	29,374		30,076
Balsam poplar	--	1	--	276		277
Basswood	--	1,646	--	7,447		9,093
Beech	--	--	--	1,154		1,154
Black cherry	1	246	--	1,414		1,661
Butternut	--	2	--	87		89
Cottonwood	--	--	--	2		2
Elm	--	1	--	214		215
Hard maple	280	5,109	1,085	40,005		46,479
Hickory	--	--	--	872		872
Other/unknown hwd	--	824	--	1,040		1,864
Red oak group	32	1,010	453	15,584		17,078
River birch	--	25	--	246		271
Soft maple	10	1,335	54	8,239		9,638
White birch	5	337	--	7,039		7,381
White oak group	--	--	--	2,698		2,698
Yellow birch	24	867	324	3,991		5,206
<b>Total</b>	<b>353</b>	<b>12,593</b>	<b>1,916</b>	<b>122,391</b>		<b>137,253</b>
<b>All species</b>	<b>353</b>	<b>12,654</b>	<b>1,916</b>	<b>145,929</b>		<b>160,852</b>

Rows and columns may not sum due to rounding

(Table 13 continued on next page)

(Table 13 continued)

Species	Northwestern Unit				Total
	Canada	Michigan	Minnesota	Wisconsin	
<b>Softwoods</b>					
Fir	--	--	--	50	50
Jack pine	--	--	--	367	367
Northern white-cedar	--	--	--	16	16
Red pine	--	2,055	855	55,212	58,121
Spruce	--	--	--	7	7
Tamarack	--	--	--	18	18
White pine	--	--	--	2,895	2,895
<b>Total</b>	<b>--</b>	<b>2,055</b>	<b>855</b>	<b>58,564</b>	<b>61,474</b>
<b>Hardwoods</b>					
Ash	4	469	87	2,076	2,636
Aspen	67	118	--	19,662	19,846
Basswood	4	891	43	4,155	5,093
Beech	--	15	44	86	146
Black cherry	--	162	--	152	314
Black walnut	--	--	--	1	1
Butternut	--	--	--	48	48
Cottonwood	--	--	--	5	5
Elm	--	--	--	5	5
Hackberry	--	--	--	11	11
Hard maple	26	4,466	219	12,579	17,290
Hickory	--	14	43	101	158
Red oak group	205	1,584	1,021	17,932	20,742
Soft maple	8	681	--	3,249	3,938
White birch	10	123	--	2,602	2,735
White oak group	--	116	43	1,817	1,976
Yellow birch	33	744	--	865	1,642
<b>Total</b>	<b>357</b>	<b>9,383</b>	<b>1,501</b>	<b>65,346</b>	<b>76,588</b>
<b>All species</b>	<b>357</b>	<b>11,438</b>	<b>2,356</b>	<b>123,910</b>	<b>138,061</b>

(Table 13 continued on next page)

Rows and columns may not sum due to rounding

(Table 13 continued)

## Southeastern Unit

Species	Illinois	Wisconsin	Total
<b>Softwoods</b>			
Hemlock	--	402	402
Northern white-cedar	--	147	147
Red pine	--	82	82
Redcedar	--	99	99
Spruce	--	8	8
White pine	--	507	507
Total	--	1,245	1,245
<b>Hardwoods</b>			
Ash	27	3,205	3,232
Aspen	--	1,898	1,898
Balsam poplar	--	208	208
Basswood	15	2,486	2,501
Beech	--	524	524
Black cherry	72	1,638	1,710
Black locust	--	1	1
Black walnut	17	376	394
Butternut	--	104	104
Cottonwood	--	198	198
Elm	18	1,670	1,688
Hackberry	--	9	9
Hard maple	41	5,591	5,632
Hickory	13	1,070	1,083
Other/unknown hwds	--	76	76
Red oak group	104	6,528	6,632
River birch	--	86	86
Soft maple	15	7,828	7,843
White birch	--	136	136
White oak group	122	3,517	3,639
Yellow birch	--	21	21
Total	445	37,171	37,616
<b>All species</b>	<b>445</b>	<b>38,416</b>	<b>38,861</b>

Rows and columns may not sum due to rounding (Table 13 continued on next page)

(Table 13 continued)

Species	Southwestern Unit				Total
	Illinois	Iowa	Minnesota	Wisconsin	
<b>Softwoods</b>					
Fir	--	--	--	1	1
Red pine	--	--	--	1,624	1,624
Redcedar	--	--	--	10	10
Spruce	--	--	--	1	1
White pine	--	--	--	1,803	1,803
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>3,439</b>	<b>3,439</b>
<b>Hardwoods</b>					
Ash	32	313	95	2,690	3,131
Aspen	--	113	185	5,979	6,277
Balsam poplar	--	--	--	29	29
Basswood	--	348	148	5,660	6,156
Black cherry	32	55	70	1,510	1,668
Black walnut	54	540	164	1,513	2,271
Butternut	--	--	--	85	85
Cottonwood	--	1	1	268	270
Elm	86	292	72	1,512	1,962
Hackberry	--	--	6	54	60
Hard maple	81	1,322	251	9,121	10,775
Hickory	--	186	84	2,027	2,297
Other/unknown hwoods	--	--	--	460	460
Red oak group	918	1,228	2,209	52,124	56,478
Soft maple	--	48	181	4,896	5,125
White birch	--	--	13	464	477
White oak group	540	256	828	16,318	17,942
Yellow birch	--	--	--	33	33
<b>Total</b>	<b>1,744</b>	<b>4,701</b>	<b>4,308</b>	<b>104,744</b>	<b>115,498</b>
<b>All species</b>	<b>1,744</b>	<b>4,701</b>	<b>4,308</b>	<b>108,183</b>	<b>118,937</b>

Rows and columns may not sum due to rounding



Table 14A.—Veneer log production by species group, Wisconsin, 1999, 2003

Species group	1999	2003	Change
<b>Softwood</b>			
Tamarack	--	74	--
Spruce	750	588	-21.6%
Jack pine	143	48	-66.4%
Red pine	551	1,217	120.9%
White pine	434	971	123.4%
<b>Total</b>	<b>1,879</b>	<b>2,897</b>	<b>54%</b>
<b>Hardwood</b>			
Soft maple	892	1,152	29.1%
Hard maple	5,984	7,245	21.1%
White birch	6,339	2,776	-56.2%
River birch	1	--	--
Yellow birch	393	800	103.3%
Hickory	61	56	-8.1%
Beech	--	36	--
Ash	30	169	462.0%
Black walnut	28	329	1076.7%
Cottonwood	33	52	56.3%
Balsam poplar	19	26	38.9%
Aspen	12,640	11,043	-12.6%
Black cherry	370	325	-12.3%
Red oak group	10,311	9,018	-12.5%
White oak group	319	334	4.6%
Basswood	2,647	87	-96.7%
<b>Total</b>	<b>40,069</b>	<b>33,449</b>	<b>-17%</b>
<b>All species</b>	<b>41,948</b>	<b>36,347</b>	<b>-13%</b>

Columns may not sum due to rounding

Table 14B.—Veneer log receipts by species group, Wisconsin, 1999, 2003

Species group	1999	2003	Change
<b>Softwood</b>			
Jack pine	--	21	--
White pine	32	--	--
<b>Total</b>	<b>32</b>	<b>21</b>	<b>-35%</b>
<b>Hardwood</b>			
Soft maple	1,968	2,355	20%
Hard maple	13,783	14,000	2%
White birch	7,791	3,680	-53%
Yellow birch	1,198	2,172	81%
Hickory	112	1,532	1267%
Beech	7	160	2100%
Ash	87	254	190%
Black walnut	7	564	7643%
Cottonwood	37	52	39%
Balsam poplar	19	26	39%
Aspen	2,412	1,511	-37%
Black cherry	132	520	295%
Red oak group	13,909	16,827	21%
White oak group	222	310	40%
Basswood	3,923	142	-96%
<b>Total</b>	<b>45,608</b>	<b>44,105</b>	<b>-3%</b>
<b>All species</b>	<b>45,640</b>	<b>44,126</b>	<b>-3%</b>

Columns may not sum due to rounding

Table 15.—Veneer log production by Forest Inventory Unit, species group, and state of destination, Wisconsin, 2003  
All Units

Species group	Illinois	Indiana	Iowa	Michigan	Missouri	Ohio
<b>Softwoods</b>			In thousand board feet			
Tamarack	--	--	--	73.5	--	--
Spruce	--	--	--	588.0	--	--
Jack pine	--	--	--	24.0	--	3.4
Red pine	--	--	--	1,216.0	--	0.9
White pine	--	--	--	970.0	--	0.7
<b>Total</b>	--	--	--	<b>2,871.5</b>	--	<b>5.0</b>
<b>Hardwoods</b>						
Soft maple	--	--	--	--	--	--
Hard maple	57.0	60.3	--	1,415.7	18.8	--
White birch	--	34.2	--	240.2	1.6	--
Yellow birch	--	--	--	110.2	--	--
Hickory	--	--	--	--	--	--
Beech	--	31.9	--	--	--	--
Ash	--	20.5	--	--	--	--
Black walnut	--	56.5	--	6.8	--	--
Cottonwood	--	--	--	--	--	--
Balsam poplar	--	--	--	--	--	--
Aspen	--	--	--	9,870.0	--	--
Black cherry	--	132.4	--	61.6	6.0	--
Red oak group	--	47.5	57.0	265.6	--	--
White oak group	--	64.8	--	90.1	1.0	--
Basswood	--	--	--	--	--	--
<b>Total</b>	<b>57.0</b>	<b>448.2</b>	<b>57.0</b>	<b>12,060.1</b>	<b>27.4</b>	<b>--</b>
<b>All species</b>	<b>57.0</b>	<b>448.2</b>	<b>57.0</b>	<b>14,931.6</b>	<b>27.4</b>	<b>5.0</b>

Rows and columns may not sum due to rounding

(Table 15 continued on next page)

(Table 15 continued)

