



United States
Department of
Agriculture

Forest
Service

North Central
Research Station

Resource Bulletin
NC-250



Missouri Timber Industry—An Assessment of Timber Product Output and Use, 2003

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2005
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Foreword

In this bulletin we discuss recent Missouri forest industry trends and report the results of a detailed study of the forest industry, industrial roundwood production, and associated primary mill wood and bark residue in Missouri in 2003. Such detailed information is necessary for intelligent planning and decisionmaking in wood procurement, forest resources management, and forest industry development. Likewise, researchers need current forest industry and industrial roundwood information for planning projects.

Special thanks are given to the primary wood-using firms for supplying information for this study and to the Missouri Department of Conservation and Missouri Consulting Foresters for canvassing the respondents. Their cooperation is greatly appreciated.

All board foot data in this report have been converted to International 1/4-inch scale by applying a multiplier of 1.08 to all roundwood volumes reported in Scribner Decimal C scale by sawmills and handle mills, a multiplier of 1.04 to all roundwood volumes reported in Scribner Decimal C scale by veneer and cooperage mills, a multiplier of 1.38 to all roundwood volume reported in Doyle scale by sawmills and handle mills, and a multiplier of 1.14 to all roundwood volume reported in Doyle scale by veneer and cooperage mills.

When new surveys are completed, errors and omissions from previous surveys are corrected. As a result of our ongoing efforts to improve the survey's efficiency and reliability, changes may have been made to the previous survey's data. All comparisons and analysis in this report are based on the reprocessed data from earlier surveys, which may not match earlier published data.

The last published report from a detailed study of all industrial roundwood output in Missouri was for 2000. Most comparisons in this report are with the 2000 study results. Rows and columns may not sum due to rounding, but data in each table cell are accurately displayed.



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HIGHLIGHTS

PRIMARY TIMBER INDUSTRY—INDUSTRIAL ROUNDWOOD

- In 2003, Missouri's primary wood-using industry was comprised of 371 sawmills, 8 cooperage mills, 8 post mills, 4 charcoal plants, 5 handle mills, 1 veneer mill, 1 pulp mill, and 6 mills producing other products (see table 1, fig. 1).
- The number of large and medium mills combined (mills with an annual lumber production of 1 million board feet or more) decreased by 12 mills, while the number of small mills decreased by 20 mills from 2000 to 2003.
- In 2003, the primary wood-using mills in Missouri processed 126 million cubic feet of industrial roundwood, just 1 million cubic feet less than processed in 2000.
- Ninety-three percent of the industrial roundwood processed by the State's primary wood-using mills was cut from Missouri's forest lands. This figure has not changed since 2000. Illinois, Arkansas, and Kentucky were the largest suppliers of out-of-State roundwood in 2003, supplying another 3, 2, and 1 percent, respectively, of the industrial roundwood used by Missouri mills. The remaining industrial roundwood receipts came from California, Indiana, Iowa, Kansas, Nebraska, Ohio, Oklahoma, Pennsylvania, Tennessee, Texas, and Wisconsin (table 2).
- Less than 6 percent of the industrial roundwood processed by Missouri mills consisted of softwood species.
- The production of industrial roundwood decreased slightly from 129 million cubic feet in 2000 to 128 million cubic feet in 2003 (table 3, fig. 2).
- The production of saw logs accounted for 87 percent of the total industrial roundwood produced in 2003. Pulpwood and cooperage products were the next largest consumers of Missouri's industrial roundwood production with almost 6 percent and 4 percent, respectively, of the total production (table 4).
- In 2003, the Eastern Ozark Unit was the leading producer of industrial roundwood in Missouri, with 55.5 million cubic feet, or 43 percent of the total industrial roundwood produced. The Prairie Unit was second with 26 million cubic feet (20 percent of the total), followed by the Southwestern Ozark Unit with 21 million cubic feet (17 percent of the total), the Riverborder Unit with 14

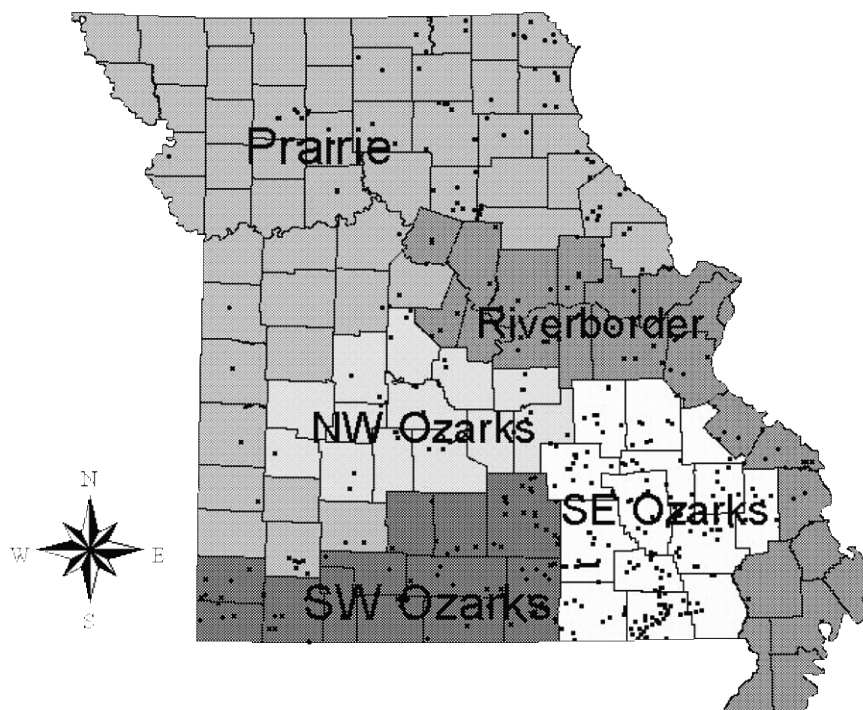
About the Authors:

Thomas B. Treiman, Natural Resource Economist, received a Ph.D. in natural resource economics from the University of Wisconsin-Madison and now works at the Missouri Department of Conservation's Conservation Research Center, Columbia, MO.

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Figure 1.—Location of Missouri primary wood processing mills in 2003.



million cubic feet (11 percent of the total), and the Northwestern Ozark Unit with 11 million cubic feet (9 percent of the total) (fig. 3).

- The Prairie Unit and the Southwestern Ozark Unit reported increases of 5 percent and 6 percent, respectively, in the production of industrial roundwood between 2000 and 2003. The Eastern Ozark Unit decreased by 3 percent, while the Riverborder Unit showed a decrease of 8 percent. The Northwestern Ozark Unit remained about the same as in 2000.

- The red oak group was the most harvested species group in 2003, accounting for 50 percent of the total industrial roundwood volume. White oaks at almost 27 percent, hickories at 4 percent, and shortleaf pine and cottonwood at almost 4 percent each were the other major species harvested (table 5).

- Wood processing mills in Missouri received over 91 percent of the industrial roundwood that was harvested from Missouri's forests in 2003. Almost 3 percent of the industrial roundwood production went to mills in Arkansas, and another 2 percent went to mills in Kentucky. The remainder of the exported industrial roundwood went to mills in Illinois, Indiana, Iowa, Kansas, Louisiana, Nebraska, Oklahoma, Tennessee, and Wisconsin, and to other countries (table 6).

SAW LOGS

- Missouri's sawmills processed 667 million board feet of saw logs in 2003, a decrease of 1 percent from 2000. Saw logs harvested from Missouri's forests supplied 93 percent of the raw material processed by the State's sawmills. Saw logs from Illinois and Arkansas combined accounted for 71 percent of the imported saw log volume in 2003 (table 7).

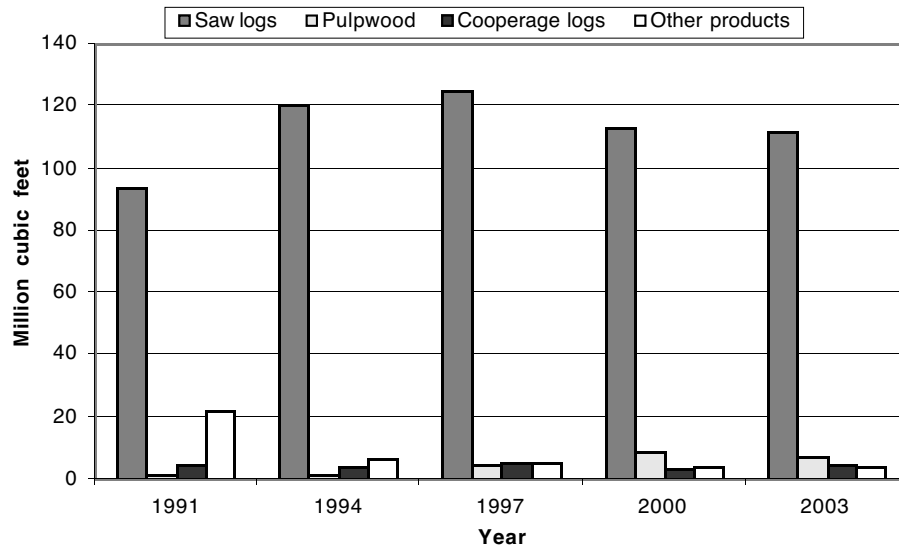


Figure 2.—Industrial roundwood production by product, Missouri, 1991 to 2003.

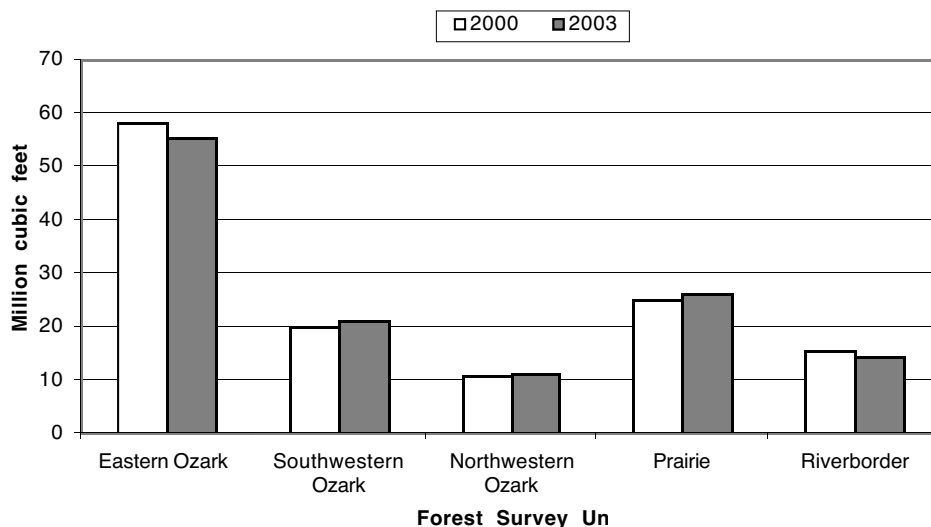
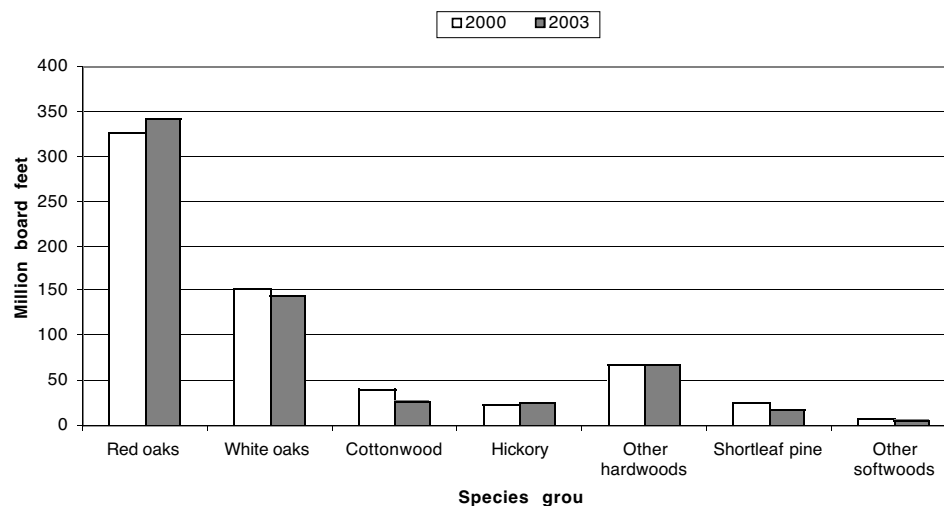


Figure 3.—Industrial roundwood production by Forest Survey Unit, Missouri, 2000 and 2003.

- Saw log production in Missouri decreased from 643 million board feet in 2000 to 632 million board feet in 2003, a decrease of about 2 percent (table 8).
- The Eastern Ozark Unit was the leading producer of saw logs in 2003 with 271 million board feet, or 43 percent of the total saw log production. The Prairie Unit produced 140 million board feet, or 22 percent of the saw logs; the Southwestern Ozark Unit produced almost 102 million board feet, or 16 percent of the saw logs; the Riverborder Unit produced 61 million board feet, or 10 percent; and the Northwestern Ozark Unit produced 58 million board feet, or 9 percent of the saw logs (table 8).
- Red oaks accounted for over half the saw log volume (342 million board feet) harvested from Missouri's forests in 2003. Other important species groups were white oaks at 145 million board feet, cottonwood at 28 million board feet, hickory at 25 million board feet, and black walnut at 19 million board feet (fig. 4).



Figure 4.—Saw log production by species group, Missouri, 2000 and 2003.



- Sawmills in Missouri processed 98 percent of the saw logs produced in Missouri in 2003. Other states that reported receiving saw logs from Missouri in 2003 were Arkansas, Illinois, Iowa, Kansas, Kentucky, Nebraska, and Oklahoma (table 9).

cords, and the Prairie Unit supplied another 5 thousand cords. There was no pulpwood harvested from the Northwestern Ozark Unit in 2003 (table 10).

COOPERAGE

PULPWOOD

- Even though there was only one pulp mill in Missouri, the export of wood chips for out-of-State pulp mills made pulpwood production the second largest consumer of industrial roundwood in Missouri in 2003, accounting for 91 thousand standard cords.
- Only hardwoods were harvested from Missouri for pulpwood production in 2003. Red and white oaks combined accounted for 64 thousand cords, or over 71 percent of the total volume of pulpwood from roundwood produced.
- The Eastern Ozark Unit supplied 68 percent, or 61 thousand cords, of the pulpwood produced. The second largest source of industrial roundwood for pulpwood production in Missouri was the Southwestern Ozark Unit with 18 thousand cords. The Riverborder Unit supplied 6 thousand

- Cooperage logs and bolt production of white oak was the third largest consumer of Missouri's industrial roundwood production in 2003.
- Cooperage logs and bolt production in Missouri increased by over 50 percent, increasing from 20 million board feet in 2000 to 30 million board feet in 2003 (table 11).
- The Riverborder Unit was the largest producer of cooperage logs and bolts in 2003, with almost 12 million board feet, or 39 percent of the total production. The Eastern Ozark Unit supplied nearly 8 million board feet; the Prairie Unit and the Southwestern Ozark Unit supplied 5 million board feet and 4 million board feet, respectively; and the Northwestern Ozark Unit supplied nearly 2 million board feet.



OTHER PRODUCTS

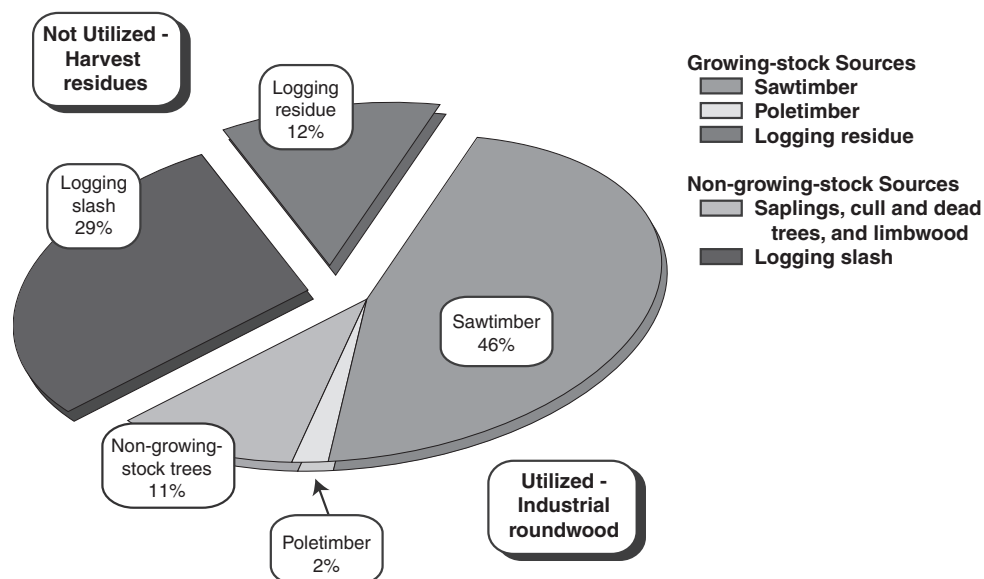
- Veneer log production increased by 82 percent, rising from 3.2 million board feet in 2000 to 5.9 million board feet in 2003. In 2003, the Prairie Unit and the River-border Unit combined supplied 92 percent of the veneer log production for the State (table 12).
- Charcoal production from industrial roundwood totaled almost 9 thousand cords in 2003, down from 12 thousand cords in 2000. The Eastern Ozark Unit and the Southwestern Ozark Unit combined accounted for 99 percent of the total roundwood production for charcoal in 2003 (table 13).
- Handle bolt production rose to 1,258 thousand board feet in 2003, up from 552 thousand board feet in 2000, an increase of over 100 percent. Seventy percent of the industrial roundwood harvested for handles in Missouri came from the Eastern Ozark Unit in 2003 (table 14).
- Missouri produced just under 1.5 million posts in 2003, an increase of 43 percent since 2000 (table 15).
- Other industrial roundwood products harvested from Missouri's forests in 2003 include excelsior and shavings bolts, poles, cabin logs, and mine timbers.
- Residential fuelwood is a major non-industrial product in Missouri. The results of a residential fuelwood study conducted in 1987 are available in "Residential Fuelwood Production and Sources from Roundwood in Missouri, 1987," RB-NC-132, by Ronald L. Hackett, Daniel J. Witter, and W. Brad Smith. This report is available online at <http://www.ncrs.fs.fed.us/pubs/>.

TIMBER REMOVALS

- In the production of industrial roundwood in 2003, 130 million cubic feet of Missouri's growing-stock inventory was removed from timberland. About 81 percent of the growing-stock removed was used for products. Another 86 million cubic feet of non-growing-stock wood material was removed from Missouri's timberland, but only 27 percent of this material was used for industrial roundwood production (table 16).
- Almost 60 percent of the total wood material harvested from Missouri's forests in 2003 was used for the production of primary wood products. The remainder was left on the ground as harvest residues (fig. 5).
- Cull trees accounted for 67 percent of the non-growing-stock sources of roundwood used for the production of primary wood products. The remaining non-growing-stock volume came from limbwood (13 percent), nonforest trees (11 percent), dead trees (8 percent), and saplings (1 percent).
- Forty-four percent of the growing-stock removals came from the Eastern Ozark Unit, 20 percent from the Prairie Unit, 16 percent from the Southwestern Ozark Unit, 11 percent from the Riverborder Unit, and 9 percent from the Northwestern Ozark Unit (table 17).
- Industrial roundwood harvesting removed 499 million board feet of wood from the sawtimber portion of Missouri's growing-stock inventory in 2003 (table 18).



Figure 5.—*Distribution of timber removals for industrial roundwood by source of material, Missouri, 2003.*



HARVEST RESIDUES

- In 2003, harvesting of industrial roundwood products left 88 million cubic feet of harvest residues on the ground in Missouri (table 19)—a decrease of about 2 percent from 2000.
- The red oak and white oak species groups accounted for 75 percent of the volume of harvest residues generated in Missouri in 2003.

PRIMARY MILL RESIDUES

- In converting industrial roundwood into products such as lumber, wood pulp, and veneer, Missouri's primary wood-using industry generated 1.9 million green tons of wood and bark residues in 2003 (table 20).
- Fifty percent of the mill residues produced in 2003 were in the form of coarse wood residues, such as slabs and edgings. Fine residues made up another 29 percent of the

mill residues produced, and bark residue accounted for the remaining 21 percent (fig. 6).