Species group	All Units			Total
	Wisconsin	Canada	Overseas	
<b>Softwoods</b>				
Tamarack	--	--	--	73.5
Spruce	--	--	--	588.0
Jack pine	20.8	--	--	48.2
Red pine	--	--	--	1,216.9
White pine	--	--	--	970.7
<b>Total</b>	<b>20.8</b>	<b>--</b>	<b>--</b>	<b>2,897.3</b>
<b>Hardwoods</b>				
Soft maple	1,152.3	--	--	1,152.3
Hard maple	5,693.0	--	0.7	7,245.5
White birch	2,500.5	--	--	2,776.4
Yellow birch	689.5	--	--	799.8
Hickory	56.2	--	--	56.2
Beech	4.2	--	--	36.1
Ash	147.7	--	0.7	168.9
Black walnut	243.4	--	22.0	328.6
Cottonwood	52.0	--	--	52.0
Balsam poplar	26.0	--	--	26.0
Aspen	1,173.1	--	--	11,043.1
Black cherry	124.8	--	--	324.7
Red oak group	8,587.3	59.3	1.5	9,018.1
White oak group	176.8	--	1.5	334.2
Basswood	87.4	--	--	87.4
<b>Total</b>	<b>20,714.0</b>	<b>59.3</b>	<b>26.4</b>	<b>33,449.4</b>
<b>All species</b>	<b>20,734.8</b>	<b>59.3</b>	<b>26.4</b>	<b>36,346.7</b>

Rows and columns may not sum due to rounding (Table 15 continued on next page)

## Central

(Table 15 continued)

Species group	Indiana	Missouri	Ohio	Wisconsin	Overseas	Total
<b>Softwoods</b>						
Jack pine	--	--	0.2	--	--	0.2
Red pine	--	--	0.1	--	--	0.1
White pine	--	--	0.1	--	--	0.1
<b>Total</b>	<b>--</b>	<b>--</b>	<b>0.3</b>	<b>--</b>	<b>--</b>	<b>0.3</b>
<b>Hardwoods</b>						
Soft maple	--	--	--	436.8	--	436.8
Hard maple	8.1	2.5	--	747.8	0.1	758.5
White birch	--	--	--	104.8	--	104.8
Yellow birch	--	--	--	97.8	--	97.8
Hickory	--	--	--	30.2	--	30.2
Beech	--	--	--	2.1	--	2.1
Ash	1.0	--	--	32.2	0.0	33.3
Black walnut	22.6	--	--	39.5	5.2	67.3
Aspen	--	--	--	136.2	--	136.2
Black cherry	35.9	1.6	--	13.5	--	51.1
Red oak group	--	--	--	1,859.5	--	1,859.5
White oak group	2.5	0.0	--	70.7	0.1	73.4
Basswood	--	--	--	31.2	--	31.2
<b>Total</b>	<b>70.2</b>	<b>4.2</b>	<b>--</b>	<b>3,602.3</b>	<b>5.4</b>	<b>3,682.1</b>
<b>All species</b>	<b>70.2</b>	<b>4.2</b>	<b>0.3</b>	<b>3,602.3</b>	<b>5.4</b>	<b>3,682.4</b>

Rows and columns may not sum due to rounding

(Table 15 continued on next page)

**Northeastern**

(Table 15 continued)

Species group	Indiana	Michigan	Missouri	Ohio	Wisconsin	Canada
<b>Softwoods</b>						
Tamarack	--	69.3	--	--	--	--
Spruce	--	477.9	--	--	--	--
Jack pine	--	21.2	--	2.2	--	--
Red pine	--	733.8	--	0.7	--	--
White pine	--	705.5	--	0.4	--	--
<b>Total</b>	--	2,007.6	--	3.3	--	--
<b>Hardwoods</b>						
Soft maple	--	--	--	--	433.7	--
Hard maple	44.2	1,415.7	13.8	--	2,727.9	--
White birch	21.0	240.2	1.0	--	1,561.5	--
Yellow birch	--	110.2	--	--	323.4	--
Hickory	--	--	--	--	7.3	--
Beech	31.9	--	--	--	2.1	--
Ash	5.7	--	--	--	46.8	--
Black walnut	33.9	6.8	--	--	8.3	--
Cottonwood	--	--	--	--	8.3	--
Balsam poplar	--	--	--	--	26.0	--
Aspen	--	992.7	--	--	161.2	--
Black cherry	23.0	61.6	1.0	--	19.8	--
Red oak group	10.2	265.6	--	--	2,712.3	12.7
White oak group	2.3	90.1	0.0	--	2.1	--
Basswood	--	--	--	--	56.2	--
<b>Total</b>	172.1	3,182.7	15.8	--	8,096.9	12.7
<b>All species</b>	172.1	5,190.4	15.8	3.3	8,096.9	12.7

Rows and columns may not sum due to rounding

(Table 15 continued on next page)

(Table 15 continued)		Northeastern	
Species group		Overseas	Total
<b>Softwoods</b>			
Tamarack	--	--	69.3
Spruce	--	--	477.9
Jack pine	--	--	23.4
Red pine	--	--	734.5
White pine	--	--	705.9
<b>Total</b>	<b>--</b>	<b>--</b>	<b>2,010.9</b>
<b>Hardwoods</b>			
Soft maple	--	--	433.7
Hard maple	0.5	--	4,202.1
White birch	--	--	1,823.6
Yellow birch	--	--	433.7
Hickory	--	--	7.3
Beech	--	--	34.0
Ash	0.2	--	52.7
Black walnut	7.8	--	56.8
Cottonwood	--	--	8.3
Balsam poplar	--	--	26.0
Aspen	--	--	1,153.9
Black cherry	--	--	105.4
Red oak group	0.3	--	3,001.0
White oak group	0.1	--	94.5
Basswood	--	--	56.2
<b>Total</b>	<b>8.9</b>	<b>--</b>	<b>11,489.1</b>
<b>All species</b>	<b>8.9</b>	<b>--</b>	<b>13,500.1</b>

Rows and columns may not sum due to rounding (Table 15 continued on next page)

Northwestern

(Table 15 continued)

Species group	Indiana	Michigan	Missouri	Ohio	Wisconsin	Canada
<b>Softwoods</b>						
Tamarack	--	4.2	--	--	--	--
Spruce	--	110.1	--	--	--	--
Jack pine	--	2.8	--	1.0	20.8	--
Red pine	--	482.2	--	0.1	--	--
White pine	--	264.5	--	0.2	--	--
<b>Total</b>	<b>--</b>	<b>863.9</b>	<b>--</b>	<b>1.2</b>	<b>20.8</b>	<b>--</b>
<b>Hardwoods</b>						
Soft maple	--	--	--	--	153.9	--
Hard maple	3.2	--	1.0	--	1,600.6	--
White birch	13.2	--	0.6	--	736.2	--
Yellow birch	--	--	--	--	177.8	--
Hickory	--	--	--	--	5.2	--
Ash	13.8	--	--	--	36.4	--
Aspen	--	8,877.3	--	--	872.6	--
Black cherry	11.1	--	0.5	--	3.1	--
Red oak group	14.0	--	--	--	2,490.8	17.5
White oak group	--	--	--	--	68.6	--
<b>Total</b>	<b>55.3</b>	<b>8,877.3</b>	<b>2.1</b>	<b>--</b>	<b>6,145.2</b>	<b>17.5</b>
<b>All species</b>	<b>55.3</b>	<b>9,741.2</b>	<b>2.1</b>	<b>1.2</b>	<b>6,166.0</b>	<b>17.5</b>

Rows and columns may not sum due to rounding (Table 15 continued on next page)



(Table 15 continued) Northwestern

Species group	Overseas	Total
<b>Softwoods</b>		
Tamarack	--	4.2
Spruce	--	110.1
Jack pine	--	24.6
Red pine	--	482.2
White pine	--	264.7
<b>Total</b>	<b>--</b>	<b>885.9</b>
<b>Hardwoods</b>		
Soft maple	--	153.9
Hard maple	0.0	1,604.8
White birch	--	750.0
Yellow birch	--	177.8
Hickory	--	5.2
Ash	0.5	50.7
Aspen	--	9,749.9
Black cherry	--	14.7
Red oak group	0.4	2,522.8
White oak group	--	68.6
<b>Total</b>	<b>1.0</b>	<b>15,098.5</b>
<b>All species</b>	<b>1.0</b>	<b>15,984.4</b>

Rows and columns may not sum due to rounding (Table 15 continued on next page)

(Table 15 continued)

**Southeastern**

<b>Species group</b>	<b>Indiana</b>	<b>Missouri</b>	<b>Wisconsin</b>	<b>Overseas</b>	<b>Total</b>
<b>Hardwoods</b>					
Soft maple	--	--	56.2	--	56.2
Hard maple	--	--	79.0	--	79.0
White birch	--	--	48.0	--	48.0
Ash	--	--	1.0	--	1.0
Black walnut	--	--	4.2	--	4.2
Cottonwood	--	--	43.7	--	43.7
Black cherry	10.0	0.4	2.1	--	12.5
Red oak group	--	--	15.6	--	15.6
White oak group	18.8	0.3	--	0.4	19.5
<b>Total</b>	<b>28.8</b>	<b>0.8</b>	<b>249.8</b>	<b>0.4</b>	<b>279.7</b>
<b>All species</b>	<b>28.8</b>	<b>0.8</b>	<b>249.8</b>	<b>0.4</b>	<b>279.7</b>

Rows and columns may not sum due to rounding

(Table 15 continued on next page)

## Southwestern

(Table 15 continued)

Species group	Illinois	Indiana	Iowa	Missouri	Ohio	Wisconsin
<b>Softwoods</b>						
Jack pine	--	--	--	--	0.0	--
Red pine	--	--	--	--	0.1	--
White pine	--	--	--	--	0.0	--
<b>Total</b>					<b>0.2</b>	
<b>Hardwoods</b>						
Soft maple	--	--	--	--	--	71.8
Hard maple	57.0	4.8	--	1.5	--	537.7
White birch	--	--	--	--	--	50.0
Yellow birch	--	--	--	--	--	90.5
Hickory	--	--	--	--	--	13.5
Ash	--	--	--	--	--	31.2
Black walnut	--	--	--	--	--	191.4
Aspen	--	--	--	--	--	3.1
Black cherry	--	52.4	--	2.4	--	86.3
Red oak group	--	23.4	57.0	--	--	1,509.0
White oak group	--	41.2	--	0.7	--	35.4
<b>Total</b>	<b>57.0</b>	<b>121.7</b>	<b>57.0</b>	<b>4.5</b>	<b>0.2</b>	<b>2,619.9</b>
<b>All species</b>	<b>57.0</b>	<b>121.7</b>	<b>57.0</b>	<b>4.5</b>	<b>0.2</b>	<b>2,619.9</b>

Rows and columns may not sum due to rounding

(Table 15 continued on next page)

(Table 15 continued)