- Charcoal plants consumed 33 percent of the total residues produced by Missouri's primary wood-using mills in 2003. Miscellaneous uses such as livestock bedding and mulch used another 29 percent of the mill residues generated (fig. 7).
- Thirty-five percent of the coarse and fine wood residues were used in the production of charcoal in 2003. Another 23 percent of these wood residues were sent to pulp and particleboard plants.
- Sixty percent of the bark residue was used for miscellaneous uses such as mulch or livestock bedding.
- There were 133 thousand green tons, or 7 percent of mill residues, that went unused in 2003. In 2000, 12 percent of the mill residues generated by Missouri's industrial roundwood processors were not used.

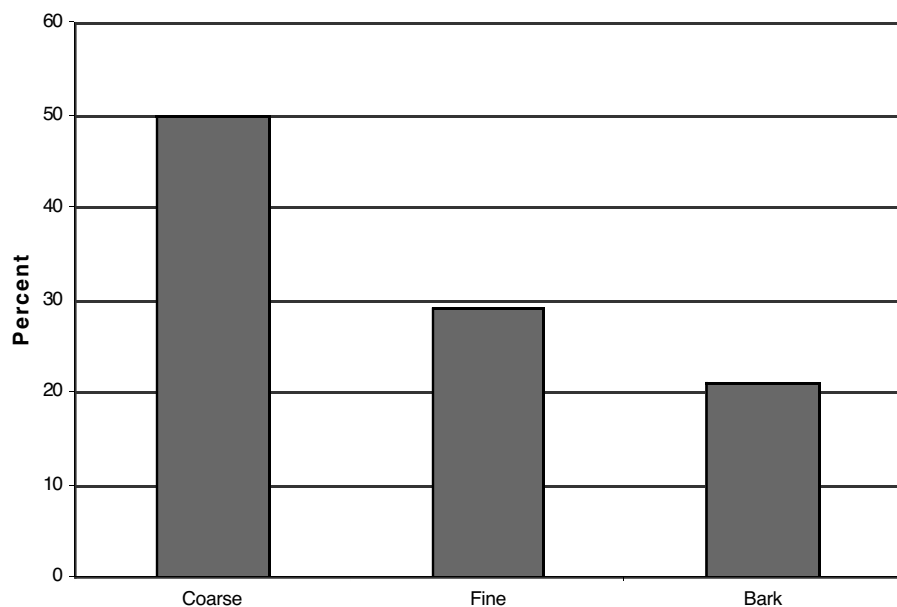


Figure 6.—*Distribution of residues generated by primary wood-using mills by type of residue, Missouri, 2003.*

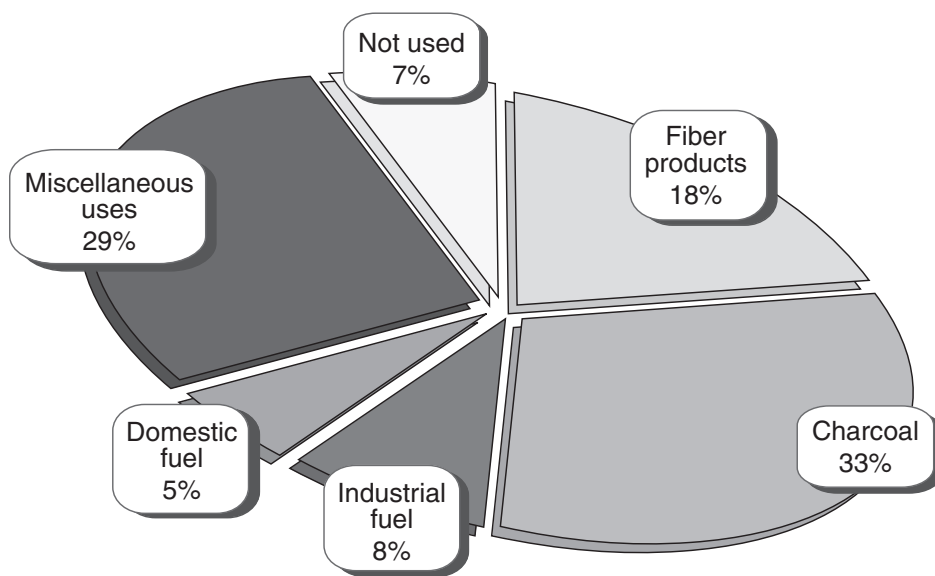


Figure 7.—*Distribution of residues generated by primary wood-using mills by method of disposal, Missouri, 2003.*



APPENDIX

STUDY METHODS

This study was a cooperative effort of the Missouri Department of Conservation (MDC) and the North Central Research Station (NCRS). Using questionnaires designed and supplied by MDC and designed to determine the size and composition of the State's primary wood-using industry, its use of roundwood, and its generation and disposition of wood residues, consulting foresters from Missouri and MDC personnel visited all primary wood-using mills within the State. Followup visits were made as needed in an effort to achieve a 100-percent response. Completed questionnaires were sent to MDC for data entry and then electronically forwarded to NCRS for editing and processing.

As part of data editing and processing, 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 NCRS. Finalized data on Missouri's industrial roundwood receipts were loaded into a regional timber removals database where they were supplemented with data on out-of-State uses of Missouri roundwood to provide a complete assessment of Missouri's timber product output.

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 equivalent).

Bolt

A short log no more than 8 feet long, to be sawn for lumber, peeled or sliced for veneer, shaved for excelsior, or converted into shingles, cooperage stock, dimension stock, blocks, blanks, etc.

Central stem

The portion of a tree between a 1-foot stump and the minimum 4.0-inch top diameter outside bark, or 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, Osage-orange, and redbud.)

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 by forest trees of any size, or formerly having had such tree cover, and not currently developed for nonforest 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, streams or other bodies of water, or clearings in forest areas shall be classed as forest if less than 120 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 meets specified standards of size, quality, and merchantability. (Note: Excludes rough, rotten, and dead trees.)

Growing-stock volume

Net volume of growing-stock trees 5.0 inches d.b.h. and over, 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 fuelwood

A roundwood product, with or without bark, used to generate energy at manufacturing facilities, schools, correctional institutions, or electric generating plants.

Industrial roundwood exports

The quantity of industrial roundwood

harvested in a geographical area and transported to other geographical areas.

Industrial roundwood imports

The quantity of industrial roundwood received from other geographical areas.

Industrial roundwood products

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

Industrial roundwood production

The quantity of industrial roundwood harvested in a geographic area plus all industrial roundwood exported to other geographical areas.

Industrial roundwood receipts

The quantity of industrial roundwood received by commercial mills in a geographic area plus all industrial roundwood imported from other geographical areas.

Industrial roundwood retained

The quantity of industrial roundwood harvested from and processed by commercial mills within the same geographical area.

International 1/4-inch rule

A log rule or formula for estimating the board foot volume of logs, allowing 6½-inch of taper for each 4-foot length. The rule appears in a number of forms



that allow for kerf. In this form, $\frac{1}{4}$ -inch of kerf is assumed. 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

The net volume of unused portions of the merchantable central stem of growing-stock trees cut or killed by logging.

Logging slash

The net volume of unused portions of the unmerchantable (non-growing-stock) sections of trees cut or killed by logging.

Merchantable sections

Refers to 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, active Christmas tree plantations, orchards, nurseries, 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, unimproved 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 such as lumber, veneer, pulp, etc.

Primary wood-using mill residue

Wood materials (coarse and fine) and bark generated at manufacturing plants that process industrial roundwood into principal products. These residues include wood products (byproducts) obtained incidental to production of principal products and wood materials not utilized for some product.

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 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 for softwoods and 9.0 inches diameter outside bark for hardwoods.

Sawtimber removals

As used in table 16, sawtimber removals refers to the net volume in the merchantable central stem of sawtimber trees harvested for industrial roundwood products. (Note: Includes the saw log and upper stem portions of sawtimber trees.) When referring to the sawtimber volume removed from the timberland inventory as in table 18, sawtimber removals refers to the net volume in the saw log portion of sawtimber trees harvested for roundwood products or left on the ground as harvest residues, 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.

Sawtimber volume

Net volume in the saw log portion of sawtimber trees.

Softwoods

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

Timber product output

The volume of roundwood products produced from an area's forests.

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.

Tree

A woody plant usually having one or more perennial stems, a more or less definitely formed crown of foliage, and a height of at least 12 feet 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.

COMMON AND SCIENTIFIC NAMES OF TREE SPECIES MENTIONED IN THIS REPORT

SOFTWOODS

Eastern redcedar	<i>Juniperus virginiana</i>
Shortleaf pine	<i>Pinus echinata</i>
Eastern white pine	<i>Pinus strobus</i>
Other pine	
Scotch pine	<i>Pinus sylvestris</i>
Virginia pine	<i>Pinus virginiana</i>
Cypress	<i>Taxodium distichum</i>

HARDWOODS

Hard maple	
Black maple	<i>Acer nigrum</i>
Sugar maple.....	<i>Acer saccharum</i>
Soft maple	
Boxelder	<i>Acer negundo</i>
Red maple	<i>Acer rubrum</i>
Silver maple	<i>Acer saccharinum</i>
Ohio buckeye	<i>Aesculus glabra</i>
River birch	<i>Betula nigra</i>
Hickory	
Water hickory.....	<i>Carya aquatica</i>
Bitternut hickory	<i>Carya cordiformis</i>
Pignut hickory	<i>Carya glabra</i>
Shellbark hickory	<i>Carya laciniata</i>
Shagbark hickory	<i>Carya ovata</i>
Black hickory	<i>Carya texana</i>
Mockernut hickory	<i>Carya tomentosa</i>
Pecan	<i>Carya illinoensis</i>
Northern catalpa	<i>Catalpa speciosa</i>
Sugarberry	<i>Celtis laevigata</i>
Hackberry	<i>Celtis occidentalis</i>
Common persimmon.....	<i>Diospyros virginiana</i>
American beech	<i>Fagus grandifolia</i>
Ash	
White ash	<i>Fraxinus americana</i>
Black ash	<i>Fraxinus nigra</i>
Green ash	<i>Fraxinus pennsylvanica</i>
Blue ash	<i>Fraxinus quadrangulata</i>
Honeylocust.....	<i>Gleditsia triacanthos</i>
Kentucky coffeetree	<i>Gymnocladus dioica</i>



Butternut	<i>Juglans cinerea</i>
Black walnut	<i>Juglans nigra</i>
Sweetgum	<i>Liquidambar styraciflua</i>
Yellow-poplar	<i>Liriodendron tulipifera</i>
Osage-orange	<i>Maclura pomifera</i>
Cucumbertree	<i>Magnolia acuminata</i>
Red mulberry	<i>Morus rubra</i>
Tupelo	
Swamp tupelo (blackgum)	<i>Nyssa sylvatica</i> var. <i>biflora</i>
Black tupelo	<i>Nyssa sylvatica</i> var. <i>sylvatica</i>
American sycamore	<i>Platanus occidentalis</i>
Eastern cottonwood	<i>Populus deltoides</i>
Black cherry	<i>Prunus serotina</i>
Red oak group	
Scarlet oak	<i>Quercus coccinea</i>
Northern pin oak	<i>Quercus ellipsoidalis</i>
Southern red oak	<i>Quercus falcata</i>
Cherrybark oak	<i>Quercus falcata</i> var. <i>pagodifolia</i>
Shingle oak	<i>Quercus imbricaria</i>
Blackjack oak	<i>Quercus marilandica</i>
Water oak	<i>Quercus nigra</i>
Pin oak	<i>Quercus palustris</i>
Willow oak	<i>Quercus phellos</i>
Northern red oak	<i>Quercus rubra</i>
Shumard oak	<i>Quercus shumardii</i> var. <i>shumardii</i>
Black oak	<i>Quercus velutina</i>
White oak group	
White oak	<i>Quercus alba</i>
Swamp white oak	<i>Quercus bicolor</i>
Overcup oak	<i>Quercus lyrata</i>
Bur oak	<i>Quercus macrocarpa</i>
Swamp chestnut oak	<i>Quercus michauxii</i>
Chinkapin oak	<i>Quercus muehlenbergii</i>
Post oak	<i>Quercus stellata</i>
Black locust	<i>Robinia pseudoacacia</i>
Black willow	<i>Salix nigra</i>
Sassafras	<i>Sassafras albidum</i>
American basswood	<i>Tilia americana</i>
Elm	
Winged elm	<i>Ulmus alata</i>
American elm	<i>Ulmus americana</i>
Slippery elm	<i>Ulmus rubra</i>
Rock elm	<i>Ulmus thomasii</i>



TABLE TITLES

Table 1.—*Number of active primary wood-using mills by survey year, Missouri*

Table 2.—*Industrial roundwood receipts by species group and State of origin, Missouri, 2003*

Table 3.—*Industrial roundwood production by product, softwoods and hardwoods, and survey year, Missouri*

Table 4.—*Industrial roundwood production by Forest Survey Unit, species group, and product, Missouri, 2003*

Table 5.—*Industrial roundwood production by Forest Survey Unit, county, and species group, Missouri, 2003*

Table 6.—*Industrial roundwood production by Forest Survey Unit, species group, and State of destination, Missouri, 2003*

Table 7.—*Saw log receipts by Forest Survey Unit, species group, and State of origin, Missouri, 2003*

Table 8.—*Saw log production by Forest Survey Unit, county, and species group, Missouri, 2003*

Table 9.—*Saw log production by Forest Survey Unit, species group, and State of destination, Missouri, 2003*

Table 10.—*Pulpwood production by species group and Forest Survey Unit, Missouri, 2003*

Table 11.—*White oak cooperage production by Forest Survey Unit, Missouri, 2000 and 2003*

Table 12.—*Veneer log production by species group and Forest Survey Unit, Missouri, 2003*

Table 13.—*Charcoal production by species group and Forest Survey Unit, Missouri, 2003*

Table 14.—*Handle bolt production by species group and Forest Survey Unit, Missouri, 2003*

Table 15.—*Post production by species group and Forest Survey Unit, Missouri, 2003*

Table 16.—*Wood material harvested for industrial roundwood by species group and source of material, Missouri, 2003*

Table 17.—*Growing-stock removals from timberland for industrial roundwood by Forest Survey Unit, county, and species group, Missouri, 2003*

Table 18.—*Sawtimber removals from timberland for industrial roundwood by Forest Survey Unit, county, and species group, Missouri, 2003*

Table 19.—*Harvest residue generated by industrial roundwood harvesting by Forest Survey Unit, county, and species group, Missouri, 2003*

Table 20.—*Disposition of residues produced at primary wood-using mills by Forest Survey Unit, disposition, residue type, and softwoods and hardwoods, Missouri, 2003*



TABLES

Table 1. -- Number of active primary wood-using mills by survey year, Missouri

Kind of mill and mill size	Survey Year									
	1946	1958	1969	1980	1987	1991	1994	1997	2000	2003
Sawmills										
Large ¹	2	5	7	8	13	17	32	35	31	34
Medium ²	43	103	117	163	169	172	189	212	185	170
Small ³	2,548	882	425	315	228	206	191	170	187	167
Total	2,593	990	549	486	410	395	412	417	403	371
Cooperage mills										
Veneer mills	85	36	36	30	20	20	12	8	8	8
Pulp mills	6	3	4	4	5	4	1	1	1	1
Charcoal ⁴	--	2	2	2	1	1	1	1	1	1
Handle mills	3	60	52	36	15	14	14	10	6	4
Posts	19	12	7	10	6	6	5	6	4	5
Other products ⁵	6	14	22	28	23	17	9	9	8	8
	94	44	9	3	11	14	7	6	9	6
Total	213	171	132	113	81	76	49	41	37	33
All mills	2,806	1,161	681	599	491	471	461	458	440	404

¹ Annual lumber production in excess of 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.⁴ Includes only those charcoal operations using roundwood.⁵ Includes plants producing shavings, cabin logs, mine timbers, poles, etc.

Table 2. -- Industrial roundwood receipts by species group and State of origin, Missouri, 2003
(In thousand cubic feet)

Species group	Total	State of origin											Other States	
		Arkansas	Illinois	Indiana	Iowa	Kansas	Kentucky	Missouri	Nebraska	Ohio	Oklahoma	Tennessee		Wisconsin
Softwoods														
Eastern redcedar	2,586	270	--	--	--	--	--	2,316	--	--	--	--	--	--
Shortleaf pine	4,516	123	--	--	--	--	--	4,369	--	--	--	--	--	23
Cypress	26	8	--	--	--	--	--	17	--	--	--	--	--	--
Total	7,127	401	--	--	--	--	--	6,703	--	--	--	--	--	23
Hardwoods														
Soft maple	2,700	23	355	--	134	60	2	2,111	10	--	--	5	--	--
Hard maple	505	5	87	*	--	--	5	404	--	*	--	--	3	1
White birch	*	--	--	--	--	--	--	--	--	--	--	--	*	--
River birch	37	--	--	--	--	--	--	37	--	--	--	--	--	--
Hickory	4,457	74	126	--	8	--	66	4,180	--	--	3	--	--	--
Pecan	2	--	--	--	--	--	--	2	--	--	--	--	--	--
Hackberry	355	7	*	--	9	6	--	330	2	--	--	--	--	--
Ash	1,172	14	109	--	17	9	24	994	3	--	1	2	--	--
Honeylocust	23	--	--	--	--	--	--	23	--	--	--	--	--	--
Black walnut	3,935	2	128	4	191	244	--	3,302	19	--	45	--	--	--
Sweetgum	255	23	33	--	--	--	2	194	--	--	194	2	--	--
Yellow-poplar	466	--	284	--	--	--	--	182	--	--	--	--	--	--
Tupelo	224	21	--	--	--	--	--	203	--	--	--	--	--	--
Sycamore	3,000	123	82	--	12	--	1	2,774	--	--	7	2	--	--
Cottonwood	4,489	61	488	--	68	--	32	3,770	--	--	--	70	--	--
Black cherry	170	--	24	--	--	--	--	131	--	--	--	--	1	14
Red oaks	64,248	835	1,638	--	199	32	526	60,824	7	--	57	130	--	--
White oaks	32,689	383	834	15	156	27	373	30,776	4	11	21	85	*	3
Willow	2	--	--	--	--	--	--	2	--	--	--	--	--	--
Sassafras	2	--	--	--	--	--	--	2	--	--	--	--	--	--
Basswood	73	--	--	--	--	5	--	66	2	--	--	--	--	--
Elm	285	5	2	--	1	--	--	277	--	--	--	--	--	--
Other hardwoods	3	--	--	--	--	--	--	2	--	--	--	--	--	1
Total	119,094	1,576	4,190	20	795	383	1,030	110,587	46	12	135	296	4	19
State total	126,221	1,977	4,190	20	795	383	1,030	117,290	46	12	135	296	4	43

* Less than 500 cubic feet.

Table may not sum due to rounding.

Table 3. -- Industrial roundwood production by product, softwoods and hardwoods, and survey year, Missouri

(In million cubic feet)

Product	Survey year									
	1946	1958	1969	1980	1987	1991	1994	1997	2000	2003
SOFTWOODS										
Saw logs	8.3	4.1	3.3	5.5	7.8	7.5	9.3	9.5	6.5	4.7
Veneer logs	--	--	--	--	--	--	*	*	--	*
Pulpwood	0.1	0.1	--	--	--	--	*	0.1	--	0.2
Charcoal	--	--	--	--	--	--	*	*	--	--
Cooperage logs	--	--	--	--	--	--	--	--	--	--
Handle bolts	--	--	--	--	--	--	--	--	--	--
Poles	*	0.2	0.3	--	*	--	--	--	0.1	--
Posts	3.2	0.8	1.2	0.5	0.7	2.6	0.9	1.1	0.7	1.1
Mine timbers	*	*	--	--	--	--	--	--	--	--
Fuelwood ¹	0.2	0.2	0.1	--	--	*	--	--	--	--
Other products ²	*	*	0.3	0.2	0.6	1.7	1.8	1.1	1.5	0.9
Total	11.8	5.4	5.2	6.2	9.1	11.8	12.1	11.9	8.8	6.9
HARDWOODS										
Saw logs	71.1	43.7	63.0	66.2	81.9	86.2	110.7	115.5	106.6	107.0
Veneer logs	1.4	1.0	1.0	0.7	1.0	1.7	1.1	0.9	0.7	1.3
Pulpwood	0.5	0.7	1.9	1.9	2.2	1.2	1.5	4.2	8.5	7.0
Charcoal	0.6	3.2	16.7	6.2	2.7	4.6	2.4	1.2	0.8	0.6
Cooperage logs	14.9	4.5	8.9	4.7	2.0	4.8	4.2	5.1	3.3	4.9
Handle bolts	1.3	1.2	0.4	--	0.1	0.2	0.2	0.3	0.1	0.2
Poles	--	--	*	--	0.1	--	--	--	--	--
Posts	7.8	8.8	1.3	1.2	0.6	0.5	0.2	0.3	0.1	*
Mine timbers	3.4	0.5	0.1	--	--	--	--	*	--	*
Fuelwood ¹	59.2	61.7	24.4	--	--	--	--	--	--	--
Other products ²	2.2	5.7	0.7	0.4	0.2	10.4	0.3	0.2	0.2	0.1
Total	162.4	131.0	118.4	81.3	90.8	109.6	120.5	127.7	120.2	121.2
All products	174.2	136.4	123.6	87.5	99.9	121.4	132.6	139.6	129.0	128.1

* Less than 50,000 cubic feet.