Species group	Southwestern			Total
	Canada	Overseas	Total	
<b>Softwoods</b>				
Jack pine	--	--	0.0	0.0
Red pine	--	--	0.1	0.1
White pine	--	--	0.0	0.0
<b>Total</b>	<b>--</b>	<b>--</b>	<b>0.2</b>	<b>0.2</b>
<b>Hardwoods</b>				
Soft maple	--	--	71.8	71.8
Hard maple	--	0.1	601.0	601.0
White birch	--	--	50.0	50.0
Yellow birch	--	--	90.5	90.5
Hickory	--	--	13.5	13.5
Ash	--	--	31.2	31.2
Black walnut	--	9.0	200.4	200.4
Aspen	--	--	3.1	3.1
Black cherry	--	--	141.1	141.1
Red oak group	29.1	0.7	1,619.3	1,619.3
White oak group	--	0.9	78.1	78.1
<b>Total</b>	<b>29.1</b>	<b>10.7</b>	<b>2,900.0</b>	<b>2,900.0</b>
<b>All species</b>	<b>29.1</b>	<b>10.7</b>	<b>2,900.1</b>	<b>2,900.1</b>

Rows and columns may not sum due to rounding

Table 16A.—Cabin log production by species group, Wisconsin, 2003

Species group	1999	2003	Change
<b>Softwood</b>			
Fir	2	--	--
Spruce	2	--	--
Jack pine	1	494	46,241%
Red pine	306	1,112	263%
White pine	429	750	75%
Northern white-cedar	60	55	-8%
Hemlock	1	--	--
<b>Total</b>	<b>801</b>	<b>2,412</b>	<b>201%</b>
<b>Hardwood</b>			
Hard maple	0	--	--
Red oak group	1	--	--
<b>Total</b>	<b>1</b>	<b>--</b>	<b>--</b>
<b>All species</b>	<b>802</b>	<b>2,412</b>	<b>201%</b>

Columns may not sum due to rounding

Table 16B.—Cabin log receipts by species group, Wisconsin, 2003

Species group	1999	2003	Change
<b>Softwood</b>			
Fir	2	--	--
Spruce	2	--	--
Jack pine	1	494	46241%
Red pine	335	1,219	264%
White pine	430	819	90%
Northern white-cedar	78	120	53%
Hemlock	1	--	--
<b>Total</b>	<b>849</b>	<b>2,651</b>	<b>212%</b>
<b>Hardwood</b>			
Hard maple	0	--	--
Red oak group	1	--	--
<b>Total</b>	<b>1</b>	<b>--</b>	<b>--</b>
<b>All species</b>	<b>849</b>	<b>2,651</b>	<b>212%</b>

Columns may not sum due to rounding

Table 17A.—Pole/piling production by Forest Inventory Unit, Wisconsin, 2003

<b>All Units</b>		
<b>Species group</b>	<b>Pieces</b>	<b>MCF</b>
<b>Softwood</b>		
Red pine	30,014	180
<b>Total</b>	<b>30,014</b>	<b>180</b>
<b>Central</b>		
<b>Species group</b>		
<b>Softwood</b>		
Red pine	14,327	86
<b>Total</b>	<b>14,327</b>	<b>86</b>
<b>Central Hardwood</b>		
<b>Species group</b>		
<b>Softwood</b>		
Red pine	10,000	60
<b>Total</b>	<b>10,000</b>	<b>60</b>
<b>Northeastern</b>		
<b>Species group</b>		
<b>Softwood</b>		
Red pine	5,687	34
<b>Total</b>	<b>5,687</b>	<b>34</b>

Columns may not sum due to rounding

Table 17B.—Pole/piling receipts by Forest Inventory Unit, Wisconsin, 2003

All Units		
Species group	Pieces	MCF
<b>Softwood</b>		
Red pine	20,138	121
<b>Total</b>	<b>20,138</b>	<b>121</b>
Northwestern		
Species group	Pieces	MCF
<b>Softwood</b>		
Red pine	20,138	121
<b>Total</b>	<b>20,138</b>	<b>121</b>

Columns may not sum due to rounding





Forest Inventory Unit and county	Hickory	Hackberry	Beech	Ash	Honeylocust	Butternut	Black walnut	Cottonwood	Balsam poplar	Aspen	Black cherry	Other/unknown cherry	Red oak group	White oak group	Black locust
<b>Central</b>															
Adams	4	0	0	65	--	--	--	0	--	--	3	--	704	162	--
Chippewa	7	--	0	109	0	0	3	27	0	2,044	9	0	880	59	--
Clark	21	0	1	153	0	0	--	4	--	3,027	9	0	1,519	476	--
Eau Claire	1	--	0	39	0	--	0	0	--	606	3	0	580	54	--
Jackson	20	0	0	99	0	0	--	0	--	1,423	6	0	1,914	491	--
Juneau	23	0	--	123	--	--	1	--	--	1,068	8	--	896	301	--
Marathon	25	--	6	221	1	1	2	--	--	2,905	46	0	785	146	--
Marquette	5	--	0	20	--	--	0	--	--	246	7	--	90	33	--
Monroe	30	1	--	81	265	6	0	--	--	946	13	--	895	221	--
Portage	7	0	1	101	1	0	0	46	1	123	5	0	461	123	--
Wauapaca	12	--	6	84	--	--	3	--	--	945	15	0	506	113	--
Wausara	--	--	0	19	0	--	--	--	--	108	--	0	386	61	--
Wood	7	--	0	97	0	0	0	--	1	1,711	7	0	521	141	--
<b>Total</b>	<b>162</b>	<b>3</b>	<b>15</b>	<b>1,212</b>	<b>2</b>	<b>2</b>	<b>15</b>	<b>31</b>	<b>1</b>	<b>15,973</b>	<b>131</b>	<b>0</b>	<b>10,228</b>	<b>2,382</b>	<b>--</b>
<b>Northeastern</b>															
Florence	8	--	134	97	--	0	--	--	2	2,420	11	0	172	64	--
Forest	3	--	148	304	--	1	--	--	2	3,799	37	0	573	26	--
Langlade	16	--	146	542	2	1	4	--	1	3,651	37	0	591	93	--
Lincoln	7	--	29	364	15	0	--	--	--	5,874	29	0	401	76	--
Marquette	1	--	103	247	--	--	1	0	61	3,688	25	0	839	141	--
Menominee	17	--	154	164	--	6	--	--	1	1,196	9	0	456	34	--
Oconto	14	--	74	113	0	--	--	4	13	1,967	6	0	188	21	--
Oneida	1	--	47	266	5	0	--	--	0	3,765	21	0	346	64	--
Shawano	154	--	75	344	1	6	5	1	5	1,304	137	0	919	287	--
Vilas	1	--	9	126	4	--	--	--	0	2,129	13	0	288	38	--
<b>Total</b>	<b>222</b>	<b>--</b>	<b>919</b>	<b>2,566</b>	<b>28</b>	<b>15</b>	<b>10</b>	<b>5</b>	<b>85</b>	<b>29,793</b>	<b>325</b>	<b>0</b>	<b>4,773</b>	<b>844</b>	<b>--</b>
<b>Northwestern</b>															
Ashland	0	--	3	160	0	0	--	--	43	4,535	5	0	697	67	--
Barron	4	0	0	68	0	0	0	1	1	1,924	1	0	737	220	--
Bayfield	1	--	9	204	5	0	--	--	50	5,660	1	0	1,094	66	--
Burnett	0	--	0	23	--	--	--	--	1	2,761	--	0	289	55	--
Douglas	1	--	3	123	0	1	--	--	33	4,911	0	0	565	41	--
Iron	1	--	22	248	11	0	--	--	5	1,719	31	0	342	40	--
Polk	0	--	0	37	0	--	--	0	0	1,664	--	0	629	87	--
Price	14	--	14	309	4	0	--	--	2	3,711	9	0	304	49	--
Rusk	52	2	8	287	1	1	--	29	2	3,736	10	0	973	292	--
Sawyer	9	--	8	518	1	6	0	--	14	6,617	11	0	1,976	410	--
Taylor	14	--	7	219	1	0	--	8	--	2,411	9	0	288	77	--
Washburn	2	--	1	183	--	1	--	--	4	5,274	1	0	878	111	--
<b>Total</b>	<b>98</b>	<b>2</b>	<b>75</b>	<b>2,389</b>	<b>24</b>	<b>10</b>	<b>1</b>	<b>38</b>	<b>156</b>	<b>44,922</b>	<b>79</b>	<b>0</b>	<b>8,774</b>	<b>1,516</b>	<b>--</b>
<b>Southeastern</b>															
Brown	3	--	11	15	--	--	--	6	6	95	7	--	52	23	--
Calumet	3	--	7	6	--	6	--	7	3	51	16	--	11	8	--
Columbia	15	1	--	32	--	--	6	5	--	279	23	--	235	126	--
Dane	8	1	--	8	--	--	7	1	4	1	31	--	130	108	0
Dodge	12	1	1	18	--	--	1	1	--	66	14	--	42	37	--
Door	0	--	10	39	--	--	--	2	1	155	1	--	25	8	--
Fond Du Lac	7	--	0	19	--	--	--	0	--	7	8	--	37	22	--
Green	13	--	--	26	--	--	22	0	3	--	20	--	67	75	--
Green Lake	0	--	0	0	0	9	--	--	--	7	0	0	22	3	--
Jefferson	9	0	--	9	--	7	6	3	3	73	8	--	291	42	--
Kenosha	0	--	1	3	--	--	3	--	3	66	8	--	5	4	--
Kewaunee	0	--	21	41	--	--	5	0	0	33	1	--	10	2	--
Manitowoc	4	--	23	28	--	2	10	9	8	12	5	--	137	60	--
Milwaukee	--	--	0	0	--	--	--	--	--	--	--	--	1	1	--
Outagamie	--	--	1	23	0	--	--	--	--	45	0	0	6	3	--
Ozaukee	1	--	2	3	--	--	0	0	3	5	2	--	14	14	--
Racine	0	--	--	--	--	--	--	--	--	--	--	--	0	--	--
Rock	4	--	--	4	--	--	8	--	3	1	15	--	34	28	--
Sheboygan	11	--	6	39	--	--	0	0	--	80	16	--	113	24	--
Walworth	1	--	0	2	--	--	0	0	--	--	5	--	8	8	--
Washington	3	--	6	7	--	0	1	--	--	1	4	--	76	1	--
Waukesha	0	--	0	1	--	--	1	--	--	2	2	--	1	8	--
Winnebago	--	--	0	2	0	--	--	--	--	15	--	0	18	4	--
<b>Total</b>	<b>95</b>	<b>3</b>	<b>91</b>	<b>327</b>	<b>1</b>	<b>18</b>	<b>66</b>	<b>42</b>	<b>34</b>	<b>995</b>	<b>187</b>	<b>0</b>	<b>1,343</b>	<b>607</b>	<b>0</b>