¹ Does not include residential fuelwood.

² Includes shavings, excelsior, cabin logs, rails, etc.

Table may not sum due to rounding.

Table 4. -- Industrial roundwood production by Forest Survey Unit, species group, and product, Missouri, 2003

Species group	All products		ALL UNITS																
	MCF ²	MBF ¹	Saw logs	Veneer logs	Pulpwood	Charcoal	Cooperage	Handles	Posts	Cabin logs	Excelsior/shavings	Mine timbers							
	MCF ²	MBF ¹	MCF ²	MBF ¹	Cords ³	MCF ²	MBF ¹	MCF ²	M pieces	MCF ²	MCF ²	MCF ²							
Softwoods	Eastern red cedar	2,343	5,846	1,585	5	1	--	--	--	--	--	--							
	Shortleaf pine	4,560	17,925	3,114	--	--	2,406	190	--	--	1,440	1,109							
	Cypress	18	103	18	--	--	--	--	--	--	--	--							
	Total	6,921	23,874	4,717	5	1	2,406	190	--	--	1,440	1,109							
Hardwoods	Soft maple	2,359	13,170	2,169	4	1	2,209	175	--	--	--	--							
	Hard maple	499	2,498	411	54	12	948	75	2	*	--	--							
	River birch	37	224	37	--	--	--	--	--	--	--	--							
	Hickory	4,962	25,038	4,124	177	41	9,174	725	15	1	433	70							
	Pecan	8	25	4	13	3	--	--	10	1	--	--							
	Hackberry	349	2,037	336	4	1	103	8	--	--	--	--							
	Persimmon	1	6	1	--	--	--	--	--	--	--	--							
	Ash	1,178	5,965	982	140	32	328	26	--	--	825	133							
	Honeylocust	31	138	23	--	--	109	9	--	--	--	--							
	Black walnut	4,765	19,291	4,223	2,476	537	--	--	--	--	--	--							
	Sweetgum	226	1,340	221	4	1	52	4	--	--	--	--							
	Yellow-poplar	219	1,285	212	24	6	20	2	--	--	--	--							
	Tupelo	308	1,256	207	*	*	1,278	101	--	--	--	--							
	Sycamore	2,918	16,917	2,786	13	3	1,298	103	--	--	--	--							
	Cottonwood	4,283	28,464	4,025	--	--	3,059	242	--	--	--	--							
	Black cherry	186	951	157	126	29	--	--	8	1	--	--							
	Red oaks	64,033	342,098	60,893	731	167	32,779	2,590	5,051	354	--	5							
	White oaks	34,067	145,177	25,842	2,116	484	31,697	2,504	3,451	242	30,031	4,949							
	Willow	307	--	--	--	--	3,857	305	--	--	--	53							
	Sassafras	2	12	2	--	--	--	--	--	--	--	30							
	Basswood	66	388	64	--	--	--	--	--	--	--	16							
	Elm	380	1,706	281	1	*	1,246	98	--	--	--	2							
Other hardwoods	2	7	1	--	--	--	--	15	1	--	--								
Total	121,185	607,993	106,999	5,884	1,316	88,157	6,964	8,553	599	30,031	4,949	1,258	203	58	33	41	71	9	
State total	128,106	631,867	111,716	5,889	1,318	90,563	7,154	8,553	599	30,031	4,949	1,258	203	1,498	1,142	45	971	9	

(Table 4 continued on next page)

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(Table 4 continued)

EASTERN OZARK UNIT

Species group	All products ² MCF ²	Saw logs ² MBF ¹ MCF ²	Veneer logs ² MBF ¹ MCF ²	Pulpwood ² Cords ³ MCF ²	Charcoal ² Cords ³ MCF ²	Cooperage ² MBF ¹ MCF ²	Handles ² MBF ¹ MCF ²	Posts ² M pieces MCF ²	Cabin logs ² MCF ²	Excelsior/ shavings ² MCF ²	Mine timbers ² MCF ²
Softwoods											
Eastern red cedar	265	851 231	--	--	--	--	--	--	--	--	34
Shortleaf pine	3,442	14,703 2,554	--	--	--	--	--	732 563	--	--	135
Cypress	17	100 17	--	--	--	--	--	--	--	--	--
Total	3,724	15,654 2,802	--	--	--	--	--	732 563	--	169	--
Hardwoods											
Soft maple	129	718 118	--	--	--	--	--	--	--	--	--
Hard maple	257	1,148 189	32	7	60	--	--	--	--	--	--
River birch	*	2	--	--	--	--	--	--	--	--	--
Hickory	2,514	11,692 1,926	*	*	558	--	185 30	--	--	--	--
Pecan	1	--	3	1	--	--	--	--	--	--	--
Hackberry	22	128 21	--	--	--	--	--	--	--	--	--
Persimmon	*	2	--	--	--	--	--	--	--	--	--
Ash	267	836 138	--	--	17	--	698 112	--	--	--	--
Honeylocust	3	--	--	--	3	--	--	--	--	--	--
Black walnut	51	233 51	*	*	--	--	--	--	--	--	--
Sweetgum	145	857 141	--	--	4	--	--	--	--	--	--
Yellow-poplar	69	405 67	5	1	2	--	--	--	--	--	--
Tupelo	197	783 129	*	*	68	--	--	--	--	--	--
Sycamore	586	3,218 530	*	*	55	--	--	--	--	--	--
Cottonwood	34	218 31	--	--	4	--	--	--	--	--	--
Black cherry	58	288 47	46	10	--	--	--	--	--	--	--
Red oaks	33,027	173,120 30,815	2	*	24,582 1,942	--	259	--	11	--	--
White oaks	14,339	61,659 10,975	15	3	23,830 1,883	7,875 1,298	175	--	5	--	--
Sassafras	2	9 2	--	--	--	--	--	--	--	--	--
Elm	109	321 53	1	*	704 56	--	--	--	--	--	--
Total	51,809	255,637 45,233	104	24	59,005 4,661	7,875 1,298	883 142	--	16	--	--
Unit total	55,533	271,291 48,036	104	24	61,411 4,851	7,875 1,298	883 142	732 563	16	169	--

SOUTHWESTERN OZARK UNIT

Species group	All products ² MCF ²	Saw logs ² MBF ¹ MCF ²	Veneer logs ² MBF ¹ MCF ²	Pulpwood ² Cords ³ MCF ²	Charcoal ² Cords ³ MCF ²	Cooperage ² MBF ¹ MCF ²	Handles ² MBF ¹ MCF ²	Posts ² M pieces MCF ²	Cabin logs ² MCF ²	Excelsior/ shavings ² MCF ²	Mine timbers ² MCF ²
Softwoods											
Eastern red cedar	960	3,147 854	--	--	--	--	--	--	--	107	--
Shortleaf pine	869	1,816 315	--	--	--	--	--	704 542	*	12	--
Total	1,829	4,963 1,169	--	--	--	--	--	704 542	*	119	--
Hardwoods											
Soft maple	26	151 25	--	16	1	--	--	--	--	--	--
Hard maple	23	73 12	--	139	11	--	--	--	--	--	--
Hickory	621	2,820 464	1	*	1,977 156	--	--	--	--	--	--
Pecan	*	2	--	--	--	--	--	--	--	--	--
Hackberry	22	134 22	--	--	--	--	--	--	--	--	--
Ash	103	607 100	9	2	8	--	--	--	--	--	1
Black walnut	319	1,355 297	99	21	--	--	--	--	--	--	--
Sweetgum	3	16 3	--	--	--	--	--	--	--	--	--
Yellow-poplar	3	16 3	--	--	--	--	--	--	--	--	--
Tupelo	65	298 49	--	197	16	--	--	--	--	--	--
Sycamore	350	2,076 342	1	*	94 7	--	--	--	--	--	--
Cottonwood	7	40 6	--	17	1	--	--	--	--	--	--
Black cherry	14	76 12	5	--	--	--	--	--	--	--	--
Red oaks	11,814	62,220 11,075	57	13	7,950 628	--	95	5 3	1	--	--
White oaks	6,034	26,734 4,759	6	1	7,471 590	3,727 614	67	3 2	2	--	--
Elm	16	14 2	*	13	--	--	--	--	--	--	--
Total	19,418	96,630 17,171	178	40	18,039 1,425	3,727 614	--	8 4	3	--	1
Unit total	21,248	101,593 18,340	178	40	18,039 1,425	3,727 614	--	711 546	3	119	1

(Table 4 continued on next page)

(Table 4 continued)

NORTHWESTERN OZARK UNIT

Species group	All products ¹ MCF ²	Saw logs MBF ¹ MCF ²	Veneer logs MBF ¹ MCF ²	Pulpwood Cords ³ MCF ²	Charcoal Cords ³ MCF ²	Cooperage MBF ¹ MCF ²	Handles MBF ¹ MCF ²	Posts M pieces MCF ²	Cabin logs MCF ²	Excelsior/ shavings MCF ²	Mine timbers MCF ²
Softwoods											
Eastern red cedar	410	721 196	*	*	---	---	---	---	---	215	---
Shortleaf pine	84	460 80	---	---	---	---	---	5 4	---	---	---
Total	494	1,181 275	*	*	---	---	---	5 4	---	215	---
Hardwoods											
Soft maple	224	1,362 224	---	---	---	---	---	---	---	---	---
Hard maple	48	293 48	1	*	*	---	---	---	---	---	---
Hickory	307	1,862 307	---	---	3	---	---	---	---	---	---
Pecan	1	5 1	2	*	2	---	---	---	---	---	---
Hackberry	5	31 5	*	*	---	---	---	---	---	---	---
Ash	131	793 131	*	*	---	---	---	---	---	---	---
Black walnut	289	1,203 263	114	25	---	---	---	---	---	---	1
Sweetgum	1	5 1	*	*	---	---	---	---	---	---	---
Tupelo	11	68 11	---	---	---	---	---	---	---	---	---
Sycamore	358	2,174 358	---	---	---	---	---	---	---	---	---
Cottonwood	63	444 63	---	---	---	---	---	---	---	---	---
Black cherry	21	129 21	---	---	2	---	---	---	---	---	---
Red oaks	5,510	30,938 5,507	*	*	---	---	---	---	3	---	---
White oaks	3,508	17,759 3,161	45	10	---	1,850 305	---	50 29	3	---	---
Elm	17	104 17	---	---	---	---	---	---	---	---	---
Other hardwoods	1	3 1	---	---	3	---	---	---	---	---	---
Total	10,496	57,171 10,119	162	36	10 1	1,850 305	---	50 29	6	---	1
Unit total	10,990	58,352 10,394	163	36	10	1,850 305	---	55	6	215	1

PRAIRIE UNIT

Species group	All products ¹ MCF ²	Saw logs MBF ¹ MCF ²	Veneer logs MBF ¹ MCF ²	Pulpwood Cords ³ MCF ²	Charcoal Cords ³ MCF ²	Cooperage MBF ¹ MCF ²	Handles MBF ¹ MCF ²	Posts M pieces MCF ²	Cabin logs MCF ²	Excelsior/ shavings MCF ²	Mine timbers MCF ²
Softwoods											
Eastern red cedar	58	130 35	4	1	---	---	---	---	---	21	---
Shortleaf pine	17	100 17	---	---	---	---	---	---	---	---	---
Total	75	230 53	4	1	---	---	---	---	---	21	---
Hardwoods											
Soft maple	1,625	9,054 1,491	4	1	---	---	---	---	---	14	---
Hard maple	71	387 64	15	3	1	---	---	---	---	---	---
River birch	33	203 33	---	---	---	---	---	---	---	---	---
Hickory	984	5,764 949	46	11	9	---	69 11	---	---	---	2
Pecan	4	10 2	8	2	6	---	---	---	---	---	---
Hackberry	283	1,682 277	3	1	---	---	---	---	---	5	---
Ash	483	2,815 464	14	3	---	---	69 11	---	---	5	---
Honeylocust	23	138 23	---	---	---	---	---	---	---	---	---
Black walnut	3,544	14,206 3,110	1,987	431	---	---	---	---	---	---	3
Sweetgum	1	---	3	1	---	---	---	---	---	---	---
Tupelo	18	1 *	---	---	---	---	---	---	---	---	---
Sycamore	1,295	7,633 1,257	11	3	---	---	---	---	---	14	*
Cottonwood	3,503	23,554 3,330	---	---	---	---	---	---	---	5	---
Black cherry	62	299 49	53	12	5	---	---	---	---	---	---
Red oaks	8,599	47,911 8,528	221	51	---	---	---	---	---	---	1
White oaks	5,379	24,303 4,326	905	207	---	4,984 821	---	---	---	---	1
Willow	2	---	---	---	---	---	---	---	---	2	---
Basswood	66	388 64	---	---	---	---	---	---	---	---	---
Elm	222	1,173 193	*	*	9	---	---	---	---	---	---
Other hardwoods	1	3 1	---	---	---	---	---	---	---	---	---
Total	26,197	139,524 24,161	3,271	725	30 2	4,984 821	138 22	---	---	47	7
Unit total	26,272	139,754 24,214	3,276	726	30	4,984 821	138 22	---	---	69	7

(Table 4 continued on next page)

(Table 4 continued)

RIVERBORER UNIT																		
Species group	All products ¹ MCF ²	Saw logs ¹ MBF ¹	Saw logs ² MCF ²	Veneer logs ¹ MBF ¹	Veneer logs ² MCF ²	Pulpwood ³ Cords ³	Pulpwood ² MCF ²	Charcoal ³ Cords ³	Charcoal ² MCF ²	Cooperage ¹ MBF ¹	Cooperage ² MCF ²	Handles ¹ MBF ¹	Handles ² MCF ²	Posts ¹ M pieces	Posts ² MCF ²	Cabin logs ¹ MCF ²	Excelsior/ shavings ² MCF ²	Mine timbers ² MCF ²
Softwoods																		
Eastern red cedar	650	996	270	--	--	--	--	--	--	--	--	--	--	--	--	--	4	376
Shortleaf pine	147	847	147	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cypress	1	3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	798	1,846	418	--	--	--	--	--	--	--	--	--	--	--	--	--	4	376
Hardwoods																		
Soft maple	355	1,887	311	--	--	565	45	--	--	--	--	--	--	--	--	--	--	--
Hard maple	100	598	98	6	1	--	--	*	--	--	--	--	--	--	--	--	--	--
River birch	3	20	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hickory	536	2,900	478	130	30	--	--	3	*	--	--	179	29	--	--	--	--	--
Pecan	2	9	1	--	--	--	--	2	*	--	--	--	--	--	--	--	--	--
Hackberry	17	62	10	--	--	90	7	--	--	--	--	--	--	--	--	--	--	--
Persimmon	1	3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ash	195	914	151	117	27	110	9	--	--	--	--	58	9	--	--	--	--	--
Honeylocust	6	--	--	--	--	70	6	--	--	--	--	--	--	--	--	--	--	--
Black walnut	562	2,294	502	277	60	--	--	--	--	--	--	--	--	--	--	--	--	--
Sweetgum	77	462	76	*	*	4	*	--	--	--	--	--	--	--	--	--	--	--
Yellow-poplar	147	865	142	19	4	--	--	--	--	--	--	--	--	--	--	--	--	--
Yellow-poplar	17	105	17	*	*	--	--	--	--	--	--	--	--	--	--	--	--	--
Tupelo	17	105	17	*	*	--	--	--	--	--	--	--	--	--	--	--	--	--
Sycamore	330	1,816	299	--	--	236	19	--	--	--	--	--	--	--	--	--	12	--
Cottonwood	676	4,209	595	--	--	869	69	--	--	--	--	--	--	--	--	--	12	--
Black cherry	31	159	26	22	5	--	--	2	*	--	--	--	--	--	--	--	--	--
Red oaks	5,082	27,908	4,968	451	103	--	--	--	--	--	--	--	--	--	--	--	11	--
White oaks	4,807	14,723	2,621	1,146	262	93	7	--	--	11,595	1,911	--	--	--	--	--	6	--
Willow	305	--	--	--	--	3,857	305	--	--	--	--	--	--	--	--	--	--	--
Sassafras	1	3	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Elm	17	94	16	*	*	14	1	--	--	--	--	--	--	--	--	--	--	--
Other hardwoods	*	--	--	--	--	--	--	3	*	--	--	--	--	--	--	--	--	--
Total	13,265	59,031	10,316	2,168	493	5,910	467	10	1	11,595	1,911	237	38	--	--	16	24	--
Unit total	14,063	60,877	10,733	2,168	493	5,910	467	10	1	11,595	1,911	237	38	--	--	20	399	--

* Less than 1/2 unit of measure.

¹ Thousand board feet, International 1/4-inch rule.² Thousand cubic feet.³ Standard cords are 128 cubic feet consisting of 79 cubic feet of wood and 49 cubic feet of bark and air space.

Table may not sum due to rounding.

Table 5. -- Industrial roundwood production by Forest Survey Unit, county, and species group, Missouri, 2003

(In thousand cubic feet)

Forest Survey Unit and county	Softwoods					Hardwoods								
	Eastern redcedar	Shortleaf pine	Cypress	Total softwoods	Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut
Eastern Ozark Unit														
Bollinger	8	6	--	14	17	68	--	237	--	*	--	147	3	9
Butler	7	620	17	644	6	4	--	58	--	--	*	12	--	3
Carter	15	457	--	472	*	5	--	143	--	--	--	--	--	1
Crawford	6	62	--	69	10	14	--	48	--	--	--	4	--	2
Dent	11	576	--	587	2	2	--	73	--	--	--	2	--	*
Iron	13	143	--	156	6	7	--	86	--	2	--	6	--	2
Madison	12	294	--	306	21	42	--	390	--	13	--	21	1	21
Oregon	--	111	--	111	17	--	--	199	--	*	--	14	--	4
Reynolds	16	327	--	343	15	4	--	212	--	--	--	11	--	--
Ripley	46	286	--	332	14	3	*	243	1	1	--	24	--	1
Shannon	21	224	--	245	--	--	--	124	--	--	--	3	--	*
St. Francois	11	31	--	42	--	1	--	42	--	--	--	2	--	2
Washington	90	144	--	233	11	17	--	106	--	--	--	5	--	2
Wayne	8	162	--	170	10	89	--	550	--	6	--	16	--	2
Total	265	3,442	17	3,724	129	257	*	2,514	1	22	*	267	3	51
Southwestern Ozark Unit														
Barry	83	6	--	89	5	1	--	40	--	--	--	20	--	77
Christian	51	--	--	51	4	4	--	11	--	4	--	21	--	25
Douglas	98	105	--	203	5	--	--	42	--	--	--	4	--	66
Howell	*	24	--	24	6	6	--	122	--	--	--	7	--	3
McDonald	53	6	--	59	3	12	--	210	--	16	--	17	--	28
Newton	--	--	--	--	3	--	--	41	*	1	--	16	--	50
Ozark	140	7	--	147	--	--	--	22	--	--	--	7	--	3
Stone	149	--	--	149	--	--	--	*	--	--	--	4	--	21
Taney	378	--	--	378	--	--	--	8	--	--	--	*	--	*
Texas	3	681	--	684	--	--	--	67	--	--	--	3	--	35
Webster	4	--	--	4	1	1	--	19	--	1	--	1	--	8
Wright	--	41	--	41	--	--	--	38	--	--	--	3	--	3
Total	960	869	--	1,829	26	23	--	621	*	22	--	103	--	319
Northwestern Ozark Unit														
Benton	16	--	--	16	--	--	--	23	--	--	--	--	--	9
Camden	73	--	--	73	2	2	--	60	--	*	--	*	--	14
Cedar	*	--	--	*	82	--	--	12	*	1	--	77	--	36
Dallas	--	--	--	--	--	--	--	4	--	*	--	*	--	13
Hickory	62	--	--	62	--	--	--	7	*	*	--	*	--	15
Laclede	30	16	--	46	--	--	--	13	--	*	--	8	--	4
Maries	66	8	--	74	87	18	--	60	--	--	--	25	--	16
Miller	58	--	--	58	4	--	--	25	--	--	--	2	--	6
Morgan	47	--	--	47	2	2	--	48	*	--	--	2	--	8
Phelps	24	13	--	37	21	8	--	29	--	--	--	12	--	18
Polk	2	--	--	2	4	1	--	1	*	2	--	2	--	98
Pulaski	30	47	--	77	13	16	--	26	--	--	--	--	--	26
St. Clair	1	--	--	1	9	*	--	1	1	1	--	1	--	25
Total	410	84	--	494	224	48	--	307	1	5	--	131	--	289