(Table 18 continued on next page)

Rows and columns may not sum due to rounding

Forest Inventory Unit and County	Willow	Basswood	Elim	Other/unknown hardwoods	Total
<b>Central</b>					
Adams	--	17	6	--	6,967
Chippewa	--	180	49	8	5,344
Clark	--	163	27	0	7,650
Eau Claire	--	25	10	8	2,816
Jackson	--	64	18	0	9,026
Juneau	--	47	19	--	6,296
Marathon	--	329	45	0	9,339
Marquette	--	33	11	13	1,393
Monroe	--	60	17	--	3,335
Portage	--	30	11	0	4,702
Waupaca	--	64	28	--	3,548
Waushara	--	1	0	0	4,052
Wood	--	58	24	0	5,546
<b>Total</b>	<b>--</b>	<b>1,070</b>	<b>264</b>	<b>29</b>	<b>69,675</b>
<b>Northeastern</b>					
Florence	--	252	9	0	8,198
Forest	--	593	46	6	14,716
Langlade	--	909	61	23	14,392
Lincoln	--	222	36	3	13,191
Marquette	--	400	27	0	12,608
Menominee	--	308	20	0	7,003
Oconto	--	159	13	88	6,216
Oneida	--	156	39	6	12,480
Shawano	--	332	114	0	7,732
Vilas	--	98	18	0	8,797
<b>Total</b>	<b>--</b>	<b>3,429</b>	<b>382</b>	<b>126</b>	<b>105,334</b>
<b>Northwestern</b>					
Ashland	--	273	88	0	13,017
Barren	--	171	6	0	4,163
Bayfield	--	430	17	0	13,680
Burnett	--	32	10	--	5,524
Douglas	--	169	30	0	12,438
Iron	--	177	33	3	7,391
Polk	--	51	7	0	3,278
Price	--	276	57	7	10,205
Rusk	--	327	79	45	10,152
Sawyer	--	492	94	0	19,158
Taylor	--	146	42	0	5,986
Washburn	--	260	23	--	11,122
<b>Total</b>	<b>--</b>	<b>2,904</b>	<b>486</b>	<b>55</b>	<b>116,114</b>
<b>Southeastern</b>					
Brown	--	11	3	--	490
Calumet	--	10	1	--	196
Columbia	--	20	17	--	1,488
Dane	--	6	7	--	367
Dodge	1	13	15	--	314
Door	--	68	4	--	745
Fond Du Lac	--	19	12	--	419
Green	--	14	14	--	329
Green Lake	--	3	8	0	294
Jefferson	2	13	3	0	1,208
Kenosha	--	2	1	--	115
Kewaunee	1	10	1	--	527
Manitowoc	--	28	5	--	910
Millwaukee	--	--	0	--	3
Outagamie	2	3	1	0	381
Ozaukee	--	2	2	--	120
Racine	2	--	--	--	2
Rock	--	3	3	--	187
Sheboygan	--	35	14	--	695
Walworth	--	1	1	--	36
Washington	1	7	4	--	212
Waukesha	1	0	1	--	155
Winnebago	--	0	0	0	135
<b>Total</b>	<b>9</b>	<b>266</b>	<b>117</b>	<b>0</b>	<b>9,328</b>

Rows and columns may not sum due to rounding (Table 18 continued on next page)

Forest Inventory Unit and County	Fir	Redcedar	Tamarack	Spruce	Jack pine	Red pine	White pine	Other/unknown pine	N. white-cedar	Hemlock	Soft maple	Hard maple	White birch	River birch	Yellow birch
<b>Southwestern</b>															
Buffalo	4			35		52	25				88	73	40		8
Crawford						15	18				68	187	7		
Dunn				14	76	489	266	3			109	223	51		5
Grant	0				0	58	1				53	87	10		
Iowa				6	4	138	92				49	68	13		
La Crosse				6	11	177	35				40	66	10		9
Lafayette				1		10	34				2	5			
Pepin					2	76	39				35	48	7		1
Pierce						3	2				47	155	8		0
Richland						157	36				36	298	8		0
Sauk		2		8	39	451	74				248	174	14		1
St Croix		1		43	65	282	175				39	68	29		3
Trempealeau	2			26	6	222	91				63	50	62		1
Vernon				17	2	51	30				126	272	14		0
Total	6	3	25	157	208	2,182	917	3	478	2,069	31,977	36,580	18,921	58	29
<b>All Units</b>	<b>5,544</b>	<b>25</b>	<b>1,409</b>	<b>5,947</b>	<b>15,872</b>	<b>35,221</b>	<b>9,563</b>	<b>3</b>	<b>478</b>	<b>2,069</b>	<b>31,977</b>	<b>36,580</b>	<b>18,921</b>	<b>58</b>	<b>2,733</b>

Rows and columns may not sum due to rounding

Forest Inventory Unit and County	Hickory	Hackberry	Beech	Ash	Honeylocust	Butternut	Black walnut	Cottonwood	Balsam poplar	Aspen	Black cherry	Other/unknown cherry	Red oak group	White oak group	Black locust
<b>Southwestern</b>															
Buffalo	25	2		20		0	1	13	1	230	25		1,211	336	
Crawford	41	6		58			99	2		49	31		713	321	
Dunn	6	1		56		0		3	0	372	16	0	758	159	
Grant	49	3		44			82	43		54	23		839	380	
Iowa	45	3	1	34			103	1	4	46	38		679	356	
La Crosse	13	3		14			3	1		61	18		418	101	
Lafayette	2			4			3				11		25	37	
Pepin	13			16		0		3	1	47	11		339	50	
Pierce	9		0	27		0		14	3	64	2	0	314	92	
Richland	50	2		89			50	0		178	31		1,201	333	
Sauk	58	1	1	91		15	26	0		409	45		1,501	416	0
St Croix	2			17				1	1	207	0		180	43	
Trempealeau	14	1		16		0	8	7		291	27		828	156	
Vernon	35	1	2	57			27	8		88	21		615	214	
Total	361	22	4	542		16	403	96	10	2,097	300	0	9,619	2,893	0
<b>All Units</b>	<b>939</b>	<b>30</b>	<b>1,104</b>	<b>7,036</b>	<b>55</b>	<b>60</b>	<b>495</b>	<b>212</b>	<b>285</b>	<b>93,780</b>	<b>1,023</b>	<b>0</b>	<b>84,737</b>	<b>8,943</b>	<b>0</b>

Rows and columns may not sum due to rounding

Forest Inventory Unit and County	Willow	Basswood	Elm	Other/unknown hardwoods	Total
<b>Southwestern</b>					
Buffalo	0	76	11		2,277
Crawford		98	36		1,750
Dunn		82	9	56	2,756
Grant	9	112	32		1,880
Iowa		61	27		1,769
La Crosse		20	12		1,018
Lafayette		5	2		142
Pepin		29	1	8	725
Pierce		61	8		809
Richland		157	33		2,736
Sauk		105	35		3,712
St Croix		64	3		1,224
Trempealeau	2	34	13		1,820
Vernon	1	68	30		1,677
Total	12	970	252	64	24,394
<b>All Units</b>	<b>21</b>	<b>8,540</b>	<b>1,502</b>	<b>275</b>	<b>324,845</b>

Rows and columns may not sum due to rounding



(Table 19 continued)

Forest Inventory Unit and County	Beech	Ash	Honeylocust	Butternut	Black walnut	Cottonwood	Balsam poplar	Aspen	Black cherry	Red oak group	White oak group	Black locust	Willow	Basswood	Elm	Other/unknown hardwoods	All Species
<b>Central</b>																	
Adams	0	200	--	--	--	1	--	1,489	16	1,644	427	--	--	65	21	--	16,462
Chippewa	0	246	0	--	14	--	0	4,933	42	2,936	146	--	--	345	79	39	13,310
Clark	2	348	0	--	--	--	--	5,514	31	3,672	776	--	--	319	48	--	16,340
Eau Claire	0	58	--	--	--	1	--	1,542	--	1,258	80	--	--	41	15	39	6,139
Jackson	0	185	0	--	--	1	--	3,505	16	2,910	590	--	--	171	38	--	19,935
Juneau	--	335	--	--	--	--	--	3,292	29	1,931	677	--	--	119	63	--	13,268
Marathon	8	393	1	3	14	--	--	5,402	48	1,456	340	--	--	395	91	--	19,353
Marquette	0	81	--	--	1	--	--	1,039	33	172	68	--	--	158	50	63	3,556
Monroe	--	223	--	--	27	1	--	657	37	2,050	612	--	--	172	57	--	7,867
Portage	1	290	0	1	--	--	--	1,740	16	1,116	364	--	--	50	27	--	9,359
Waupaca	24	245	--	--	15	--	--	2,488	63	1,678	465	--	--	215	116	--	9,457
Waushara	0	34	0	--	--	--	--	239	--	663	167	--	--	1	1	--	10,770
Wood	1	203	0	--	--	--	--	3,728	26	1,115	400	--	--	98	66	--	12,061
<b>Total</b>	<b>36</b>	<b>2,840</b>	<b>1</b>	<b>4</b>	<b>71</b>	<b>4</b>	<b>0</b>	<b>35,569</b>	<b>358</b>	<b>22,601</b>	<b>5,113</b>	<b>--</b>	<b>--</b>	<b>2,148</b>	<b>670</b>	<b>140</b>	<b>157,876</b>
<b>Northeastern</b>																	
Florence	220	169	--	1	--	--	2	6,603	28	475	238	--	--	586	15	--	19,483
Forest	219	455	--	1	--	--	3	7,763	51	672	50	--	--	1,160	82	--	31,733
Langlade	228	1,194	3	6	22	--	1	7,183	77	1,188	238	--	--	2,073	96	--	27,974
Lincoln	40	593	22	--	--	--	--	12,494	99	978	274	--	--	458	60	--	26,060
Marquette	164	513	--	--	1	1	252	8,971	5	2,910	559	--	--	826	48	--	27,585
Menominee	24	420	--	23	--	--	--	2,805	24	807	117	--	--	380	79	--	10,738
Ontonio	161	337	0	--	22	--	29	3,896	22	505	57	--	--	378	37	419	15,920
Oneida	74	550	6	--	--	--	--	7,966	43	872	222	--	--	270	65	--	26,025
Shawano	77	817	2	26	27	3	26	2,861	329	1,940	597	--	--	918	396	--	16,972
Vilas	13	199	4	--	--	--	0	4,216	50	328	121	--	--	205	32	--	16,575
<b>Total</b>	<b>1,219</b>	<b>5,248</b>	<b>38</b>	<b>58</b>	<b>49</b>	<b>25</b>	<b>313</b>	<b>64,759</b>	<b>727</b>	<b>10,675</b>	<b>2,474</b>	<b>--</b>	<b>--</b>	<b>7,255</b>	<b>910</b>	<b>419</b>	<b>219,064</b>
<b>Northwestern</b>																	
Ashland	10	310	0	1	--	--	70	10,515	7	2,306	152	--	--	646	142	--	27,298
Barron	0	192	0	2	1	5	1	4,600	5	2,593	829	--	--	572	17	--	11,609
Bayfield	16	286	0	1	--	--	81	12,751	6	3,292	141	--	--	732	27	--	30,024
Burnett	0	42	--	--	--	--	2	8,555	--	825	194	--	--	66	16	--	14,147
Douglas	14	218	--	1	--	--	53	10,687	--	1,122	99	--	--	308	49	--	23,574
Iron	33	333	5	1	--	--	8	3,503	106	743	100	--	--	506	54	--	14,003
Polk	0	78	0	--	--	1	0	4,281	--	1,696	276	--	--	102	11	--	7,881
Price	24	652	6	1	--	--	4	9,047	39	819	125	--	--	505	122	--	21,806
Rusk	25	676	1	3	--	--	3	8,938	40	2,367	503	--	--	673	116	--	19,800
Sawyer	22	1,195	1	28	2	--	23	18,055	52	5,367	988	--	--	1,056	184	--	43,803
Taylor	14	474	2	--	--	--	--	5,766	40	704	246	--	--	336	91	--	12,365
Washburn	3	370	--	2	--	--	6	14,965	1	2,886	302	--	--	471	38	--	27,613
<b>Total</b>	<b>161</b>	<b>4,826</b>	<b>14</b>	<b>39</b>	<b>3</b>	<b>6</b>	<b>253</b>	<b>111,673</b>	<b>297</b>	<b>24,720</b>	<b>3,965</b>	<b>--</b>	<b>--</b>	<b>5,973</b>	<b>866</b>	<b>--</b>	<b>253,924</b>
<b>Southeastern</b>																	
Brown	45	21	--	--	--	29	18	261	28	53	43	--	--	26	12	--	1,301
Calumet	30	26	--	28	--	34	13	225	75	18	19	--	--	26	1	--	738
Columbia	--	93	--	3	22	--	--	913	56	347	230	--	--	61	58	--	3,271
Dane	--	36	--	--	29	6	21	614	3	140	515	1	--	26	31	--	1,651
Dodge	--	82	--	--	4	5	--	315	65	169	178	--	5	58	69	--	1,457
Door	12	23	--	--	--	11	1	327	--	48	13	--	--	279	4	--	1,301