(Table 5 continued on next page)

(Table 5 continued)

Forest Survey Unit and county	Softwoods					Hardwoods									
	Eastern redcedar	Shortleaf pine	Cypress	softwoods	Total	Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut
Prairie Unit															
Adair	*	--	--	--	*	39	2	--	44	--	*	--	10	--	13
Andrew	--	--	--	--	--	40	--	--	--	--	7	--	12	--	151
Atchison	--	--	--	--	--	8	--	--	--	--	1	--	2	--	23
Audrain	--	--	--	--	--	23	--	*	32	--	3	--	4	--	*
Barton	--	--	--	--	--	81	--	--	13	*	1	--	80	--	15
Bates	*	--	--	--	*	2	*	--	6	*	1	--	1	--	56
Buchanan	--	--	--	--	--	57	--	--	--	--	10	--	18	--	221
Caldwell	--	--	--	--	--	47	--	--	22	*	15	--	13	5	60
Carroll	--	--	--	--	--	42	--	--	20	--	10	--	4	--	2
Cass	*	--	--	--	*	--	*	--	--	--	*	--	*	--	1
Chariton	--	--	--	--	--	100	--	12	45	--	15	--	14	--	154
Clark	*	--	--	--	*	54	2	--	27	--	--	--	16	--	24
Clinton	--	--	--	--	--	35	--	--	7	--	7	--	12	3	81
Cooper	--	--	--	--	--	22	1	*	12	*	4	--	4	--	16
Dade	--	--	--	--	--	14	--	--	12	*	1	--	13	--	105
Daviess	--	--	--	--	--	51	--	--	26	*	20	--	14	5	181
De Kalb	--	--	--	--	--	20	--	--	6	--	4	--	7	2	26
Gentry	--	--	--	--	--	4	--	--	1	--	1	--	1	--	158
Greene	19	17	--	--	37	12	12	--	20	--	12	--	12	--	278
Grundy	--	--	--	--	--	47	--	--	28	--	19	--	11	3	14
Harrison	--	--	--	--	--	24	--	--	11	*	15	--	7	--	58
Henry	*	--	--	--	*	10	*	--	--	*	*	--	*	--	32
Holt	--	--	--	--	--	14	--	--	--	--	2	--	4	--	48
Jackson	*	--	--	--	*	*	*	--	*	*	*	--	*	--	6
Jasper	--	--	--	--	--	2	*	--	19	*	1	--	15	--	243
Johnson	*	--	--	--	*	--	*	--	--	*	6	--	2	--	1
Knox	*	--	--	--	*	41	3	--	45	--	3	--	15	--	14
Lafayette	*	--	--	--	*	1	*	--	--	*	6	--	3	--	1
Lawrence	10	--	--	--	10	15	6	--	16	*	7	--	15	--	434
Lewis	*	--	--	--	*	66	5	--	22	--	--	--	15	--	24
Lincoln	--	--	--	--	--	68	3	--	9	--	--	--	8	--	28
Linn	--	--	--	--	--	37	*	1	25	--	4	--	7	--	1
Livingston	--	--	--	--	--	66	--	--	40	*	23	--	13	5	166
Macon	1	--	--	--	1	26	2	--	70	--	6	--	6	--	160
Marion	--	--	--	--	--	32	4	--	13	--	--	--	6	--	7
Mercer	--	--	--	--	--	9	--	--	10	--	9	--	4	--	2
Monroe	--	--	--	--	--	81	7	3	59	*	14	--	5	--	2
Nodaway	--	--	--	--	--	17	--	--	--	--	1	--	4	--	32
Pettis	21	--	--	--	21	8	1	--	7	*	3	--	3	--	1
Pike	--	--	--	--	--	34	9	--	16	--	--	--	13	--	51
Platte	--	--	--	--	--	17	--	--	--	--	3	--	6	--	68
Putnam	--	--	--	--	--	23	1	--	22	--	--	--	5	--	--
Ralls	--	--	--	--	--	17	4	--	15	--	--	--	4	--	22
Randolph	--	--	--	--	--	122	2	17	105	--	31	--	32	--	173
Ray	--	--	--	--	--	7	--	--	4	--	6	--	5	--	2
Saline	*	--	--	--	*	16	*	--	8	*	4	--	3	--	155
Schuyler	*	--	--	--	*	44	2	--	12	--	*	--	10	--	7
Scotland	2	--	--	--	2	40	3	--	18	--	--	--	14	--	12
Shelby	*	--	--	--	*	33	3	--	44	--	3	--	8	--	141
Sullivan	--	--	--	--	--	34	1	--	26	--	3	--	1	--	--
Vernon	1	--	--	--	1	14	*	--	46	1	2	--	3	--	70
Worth	--	--	--	--	--	7	--	--	--	--	*	--	2	--	7
Total	58	17	--	--	75	1,625	71	33	984	4	283	--	483	23	3,544

(Table 5 continued on next page)

(Table 5 continued)

Forest Survey Unit and county	Softwoods					Hardwoods									
	Eastern redcedar	Shortleaf pine	Cypress	softwoods	Total	Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut
Riverborder Unit															
Boone	26	--	--	26	167	30	--	*	31	--	2	--	4	--	136
Callaway	167	--	--	167	11	11	1	--	10	--	--	--	5	--	25
Cape Girardeau	3	--	--	3	*	*	24	--	91	--	1	*	31	--	53
Cole	127	--	--	127	12	12	--	--	1	--	--	--	2	--	4
Dunklin	--	--	1	1	6	6	1	*	3	1	1	--	3	--	--
Franklin	6	21	--	28	14	14	19	--	39	--	--	*	10	--	4
Gasconade	64	13	--	77	17	17	2	--	7	--	--	--	2	--	37
Howard	--	--	--	--	71	71	--	3	30	--	6	--	10	--	165
Jefferson	44	61	--	105	2	2	4	--	90	--	*	--	2	--	*
Mississippi	--	--	--	--	20	20	--	--	--	--	1	--	8	4	--
Moniteau	80	--	--	80	*	*	*	--	1	*	1	--	2	--	2
Montgomery	19	--	--	19	11	11	*	--	5	--	--	--	7	--	9
New Madrid	--	--	--	--	9	9	--	--	1	--	4	--	1	--	--
Osage	98	--	--	98	77	77	*	--	14	--	--	--	15	--	14
Pemiscot	--	--	--	--	11	11	--	--	2	--	2	--	1	2	--
Perry	10	26	--	36	--	--	23	--	92	--	--	*	71	--	91
Scott	--	--	--	--	--	--	3	--	2	--	--	--	1	--	--
St. Charles	*	--	--	*	22	22	2	--	6	--	--	*	3	--	7
St. Louis	7	--	--	7	--	--	--	--	--	--	--	*	--	--	--
Ste. Genevieve	--	26	--	26	--	--	15	--	40	--	--	*	5	--	2
Stoddard	--	--	--	--	37	37	4	--	62	--	*	--	6	--	3
Warren	--	--	--	--	6	6	1	--	5	--	--	*	7	--	9
Total	650	147	1	798	355	100	499	3	536	2	17	1	195	6	562
State total	2,343	4,560	18	6,921	2,359	499	499	37	4,982	8	349	1	1,178	31	4,765

(Table 5 continued on next page)

(Table 5 continued)

Forest Survey																		
Unit and county	Sweetgum			Yellow- poplar	Tupelo Sycamore			Cotton- wood	Black cherry	Hardwoods				Other			Total	All species
	Sweetgum	Yellow- poplar	Tupelo	Sycamore	Cotton- wood	Black cherry	Red oaks	White oaks	Willow	Sassafras	Basswood	Elm	hardwoods	hardwoods				
Eastern Ozark Unit																		
Bollinger	34	18	8	15	2	11	1,218	858	--	--	*	--	12	--	2,658	2,671		
Butler	40	--	*	5	13	--	992	403	--	--	--	--	1	--	1,538	2,183		
Carter	--	--	5	5	--	--	2,125	763	--	--	--	--	--	--	3,047	3,519		
Crawford	--	3	--	79	--	1	1,405	898	--	--	--	--	--	--	2,465	2,533		
Dent	--	--	9	17	--	13	2,645	1,262	--	--	--	--	4	--	4,030	4,617		
Iron	2	2	23	17	--	2	3,425	618	--	--	--	--	2	--	4,200	4,356		
Madison	54	26	15	156	--	18	3,391	1,877	--	--	--	--	32	--	6,077	6,383		
Oregon	*	--	10	126	1	10	2,833	1,073	--	--	1	--	*	--	4,291	4,402		
Reynolds	*	--	55	1	--	--	4,293	963	--	--	--	--	*	--	5,555	5,895		
Ripley	6	--	*	35	10	*	1,657	818	--	--	--	--	15	--	2,829	3,161		
Shannon	--	--	10	12	--	--	3,137	1,287	--	--	--	--	--	--	4,575	4,820		
St. Francois	2	1	1	5	--	--	218	133	--	--	--	--	1	--	409	451		
Washington	--	3	4	44	--	1	2,438	1,166	--	--	--	--	2	--	3,800	4,033		
Wayne	6	17	56	66	7	1	3,250	2,221	--	--	--	--	39	--	6,336	6,506		
Total	145	69	197	586	34	58	33,027	14,339	--	--	2	--	109	--	51,809	55,533		
Southwestern Ozark Unit																		
Barry	1	1	1	40	--	1	760	416	--	--	--	--	--	--	1,363	1,452		
Christian	--	--	--	7	--	4	246	81	--	--	--	--	--	--	405	456		
Douglas	--	--	19	29	--	1	1,477	616	--	--	--	--	--	--	2,257	2,460		
Howell	--	--	13	109	--	6	2,816	969	--	--	--	--	--	--	4,056	4,080		
McDonald	1	1	17	85	1	--	1,561	1,103	--	--	--	--	13	--	3,070	3,129		
Newton	--	--	--	59	*	2	737	375	--	--	--	--	*	--	1,283	1,283		
Ozark	--	--	3	6	5	--	903	283	--	--	--	--	1	--	1,233	1,380		
Stone	--	--	--	7	--	--	98	42	--	--	--	--	--	--	172	321		
Taney	--	--	--	5	--	--	217	82	--	--	--	--	1	--	315	693		
Texas	--	--	6	--	--	--	2,206	1,194	--	--	--	--	--	--	3,512	4,196		
Webster	--	--	--	2	--	1	224	117	--	--	--	--	*	--	376	380		
Wright	--	--	6	--	--	--	572	756	--	--	--	--	*	--	1,377	1,418		
Total	3	3	65	350	7	14	11,814	6,034	--	--	--	--	16	--	19,418	21,248		
Northwestern Ozark Unit																		
Benton	--	--	3	7	3	3	218	232	--	--	--	--	--	--	498	514		
Camden	*	--	6	30	3	16	735	536	--	--	--	--	5	--	1,408	1,481		
Cedar	--	--	--	12	9	*	328	99	--	--	--	--	--	*	658	658		
Dallas	*	--	--	--	--	--	95	41	--	--	--	--	*	--	154	154		
Hickory	*	--	--	*	--	--	17	23	--	--	--	--	*	--	63	125		
Laclede	*	--	--	17	--	--	509	321	--	--	--	--	*	--	871	917		
Maries	--	--	--	93	43	--	771	514	--	--	--	--	9	--	1,636	1,710		
Miller	--	--	--	23	3	--	335	332	--	--	--	--	2	--	788	730		
Morgan	--	--	2	19	--	*	345	216	--	--	--	--	--	*	646	692		
Phelps	--	--	--	88	--	--	1,164	736	--	--	--	--	--	--	2,077	2,114		
Polk	*	--	--	2	*	1	37	26	--	--	--	--	*	--	176	178		
Pulaski	--	--	--	67	1	--	930	406	--	--	--	--	--	--	1,485	1,562		
St. Clair	*	--	--	1	*	*	27	27	--	--	--	--	*	--	95	96		
Total	1	--	11	358	63	21	5,510	3,508	--	--	--	--	17	1	10,496	10,990		

Table 5 continued on next page)

(Table 5 continued on next page)

(Table 5 continued)

Forest Survey Unit and county		Hardwoods														All species
		Sweetgum	Yellow- poplar	Tupelo	Sycamore	Cotton- wood	Black cherry	Red oaks	White oaks	Willow	Sassafras	Basswood	Elm	Other hardwoods	Total hardwoods	
Prairie Unit																
	Adair	--	--	--	18	110	--	226	197	--	--	--	6	--	664	664
	Andrew	--	--	--	19	85	--	41	30	--	--	11	--	--	395	395
	Atchison	--	--	--	12	88	--	8	7	--	--	2	--	--	151	151
	Audrain	--	--	--	32	37	--	381	303	--	--	--	3	--	819	819
	Barton	--	--	--	14	12	--	321	109	--	--	--	*	--	647	647
	Bates	*	--	--	5	1	--	10	18	--	--	--	*	--	100	100
	Buchanan	--	--	--	29	103	--	59	43	--	--	17	--	--	556	556
	Caldwell	--	--	--	27	117	1	76	46	--	--	1	7	--	437	437
	Carroll	--	--	--	57	116	1	109	64	--	--	--	9	--	433	433
	Cass	*	--	--	--	--	--	*	10	--	--	--	--	--	12	12
	Chariton	--	--	--	76	183	3	413	135	--	--	--	8	--	1,158	1,158
	Clark	--	--	2	12	103	--	200	170	--	--	*	7	--	617	617
	Clinton	--	--	--	13	18	--	40	29	--	--	6	2	--	252	252
	Cooper	--	--	--	28	30	*	57	54	--	--	*	4	*	232	232
	Dade	--	--	--	12	9	--	234	106	--	--	--	*	--	505	505
	Davies	--	--	--	36	202	1	134	85	--	--	4	10	--	769	769
	De Kalb	--	--	--	10	22	--	25	29	--	--	1	1	--	154	154
	Gentry	--	--	--	2	19	*	20	10	--	--	--	--	--	216	216
	Greene	--	--	--	12	--	16	197	113	--	--	--	--	--	685	722
	Grundy	--	--	--	33	197	1	119	68	--	--	3	12	--	555	555
	Harrison	--	--	--	15	157	1	92	55	--	--	3	7	--	445	445
	Henry	*	--	--	--	--	--	*	10	--	--	--	--	--	52	53
	Holt	--	--	--	13	91	--	15	10	--	--	4	--	--	202	202
	Jackson	*	--	--	2	2	2	4	14	--	--	--	--	--	30	30
	Jasper	--	--	*	19	*	9	250	131	--	--	--	*	--	690	690
	Johnson	*	--	--	34	24	--	31	22	--	--	--	3	--	125	125
	Knox	--	--	--	24	90	--	263	248	--	--	--	7	--	752	752
	Lafayette	*	--	--	36	25	*	31	22	--	--	*	3	--	129	129
	Lawrence	--	--	--	19	*	15	609	343	--	--	--	*	--	1,479	1,489
	Lewis	--	--	4	11	76	--	171	181	--	--	--	10	--	585	585
	Lincoln	--	--	--	23	59	*	171	226	--	--	--	--	--	597	597
	Linn	--	--	--	31	101	1	97	61	--	--	--	6	--	371	371
	Livingston	--	--	--	88	275	1	215	104	--	--	3	20	--	1,019	1,019
	Macon	--	--	--	45	145	3	557	288	--	--	--	9	--	1,317	1,318
	Marion	--	--	--	4	9	--	100	129	--	--	--	1	--	306	306
	Mercer	--	--	--	12	89	--	60	30	--	--	1	6	--	231	231
	Monroe	--	--	12	87	135	--	498	282	--	--	--	31	--	1,215	1,215
	Nodaway	--	--	--	1	--	--	11	7	--	--	2	--	--	75	75
	Pettis	*	--	--	13	3	*	46	94	1	--	1	--	*	182	203
	Pike	--	--	--	48	51	*	371	255	--	--	--	*	--	850	850
	Platte	--	--	--	16	74	--	21	14	--	--	6	--	--	225	225
	Putnam	--	--	--	12	78	--	80	64	--	--	--	5	--	290	290
	Ralls	--	--	*	22	23	--	164	98	--	--	--	1	--	370	370
	Randolph	--	--	--	138	133	3	1,209	438	--	--	--	15	--	2,416	2,416
	Ray	--	--	--	26	69	1	50	25	--	--	--	3	--	198	198
	Saline	*	--	--	38	47	3	60	43	--	--	*	2	*	380	380
	Schuyler	--	--	--	7	55	--	99	67	--	--	--	3	--	305	305
	Scotland	--	--	--	9	66	--	142	129	--	--	*	4	--	438	440
	Shelby	--	--	--	33	98	*	360	238	--	--	--	11	--	973	973
	Sullivan	--	--	--	14	76	--	73	81	--	--	--	3	--	311	311
	Vernon	*	--	--	8	3	1	74	43	--	--	--	1	1	264	265
	Worth	--	--	--	--	--	--	3	1	--	--	--	--	--	20	20
Total		1	--	18	1,295	3,503	62	8,599	5,379	2	--	66	222	1	26,197	26,272

(Table 5 continued on next page)

(Table 5 continued)

Forest Survey Unit and county	Hardwoods														All species
	Sweetgum	Yellow- poplar	Tupelo	Sycamore	Cotton- wood	Black cherry	Red oaks	White oaks	Willow	Sassafras	Basswood	Elm	Other hardwoods	Total hardwoods	
Riverborder Unit															
Boone	--	--	--	34	60	*	354	304	--	--	--	2	--	958	984
Callaway	--	--	--	28	75	--	248	286	--	--	--	1	--	691	858
Cape Girardeau	6	48	10	--	*	7	625	524	--	*	--	*	--	1,420	1,422
Cole	--	--	--	14	14	--	126	50	--	--	--	--	--	223	350
Dunklin	24	--	--	2	*	*	16	16	--	--	--	*	--	75	76
Franklin	--	--	--	35	26	--	431	478	--	--	--	2	--	1,058	1,086
Gasconade	--	--	--	41	127	--	570	417	--	--	--	1	--	1,221	1,298
Howard	--	--	--	73	79	3	414	105	--	--	--	2	--	961	961
Jefferson	1	1	3	8	*	1	583	261	--	--	--	2	--	958	1,063
Mississippi	--	--	--	8	13	--	--	7	31	--	--	1	--	93	93
Moniteau	--	--	--	6	2	*	91	71	--	--	--	1	*	178	258
Montgomery	--	--	--	1	13	*	113	380	--	--	--	--	--	540	559
New Madrid	*	--	1	4	26	--	1	1	24	--	--	--	--	72	72
Osage	--	--	--	25	48	--	228	231	--	--	--	--	--	653	751
Pemiscot	--	--	1	6	74	--	1	2	250	--	--	--	--	352	352
Perry	1	70	2	7	--	17	622	449	--	--	--	1	--	1,447	1,482
Scott	*	13	--	--	--	*	62	21	--	--	--	--	--	103	103
St. Charles	--	--	--	*	59	--	43	419	--	--	--	*	--	561	561
St. Louis	--	--	--	--	--	--	7	11	--	--	--	--	--	18	24
Ste. Genevieve	1	4	1	10	--	3	333	228	--	--	--	1	--	643	669
Stoddard	44	11	--	27	*	*	160	97	--	*	--	*	--	451	451
Warren	--	--	--	--	59	*	54	448	--	--	--	*	--	588	588
Total	77	147	17	330	676	31	5,082	4,807	305	1	--	17	*	13,265	14,063
State total	226	219	308	2,918	4,283	186	64,033	34,067	307	2	66	380	2	121,185	128,106

* Less than 500 cubic feet.

Table may not sum due to rounding.