Columns and rows may not sum due to rounding

(Table 19 continued on next page)

(Table 19 continued)

Forest Inventory Unit and County	Fir	Redcedar	Tamarack	Spruce	Jack pine	Red pine	White pine	Other/unknown pine	N. white-cedar	Hemlock	Soft maple	Hard maple	White birch	River birch	Yellow birch	Hickory	Hackberry
<b>Southeastern</b>																	
Fond Du Lac	--	--	--	84	4	281	147	--	0	--	104	96	1	--	0	24	--
Green	--	--	--	--	1	26	10	--	--	--	119	150	0	--	--	47	--
Green Lake	--	--	--	1	3	707	92	--	--	--	4	24	0	--	1	2	--
Jefferson	198	--	2	59	111	509	54	--	--	--	177	69	2	0	0	42	2
Kenosha	--	--	--	--	--	--	2	--	--	9	49	44	1	--	--	1	--
Kewaunee	--	--	--	3	--	214	4	--	54	--	23	24	2	--	2	--	--
Manitowoc	2	2	124	11	--	147	154	--	41	2	403	328	8	--	2	1	--
Milwaukee	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	--	--
Outagamie	--	--	--	8	--	48	26	--	47	--	125	138	8	--	9	--	--
Ozaukee	--	--	--	--	--	59	2	--	0	--	41	149	2	--	0	1	--
Racine	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rock	--	--	--	12	--	52	118	--	--	--	33	50	0	--	--	19	--
Sheboygan	--	--	--	--	--	848	47	--	42	--	151	118	1	--	0	33	--
Walworth	--	--	--	--	--	3	2	--	--	--	8	16	0	--	1	3	--
Washington	--	--	--	5	1	25	11	--	--	--	11	201	0	--	1	--	--
Waukesha	--	--	--	16	--	283	46	--	--	--	2	6	0	--	0	1	--
Winneshago	--	--	--	19	2	26	86	--	--	2	19	16	2	--	1	--	--
<b>Total</b>	<b>200</b>	<b>90</b>	<b>128</b>	<b>258</b>	<b>154</b>	<b>4,348</b>	<b>1,417</b>	<b>--</b>	<b>276</b>	<b>385</b>	<b>1,823</b>	<b>1,978</b>	<b>214</b>	<b>0</b>	<b>27</b>	<b>314</b>	<b>14</b>
<b>Southwestern</b>																	
Buffalo	6	--	--	56	--	210	49	--	--	--	232	221	34	--	28	81	8
Crawford	--	--	--	1	--	29	37	--	--	--	197	404	24	--	--	59	4
Dunn	--	--	--	22	93	1,001	215	4	--	--	307	566	59	--	14	29	4
Grant	--	--	--	--	0	315	3	--	--	--	216	363	48	--	--	112	12
Iowa	--	--	--	10	5	264	169	--	--	--	177	245	50	--	--	89	16
La Crosse	--	--	--	9	13	569	70	--	--	--	137	294	32	--	52	43	16
Lafayette	--	--	--	1	--	20	65	--	--	--	9	26	--	--	8	8	--
Pepin	--	--	--	--	2	127	30	--	--	--	95	59	14	--	0	44	--
Pierce	--	--	--	--	--	5	5	--	--	--	47	317	19	--	0	17	--
Richland	--	--	--	--	4	349	80	--	--	--	345	531	27	--	0	117	10
St. Croix	--	1	--	68	80	515	197	--	--	--	82	130	29	--	11	8	--
Sauk	--	--	--	12	48	1,030	175	--	--	--	356	388	11	--	1	130	4
Trempealeau	3	--	--	41	7	453	201	--	--	--	175	175	123	--	2	56	4
Vernon	--	--	--	27	2	103	70	--	--	--	325	721	64	--	0	67	5
<b>Total</b>	<b>9</b>	<b>1</b>	<b>2218</b>	<b>248</b>	<b>255</b>	<b>4,991</b>	<b>1,365</b>	<b>4</b>	<b>993</b>	<b>4,327</b>	<b>65,616</b>	<b>64,638</b>	<b>15,054</b>	<b>0</b>	<b>4,135</b>	<b>2,452</b>	<b>83</b>
<b>All Units</b>	<b>9,473</b>	<b>91</b>	<b>2,218</b>	<b>9,548</b>	<b>29,101</b>	<b>113,436</b>	<b>20,363</b>	<b>4</b>	<b>993</b>	<b>4,327</b>	<b>65,616</b>	<b>64,638</b>	<b>15,054</b>	<b>0</b>	<b>4,135</b>	<b>2,452</b>	<b>120</b>

(Table 19 continued on next page)  
Columns and rows may not sum due to rounding

(Table 19 continued)

Forest Inventory Unit and County	Beech	Ash	Honeylocust	Butternut	Black walnut	Cottonwood	Balsam poplar	Aspen	Black cherry	Red oak group	White oak group	Black locust	Willow	Basswood	Elm	Other/unknown hardwoods	All Species
<b>Southeastern</b>																	
Fond Du Lac	0	87	--	--	18	--	1	17	28	103	59	--	--	86	51	--	1,173
Green	--	96	--	--	--	2	14	--	84	270	310	--	--	65	70	--	1,281
Green Lake	0	1	0	45	--	--	--	16	0	57	12	--	--	13	40	--	1,018
Jefferson	--	42	--	--	32	28	14	334	37	1,453	204	--	8	64	15	1	3,454
Kenosha	6	14	--	--	1	--	--	315	36	26	22	--	--	10	3	--	539
Kewaunee	0	3	--	--	--	26	--	62	--	6	0	--	3	0	0	--	427
Manitowoc	32	94	--	12	49	42	39	15	7	206	228	--	--	104	4	--	2,057
Milwaukee	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
Outagamie	2	25	1	--	--	--	--	73	1	16	16	--	10	1	1	--	553
Ozaukee	0	11	--	--	1	1	--	--	9	16	17	--	--	5	4	--	319
Racine	--	--	--	--	--	--	--	--	--	--	--	--	8	--	--	--	8
Rock	--	16	--	--	14	--	14	--	2	127	136	--	--	10	13	--	673
Sheboygan	12	136	--	--	0	1	--	40	59	148	50	--	--	69	48	--	1,803
Walworth	0	8	--	--	--	1	--	--	22	38	41	--	--	5	5	--	153
Washington	11	15	--	1	4	--	--	3	5	172	4	--	3	17	3	--	495
Waukesha	0	2	--	--	1	--	--	4	6	20	11	--	3	2	2	--	407
Winnebago	0	3	0	--	--	--	--	33	--	41	8	--	--	0	0	--	257
<b>Total</b>	<b>152</b>	<b>833</b>	<b>1</b>	<b>86</b>	<b>156</b>	<b>207</b>	<b>132</b>	<b>2,958</b>	<b>716</b>	<b>3,948</b>	<b>2,118</b>	<b>1</b>	<b>42</b>	<b>928</b>	<b>431</b>	<b>1</b>	<b>24,335</b>
<b>Southwestern</b>																	
Buffalo	--	64	--	--	1	45	--	556	53	3,283	1,176	--	2	177	42	--	6,325
Crawford	--	139	--	--	103	2	--	128	35	1,547	687	--	--	196	70	--	3,661
Dunn	--	203	--	--	--	14	0	1,328	76	2,822	657	--	--	219	33	289	7,935
Grant	--	161	--	--	188	197	--	176	50	2,178	864	--	41	431	94	--	5,450
Iowa	2	106	--	--	202	3	20	146	104	1,712	1,194	--	--	216	83	--	4,811
La Crosse	--	48	--	--	6	5	--	128	71	1,571	387	--	--	73	40	--	3,564
Lafayette	--	20	--	--	9	--	--	--	51	125	182	--	--	23	12	--	552
Pepin	--	64	--	--	--	8	--	109	47	1,175	147	--	--	49	1	39	2,009
Pierce	2	125	--	--	--	52	--	251	8	915	206	--	--	215	23	--	2,208
Richland	--	175	--	--	90	2	--	432	65	2,540	916	--	--	414	103	--	6,201
St. Croix	--	42	--	--	--	1	0	494	2	504	138	--	--	168	4	--	2,475
Sauk	2	264	--	71	122	1	--	1,089	154	2,686	910	0	--	318	113	--	7,884
Trempealeau	--	46	--	--	41	32	--	1,061	96	2,749	554	--	9	77	54	--	5,950
Vernon	3	182	--	--	123	38	--	278	94	1,977	731	--	5	225	117	--	5,157
<b>Total</b>	<b>8</b>	<b>1,638</b>	<b>--</b>	<b>71</b>	<b>885</b>	<b>400</b>	<b>20</b>	<b>6,176</b>	<b>907</b>	<b>25,782</b>	<b>8,750</b>	<b>0</b>	<b>57</b>	<b>2,802</b>	<b>789</b>	<b>308</b>	<b>64,191</b>
<b>All Units</b>	<b>1,575</b>	<b>15,385</b>	<b>55</b>	<b>257</b>	<b>1,163</b>	<b>642</b>	<b>718</b>	<b>221,134</b>	<b>3,006</b>	<b>87,728</b>	<b>22,419</b>	<b>1</b>	<b>99</b>	<b>19,106</b>	<b>3,667</b>	<b>868</b>	<b>719,390</b>

Columns and rows may not sum due to rounding



Table 20.—Harvest residues generated by industrial roundwood harvested by Forest Inventory Unit, county, and species group, Wisconsin, 2003

Forest Inventory Unit and County	Fir	Redcedar	Tamarack	Spruce	Jack pine	Red pine	White pine	Other/unknown pine	N. white-cedar	Hemlock	Soft maple	Hard maple	White birch	River birch
<b>Central</b>														
Adams	--	--	5	1	583	95	--	--	--	--	109	119	48	--
Chippewa	1	--	2	4	23	214	38	--	--	--	168	230	138	--
Clark	1	104	--	5	50	104	130	--	--	1	288	328	149	--
Eau Claire	0	--	--	2	117	178	25	--	--	--	89	89	61	--
Jackson	--	--	1	4	554	507	207	--	--	--	283	310	134	--
Juneau	--	--	2	1	520	337	81	--	--	--	219	215	49	--
Marathon	14	--	1	35	262	364	51	--	1	33	455	829	185	--
Marquette	--	--	2	2	37	144	29	--	--	--	23	23	7	--
Monroe	--	--	3	4	117	141	94	--	--	--	131	143	39	--
Portage	9	--	18	12	188	385	106	--	5	5	153	136	54	--
Waupaca	1	--	3	16	4	190	96	--	1	127	245	32	--	--
Waushara	--	--	--	41	52	736	139	--	--	--	70	75	14	--
Wood	1	--	0	28	164	289	112	--	--	1	224	275	90	--
<b>Total</b>	<b>26</b>	<b>--</b>	<b>36</b>	<b>155</b>	<b>2,689</b>	<b>4,360</b>	<b>1,210</b>	<b>--</b>	<b>1</b>	<b>40</b>	<b>2,341</b>	<b>3,011</b>	<b>1,001</b>	<b>--</b>
<b>Northeastern</b>														
Florence	106	--	8	54	169	270	8	--	1	63	649	697	280	3
Forest	123	--	16	259	152	753	7	--	2	60	913	1,425	531	3
Langlade	157	--	18	158	83	106	9	--	--	2	1,192	1,995	462	3
Lincoln	156	--	80	128	51	183	47	--	3	649	1,238	384	--	--
Marquette	60	--	28	43	337	415	27	--	42	119	727	816	239	13
Menominee	10	--	0	20	15	157	529	--	2	182	268	675	86	--
Oconto	7	--	2	60	81	476	12	--	13	371	376	224	376	3
Oneida	140	--	84	286	340	668	147	--	--	2	503	654	579	--
Shawano	12	--	0	4	11	145	58	--	16	14	551	1,065	139	3
Vilas	103	--	12	227	435	557	264	--	1	1	229	380	335	--
<b>Total</b>	<b>874</b>	<b>--</b>	<b>249</b>	<b>1,238</b>	<b>1,675</b>	<b>3,729</b>	<b>1,106</b>	<b>--</b>	<b>78</b>	<b>446</b>	<b>6,052</b>	<b>9,322</b>	<b>3,259</b>	<b>26</b>
<b>Northwestern</b>														
Ashland	231	--	51	213	21	52	27	--	4	2	1,772	955	276	--
Barron	2	--	5	9	17	46	40	--	--	0	140	171	52	--
Bayfield	190	--	7	107	356	490	87	--	1	0	331	339	494	--
Burnett	10	--	--	6	311	104	4	--	--	--	248	106	181	--
Douglas	381	--	61	17	490	296	19	--	--	--	525	355	535	--
Iron	134	--	15	186	41	100	26	--	--	0	570	710	234	--
Polk	2	--	2	5	69	28	15	--	--	--	89	82	46	--
Price	245	--	78	231	10	125	35	--	4	15	590	837	438	--
Rusk	5	--	6	83	2	71	30	--	--	--	536	1,028	357	--
Sawyer	117	--	37	122	90	240	48	--	1	1,406	1,727	674	--	--
Taylor	52	--	20	36	1	35	1	--	0	376	650	230	--	--
Washburn	65	--	6	23	352	290	44	--	--	--	502	327	275	--
<b>Total</b>	<b>1,436</b>	<b>--</b>	<b>287</b>	<b>1,039</b>	<b>1,758</b>	<b>1,876</b>	<b>377</b>	<b>--</b>	<b>9</b>	<b>19</b>	<b>7,084</b>	<b>7,289</b>	<b>3,791</b>	<b>--</b>
<b>Southeastern</b>														
Brown	--	10	--	0	2	11	4	--	1	26	15	33	8	1
Calumet	--	--	0	--	--	7	1	--	1	--	16	9	1	--
Columbia	--	--	--	3	8	108	22	--	--	--	51	33	15	--
Dane	--	--	0	0	0	2	2	--	--	--	7	11	0	--
Dodge	--	--	--	--	--	0	15	--	--	--	13	16	--	--
Door	--	--	--	8	--	7	13	--	9	2	104	41	29	6

Columns and rows may not sum due to rounding

(Table 20 continued)

Forest Inventory Unit and County	Yellow birch	Hickory	Hackberry	Beech	Ash	Honeylocust	Bitternut	Black walnut	Cottonwood	Balsam poplar	Aspen	Black cherry	Other/unknown cherry	Red oak group
<b>Central</b>														
Adams	2	2	0	0	41	--	--	--	0	--	305	2	--	365
Chippewa	18	4	--	0	69	0	0	1	1	0	840	5	1	448
Clark	19	13	0	1	96	0	0	--	0	--	1,186	5	1	779
Eau Claire	6	1	--	0	24	0	--	--	0	--	272	2	1	290
Jackson	9	12	0	0	63	0	0	--	0	--	621	4	0	992
Juneau	2	14	0	--	77	--	--	1	--	--	405	4	--	464
Marathon	43	15	--	3	135	0	0	1	--	--	1,267	27	11	408
Marquette	0	3	--	0	12	--	--	--	--	--	67	4	--	47
Monroe	3	18	0	--	50	--	--	3	0	--	129	8	--	511
Portage	5	4	0	0	60	0	0	0	--	--	346	3	2	238
Waupaca	5	8	--	4	52	--	--	1	--	--	410	9	1	262
Waushara	1	--	--	0	12	0	--	--	--	--	51	--	0	155
Wood	14	4	--	0	61	0	0	0	--	1	751	4	1	269
<b>Total</b>	<b>127</b>	<b>97</b>	<b>2</b>	<b>5</b>	<b>755</b>	<b>1</b>	<b>1</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>6,650</b>	<b>78</b>	<b>17</b>	<b>5,226</b>
<b>Northeastern</b>														
Florence	113	2	--	87	62	--	0	--	--	1	1,149	6	104	89
Forest	210	2	--	96	193	--	1	--	--	1	1,723	22	102	297
Langlade	163	7	--	94	339	1	1	2	--	0	1,629	22	110	304
Lincoln	116	4	--	18	224	9	0	--	--	--	2,589	17	63	206
Marquette	183	1	--	66	155	--	--	0	0	38	1,706	13	68	432
Menominee	56	10	--	94	103	--	4	--	--	1	564	5	1	236
Oconto	54	8	--	46	71	0	--	2	2	9	908	4	46	97
Oneida	88	1	--	30	160	3	0	--	--	0	1,584	13	50	172
Shawano	46	94	--	46	214	1	3	2	0	2	610	82	7	474
Vilas	48	1	--	5	73	2	--	--	--	0	888	8	16	81
<b>Total</b>	<b>1,077</b>	<b>130</b>	<b>--</b>	<b>581</b>	<b>1,594</b>	<b>15</b>	<b>9</b>	<b>4</b>	<b>3</b>	<b>52</b>	<b>13,349</b>	<b>194</b>	<b>568</b>	<b>2,389</b>
<b>Northwestern</b>														
Ashland	46	0	--	2	102	0	0	--	--	28	1,954	3	314	363
Barron	5	3	0	0	43	0	0	0	1	1	860	1	0	381
Bayfield	23	0	--	2	100	0	0	--	--	33	2,326	1	37	542
Burnett	2	0	--	0	15	--	--	--	--	1	1,024	--	38	147
Douglas	17	0	--	2	78	0	0	--	--	21	1,978	0	75	269
Iron	63	0	--	9	110	2	0	--	--	3	611	19	92	178
Polk	6	0	--	0	23	0	--	--	0	0	719	--	1	325
Price	62	6	--	8	193	2	0	--	--	2	1,596	5	25	154
Rusk	34	19	1	3	178	0	1	--	1	1	1,546	5	14	504
Sawyer	32	5	--	5	328	0	4	0	--	9	2,774	6	103	1,020
Taylor	32	6	--	4	139	1	0	--	0	--	1,077	5	5	149
Washburn	14	1	--	0	124	--	1	--	--	2	2,196	1	40	452
<b>Total</b>	<b>376</b>	<b>42</b>	<b>1</b>	<b>37</b>	<b>1,433</b>	<b>6</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>101</b>	<b>18,652</b>	<b>45</b>	<b>744</b>	<b>4,485</b>
<b>Southeastern</b>														
Brown	4	2	--	7	9	--	--	--	3	4	45	4	--	27
Calumet	0	2	--	4	4	--	4	--	4	2	29	10	--	6
Columbia	1	9	0	--	20	--	--	4	3	--	108	14	--	122
Dane	--	5	0	--	5	--	--	4	1	3	0	19	--	68
Dodge	--	8	1	0	11	--	--	1	1	--	37	9	--	22
Door	3	0	--	6	24	--	--	--	1	1	69	0	--	13