Table 6. -- Industrial roundwood production by Forest Survey Unit, species group, and State of destination, Missouri, 2003
(In thousand cubic feet)

ALL UNITS															
Species group	Total	State of destination												Other States	Other countries
		Arkansas	Illinois	Indiana	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma	Tennessee	Wisconsin			
Softwoods															
Eastern redcedar	2,343	--	--	--	--	--	27	2,316	--	--	--	--	--	--	
Shorleaf pine	4,560	1	--	--	--	--	--	4,369	--	--	189	--	--	--	
Cypress	18	1	--	--	--	--	--	17	--	--	--	--	--	--	
Total	6,921	2	--	--	--	--	27	6,703	--	--	189	--	--	--	
Hardwoods															
Soft maple	2,359	12	2	*	159	24	41	2,111	--	--	--	--	10	--	
Hard maple	499	25	1	10	4	--	51	404	--	--	--	--	3	1	
River birch	37	*	--	--	--	--	--	37	--	--	--	--	--	--	
Hickory	4,962	334	14	3	20	--	347	4,180	--	6	--	--	45	14	
Pecan	8	1	--	2	--	3	--	2	--	--	--	--	--	--	
Hackberry	349	1	*	--	--	10	6	330	--	--	--	--	2	--	
Persimmon	1	--	--	--	--	--	1	--	--	--	--	--	--	--	
Ash	1,178	6	118	5	3	9	32	994	--	6	--	--	*	5	
Honeylocust	31	--	--	--	--	--	7	23	--	--	--	--	2	--	
Black walnut	4,765	--	109	15	8	7	8	3,302	9	7	--	--	--	1,301	
Sweetgum	226	26	--	--	--	--	5	194	--	--	--	--	--	--	
Yellow-poplar	219	3	--	3	--	--	31	182	--	--	--	--	--	--	
Tupelo	308	35	--	--	18	--	47	203	--	--	--	--	5	--	
Sycamore	2,918	18	2	--	8	51	54	2,774	--	6	--	--	4	--	
Cottonwood	4,283	3	*	--	171	250	4	3,770	35	--	--	--	50	--	
Black cherry	186	*	2	16	--	--	4	131	--	--	--	--	--	33	
Red oaks	64,033	1,446	112	19	87	8	1,157	60,824	--	73	--	17	183	107	
White oaks	34,067	1,325	111	54	99	31	1,088	30,776	--	24	--	--	172	386	
Willow	307	--	--	--	--	--	55	2	--	--	--	--	250	--	
Sassafras	2	--	--	--	--	--	--	2	--	--	--	--	--	--	
Basswood	66	--	--	--	*	--	--	66	--	--	--	--	--	--	
Elm	380	28	2	*	28	2	38	277	--	--	--	--	4	--	
Other hardwoods	2	--	--	--	--	--	--	2	--	--	--	--	--	--	
Total	121,185	3,263	475	127	606	393	2,975	110,587	44	122	--	17	730	1,847	
State total	128,106	3,265	475	127	606	393	3,002	117,290	44	122	189	17	730	1,847	
(Table 6 continued on next page)															

(Table 6 continued on next page)

(Table 6 continued)

EASTERN OZARK UNIT														
Species group		State of destination												
		Total	Arkansas	Illinois	Indiana	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma	Tennessee	Wisconsin	Other States
Softwoods														
Eastern redcedar	265	--	--	--	--	--	--	27	238	--	--	--	--	--
Shortleaf pine	3,442	1	--	--	--	--	--	--	3,252	--	--	189	--	--
Cypress	17	--	--	--	--	--	--	--	17	--	--	--	--	--
Total	3,724	1	--	--	--	--	--	27	3,507	--	--	189	--	--
Hardwoods														
Soft maple	129	2	*	--	--	--	--	10	117	--	--	--	--	--
Hard maple	257	15	--	7	--	--	--	50	185	--	--	--	--	*
River birch	*	--	--	--	--	--	--	--	*	--	--	--	--	--
Hickory	2,514	216	7	--	--	--	--	346	1,944	--	--	--	--	--
Pecan	1	--	--	1	--	--	--	--	--	--	--	--	--	--
Hackberry	22	--	--	--	--	--	--	1	21	--	--	--	--	--
Persimmon	*	--	--	--	--	--	--	*	--	--	--	--	--	--
Ash	267	1	113	--	--	--	--	20	133	--	--	--	--	--
Honeylocust	3	--	--	--	--	--	--	3	--	--	--	--	--	--
Black walnut	51	--	--	--	--	--	--	1	50	--	--	--	--	--
Sweetgum	145	--	--	--	--	--	--	4	141	--	--	--	--	--
Yellow-poplar	69	--	--	--	1	--	--	7	61	--	--	--	--	--
Tupelo	197	21	--	--	--	--	--	47	128	--	--	--	--	--
Sycamore	586	10	1	--	--	--	--	45	529	--	--	--	--	--
Cottonwood	34	2	--	--	--	--	--	2	31	--	--	--	--	--
Black cherry	58	--	--	10	--	--	--	3	45	--	--	--	--	--
Red oaks	33,027	886	94	--	--	--	--	1,150	30,898	--	--	--	--	--
White oaks	14,339	833	7	--	--	--	--	1,080	12,398	--	--	--	--	21
Sassafras	2	--	--	--	--	--	--	--	2	--	--	--	--	--
Elm	109	19	1	*	--	--	--	37	52	--	--	--	--	--
Total	51,809	2,006	224	19	--	--	--	2,806	46,734	--	--	--	--	21
Unit total	55,533	2,007	224	19	--	--	--	2,833	50,241	--	--	189	--	21
(Table 6 continued on next page)														

(Table 6 continued on next page)

(Table 6 continued)

SOUTHWESTERN OZARK UNIT														
Species group	Total	State of destination												
		Arkansas	Illinois	Indiana	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma	Tennessee	Wisconsin	Other States	Other countries
Softwoods														
Eastern redcedar	960	--	--	--	--	--	--	960	--	--	--	--	--	--
Shortleaf pine	869	--	--	--	--	--	--	869	--	--	--	--	--	--
Total	1,829	--	--	--	--	--	--	1,829	--	--	--	--	--	--
Hardwoods														
Soft maple	26	3	--	--	--	2	--	20	--	--	--	--	*	--
Hard maple	23	9	--	--	--	--	--	10	--	--	--	--	3	--
Hickory	621	114	--	--	--	--	--	458	--	6	--	--	44	--
Pecan	*	--	--	--	--	*	--	--	--	--	--	--	--	--
Hackberry	22	--	--	--	--	1	--	21	--	--	--	--	--	--
Ash	103	2	--	2	--	1	--	92	--	6	--	--	*	--
Black walnut	319	--	--	1	--	1	--	282	2	7	--	--	--	25
Sweetgum	3	3	--	--	--	--	--	--	--	--	--	--	--	--
Yellow-poplar	3	3	--	--	--	--	--	--	--	--	--	--	--	--
Tupelo	65	14	--	--	--	--	--	47	--	--	--	--	4	--
Sycamore	350	5	--	--	--	*	--	336	--	6	--	--	2	--
Cottonwood	7	1	--	--	--	--	--	5	--	--	--	--	*	--
Black cherry	14	--	--	1	--	--	*	11	--	--	--	--	2	--
Red oaks	11,814	544	--	5	--	1	--	11,011	--	73	--	5	176	*
White oaks	6,034	475	--	--	--	2	--	5,363	--	24	--	--	165	4
Elm	16	10	--	*	--	*	--	2	--	--	--	--	4	--
Total	19,418	1,183	--	10	--	9	*	17,658	2	122	--	5	399	31
Unit total	21,248	1,183	--	10	--	9	*	19,488	2	122	--	5	399	31

(Table 6 continued on next page)

(Table 6 continued on next page)

(Table 6 continued)

NORTHWESTERN OZARK UNIT

State of destination														
Species group	Total	Arkansas	Illinois	Indiana	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma	Tennessee	Wisconsin	Other States	Other countries
Softwoods														
Eastern redcedar	410	--	--	--	--	--	--	410	--	--	--	--	--	--
Shortleaf pine	84	--	--	--	--	--	--	84	--	--	--	--	--	--
Total	494	--	--	--	--	--	--	494	--	--	--	--	--	--
Hardwoods														
Soft maple	224	--	--	--	--	7	--	217	--	--	--	--	--	--
Hard maple	48	--	--	--	--	--	--	48	--	--	--	--	--	--
Hickory	307	--	--	--	--	--	--	307	--	--	--	--	--	--
Pecan	1	--	--	*	--	1	--	*	--	--	--	--	--	--
Hackberry	5	--	--	--	--	3	--	3	--	--	--	--	--	--
Ash	131	--	--	--	--	3	--	128	--	--	--	--	--	--
Black walnut	289	--	--	1	--	2	--	254	--	--	--	--	--	32
Sweetgum	1	--	--	--	--	--	--	1	--	--	--	--	--	--
Tupelo	11	--	--	--	--	--	--	11	--	--	--	--	--	--
Sycamore	358	--	--	--	--	1	--	357	--	--	--	--	--	--
Cottonwood	63	--	--	--	--	1	--	62	--	--	--	--	--	--
Black cherry	21	--	--	--	--	--	--	21	--	--	--	--	--	--
Red oaks	5,510	--	--	--	--	2	--	5,498	--	--	--	--	--	10
White oaks	3,508	--	--	--	--	7	--	3,488	--	--	--	--	--	13
Elm	17	--	--	--	--	*	--	17	--	--	--	--	--	--
Other hardwoods	1	--	--	--	--	--	--	1	--	--	--	--	--	--
Total	10,496	--	--	2	--	27	--	10,413	--	--	--	--	--	54
Unit total	10,990	--	--	2	--	27	--	10,907	--	--	--	--	--	54

(Table 6 continued on next page)

(Table 6 continued on next page)

(Table 6 continued)

PRAIRIE UNIT															
Species group	Total	State of destination											Other States	Other countries	
		Arkansas	Illinois	Indiana	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma	Tennessee	Wisconsin			
Softwoods															
Eastern redcedar	58	--	--	--	--	--	--	58	--	--	--	--	--	--	--
Shortleaf pine	17	--	--	--	--	--	--	17	--	--	--	--	--	--	--
Total	75	--	--	--	--	--	--	75	--	--	--	--	--	--	--
Hardwoods															
Soft maple	1,625	--	--	*	159	14	1	1,450	--	--	--	--	--	--	--
Hard maple	71	--	*	2	4	--	*	65	--	--	--	--	--	*	*
River birch	33	--	--	--	--	--	--	33	--	--	--	--	--	--	--
Hickory	984	--	--	3	20	--	1	952	--	--	--	--	--	2	8
Pecan	4	--	--	1	--	2	--	1	--	--	--	--	--	--	--
Hackberry	283	--	--	--	--	7	--	276	--	--	--	--	--	--	--
Ash	483	--	*	1	3	5	--	471	--	--	--	--	--	--	--
Honeylocust	23	--	--	--	--	--	--	23	--	--	--	--	--	--	2
Black walnut	3,544	--	1	13	8	4	--	2,358	7	--	--	--	--	--	1,154
Sweetgum	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--
Tupelo	18	--	--	--	18	--	--	*	--	--	--	--	--	*	--
Sycamore	1,295	--	--	--	8	50	--	1,237	--	--	--	--	--	*	--
Cottonwood	3,503	--	--	--	171	248	--	3,048	35	--	--	--	--	--	--
Black cherry	62	--	*	*	--	--	*	31	--	--	--	--	--	--	30
Red oaks	8,599	--	1	14	87	5	--	8,410	--	--	--	12	7	63	63
White oaks	5,379	--	*	35	99	21	--	5,061	--	--	--	--	6	156	156
Willow	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--
Basswood	66	--	--	--	*	--	--	66	--	--	--	--	--	--	--
Elm	222	--	--	*	28	1	--	192	--	--	--	--	*	--	--
Other hardwoods	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--
Total	26,197	--	3	69	606	356	1	23,679	42	--	--	12	15	1,413	1,413
Unit total	26,272	--	3	69	606	356	1	23,754	42	--	--	12	15	1,413	1,413

(Table 6 continued on next page)

(Table 6 continued on next page)

(Table 6 continued)

RIVERBORDER UNIT														
Species group	Total	State of destination												
		Arkansas	Illinois	Indiana	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma	Tennessee	Wisconsin	Other States	Other countries
Softwoods														
Eastern redcedar	650	--	--	--	--	--	--	650	--	--	--	--	--	--
Shortleaf pine	147	--	--	--	--	--	--	147	--	--	--	--	--	--
Cypress	1	1	--	--	--	--	--	--	--	--	--	--	--	--
Total	798	1	--	--	--	--	--	797	--	--	--	--	--	--
Hardwoods														
Soft maple	355	6	2	--	--	--	31	307	--	--	--	--	9	--
Hard maple	100	1	1	1	--	--	1	96	--	--	--	--	--	*
River birch	3	*	--	--	--	--	--	3	--	--	--	--	--	--
Hickory	536	3	7	--	--	--	--	519	--	--	--	--	--	7
Pecan	2	1	--	--	--	--	--	*	--	--	--	--	--	--
Hackberry	17	1	*	--	--	--	5	9	--	--	--	--	2	--
Persimmon	1	--	--	--	--	--	1	--	--	--	--	--	--	--
Ash	195	3	4	2	--	--	13	170	--	--	--	--	--	3
Honeylocust	6	--	--	--	--	--	4	--	--	--	--	--	2	--
Black walnut	562	--	108	--	--	--	7	358	--	--	--	--	--	90
Sweetgum	77	23	--	--	--	--	1	52	--	--	--	--	--	--
Yellow-poplar	147	--	--	2	--	--	23	121	--	--	--	--	--	--
Tupelo	17	--	--	--	--	--	*	17	--	--	--	--	--	--
Sycamore	330	2	1	--	--	--	9	316	--	--	--	--	2	--
Cottonwood	676	*	*	--	--	--	2	623	--	--	--	--	50	--
Black cherry	31	*	2	4	--	--	1	23	--	--	--	--	--	1
Red oaks	5,082	16	17	--	--	--	7	5,008	--	--	--	--	--	34
White oaks	4,807	16	103	19	--	--	8	4,466	--	--	--	--	--	194
Willow	305	--	--	--	--	--	55	--	--	--	--	--	250	--
Sassafras	1	--	--	--	--	--	--	1	--	--	--	--	--	--
Elm	17	*	1	*	--	--	1	14	--	--	--	--	--	--
Other hardwoods	*	--	--	--	--	--	--	*	--	--	--	--	--	--
Total	13,265	75	248	27	--	--	168	12,104	--	--	--	--	315	328
Unit total	14,063	75	248	27	--	--	168	12,901	--	--	--	--	315	328

* Less than 500 cubic feet.

Table may not sum due to rounding.

Table 7. -- Saw log receipts by Forest Survey Unit, species group, and State of origin, Missouri, 2003

(In thousand board feet) ¹

Species group	Total	ALL UNITS								State of origin			
		Arkansas	Illinois	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma	Tennessee			
Softwoods													
Eastern redcedar	7,552	1,706	--	--	--	--	5,846	--	--	--	--	--	--
Shortleaf pine	18,039	117	--	--	--	--	17,922	--	--	--	--	--	--
Cypress	152	52	--	--	--	--	100	--	--	--	--	--	--
Total	25,743	1,875	--	--	--	--	23,868	--	--	--	--	--	--
Hardwoods													
Soft maple	15,939	148	2,086	816	368	13	12,417	62	--	--	29	--	--
Hard maple	3,006	30	501	--	--	28	2,447	--	--	--	--	--	--
River birch	223	--	--	--	--	--	223	--	--	--	--	--	--
Hickory	25,773	469	454	48	--	--	24,783	--	--	--	19	--	--
Hackberry	2,124	46	3	55	40	--	1,969	11	--	--	--	--	--
Ash	6,627	88	625	102	51	--	5,736	18	--	--	7	--	--
Honeylocust	138	--	--	--	--	--	138	--	--	--	--	--	--
Black walnut	18,735	15	832	871	1,591	--	15,016	124	--	--	287	--	--
Sweetgum	1,502	146	180	--	--	--	1,176	--	--	--	--	--	--
Yellow-poplar	2,836	--	1,728	--	--	--	1,108	--	--	--	--	--	--
Tupelo	1,369	134	--	--	--	--	1,235	--	--	--	--	--	--
Sycamore	17,949	777	498	73	--	4	16,542	--	--	--	44	10	442
Cottonwood	30,600	383	3,146	482	--	203	25,944	--	--	--	--	--	--
Black cherry	937	--	145	--	--	--	792	--	--	--	--	--	--
Red oaks	359,595	5,283	9,651	1,118	179	3,326	339,074	39	--	--	362	564	376
White oaks	151,471	2,322	3,626	668	150	1,626	142,549	21	--	--	134	--	--
Sassafras	12	--	--	--	--	--	12	--	--	--	--	--	--
Basswood	429	--	--	--	33	--	385	11	--	--	--	--	--
Elm	1,731	31	11	8	--	--	1,682	--	--	--	--	--	--
Other hardwoods	7	--	--	--	--	--	7	--	--	--	--	--	--
Total	641,002	9,873	23,486	4,241	2,410	5,200	593,233	286	853	1,421	--	--	--
State total	666,745	11,748	23,486	4,241	2,410	5,200	617,100	286	853	1,421	--	--	--
(Table 7 continued on next page)													

(Table 7 continued on next page)

(Table 7 continued)

EASTERN OZARK UNIT									
Species group	Total	State of origin							
		Arkansas	Illinois	Iowa	Kansas	Kentucky	Missouri	Nebraska	Tennessee
Softwoods									
Eastern redcedar	1,171	19	--	--	--	--	1,152	--	--
Shortleaf pine	14,396	--	--	--	--	--	14,396	--	--
Cypress	100	--	--	--	--	--	100	--	--
Total	15,667	19	--	--	--	--	15,648	--	--
Hardwoods									
Soft maple	898	124	12	--	--	--	761	--	--
Hard maple	1,017	30	14	--	--	--	973	--	--
River birch	2	--	--	--	--	--	2	--	--
Hickory	13,847	386	60	--	--	--	13,400	--	--
Hackberry	176	46	--	--	--	--	130	--	--
Ash	838	26	14	--	--	--	798	--	--
Black walnut	629	1	--	--	--	--	628	--	--
Sweetgum	1,215	76	180	--	--	--	959	--	--
Yellow-poplar	257	--	32	--	--	--	225	--	--
Tupelo	1,034	30	--	--	--	--	1,004	--	--
Sycamore	4,858	743	12	--	--	--	4,103	--	--
Cottonwood	231	10	2	--	--	--	219	--	--
Black cherry	140	--	5	--	--	--	135	--	--
Red oaks	183,063	3,297	335	--	--	--	179,430	--	--
White oaks	68,151	1,815	336	--	--	--	66,001	--	--
Sassafras	12	--	--	--	--	--	12	--	--
Elm	312	31	--	--	--	--	281	--	--
Total	276,679	6,616	1,002	--	--	--	269,062	--	--
Unit total	292,347	6,635	1,002	--	--	--	284,710	--	--

SOUTHWESTERN OZARK UNIT										
Species group	Total	State of origin								
		Arkansas	Illinois	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma	Tennessee
Softwoods										
Eastern redcedar	4,810	1,687	--	--	--	--	3,123	--	--	--
Shortleaf pine	2,344	--	--	--	--	--	2,344	--	--	--
Cypress	52	52	--	--	--	--	--	--	--	--
Total	7,206	1,739	--	--	--	--	5,467	--	--	--
Hardwoods										
Soft maple	65	--	--	--	--	--	65	--	--	--
Hard maple	35	--	--	--	--	--	35	--	--	--
Hickory	2,096	83	--	--	--	--	1,994	--	19	--
Hackberry	100	--	--	--	--	--	100	--	--	--
Ash	551	62	--	--	--	--	482	--	7	--
Black walnut	785	14	--	--	--	--	760	--	11	--
Sweetgum	70	70	--	--	--	--	--	--	--	--
Tupelo	267	104	--	--	--	--	163	--	--	--
Sycamore	1,520	26	--	--	--	--	1,450	--	44	--
Cottonwood	38	--	--	--	--	--	38	--	--	--
Black cherry	194	--	--	--	--	--	194	--	--	--
Red oaks	68,460	1,986	--	--	--	--	66,112	--	362	--
White oaks	31,247	507	--	--	--	--	30,606	--	134	--
Elm	65	--	--	--	--	--	65	--	--	--
Total	105,492	2,852	--	--	--	--	102,063	--	577	--
Unit total	112,697	4,591	--	--	--	--	107,529	--	577	--
(Table 7 continued on next page)										

(Table 7 continued on next page)

(Table 7 continued)