Columns and rows may not sum due to rounding (table 20 continued on next page)

(Table 20 continued)

Forest Inventory Unit and County	White oak group	Black locust	Willow	Basswood	Elm	Other/unknown hardwoods	All Species
<b>Central</b>							
Adams	84	--	--	10	4	--	2,548
Chippewa	30	--	--	96	19	5	2,355
Clark	247	--	--	99	16	0	3,518
Eau Claire	28	--	--	16	6	5	1,211
Jackson	255	--	--	40	11	0	4,009
Juneau	156	--	--	29	11	--	2,587
Marathon	76	--	--	203	28	4	4,452
Marquette	17	--	--	20	6	8	463
Monroe	115	--	--	37	11	--	1,554
Portage	64	--	--	19	7	2	1,817
Waupaca	59	--	--	39	17	--	1,581
Waushara	32	--	--	32	0	0	1,379
Wood	73	--	--	36	15	0	2,412
<b>Total</b>	<b>1,235</b>	<b>--</b>	<b>--</b>	<b>644</b>	<b>153</b>	<b>26</b>	<b>29,886</b>
<b>Northeastern</b>							
Florence	34	--	--	161	6	106	4,226
Forest	13	--	--	374	30	106	7,414
Langlade	48	--	--	494	39	124	7,559
Lincoln	39	--	--	141	23	62	6,430
Marinette	72	--	--	255	17	68	5,941
Menominee	18	--	--	189	13	1	3,238
Oconto	11	--	--	101	8	100	3,092
Oneida	33	--	--	100	25	54	5,715
Shawano	149	--	--	203	70	5	4,026
Vilas	20	--	--	63	12	16	3,777
<b>Total</b>	<b>437</b>	<b>--</b>	<b>--</b>	<b>2,081</b>	<b>243</b>	<b>640</b>	<b>51,417</b>
<b>Northwestern</b>							
Ashland	35	--	--	173	57	1	6,682
Barron	114	--	--	105	4	0	1,999
Bayfield	34	--	--	277	11	13	5,801
Burnett	28	--	--	21	7	--	2,254
Douglas	21	--	--	108	20	0	5,289
Iron	21	--	--	110	21	40	3,296
Polk	45	--	--	32	4	0	1,496
Price	25	--	--	172	36	23	4,910
Rusk	151	--	--	185	34	38	4,834
Sawyer	211	--	--	311	61	6	9,378
Taylor	40	--	--	92	24	6	2,981
Washburn	57	--	--	167	15	--	4,954
<b>Total</b>	<b>783</b>	<b>--</b>	<b>--</b>	<b>1,754</b>	<b>294</b>	<b>128</b>	<b>53,855</b>
<b>Southeastern</b>							
Brown	12	--	--	7	2	--	236
Calumet	4	--	--	6	0	--	109
Columbia	65	--	--	12	11	--	610
Dane	56	0	--	4	4	--	192
Dodge	19	--	1	8	9	--	170
Door	4	--	--	42	2	--	384

Columns and rows may not sum due to rounding (table 20 continued on next page)

(Table 20 continued)

Forest Inventory Unit and County	Fir	Redcedar	Tamarack	Spruce	Jack pine	Red pine	White pine	Other/unknown pine	N. white-cedar	Hemlock	Soft maple	Hard maple	White birch	River birch
<b>Southeastern</b>														
Fond Du Lac	--	--	--	23	1	28	19	--	0	--	14	15	1	--
Green	--	--	--	--	0	3	1	--	--	--	15	18	0	--
Green Lake	--	--	--	0	1	60	12	--	--	--	1	4	0	--
Jefferson	22	--	0	25	12	171	26	--	--	--	23	7	1	0
Kenosha	--	--	--	--	--	--	1	--	--	1	6	4	0	--
Kewaunee	--	--	1	1	--	20	1	--	6	1	178	8	2	1
Manitowoc	1	0	34	3	--	12	16	--	5	0	133	89	2	1
Milwaukee	--	--	--	--	--	--	--	--	--	--	0	0	0	--
Outagamie	--	--	--	2	--	6	2	--	6	--	65	52	7	--
Ozaukee	--	--	--	--	--	4	0	--	0	--	14	18	0	0
Racine	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rock	--	--	--	3	--	7	10	--	--	--	5	6	0	--
Sheboygan	--	--	--	0	--	64	31	--	5	--	31	61	0	1
Walworth	--	--	--	--	--	0	0	--	--	--	1	3	0	--
Washington	--	--	--	1	0	3	2	--	3	--	2	41	0	--
Waukesha	--	--	--	4	--	28	6	--	--	--	0	1	0	--
Winnebago	--	--	5	5	0	3	11	--	3	0	5	6	2	--
<b>Total</b>	<b>22</b>	<b>10</b>	<b>34</b>	<b>80</b>	<b>25</b>	<b>545</b>	<b>167</b>	<b>--</b>	<b>31</b>	<b>31</b>	<b>705</b>	<b>471</b>	<b>66</b>	<b>9</b>
<b>Southwestern</b>														
Buffalo	2	--	--	15	--	18	6	--	--	--	52	39	19	--
Crawford	--	--	4	0	--	4	4	--	--	--	40	101	4	--
Dunn	--	--	--	6	28	155	86	0	--	--	62	121	23	--
Grant	0	--	--	0	0	23	0	--	--	--	32	45	6	--
Iowa	--	--	--	3	2	34	23	--	--	--	28	38	7	--
La Crosse	--	--	--	3	4	53	9	--	--	--	22	32	4	--
Lafayette	--	--	--	0	--	3	8	--	--	--	1	3	--	--
Pepin	--	--	--	--	1	23	14	--	--	--	21	26	4	--
Pierce	--	--	--	--	--	1	1	--	--	--	29	82	5	--
Richland	--	--	--	--	1	40	9	--	--	--	67	159	4	--
Sauk	--	1	--	3	15	117	19	--	--	--	148	95	6	--
St. Croix	--	0	--	18	24	73	36	--	--	--	21	38	13	--
Trempealeau	1	--	--	11	2	55	23	--	--	--	36	29	23	--
Vernon	--	--	--	7	1	13	8	--	--	--	71	157	8	--
<b>Total</b>	<b>3</b>	<b>1</b>	<b>67</b>	<b>67</b>	<b>78</b>	<b>612</b>	<b>246</b>	<b>0</b>	<b>--</b>	<b>--</b>	<b>631</b>	<b>963</b>	<b>128</b>	<b>--</b>
<b>All Units</b>	<b>2,361</b>	<b>11</b>	<b>606</b>	<b>2,578</b>	<b>6,205</b>	<b>11,123</b>	<b>3,106</b>	<b>0</b>	<b>119</b>	<b>536</b>	<b>16,815</b>	<b>21,069</b>	<b>8,247</b>	<b>35</b>

(table 20 continued on next page)

Columns and rows may not sum due to rounding

(Table 20 continued)

Forest Inventory Unit and County	Yellow birch	Hickory	Hackberry	Beech	Ash	Honeylocust	Butternut	Black walnut	Cottonwood	Balsam poplar	Aspen	Black cherry	Other/unknown cherry	Red oak group
<b>Southeastern</b>														
Fond Du Lac	0	4	--	0	12	--	--	--	0	--	3	5	--	19
Green	--	8	--	--	16	--	--	13	0	2	--	12	--	35
Green Lake	0	0	--	0	0	0	6	--	--	--	3	0	0	11
Jefferson	0	5	0	--	6	--	--	4	4	2	40	5	--	152
Kenosha	--	0	--	--	1	--	--	2	--	--	37	5	--	3
Kewaunee	1	0	--	13	25	--	--	--	2	0	15	1	--	5
Manitowoc	1	3	--	14	17	--	1	6	5	5	6	3	--	71
Milwaukee	0	--	--	0	0	--	--	0	--	--	--	--	--	0
Outagamie	3	--	--	1	14	0	--	--	--	--	21	0	2	3
Ozaukee	0	1	--	1	2	--	--	0	0	2	3	1	--	7
Racine	--	0	--	--	--	--	--	0	--	--	--	--	--	0
Rock	0	3	--	--	3	--	--	5	--	2	0	9	--	18
Sheboygan	0	7	--	4	24	--	--	0	0	--	10	10	--	59
Walworth	0	0	--	0	1	--	--	0	0	--	--	3	--	4
Washington	0	2	--	3	4	--	0	0	--	--	1	2	--	40
Waukesha	0	0	--	0	1	--	--	1	--	--	1	1	--	4
Winnebago	0	--	--	0	1	0	--	--	--	--	6	--	0	9
<b>Total</b>	<b>16</b>	<b>58</b>	<b>2</b>	<b>55</b>	<b>200</b>	<b>0</b>	<b>11</b>	<b>40</b>	<b>24</b>	<b>21</b>	<b>436</b>	<b>113</b>	<b>2</b>	<b>699</b>
<b>Southwestern</b>														
Buffalo	4	15	1	--	12	--	0	0	8	0	114	15	--	630
Crawford	--	25	4	--	36	--	--	60	1	--	26	19	--	372
Dunn	3	4	1	--	34	--	0	--	2	0	187	9	0	390
Grant	--	30	2	--	27	--	--	50	26	--	30	14	--	438
Iowa	--	27	2	0	20	--	--	62	0	3	23	23	--	354
La Crosse	4	8	2	--	9	--	--	2	1	--	31	9	--	209
Lafayette	--	1	--	--	3	--	--	2	--	--	--	7	--	13
Pepin	1	8	--	--	9	--	0	--	2	0	22	7	--	176
Pierce	0	5	--	0	16	--	0	--	8	2	35	1	0	164
Richland	0	30	1	--	54	--	--	30	0	--	95	18	--	623
Sauk	0	34	0	0	55	--	9	12	0	--	188	26	--	779
St. Croix	2	1	--	--	10	--	--	--	0	0	92	0	--	93
Trempealeau	1	8	0	--	10	--	0	4	4	--	102	16	--	426
Vernon	0	21	1	1	35	--	--	15	5	--	48	12	--	318
<b>Total</b>	<b>15</b>	<b>218</b>	<b>14</b>	<b>1</b>	<b>330</b>	<b>--</b>	<b>10</b>	<b>238</b>	<b>58</b>	<b>6</b>	<b>991</b>	<b>177</b>	<b>0</b>	<b>4,988</b>
<b>All Units</b>	<b>1,610</b>	<b>544</b>	<b>18</b>	<b>683</b>	<b>4,310</b>	<b>22</b>	<b>37</b>	<b>290</b>	<b>88</b>	<b>180</b>	<b>40,077</b>	<b>607</b>	<b>1,331</b>	<b>17,786</b>