NORTHWESTERN OZARK UNIT										
Species group	Total	State of origin								
		Arkansas	Illinois	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma	Tennessee
Softwoods										
Eastern redcedar	573	---	---	---	---	---	---	---	---	---
Shortleaf pine	480	---	---	---	---	---	---	---	---	---
Total	1,053	---	---	---	---	---	---	---	1,053	---
Hardwoods										
Soft maple	489	---	---	---	---	---	---	---	---	---
Hard maple	278	---	---	---	---	---	---	---	---	---
Hickory	1,658	---	---	---	---	---	---	---	---	---
Hackberry	11	---	---	---	---	---	---	---	---	---
Ash	223	---	---	---	---	---	---	---	---	---
Black walnut	592	---	---	---	---	---	---	---	---	---
Sweetgum	5	---	---	---	---	---	---	---	---	---
Tupelo	68	---	---	---	---	---	---	---	---	---
Sycamore	1,772	---	---	---	---	---	---	---	---	---
Cottonwood	40	---	---	---	---	---	---	---	---	---
Black cherry	47	---	---	---	---	---	---	---	---	---
Red oaks	19,608	---	---	---	---	---	---	---	---	---
White oaks	11,287	---	---	---	---	---	---	---	---	---
Elm	61	---	---	---	---	---	---	---	---	---
Other hardwoods	7	---	---	---	---	---	---	---	---	---
Total	36,147	---	---	---	---	---	---	---	---	---
Unit total	37,201	---	---	---	---	---	---	---	---	---

Species group		PRAIRIE UNIT									
		Total	Arkansas	Illinois	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma	Tennessee
Softwoods											
Eastern redcedar	163	--	--	--	--	--	--	--	163	--	--
Total	163	--	--	--	--	--	--	--	163	--	--
Hardwoods											
Soft maple	12,289	--	2,049	816	368	--	--	8,995	62	--	--
Hard maple	562	--	122	--	--	--	--	440	--	--	--
River birch	221	--	--	--	--	--	--	221	--	--	--
Hickory	6,150	--	230	48	--	--	--	5,872	--	--	--
Hackberry	1,835	--	3	55	40	--	--	1,726	11	--	--
Ash	3,838	--	226	102	51	--	--	3,441	18	--	--
Honeylocust	138	--	--	--	--	--	--	138	--	--	--
Black walnut	11,441	--	692	871	1,591	--	--	7,887	124	276	--
Sycamore	8,063	--	477	73	--	--	--	7,513	--	--	--
Cottonwood	25,295	--	2,753	482	--	--	--	22,060	--	--	--
Black cherry	203	--	--	--	--	--	--	203	--	--	--
Red oaks	52,813	--	3,826	1,118	179	--	--	47,651	39	--	--
White oaks	25,951	--	1,374	668	150	--	--	23,738	21	--	--
Basswood	429	--	--	--	33	--	--	385	11	--	--
Elm	1,205	--	11	8	--	--	--	1,186	--	--	--
Total	150,433	--	11,763	4,241	2,410	--	--	131,457	286	276	--
Unit total	150,596	--	11,763	4,241	2,410	--	--	131,620	286	276	--
(Table 7 continued on next page)											

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(Table 7 continued)

Species group		RIVERBORDER UNIT								
		State of origin								
Total	Arkansas	Illinois	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma	Tennessee	
Softwoods										
Eastern redcedar	835	--	--	--	--	--	835	--	--	--
Shortleaf pine	819	117	--	--	--	--	702	--	--	--
Total	1,654	117	--	--	--	--	1,537	--	--	--
Hardwoods										
Soft maple	2,198	24	25	--	--	13	2,107	--	--	29
Hard maple	1,114	--	365	--	--	28	721	--	--	--
Hickory	2,022	--	164	--	--	--	1,858	--	--	--
Hackberry	1	--	--	--	--	--	1	--	--	--
Ash	1,177	--	385	--	--	--	792	--	--	--
Black walnut	5,289	--	140	--	--	--	5,149	--	--	--
Sweetgum	213	--	--	--	--	--	213	--	--	--
Yellow-poplar	2,578	--	1,696	--	--	--	882	--	--	--
Sycamore	1,734	8	9	--	--	4	1,703	--	--	10
Cottonwood	4,996	373	391	--	--	203	3,587	--	--	442
Black cherry	353	--	140	--	--	--	213	--	--	--
Red oaks	35,652	--	5,490	--	--	3,326	26,272	--	--	564
White oaks	14,836	--	1,916	--	--	1,626	10,918	--	--	376
Elm	88	--	--	--	--	--	88	--	--	--
Total	72,251	405	10,721	--	--	5,200	54,504	--	--	1,421
Unit total	73,904	522	10,721	--	--	5,200	56,040	--	--	1,421

¹ International 1/4-inch rule.

Table may not sum due to rounding.

Table 8. -- Saw log production by Forest Survey Unit, county, and species group, Missouri, 2003

(In thousand board feet) ¹

Forest Survey Unit and county	Softwoods				Hardwoods									
	Eastern redcedar	Shortleaf pine	Cypress	Total softwoods	Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut
Eastern Ozark Unit														
Bollinger	30	33	--	63	86	278	--	755	--	1	--	169	--	43
Butler	--	2,482	100	2,582	38	22	--	354	--	--	2	70	--	15
Carter	30	2,121	--	2,151	1	32	--	794	--	--	--	--	--	6
Crawford	7	360	--	367	60	81	--	294	--	--	--	22	--	9
Dent	31	694	--	725	12	12	--	445	--	--	--	12	--	2
Iron	48	733	--	781	36	38	--	523	--	10	--	39	--	11
Madison	44	1,694	--	1,738	103	212	--	1,982	--	80	--	118	--	98
Oregon	--	640	--	640	105	--	--	1,209	--	3	--	86	--	16
Reynolds	60	1,806	--	1,866	92	24	--	1,290	--	--	--	69	--	--
Ripley	144	1,500	--	1,644	83	6	2	1,475	--	5	--	144	--	4
Shannon	79	799	--	878	--	--	--	712	--	--	--	18	--	2
St. Francois	42	176	--	218	--	9	--	257	--	--	--	15	--	9
Washington	331	739	--	1,070	64	100	--	644	--	--	--	30	--	9
Wayne	5	927	--	932	36	335	--	958	--	30	--	43	--	9
Total	851	14,703	100	15,654	718	1,148	2	11,692	--	128	2	836	--	233
Southwestern Ozark Unit														
Barry	110	--	--	110	30	4	--	245	--	--	--	110	--	351
Christian	189	--	--	189	22	22	--	64	--	22	--	125	--	116
Douglas	363	115	--	477	30	--	--	252	--	--	--	23	--	301
Howell	1	136	--	137	35	35	--	742	--	--	--	44	--	12
McDonald	--	--	--	--	9	5	--	325	--	100	--	99	--	130
Newton	--	--	--	--	18	--	--	246	2	5	--	97	--	225
Ozark	515	41	--	556	--	--	--	135	--	--	--	43	--	12
Stone	551	--	--	551	--	--	--	1	--	--	--	22	--	--
Taney	1,395	--	--	1,395	--	--	--	51	--	--	--	2	--	1
Texas	10	1,355	--	1,364	--	--	--	408	--	--	--	18	--	162
Webster	15	--	--	15	7	7	--	118	--	7	--	7	--	35
Wright	--	171	--	171	--	--	--	233	--	--	--	18	--	12
Total	3,147	1,816	--	4,963	151	73	--	2,820	2	134	--	607	--	1,355
Northwestern Ozark Unit														
Benton	8	--	--	8	--	--	--	140	--	--	--	--	--	41
Camden	268	--	--	268	14	14	--	361	--	1	--	1	--	65
Cedar	1	--	--	1	499	--	--	71	2	7	--	467	--	157
Dallas	--	--	--	--	--	--	--	21	--	1	--	1	--	61
Hickory	54	--	--	54	--	--	--	41	--	1	--	1	--	69
Laclede	112	70	--	182	--	--	--	77	--	*	--	50	--	17
Maries	45	--	--	45	529	108	--	361	--	--	--	154	--	73
Miller	112	--	--	112	21	--	--	149	--	--	--	12	--	29
Morgan	40	--	--	40	14	14	--	291	--	--	--	10	--	38
Phelps	36	75	--	111	130	50	--	175	--	--	--	75	--	80
Polk	9	--	--	9	21	7	--	7	2	13	--	14	--	340
Pulaski	32	270	--	302	80	100	--	157	--	--	--	--	--	121
St. Clair	2	--	--	2	52	--	--	9	2	7	--	7	--	112
Total	721	460	--	1,181	1,362	293	--	1,862	5	31	--	793	--	1,203

(Table 8 continued on next page)

(Table 8 continued)

Forest Survey Unit and county	Softwoods					Hardwoods									
	Eastern redcedar	Shortleaf pine	Cypress	Total softwoods	Total	Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut
Prairie Unit															
Adair	1	--	--	1	1	234	10	--	267	--	1	--	63	--	59
Andrew	--	--	--	--	--	243	--	--	--	--	40	--	73	--	666
Atchison	--	--	--	--	--	50	--	--	--	--	7	--	12	--	104
Audrain	--	--	--	--	--	142	--	2	192	--	17	--	25	--	1
Barton	--	--	--	--	--	494	--	--	80	2	5	--	486	--	70
Bates	--	--	--	--	--	14	--	--	34	2	5	--	5	--	248
Buchanan	--	--	--	--	--	346	--	--	--	--	59	--	108	--	938
Caldwell	--	--	--	--	--	285	--	--	134	--	92	--	76	28	174
Carroll	--	--	--	--	--	257	--	--	120	--	58	--	23	--	11
Charlton	--	--	--	--	--	412	--	72	263	--	91	--	83	--	640
Clark	1	--	--	1	1	280	7	--	150	--	--	--	97	--	108
Clinton	--	--	--	--	--	211	--	--	41	--	41	--	70	21	368
Cooper	--	--	--	--	--	115	6	2	71	--	16	--	17	--	1
Dade	--	--	--	--	--	86	--	--	72	2	5	--	77	--	290
Daviess	--	--	--	--	--	310	--	--	158	--	123	--	83	28	828
De Kalb	--	--	--	--	--	121	--	--	35	--	26	--	43	14	120
Gentry	--	--	--	--	--	22	--	--	7	--	7	--	8	--	587
Greene	72	100	--	172	172	72	72	--	122	--	72	--	73	--	954
Grundy	--	--	--	--	--	287	--	--	170	--	115	--	65	21	63
Harrison	--	--	--	--	--	144	--	--	65	--	91	--	44	--	181
Henry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	137
Holt	--	--	--	--	--	86	--	--	--	--	14	--	26	--	218
Jackson	--	--	--	--	--	1	--	--	1	--	--	--	1	--	23
Jasper	--	--	--	--	--	14	--	--	38	2	5	--	21	--	838
Johnson	--	--	--	--	--	--	--	--	--	--	35	--	14	--	--
Knox	*	--	--	*	*	248	19	--	276	--	18	--	90	--	62
Lafayette	--	--	--	--	--	--	--	--	--	--	35	--	14	--	--
Lawrence	36	--	--	36	36	89	36	--	99	2	41	--	89	--	1,573
Lewis	1	--	--	1	1	304	26	--	123	--	--	--	91	--	110
Lincoln	--	--	--	--	--	410	21	--	56	--	--	--	50	--	127
Linn	--	--	--	--	--	226	1	5	152	--	22	--	40	--	4
Livingston	--	--	--	--	--	402	--	--	243	--	139	--	79	28	758
Macon	5	--	--	5	5	161	10	--	414	--	36	--	34	--	664
Marion	--	--	--	--	--	192	25	--	70	--	--	--	36	--	33
Mercer	--	--	--	--	--	55	--	--	61	--	54	--	25	--	7
Monroe	--	--	--	--	--	171	16	17	324	--	83	--	33	--	7
Nodaway	--	--	--	--	--	102	--	--	--	--	8	--	25	--	145
Pettis	--	--	--	--	--	6	6	--	42	--	6	--	--	--	--
Pike	--	--	--	--	--	208	49	--	100	--	--	--	75	--	233
Platte	--	--	--	--	--	104	--	--	--	--	21	--	35	--	311
Putnam	--	--	--	--	--	139	4	--	132	--	--	--	33	--	--
Ralls	--	--	--	--	--	101	22	--	90	--	--	--	22	--	102
Randolph	--	--	--	--	--	741	10	103	626	--	190	--	189	--	725
Ray	--	--	--	--	--	41	--	--	25	--	37	--	30	--	11
Saline	--	--	--	--	--	83	--	--	34	--	18	--	8	--	638
Schuyler	*	--	--	*	*	267	10	--	74	--	*	--	58	--	30
Scotland	8	--	--	8	8	244	19	--	109	--	--	--	83	--	57
Shelby	2	--	--	2	2	200	15	--	269	--	17	--	51	--	643
Sullivan	--	--	--	--	--	208	4	--	155	--	21	--	7	--	--
Vernon	3	--	--	3	3	82	--	--	270	2	9	--	14	--	308
Worth	--	--	--	--	--	43	--	--	--	--	1	--	10	--	30
Total	130	100	--	230	230	9,054	387	203	5,764	10	1,682	--	2,815	138	14,206

(Table 8 continued on next page)

(Table 8 continued)

Forest Survey Unit and county	Softwoods					Hardwoods									
	Eastern redcedar	Shortleaf pine	Cypress	Total softwoods	Total	Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut
Riverborder Unit															
Boone	50	--	--	50	291	180	--	2	190	--	14	--	22	--	622
Callaway	291	--	--	291	68	68	8	--	64	--	--	--	25	--	114
Cape Girardeau	10	--	--	10	*	*	140	--	412	--	4	*	172	--	56
Cole	101	--	--	101	71	71	--	--	9	--	--	--	8	--	20
Dunklin	--	--	3	3	39	39	4	1	20	9	3	--	21	--	--
Franklin	8	123	--	130	83	83	116	--	239	--	--	1	61	--	18
Gasconade	143	75	--	218	102	102	12	--	45	--	--	--	12	--	168
Howard	--	--	--	--	374	374	--	16	171	--	34	--	56	--	673
Jefferson	153	349	--	502	10	10	24	--	546	--	1	--	10	--	2
Mississippi	--	--	--	--	6	6	--	--	--	--	--	--	--	--	--
Moniteau	84	--	--	84	2	2	--	--	6	--	5	--	7	--	10
Montgomery	48	--	--	48	69	69	3	--	32	--	--	--	41	--	39
New Madrid	--	--	--	--	11	11	--	--	8	--	--	--	4	--	--
Osage	50	--	--	50	469	469	*	--	87	--	--	--	90	--	65
Pemiscot	--	--	--	--	11	11	--	--	12	--	--	--	6	--	--
Perry	36	150	--	186	--	--	138	--	357	--	--	*	240	--	410
Scott	--	--	--	--	--	--	20	--	12	--	--	--	8	--	--
St. Charles	1	--	--	1	136	136	11	--	37	--	--	1	20	--	32
St. Louis	24	--	--	24	--	--	--	--	--	--	--	*	--	--	--
Ste. Genevieve	--	150	--	150	--	--	91	--	244	--	--	*	33	--	9
Stoddard	--	--	--	--	222	222	27	--	377	--	*	--	38	--	14
Warren	--	--	--	--	35	35	4	--	32	--	--	1	41	--	41
Total	996	847	3	1,846	1,887	1,887	598	20	2,900	9	62	3	914	--	2,294
State total	5,846	17,925	103	23,874	13,170	13,170	2,498	224	25,038	25	2,037	6	5,965	138	19,291

(Table 8 continued on next page)

(Table 8 continued)

Forest Survey Unit and county		Hardwoods												
		Sweetgum	Yellow- poplar	Tupelo	Sycamore	Cotton- wood	Black cherry	Red oaks	White oaks	Sassafras	Basswood	Elm	Other hardwoods	Total hardwoods
Eastern Ozark Unit														
Bollinger	196	93	1	60	13	48	5,987	3,297	2	--	23	--	11,053	11,116
Butler	242	--	1	32	94	--	5,571	2,112	--	--	7	--	8,561	11,143
Carter	--	--	30	32	--	--	11,936	4,101	--	--	--	--	16,932	19,083
Crawford	--	18	--	481	--	9	7,892	3,355	--	--	--	--	12,221	12,588
Dent	--	--	56	106	--	78	14,822	4,642	--	--	26	--	20,213	20,938
Iron	10	10	140	106	--	10	19,244	3,299	--	--	10	--	23,486	24,267
Madison	317	157	25	769	--	104	17,974	8,750	--	--	140	--	30,828	32,566
Oregon	3	--	60	768	10	19	15,916	6,029	8	--	2	--	24,233	24,873
Reynolds	2	--	335	5	--	--	24,120	5,008	--	--	*	--	30,945	32,811
Ripley	39	--	1	214	71	3	9,311	4,597	--	--	91	--	16,045	17,689
Shannon	--	--	62	75	--	--	16,208	5,838	--	--	--	--	22,914	23,792
St. Francois	12	9	6	29	--	--	1,200	636	--	--	8	--	2,190	2,408
Washington	--	18	23	265	--	9	13,699	5,894	--	--	11	--	20,765	21,835
Wayne	36	100	43	277	30	9	9,241	4,100	--	--	3	--	15,249	16,182
Total	857	405	783	3,218	218	288	173,120	61,659	9	--	321	--	255,637	271,291
Southwestern Ozark Unit														
Barry	7	7	7	240	--	--	4,268	2,337	--	--	--	--	7,605	7,715
Christian	--	--	--	45	--	22	1,362	454	--	--	--	--	2,252	2,441
Douglas	--	--	113	174	--	--	8,288	3,226	--	--	--	--	12,408	12,885
Howell	--	--	78	662	--	35	15,819	5,445	--	--	--	--	22,905	23,042
McDonald	9	9	9	470	--	--	5,241	2,881	--	--	--	--	9,287	9,287
Newton	--	--	--	357	2	12	4,131	2,101	--	--	1	--	7,197	7,197
Ozark	--	--	18	38	38	--	5,071	1,592	--	--	7	--	6,951	7,507
Stone	--	--	--	44	--	--	506	227	--	--	--	--	800	1,351
Taney	--	--	--	32	--	--	1,216	461	--	--	7	--	1,770	3,165
Texas	--	--	38	--	--	--	11,846	6,123	--	--	--	--	18,594	19,958
Webster	--	--	--	13	--	7	1,260	423	--	--	--	--	1,885	1,900
Wright	--	--	38	--	--	--	3,212	1,464	--	--	--	--	4,976	5,146
Total	16	16	298	2,076	40	76	62,220	26,734	--	--	14	--	96,630	101,593
Northwestern Ozark Unit														
Benton	--	--	20	40	20	20	1,223	1,302	--	--	--	--	2,806	2,814
Camden	1	--	34	181	20	98	4,127	2,770	--	--	27	--	7,716	7,984
Cedar	--	--	--	74	67	1	1,845	558	--	--	2	1	3,752	3,753
Dallas	1	--	--	1	--	--	533	233	--	--	1	--	855	855
Hickory	1	--	--	1	--	--	96	127	--	--	1	--	340	394
Laclede	*	--	--	100	--	--	2,857	1,519	--	--	*	--	4,622	4,804
Maries	--	--	--	565	308	--	4,327	2,884	--	--	58	--	9,367	9,460
Miller	--	--	--	140	19	--	1,879	1,144	--	--	10	--	3,404	3,516
Morgan	--	--	14	116	--	--	1,940	1,213	--	--	--	--	3,650	3,690
Phelps	--	--	--	535	--	--	6,526	3,487	--	--	--	--	11,058	11,169
Polk	*	--	--	12	2	7	207	149	--	--	1	--	783	791
Pulaski	--	--	--	404	6	--	5,223	2,279	--	--	--	--	8,370	8,672
St. Clair	--	--	--	4	2	2	153	93	--	--	3	2	448	451
Total	5	--	68	2,174	444	129	30,938	17,759	--	--	104	3	57,171	58,352

(Table 8 continued on next page)

(Table 8 continued)