(table 20 continued on next page)

Columns and rows may not sum due to rounding

(Table 20 continued)

Forest Inventory Unit and County	White oak group	Black locust	Willow	Basswood	Elm	Other/unknown hardwoods	All Species
<b>Southeastern</b>							
Fond Du Lac	12	--	--	11	7	--	175
Green	39	--	--	8	9	--	180
Green Lake	1	--	--	2	5	0	107
Jefferson	22	--	1	8	2	0	537
Kenosha	2	--	--	1	0	--	65
Kewaunee	1	--	0	6	1	--	289
Manitowoc	32	--	--	17	3	--	479
Milwaukee	0	--	--	--	0	--	1
Oulagamie	2	--	1	2	1	2	194
Ozaukee	7	--	--	1	1	--	65
Racine	--	--	1	--	--	--	1
Rock	15	--	--	2	2	--	88
Sheboygan	13	--	--	17	8	--	318
Walworth	4	--	--	1	1	--	19
Washington	1	--	0	4	2	--	109
Waukesha	3	--	0	0	1	--	52
Winnebago	2	--	--	0	0	0	53
<b>Total</b>	<b>316</b>	<b>0</b>	<b>5</b>	<b>158</b>	<b>72</b>	<b>2</b>	<b>4,435</b>
<b>Southwestern</b>							
Buffalo	175	--	0	46	7	--	1,180
Crawford	167	--	--	59	22	--	944
Dunn	82	--	--	50	6	34	1,284
Grant	198	--	5	68	19	--	1,015
Iowa	185	--	--	37	16	--	886
La Crosse	53	--	--	12	8	--	474
Lafayette	19	--	--	3	1	--	64
Pepin	26	--	--	18	1	5	363
Pierce	48	--	--	37	5	--	439
Richland	174	--	--	95	20	--	1,422
Sauk	216	0	--	64	21	--	1,810
St. Croix	22	--	--	39	2	--	487
Trempealeau	77	--	1	21	8	--	859
Vernon	111	--	1	41	18	--	891
<b>Total</b>	<b>1,555</b>	<b>0</b>	<b>7</b>	<b>590</b>	<b>154</b>	<b>39</b>	<b>12,119</b>
<b>All Units</b>	<b>4,326</b>	<b>0</b>	<b>12</b>	<b>5,228</b>	<b>914</b>	<b>836</b>	<b>151,712</b>

Columns and rows may not sum due to rounding

Table 21.—Residue produced at primary wood-using mills by type of material, type of use, and Forest Inventory Unit, Wisconsin, 2003

Forest Inventory Unit and disposition	Residue type												
	Coarse <sup>1</sup>			Fine <sup>2</sup>			Bark			All material			
	Softwood	Hardwood		Softwood	Hardwood		Softwood	Hardwood		Softwood	Hardwood		
All Units													
Fiber products <sup>3</sup>	120.16	429.03		0.51	24.67	--	--	0.10				120.67	453.80
Charcoal	0.34	4.27	--	--	22.99	--	--	--				0.34	27.27
Industrial fuel - mill	3.75	18.43		126.51	182.48		195.31	391.59				325.57	592.50
Industrial fuel - sold	0.90	41.95		8.52	67.80		30.66	210.14				40.08	319.89
Domestic fuel	6.94	51.91		0.15	2.59		0.90	51.65				7.99	106.14
Miscellaneous <sup>4</sup>	2.19	87.99		21.55	162.29		17.97	174.67				41.71	424.94
Not used	0.06	24.52		2.29	24.72		11.00	28.66				13.35	77.90
Total	134.35	658.09		159.53	487.54		255.85	856.81				549.72	2,002.44
Central													
Fiber products <sup>3</sup>	8.97	89.18		--	6.06		--	0.03				8.97	95.28
Charcoal	--	3.82		--	2.68		--	--				--	6.50
Industrial fuel - mill	2.03	--		63.48	86.29		140.57	221.48				206.08	307.77
Industrial fuel - sold	0.25	8.58		7.01	18.17		15.67	79.45				22.93	106.20
Domestic fuel	1.62	19.93		0.00	0.01		0.00	49.39				1.62	69.33
Miscellaneous <sup>4</sup>	0.88	0.46		7.44	30.16		7.19	45.63				15.51	76.25
Not used	--	0.03		2.10	3.59		4.58	13.75				6.68	17.37
Total	13.75	121.99		80.03	146.96		168.02	409.74				261.79	678.69
Northeastern													
Fiber products <sup>3</sup>	28.97	153.69		0.09	10.86		--	--				29.06	164.55
Charcoal	--	--		--	13.42		--	--				--	13.42
Industrial fuel - mill	1.44	4.74		4.91	51.80		9.37	102.80				15.72	159.34
Industrial fuel - sold	0.45	3.76		0.18	2.79		0.33	30.17				0.96	36.71
Domestic fuel	0.47	4.61		0.04	0.92		0.03	0.97				0.55	6.50
Miscellaneous <sup>4</sup>	0.51	19.54		7.15	44.78		2.49	39.88				10.15	104.20
Not used	0.01	0.01		0.01	0.61		0.03	4.84				0.06	5.45
Total	31.85	186.34		12.38	125.18		12.25	178.65				56.48	490.17

(table 21 continued on next page)

(Table 21 continued)

Forest Inventory Unit and disposition	Coarse <sup>1</sup>		Residue type				All material	
	Softwood	Hardwood	Fine <sup>2</sup>		Bark		Softwood	Hardwood
			Softwood	Hardwood	Softwood	Hardwood		
<b>Northwestern</b>								
Fiber products <sup>3</sup>	77.37	72.64	--	3.91	--	0.00	77.37	76.55
Charcoal	--	--	--	2.79	--	--	--	2.79
Industrial fuel - mill	0.10	10.12	43.84	24.80	11.21	58.10	55.14	93.02
Industrial fuel - sold	0.05	26.00	1.33	41.96	14.64	95.34	16.02	163.30
Domestic fuel	4.54	10.42	0.00	1.22	0.84	1.26	5.38	12.90
Miscellaneous <sup>4</sup>	0.14	2.10	4.09	26.12	4.69	9.89	8.93	38.10
Not used	--	23.23	0.09	13.67	6.37	9.98	6.46	46.88
<b>Total</b>	<b>82.20</b>	<b>144.50</b>	<b>49.36</b>	<b>114.47</b>	<b>37.74</b>	<b>174.57</b>	<b>169.30</b>	<b>433.55</b>
<b>Southeastern</b>								
Fiber products <sup>3</sup>	0.94	35.46	0.42	--	--	--	1.36	35.46
Charcoal	--	--	--	4.11	--	--	--	4.11
Industrial fuel - mill	--	--	14.28	3.44	34.17	8.84	48.45	12.28
Industrial fuel - sold	0.10	0.24	--	0.97	0.01	0.01	0.11	1.22
Domestic fuel	0.31	3.16	0.10	0.17	0.03	0.01	0.44	3.35
Miscellaneous <sup>4</sup>	0.24	13.92	0.39	18.87	0.66	21.24	1.29	54.04
Not used	0.05	1.26	0.10	3.71	0.01	0.05	0.15	5.02
<b>Total</b>	<b>1.63</b>	<b>54.05</b>	<b>15.29</b>	<b>31.28</b>	<b>34.89</b>	<b>30.15</b>	<b>51.81</b>	<b>115.47</b>
<b>Southwestern</b>								
Fiber products <sup>3</sup>	3.91	78.07	--	3.84	--	0.06	3.91	81.96
Charcoal	0.34	0.46	--	--	--	--	0.34	0.46
Industrial fuel - mill	0.17	3.57	--	16.15	--	0.37	0.17	20.09
Industrial fuel - sold	0.06	3.36	--	3.92	0.00	5.18	0.06	12.46
Domestic fuel	0.01	13.79	0.00	0.26	--	0.02	0.01	14.07
Miscellaneous <sup>4</sup>	0.42	51.96	2.48	42.36	2.94	58.05	5.84	152.34
Not used	--	--	--	3.14	--	0.04	--	3.18
<b>Total</b>	<b>4.91</b>	<b>151.21</b>	<b>2.48</b>	<b>69.65</b>	<b>2.94</b>	<b>63.70</b>	<b>10.33</b>	<b>284.55</b>

0 = Less than 5 green tons.

<sup>1</sup> Suitable for chipping such as slabs, edgings, veneer cores, etc.<sup>2</sup> Not suitable for chipping such as sawdust, veneer clippings etc.<sup>3</sup> Pulpwood, particleboard, oriented strandboard, fiberboard, roofing felt, etc.<sup>4</sup> Livestock bedding, mulch, small dimension, specialty items, etc.

Table may not sum due to rounding.



Reading, William H., IV; Whipple, James W. 2007. **Wisconsin Timber Industry: An Assessment of Timber Product Output and Use in 2003**. Resour. Bull. NRS-19. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 93 p.

Discusses recent forest industry trends in Wisconsin; reports production and receipts of industrial roundwood by product, species, and county in 2003. Also reports on logging residue, on wood and bark residue generated at primary wood-using mills, and on disposition of mill residues.

KEY WORDS: industrial roundwood, production residues, saw logs, veneer logs, Wisconsin

---

---

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternate means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, DC 20250-9410, or call (800)795-3272 (voice) or (202)720-6382 (TDD). USDA is an equal opportunity provider and employer.

---

---



Printed on Recycled Paper



Northern  
RESEARCH STATION

USDA Forest Service  
[www.nrs.fs.fed.us](http://www.nrs.fs.fed.us)

*Capitalizing on the strengths of existing science capacity in the Northeast and Midwest to attain a more integrated, cohesive, landscape-scale research program*