Forest Survey Unit and county	Hardwoods												All species	
	Sweetgum	Yellow- poplar	Tupelo	Sycamore	Cotton- wood	Black cherry	Red oaks	White oaks	Sassafras	Basswood	Elm	Other hardwoods		Total hardwoods
Prairie Unit														
Adair	--	--	--	110	781	--	1,267	986	--	--	35	--	3,814	3,815
Andrew	--	--	--	117	599	--	229	168	--	69	--	--	2,204	2,204
Atchison	--	--	--	73	621	--	46	37	--	11	--	--	961	961
Audrain	--	--	--	191	265	--	2,140	505	--	--	18	--	3,498	3,498
Barton	--	--	--	82	86	--	1,804	614	--	--	1	--	3,720	3,720
Bates	--	--	--	27	5	--	57	40	--	--	1	--	440	440
Buchanan	--	--	--	174	726	--	333	243	--	104	--	--	3,030	3,030
Caldwell	--	--	--	166	825	4	428	261	--	8	41	--	2,523	2,523
Carroll	--	--	--	347	817	4	592	360	--	--	55	--	2,644	2,644
Chariton	--	--	--	417	934	7	2,307	730	--	--	47	--	6,004	6,004
Clark	--	--	--	65	653	--	1,117	797	--	1	25	--	3,298	3,300
Clinton	--	--	--	80	128	--	222	161	--	35	12	--	1,392	1,392
Cooper	--	--	--	101	86	--	322	301	--	--	24	--	1,062	1,062
Dade	--	--	--	74	62	--	1,312	593	--	1	--	--	2,574	2,574
Davies	--	--	--	218	1,426	7	734	479	--	23	61	--	4,477	4,477
De Kalb	--	--	--	59	153	--	142	164	--	7	8	--	893	893
Gentry	--	--	--	14	131	2	99	55	--	--	--	--	933	933
Greene	--	--	--	73	--	99	1,092	637	--	--	--	--	3,265	3,437
Grundy	--	--	--	203	1,390	4	670	385	--	17	72	--	3,461	3,461
Harrison	--	--	--	91	1,110	4	490	308	--	17	44	--	2,588	2,588
Henry	--	--	--	--	--	--	--	--	--	--	--	--	137	137
Holt	--	--	--	80	645	--	84	55	--	25	--	--	1,233	1,233
Jackson	--	--	--	10	11	9	23	21	--	--	--	--	101	101
Jasper	--	--	--	115	2	39	1,329	665	--	--	1	--	3,070	3,070
Johnson	--	--	--	207	173	--	173	69	--	--	21	--	690	690
Knox	--	--	--	142	639	--	1,476	1,122	--	--	41	--	4,134	4,134
Lafayette	--	--	--	207	173	*	173	69	--	--	21	--	690	690
Lawrence	--	--	--	116	2	75	3,389	1,890	--	--	1	--	7,401	7,437
Lewis	--	--	--	58	391	--	948	691	--	--	25	--	2,767	2,768
Lincoln	--	--	--	142	417	1	963	743	--	--	--	--	2,930	2,930
Linn	--	--	--	187	715	4	545	319	--	--	39	--	2,259	2,259
Livingston	--	--	--	537	1,942	7	1,208	583	--	17	123	--	6,065	6,065
Macon	--	--	--	274	1,022	7	3,115	1,473	--	--	57	--	7,266	7,271
Marion	--	--	--	21	65	--	563	457	--	--	8	--	1,470	1,470
Mercer	--	--	--	70	629	--	322	167	--	8	36	--	1,434	1,434
Monroe	--	--	--	504	467	--	2,746	1,398	--	--	70	--	5,836	5,836
Nodaway	--	--	--	4	--	--	63	39	--	11	--	--	398	398
Pettis	--	--	--	33	6	--	257	290	--	--	--	--	646	646
Pike	--	--	--	293	360	1	2,087	716	--	--	3	--	4,124	4,124
Platte	--	--	--	99	522	--	104	79	--	35	--	--	1,307	1,307
Putnam	--	--	--	75	549	--	451	312	--	--	28	--	1,724	1,724
Ralls	--	--	1	135	163	--	923	398	--	--	8	--	1,965	1,965
Randolph	--	--	--	838	941	7	6,774	2,133	--	--	91	--	13,369	13,369
Ray	--	--	--	160	489	4	259	141	--	--	17	--	1,214	1,214
Saline	--	--	--	214	329	7	320	152	--	--	11	--	1,815	1,815
Schuyler	--	--	--	43	387	--	557	260	--	--	17	--	1,704	1,704
Scotland	--	--	--	55	469	--	795	455	--	--	23	--	2,312	2,320
Shelby	--	--	--	201	692	2	2,023	1,189	--	1	66	--	5,369	5,371
Sullivan	--	--	--	86	536	--	410	406	--	--	18	--	1,849	1,849
Vernon	--	--	--	46	22	3	409	180	--	--	4	3	1,352	1,355
Worth	--	--	--	--	--	--	19	7	--	--	--	--	110	110
Total	--	--	1	7,633	23,554	299	47,911	24,303	--	388	1,173	3	139,524	139,754

Table 8 (continued on next page)

(Table 8 continued on next page)

(Table 8 continued)

Forest Survey Unit and county	Hardwoods											All species		
	Sweetgum	Yellow- poplar	Tupelo	Sycamore	Cotton- wood	Black cherry	Red oaks	White oaks	Sassafras	Basswood	Elm		Other hardwoods	Total hardwoods
Riverborder Unit														
Boone	--	--	--	201	414	2	1,983	965	--	--	12	--	4,609	4,658
Callaway	--	--	--	133	491	--	1,389	507	--	--	8	--	2,805	3,095
Cape Girardeau	33	277	60	--	3	33	3,497	2,004	3	--	2	--	6,698	6,708
Cole	--	--	--	81	89	--	705	282	--	--	--	--	1,265	1,365
Dunklin	143	--	--	13	1	*	92	92	--	--	1	--	440	444
Franklin	--	--	--	212	184	--	2,419	2,260	--	--	15	--	5,609	5,739
Gasconade	--	--	--	233	883	--	3,203	964	--	--	8	--	5,628	5,846
Howard	--	--	--	395	442	7	2,311	553	--	--	12	--	5,042	5,042
Jefferson	4	7	20	48	1	2	3,265	1,190	--	--	15	--	5,144	5,646
Mississippi	--	--	--	1	86	--	--	--	--	--	--	--	93	93
Moniteau	--	--	--	39	16	--	511	399	--	--	5	--	1,001	1,085
Montgomery	--	--	--	--	83	*	635	229	--	--	--	--	1,132	1,179
New Madrid ¹	1	--	4	19	173	--	4	6	--	--	--	--	229	229
Osage	--	--	--	153	339	--	1,278	1,298	--	--	--	--	3,777	3,827
Pemiscot	--	--	6	25	173	--	6	9	--	--	--	--	248	248
Perry	9	416	10	41	--	97	2,942	1,823	--	--	8	--	6,492	6,678
Scott	1	76	--	--	--	*	347	81	--	--	--	--	544	544
St. Charles	--	--	--	2	417	--	238	116	--	--	*	--	1,008	1,009
St. Louis	--	--	--	--	--	--	40	60	--	--	--	--	100	124
Ste. Genevieve	8	21	5	59	--	15	1,846	1,086	--	--	8	--	3,426	3,576
Stoddard	265	68	--	161	1	*	897	545	*	--	*	--	2,617	2,617
Warren	--	--	--	--	414	1	301	254	--	--	*	--	1,124	1,124
Total	462	865	105	1,816	4,209	159	27,908	14,723	3	--	94	--	59,031	60,877
State total	1,340	1,285	1,256	16,917	28,464	951	342,098	145,177	12	388	1,706	7	607,993	631,867

* Less than 500 board feet.

¹ International 1/4-inch rule.

Table may not sum due to rounding.

Table 9. -- Saw log production by Forest Survey Unit, species group, and State of destination, Missouri, 2003

(In thousand board feet) ¹

Species group	Total	ALL UNITS										Other countries	
		State of destination											
Softwoods													
Eastern redcedar	5,846	--	--	--	--	--	--	--	--	--	--	--	--
Shortleaf pine	17,925	3	--	--	--	--	--	--	--	--	--	--	--
Cypress	103	3	--	--	--	--	--	--	--	--	--	--	--
Total	23,874	7	--	--	--	--	--	--	--	--	--	--	--
Hardwoods													
Soft maple	13,170	55	14	504	143	37	12,417	--	--	--	--	--	--
Hard maple	2,498	13	6	--	--	32	2,447	--	--	--	--	--	1
River birch	224	1	--	--	--	--	223	--	--	--	--	--	--
Hickory	25,038	29	84	66	--	28	24,783	--	--	34	--	--	14
Pecan	25	9	--	--	16	--	--	--	--	--	--	--	--
Hackberry	2,037	3	3	--	63	--	1,969	--	--	--	--	--	--
Persimmon	6	--	--	--	--	6	--	--	--	--	--	--	--
Ash	5,965	30	39	19	53	46	5,736	--	--	34	--	--	8
Honeylocust	138	--	--	--	--	--	138	--	--	--	--	--	--
Black walnut	19,291	--	319	36	32	35	15,016	40	--	32	--	--	3,782
Sweetgum	1,340	158	--	--	--	6	1,176	--	--	--	--	--	--
Yellow-poplar	1,285	16	--	--	--	162	1,108	--	--	--	--	--	--
Tupelo	1,256	16	--	--	--	6	1,235	--	--	--	--	--	--
Sycamore	16,917	13	14	--	311	--	16,542	--	--	37	--	--	--
Cottonwood	28,464	1	3	501	1,765	--	25,944	250	--	--	--	--	--
Black cherry	951	*	13	--	--	23	792	--	--	--	--	--	123
Red oaks	342,098	699	631	420	42	454	339,074	--	--	410	--	--	368
White oaks	145,177	468	110	460	172	79	142,549	--	--	137	--	--	1,203
Sassafras	12	--	--	--	--	--	12	--	--	--	--	--	--
Basswood	388	--	--	3	--	--	385	--	--	--	--	--	--
Elm	1,706	1	14	--	10	--	1,682	--	--	--	--	--	--
Other hardwoods	7	--	--	--	--	--	7	--	--	--	--	--	--
Total	607,993	1,513	1,248	2,008	2,607	911	593,233	290	684	5,500			
State total	631,867	1,519	1,248	2,008	2,607	911	617,100	290	684	5,500			

(Table 9 continued on next page)

(Table 9 continued)

		EASTERN OZARK UNIT											Other countries
		State of destination											
Species group	Total	Arkansas	Illinois	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma				
Softwoods													
Eastern redcedar	851	--	--	--	--	--	851	--	--	--	--		
Shortleaf pine	14,703	3	--	--	--	--	14,700	--	--	--	--		
Cypress	100	--	--	--	--	--	100	--	--	--	--		
Total	15,654	3	--	--	--	--	15,651	--	--	--	--		
Hardwoods													
Soft maple	718	--	3	--	--	7	708	--	--	--	--		
Hard maple	1,148	--	--	--	--	26	1,122	--	--	--	--		
River birch	2	--	--	--	--	--	2	--	--	--	--		
Hickory	11,692	--	41	--	--	28	11,623	--	--	--	--		
Hackberry	128	--	--	--	--	--	128	--	--	--	--		
Persimmon	2	--	--	--	--	2	--	--	--	--	--		
Ash	836	--	11	--	--	24	801	--	--	--	--		
Black walnut	233	--	--	--	--	4	228	--	--	--	--		
Sweetgum	857	--	--	--	--	4	854	--	--	--	--		
Yellow-poplar	405	--	--	--	--	32	372	--	--	--	--		
Tupelo	783	--	--	--	--	5	778	--	--	--	--		
Sycamore	3,218	--	7	--	--	--	3,211	--	--	--	--		
Cottonwood	218	--	--	--	--	--	218	--	--	--	--		
Black cherry	288	--	--	--	--	17	272	--	--	--	--		
Red oaks	173,120	92	529	--	--	435	172,065	--	--	--	--		
White oaks	61,659	92	41	--	--	79	61,368	--	--	--	79		
Sassafras	9	--	--	--	--	--	9	--	--	--	--		
Elm	321	--	6	--	--	--	315	--	--	--	--		
Total	255,637	184	638	--	--	663	254,073	--	--	--	79		
Unit total	271,291	187	638	--	--	663	269,724	--	--	--	79		
												(Table 9 continued on next page)	

(Table 9 continued on next page)

(Table 9 continued)

SOUTHWESTERN OZARK UNIT									
		State of destination							
Species group	Total	Arkansas	Illinois	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma
Softwoods									
Eastern redcedar	3,147	--	--	--	--	--	3,147	--	--
Shortleaf pine	1,816	--	--	--	--	--	1,816	--	--
Total	4,963	--	--	--	--	--	4,963	--	--
Hardwoods									
Soft maple	151	16	--	--	14	--	121	--	--
Hard maple	73	9	--	--	--	--	64	--	--
Hickory	2,820	9	--	--	--	--	2,777	--	34
Pecan	2	--	--	--	2	--	--	--	--
Hackberry	134	--	--	--	5	--	129	--	--
Ash	607	9	--	--	5	--	559	--	34
Black walnut	1,355	--	--	--	3	--	1,287	10	32
Sweetgum	16	16	--	--	--	--	--	--	--
Yellow-poplar	16	16	--	--	--	--	--	--	--
Tupelo	298	16	--	--	--	--	283	--	--
Sycamore	2,076	--	--	--	2	--	2,037	--	37
Cottonwood	40	--	--	--	2	--	38	--	--
Black cherry	76	--	--	--	--	--	67	--	9
Red oaks	62,220	515	--	--	4	--	61,290	--	410
White oaks	26,734	284	--	--	14	--	26,299	--	137
Elm	14	--	--	--	1	--	13	--	--
Total	96,630	889	--	--	53	--	94,963	10	684
Unit total	101,593	889	--	--	53	--	99,926	10	684
(Table 9 continued on next page)									

(Table 9 continued on next page)

(Table 9 continued)

NORTHWESTERN OZARK UNIT										
		State of destination								
Species group	Total	Arkansas	Illinois	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma	Other countries
Softwoods										
Eastern redcedar	721	--	--	--	--	--	721	--	--	--
Shortleaf pine	460	--	--	--	--	--	460	--	--	--
Total	1,181	--	--	--	--	--	1,181	--	--	--
Hardwoods										
Soft maple	1,362	--	--	--	43	--	1,319	--	--	--
Hard maple	293	--	--	--	--	--	293	--	--	--
Hickory	1,862	--	--	--	--	--	1,862	--	--	--
Pecan	5	--	--	--	5	--	--	--	--	--
Hackberry	31	--	--	--	16	--	15	--	--	--
Ash	793	--	--	--	16	--	777	--	--	--
Black walnut	1,203	--	--	--	10	--	1,152	--	--	41
Sweetgum	5	--	--	--	--	--	5	--	--	--
Tupelo	68	--	--	--	--	--	68	--	--	--
Sycamore	2,174	--	--	--	7	--	2,168	--	--	--
Cottonwood	444	--	--	--	6	--	437	--	--	--
Black cherry	129	--	--	--	--	--	129	--	--	--
Red oaks	30,938	--	--	--	13	--	30,870	--	--	55
White oaks	17,759	--	--	--	41	--	17,662	--	--	55
Elm	104	--	--	--	3	--	101	--	--	--
Other hardwoods	3	--	--	--	--	--	3	--	--	--
Total	57,171	--	--	--	159	--	56,860	--	--	152
Unit total	58,352	--	--	--	159	--	58,041	--	--	152
(Table 9 continued on next page)										

(Table 9 continued on next page)

(Table 9 continued)

Species group	Total	State of destination								Other countries
		Arkansas	Illinois	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma	
Softwoods										
Eastern redcedar	130	--	--	--	--	--	130	--	--	--
Shortleaf pine	100	--	--	--	--	--	100	--	--	--
Total	230	--	--	--	--	--	230	--	--	--
Hardwoods										
Soft maple	9,054	--	--	504	86	--	8,464	--	--	--
Hard maple	387	--	1	--	--	--	386	--	--	--
River birch	203	--	--	--	--	--	203	--	--	--
Hickory	5,764	--	--	66	--	--	5,698	--	--	--
Pecan	10	--	--	--	10	--	--	--	--	--
Hackberry	1,682	--	--	--	41	--	1,641	--	--	--
Ash	2,815	--	1	19	32	--	2,762	--	--	--
Honeylocust	138	--	--	--	--	--	138	--	--	--
Black walnut	14,206	--	6	36	19	--	10,715	30	--	3,401
Tupelo	1	--	--	--	--	--	1	--	--	--
Sycamore	7,633	--	--	--	302	--	7,331	--	--	--
Cottonwood	23,554	--	--	501	1,757	--	21,046	250	--	--
Black cherry	299	--	*	--	--	--	185	--	--	114
Red oaks	47,911	--	6	420	25	--	47,239	--	--	221
White oaks	24,303	--	2	460	117	--	23,300	--	--	425
Basswood	388	--	--	3	--	--	385	--	--	--
Elm	1,173	--	--	--	6	--	1,167	--	--	--
Other hardwoods	3	--	--	--	--	--	3	--	--	--
Total	139,524	--	17	2,008	2,395	--	130,664	280	--	4,160
Unit total	139,754	--	17	2,008	2,395	--	130,894	280	--	4,160

(Table 9 continued on next page)

(Table 9 continued)

RIVERBORDER UNIT											Other countries
Species group	Total	State of destination									
		Arkansas	Illinois	Iowa	Kansas	Kentucky	Missouri	Nebraska	Oklahoma		
Softwoods											
Eastern redcedar	996	--	--	--	--	--	996	--	--	--	
Shortleaf pine	847	--	--	--	--	--	847	--	--	--	
Cypress	3	3	--	--	--	--	--	--	--	--	
Total	1,846	3	--	--	--	--	1,843	--	--	--	
Hardwoods											
Soft maple	1,887	39	11	--	--	31	1,806	--	--	--	
Hard maple	598	4	5	--	--	5	582	--	--	1	
River birch	20	1	--	--	--	--	18	--	--	--	
Hickory	2,900	20	43	--	--	--	2,823	--	--	14	
Pecan	9	9	--	--	--	--	--	--	--	--	
Hackberry	62	3	3	--	--	--	56	--	--	--	
Persimmon	3	--	--	--	--	3	--	--	--	--	
Ash	914	21	27	--	--	21	837	--	--	8	
Black walnut	2,294	--	313	--	--	30	1,634	--	--	317	
Sweetgum	462	143	--	--	--	2	318	--	--	--	
Yellow-poplar	865	--	--	--	--	129	735	--	--	--	
Tupelo	105	--	--	--	--	*	105	--	--	--	
Sycamore	1,816	13	7	--	--	--	1,796	--	--	--	
Cottonwood	4,209	1	3	--	--	--	4,205	--	--	--	
Black cherry	159	*	13	--	--	7	140	--	--	--	
Red oaks	27,908	92	96	--	--	19	27,609	--	--	92	
White oaks	14,723	92	66	--	--	--	13,920	--	--	644	
Sassafras	3	--	--	--	--	--	3	--	--	--	
Elm	94	1	8	--	--	--	85	--	--	--	
Total	59,031	440	593	--	--	248	56,673	--	--	1,077	
Unit total	60,877	444	593	--	--	248	58,515	--	--	1,077	

* Less than 500 board feet.

¹ International 1/4-inch rule.

Table may not sum due to rounding.

Table 10. -- Pulpwood production by species group and Forest Survey Unit, Missouri, 2003
(In standard cords) ¹

Species group	All Units	Forest Survey Unit			
		Eastern Ozark Unit	Southwestern Ozark Unit	Prairie Unit	Riverborder Unit
Shorleaf pine	2,406	2,406	--	--	--
Soft maple	2,209	131	16	1,497	565
Hard maple	948	762	139	47	--
Hickory	9,174	7,064	1,977	132	--
Hackberry	103	13	--	--	90
Ash	328	210	8	--	110
Honeylocust	109	39	--	--	70
Sweetgum	52	48	--	--	4
Yellow-poplar	20	20	--	--	--
Tupelo	1,278	855	197	227	--
Sycamore	1,298	702	94	265	236
Cottonwood	3,059	45	17	2,129	869
Red oaks	32,779	24,582	7,950	247	--
White oaks	31,697	23,830	7,471	302	93
Willow	3,857	--	--	--	3,857
Elm	1,246	704	170	358	14
Total	90,563	61,411	18,039	5,204	5,910

¹ Standard cords are 128 cubic feet consisting of 79 cubic feet of wood and 49 cubic feet of bark and air space.

Table may not sum due to rounding.

Table 11. -- White oak cooperage production by Forest Survey Unit, Missouri, 2000 and 2003
(In thousand board feet) ¹

Forest Survey Unit	2000	2003	Change	Percent change
Eastern Ozark Unit	8,055	7,875	-180	-2.2%
Southwestern Ozark Unit	4,201	3,727	-474	-11.3%
Northwestern Ozark Unit	3,460	1,850	-1,610	-46.5%
Prairie Unit	2,863	4,984	2,121	74.1%
Riverborder Unit	1,235	11,595	10,360	838.9%
State total	19,813	30,031	10,218	51.6%

¹ International 1/4-inch rule.

Table may not sum due to rounding.

Table 12. -- Veneer log production by species group and Forest Survey Unit, Missouri, 2003
(In thousand board feet) ¹

Species group	All Units	Forest Survey Unit			
		Eastern Ozark Unit	Southwestern Ozark Unit	Northwestern Ozark Unit	Prairie Unit Riverborder Unit
Eastern redcedar	5	--	--	*	4 --
Soft maple	4	--	--	--	4 --
Hard maple	54	32	--	1	15 6
Hickory	177	*	1	--	46 130
Pecan	13	3	--	2	8 --
Hackberry	4	--	--	*	3 --
Ash	140	--	9	*	14 117
Black walnut	2,476	*	99	114	1,987 277
Sweetgum	4	--	--	*	3 *
Yellow-poplar	24	5	--	--	-- 19
Tupelo	*	*	--	--	-- *
Sycamore	13	*	1	--	11 --
Black cherry	126	46	5	--	53 22
Red oaks	731	2	57	*	221 451
White oaks	2,116	15	6	45	905 1,146
Elm	1	1	*	--	* *
Total	5,889	104	178	163	3,276 2,168

* Less than 500 board feet.

¹ International 1/4-inch rule.

Table may not sum due to rounding.

Table 13. -- Charcoal production by species group and Forest Survey Unit, Missouri, 2003

(In standard cords) ¹

Species group	All Units	Forest Survey Unit			
		Eastern Ozark Unit	Southwestern Ozark Unit	Northwestern Ozark Unit	Prairie Unit Riverborder Unit
Hard maple	2	--	--	*	1 *
Hickory	15	--	--	3	9 3
Pecan	10	--	--	2	6 2
Black cherry	8	--	--	2	5 2
Red oaks	5,051	3,701	1,350	--	-- --
White oaks	3,451	2,501	950	--	-- --
Other hardwoods	15	--	--	3	9 3
Total	8,553	6,203	2,300	10	30 10

* Less than 1/2 standard cord.

¹ Standard cords are 128 cubic feet consisting of 79 cubic feet of wood and 49 cubic feet of bark and air space.

Table may not sum due to rounding.

Table 14. -- Handle bolt production by species group and Forest Survey Unit, Missouri, 2003

(In thousand board feet) ¹

Species group	All Units	Forest Survey Unit		
		Eastern Ozark Unit	Prairie Unit	Riverborder Unit
Hickory	433	185	69	179
Ash	825	698	69	58
Total	1,258	883	138	237

¹ International 1/4-inch rule.

Table may not sum due to rounding.

Table 15. -- Post production by species group and Forest Survey Unit, Missouri, 2003

(In thousand pieces)

Species group	All Units	Forest Survey Unit		
		Eastern Ozark Unit	Southwestern Ozark Unit	Northwestern Ozark Unit
Shortleaf pine	1,440	732	704	5
Red oaks	5	--	5	--
White oaks	53	--	3	50
Total	1,498	732	711	55

Table may not sum due to rounding.

Table 16. -- Wood material harvested for industrial roundwood by species group and source of material, Missouri, 2003¹
(In thousand cubic feet)

Species group	Source of material												
	Growing stock				Non-growing stock								
	Used for products			Logging residue (not used)	Used for products				Logging slash (not used)	Total non-growing stock			Total wood material not used
	Sawtimber	Pole-timber	Timber		Limewood	Saplings	Cull trees	Dead trees		Stock	growing	stock	
Softwoods													
Eastern redcedar	1,093.8	890.0	237.9	2,221.7	82.6	5.9	287.2	3.5	--	1,119.0	1,478.2	2,343.1	1,356.8
Shortleaf pine	3,413.3	705.9	404.5	4,523.8	57.4	290.9	33.0	59.1	--	1,884.1	2,324.5	4,559.6	2,288.6
Cypress	17.3	0.2	2.2	19.7	0.3	--	0.1	--	--	10.1	10.6	18.0	12.4
Total	4,524.4	1,596.1	644.6	6,765.2	140.3	296.8	300.4	62.6	--	3,013.2	3,813.3	6,920.7	3,657.8
Hardwoods													
Soft maple	1,717.7	111.0	682.1	2,510.9	47.2	4.7	158.9	1.9	317.4	1,873.5	2,403.7	2,358.9	2,555.7
Hard maple	369.3	12.1	132.3	513.8	17.0	0.2	39.4	0.5	60.2	359.1	476.3	498.8	491.4
River birch	28.0	0.6	11.5	40.2	0.4	--	2.5	--	5.4	31.7	40.0	36.9	43.2
Hickory	3,664.2	119.6	1,372.0	5,155.8	167.3	0.4	402.3	4.7	603.5	3,595.9	4,774.0	4,961.9	4,967.9
Pecan	6.2	0.2	1.5	8.0	0.1	0.0	0.7	0.0	0.6	3.8	5.2	7.9	5.3
Hackberry	264.9	6.5	105.7	377.1	4.9	--	23.9	0.1	49.1	288.8	366.8	349.3	394.6
Persimmon	0.7	0.0	0.3	1.0	0.0	--	0.1	--	0.1	0.8	1.0	0.9	1.1
Ash	889.5	45.4	410.1	1,344.9	14.6	--	84.4	0.2	143.8	855.9	1,098.9	1,177.8	1,266.0
Honeylocust	22.6	0.7	7.4	30.8	1.7	--	2.9	0.1	3.3	20.1	28.1	31.4	27.5
Black walnut	1,989.5	3.1	297.5	2,290.2	0.9	--	2,029.8	--	741.9	979.3	3,751.8	4,765.2	1,276.8
Sweetgum	170.9	3.9	69.2	244.1	3.0	--	15.5	0.0	32.3	189.7	240.5	225.7	258.9
Yellow-poplar	167.1	3.7	66.7	237.4	2.5	--	14.5	0.0	31.0	182.0	230.0	218.7	248.7
Tupelo	211.4	18.3	67.8	297.5	18.7	0.8	27.8	0.8	30.3	184.4	262.6	307.9	252.2
Sycamore	2,198.8	61.6	877.2	3,137.6	45.8	0.5	202.6	0.7	407.7	2,399.3	3,056.7	2,917.8	3,276.5
Cottonwood	3,754.9	102.9	653.9	4,511.7	336.1	6.5	80.2	2.7	--	2,180.4	2,605.8	4,283.2	2,834.4
Black cherry	147.7	2.8	51.3	201.8	1.6	0.0	10.9	0.0	23.0	136.5	172.0	186.0	187.7
Red oaks	51,811.6	1,550.6	12,842.5	66,204.8	1,320.2	2.2	8,110.3	1,215.4	22.5	31,975.8	42,646.3	64,032.8	44,818.3
White oaks	27,772.8	745.2	6,740.9	35,258.9	825.0	3.0	4,176.9	525.4	18.8	13,983.0	19,532.1	34,067.0	20,723.9
Willow	191.2	12.2	11.8	215.1	52.5	--	49.4	1.9	--	21.4	125.1	307.1	33.2
Sassafras	1.5	0.0	0.6	2.2	0.0	--	0.1	--	0.3	1.7	2.2	2.0	2.3
Basswood	50.6	1.3	20.2	72.1	0.7	--	4.3	--	9.3	54.9	69.3	66.2	75.1
Elm	261.4	25.7	90.5	377.6	18.5	1.2	30.9	0.8	41.1	247.8	340.2	379.6	338.3
Other hardwoods	0.9	0.0	0.4	1.2	0.1	0.0	1.0	0.0	0.2	3.9	5.2	2.2	4.3
Total	95,693.6	2,827.4	24,513.7	123,034.6	2,878.5	19.4	15,469.2	1,755.1	2,541.8	59,569.7	82,233.7	121,185.1	84,083.3
State total	100,218.0	4,423.5	25,158.3	129,799.8	3,018.8	316.2	15,769.6	1,817.7	2,541.8	62,582.9	86,047.1	128,105.7	87,741.2
													215,846.9

* Less than 50 cubic feet.

¹ Based on factors obtained from the Missouri Logging Utilization Study, 1987, and other regional utilization studies.
Table may not sum due to rounding.

Table 17. -- Growing-stock removals from timberland for industrial roundwood by Forest Survey Unit, county, and species group, Missouri, 2003

(In thousand cubic feet)

Forest Survey Unit and county	Softwoods					Hardwoods									
	Eastern redcedar	Shortleaf pine	Cypress	softwoods	Total	Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey-locust	Black walnut
Eastern Ozark Unit															
Bollinger	7	6	--	13	13	17	66	--	224	--	*	--	219	2	5
Butler	7	661	19	688	688	7	4	--	63	--	--	*	13	--	2
Carler	14	465	--	480	480	*	6	--	162	--	--	--	--	--	1
Crawford	6	69	--	75	75	11	16	--	53	--	--	--	4	--	1
Dent	11	498	--	508	508	2	2	--	80	--	--	--	2	--	*
Iron	11	150	--	162	162	6	8	--	94	--	2	--	7	--	1
Madison	11	323	--	334	334	21	43	--	400	--	14	--	22	*	10
Oregon	--	122	--	122	122	19	--	--	217	--	*	--	15	--	2
Reynolds	14	353	--	368	368	16	4	--	231	--	--	--	12	--	--
Ripley	42	304	--	345	345	15	3	*	265	1	1	--	26	--	*
Shannon	19	210	--	229	229	--	--	--	139	--	--	--	3	--	*
St. Francois	10	34	--	44	44	--	2	--	46	--	--	--	3	--	1
Washington	79	151	--	230	230	12	19	--	116	--	--	--	5	--	1
Wayne	9	178	--	186	186	9	84	--	446	--	6	--	14	--	1
Total	240	3,525	19	3,784	3,784	136	256	*	2,534	1	24	*	346	2	24
Southwestern Ozark Unit															
Barry	84	6	--	91	91	5	1	--	44	--	--	--	22	--	37
Christian	45	--	--	45	45	4	4	--	11	--	4	--	22	--	12
Douglas	87	80	--	166	166	5	--	--	45	--	--	--	4	--	31
Howell	*	26	--	26	26	6	6	--	133	--	--	--	8	--	1
McDonald	58	6	--	65	65	2	9	--	167	--	18	--	18	--	14
Newton	--	--	--	--	--	3	--	--	44	*	1	--	17	--	24
Ozark	123	8	--	131	131	--	--	--	24	--	--	--	8	--	1
Stone	131	--	--	131	131	--	--	--	*	--	--	--	4	--	11
Taney	333	--	--	333	333	--	--	--	9	--	--	--	*	--	*
Texas	2	562	--	564	564	--	--	--	73	--	--	--	3	--	17
Webster	4	--	--	4	4	1	1	--	21	--	1	--	1	--	4
Wright	--	40	--	40	40	--	--	--	42	--	--	--	3	--	1
Total	868	728	--	1,596	1,596	28	21	--	615	*	24	--	112	--	153
Northwestern Ozark Unit															
Benton	17	--	--	17	17	--	--	--	25	--	--	--	--	--	4
Camden	64	--	--	64	64	3	3	--	65	--	*	--	*	--	7
Cedar	*	--	--	*	*	90	--	--	13	*	1	--	84	--	17
Dallas	--	--	--	--	--	--	--	--	4	--	*	--	*	--	6
Hickory	65	--	--	65	65	--	--	--	7	*	*	--	*	--	7
Laclede	27	16	--	43	43	--	--	--	14	--	*	--	9	--	2
Maries	70	9	--	78	78	95	19	--	65	--	--	--	28	--	8
Miller	57	--	--	57	57	4	--	--	27	--	--	--	2	--	3
Morgan	48	--	--	48	48	3	3	--	52	*	--	--	2	--	4
Phelps	24	14	--	39	39	23	9	--	31	--	--	--	13	--	8
Polk	2	--	--	2	2	4	1	--	1	*	2	--	2	--	48
Pulaski	31	52	--	83	83	14	18	--	28	--	--	--	--	--	13
St. Clair	1	--	--	1	1	9	*	--	2	1	1	--	1	--	12
Total	407	90	--	497	497	244	53	--	334	1	6	--	142	--	139

(Table 17 continued on next page)

(Table 17 continued)

Forest Survey Unit and county	Softwoods					Hardwoods								
	Eastern redcedar	Shortleaf pine	Cypress	Total softwoods	Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut
Prairie Unit														
Adair	*	--	--	*	42	2	--	48	--	*	--	11	--	6
Andrew	--	--	--	--	44	--	--	--	--	7	--	13	--	72
Atchison	--	--	--	--	9	--	--	--	--	1	--	2	--	11
Audrain	--	--	--	--	25	--	*	34	--	3	--	5	--	*
Barton	--	--	--	--	89	--	--	14	*	1	--	87	--	7
Bates	*	--	--	*	3	*	--	6	*	1	--	1	--	27
Buchanan	--	--	--	--	62	--	--	--	--	11	--	19	--	106
Caldwell	--	--	--	--	51	--	--	24	*	17	--	14	5	29
Carroll	--	--	--	--	46	--	--	21	--	10	--	4	--	1
Cass	*	--	--	*	--	*	--	--	*	*	--	*	--	*
Chariton	--	--	--	--	100	--	13	49	--	16	--	15	--	74
Clark	*	--	--	*	57	2	--	29	--	--	--	17	--	11
Clinton	--	--	--	--	38	--	--	7	--	7	--	13	4	38
Cooper	--	--	--	--	24	1	*	13	*	4	--	4	--	8
Dade	--	--	--	--	15	--	--	13	*	1	--	14	--	51
Davies	--	--	--	--	56	--	--	28	*	22	--	15	5	86
De Kalb	--	--	--	--	22	--	--	6	--	5	--	8	2	13
Gentry	--	--	--	--	4	--	--	1	--	1	--	1	--	76
Greene	17	19	--	36	13	13	--	22	--	13	--	13	--	135
Grundy	--	--	--	--	52	--	--	31	--	21	--	12	4	7
Harrison	--	--	--	--	26	--	--	12	*	16	--	8	--	28
Henry	*	--	--	*	7	*	--	--	*	7	--	*	--	16
Holt	--	--	--	--	15	--	--	--	--	2	--	5	--	23
Jackson	*	--	--	*	*	*	--	*	*	*	--	*	--	3
Jasper	--	--	--	--	3	*	--	26	*	1	--	22	--	118
Johnson	*	--	--	*	--	3	--	--	*	6	--	2	--	*
Knox	*	--	--	*	45	3	--	49	--	3	--	16	--	6
Lafayette	*	--	--	*	2	*	--	--	--	7	--	3	--	*
Lawrence	9	--	--	9	16	6	--	18	*	7	--	16	--	210
Lewis	*	--	--	*	67	5	--	23	--	--	--	16	--	12
Lincoln	--	--	--	--	73	4	--	10	--	--	--	9	--	13
Linn	--	--	--	--	41	*	1	27	--	4	--	7	--	*
Livingston	--	--	--	--	72	--	--	44	*	25	--	14	5	79
Macon	1	--	--	1	29	2	--	76	--	6	--	7	--	77
Marion	--	--	--	--	34	4	--	14	--	--	--	6	--	3
Mercer	--	--	--	--	10	--	--	11	--	10	--	4	--	1
Monroe	--	--	--	--	73	6	3	63	*	15	--	6	--	1
Nodaway	--	--	--	--	18	--	--	--	--	1	--	4	--	15
Pettis	23	--	--	23	9	1	--	8	*	4	--	3	--	*
Pike	--	--	--	--	37	10	--	18	--	--	--	14	--	24
Platte	--	--	--	--	19	--	--	--	--	4	--	6	--	32
Putnam	--	--	--	--	25	1	--	24	--	--	--	6	--	--
Ralls	--	--	--	--	18	4	--	16	--	--	--	4	--	11
Randolph	--	--	--	--	133	2	18	114	--	34	--	34	--	83
Ray	--	--	--	--	8	--	--	4	--	7	--	5	--	1
Saline	*	--	--	*	18	*	--	8	*	4	--	3	--	74
Schuyler	*	--	--	*	48	2	--	13	--	*	--	10	--	3
Scotland	2	--	--	2	44	3	--	20	--	--	--	15	--	6
Shelby	*	--	--	*	36	3	--	48	--	3	--	9	--	67
Sullivan	--	--	--	--	37	1	--	28	--	4	--	1	--	--
Vernon	1	--	--	1	15	*	--	50	1	2	--	3	--	34
Worth	--	--	--	--	8	--	--	--	--	*	--	2	--	3
Total	56	19	--	75	1,734	76	36	1,073	4	308	--	531	25	1,704

(Table 17 continued on next page)

(Table 17 continued on next page)

(Table 17 continued)

Forest Survey Unit and county	Softwoods					Hardwoods									
	Eastern redcedar	Shortleaf pine	Cypress	softwoods	Total	Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut
Riverborder Unit															
Boone	25	--	--	--	25	32	--	*	34	--	2	--	4	--	65
Callaway	165	--	--	--	165	12	1	--	11	--	--	--	5	--	12
Cape Girardeau	2	--	--	--	2	*	26	--	111	--	1	*	35	--	27
Cole	132	--	--	--	132	13	--	--	2	--	--	--	2	--	2
Dunklin	--	--	1	--	1	7	1	*	4	2	1	--	4	--	--
Franklin	7	23	--	--	30	15	21	--	43	--	--	*	11	--	2
Gasconade	62	14	--	--	76	18	2	--	8	--	--	--	2	--	17
Howard	--	--	--	--	--	74	--	3	33	--	6	--	10	--	79
Jefferson	40	67	--	--	106	2	4	--	98	--	*	--	2	--	*
Mississippi	--	--	--	--	--	14	--	--	--	--	*	--	6	3	--
Moniteau	82	--	--	--	82	*	*	--	1	*	1	--	2	--	1
Montgomery	18	--	--	--	18	12	*	--	6	--	--	--	7	--	4
New Madrid	--	--	--	--	--	7	--	--	1	--	3	--	1	--	--
Osage	104	--	--	--	104	84	*	--	16	--	--	--	17	--	7
Pemiscot	--	--	--	--	--	8	--	--	2	--	2	--	1	1	--
Perry	9	29	--	--	37	--	26	--	104	--	--	*	80	--	43
Scott	--	--	--	--	--	--	4	--	2	--	--	--	1	--	--
St. Charles	*	--	--	--	*	24	2	--	7	--	--	--	4	--	3
St. Louis	6	--	--	--	6	--	--	--	--	--	--	*	--	--	--
Ste. Genevieve	--	29	--	--	29	--	16	--	44	--	--	*	6	--	1
Stoddard	--	--	--	--	--	40	5	--	68	--	*	--	7	--	1
Warren	--	--	--	--	--	6	1	--	6	--	--	--	7	--	4
Total	651	162	1	813	813	369	109	4	599	2	16	1	214	4	270
State total	2,222	4,524	20	6,765	6,765	2,511	514	40	5,156	8	377	1	1,345	31	2,290

(Table 17 continued on next page)

(Table 17 continued)

Forest Survey		Hardwoods										All species	
Unit and county		Yellow-poplar	Cotton-wood	Black cherry	Red oaks	White oaks	Willow	Sassafras	Basswood	Elm	Other hardwoods	Total hardwoods	All species
Eastern Ozark Unit													
Bollinger	37	19	6	15	2	12	1,227	844	--	10	--	2,704	2,717
Butler	43	--	*	6	14	--	1,043	427	--	1	--	1,624	2,312
Carter	--	--	5	6	--	--	2,236	806	--	--	--	3,221	3,700
Crawford	--	3	--	86	--	2	1,478	974	--	--	--	2,627	2,702
Dent	--	--	10	19	--	14	2,778	1,364	--	5	--	4,276	4,784
Iron	2	2	25	19	--	2	3,604	653	--	2	--	4,426	4,588
Madison	58	28	12	158	--	19	3,502	1,909	--	31	--	6,229	6,563
Oregon	*	--	11	138	2	11	2,981	1,129	--	*	--	4,527	4,649
Reynolds	*	--	60	1	--	--	4,518	1,020	--	*	--	5,863	6,231
Ripley	7	--	*	38	11	*	1,744	861	--	16	--	2,989	3,334
Shannon	--	--	11	13	--	--	3,116	1,238	--	--	--	4,522	4,751
St. Francois	2	2	1	5	--	--	229	141	--	1	--	433	477
Washington	--	3	4	47	--	2	2,566	1,239	--	2	--	4,015	4,246
Wayne	7	18	42	64	7	2	2,850	1,813	--	27	--	5,389	5,576
Total	156	75	188	616	35	63	33,874	14,417	--	96	--	52,845	56,629
Southwestern Ozark Unit													
Barry	1	1	1	43	--	1	799	438	--	--	--	1,393	1,484
Christian	--	--	--	8	--	4	259	85	--	--	--	413	458
Douglas	--	--	20	31	--	1	1,554	652	--	--	--	2,344	2,511
Howell	--	--	14	119	--	6	2,963	1,020	--	--	--	4,276	4,302
McDonald	2	2	12	90	1	--	1,420	951	--	9	--	2,714	2,779
Newton	--	--	--	64	*	2	775	394	--	*	--	1,327	1,327
Ozark	--	--	3	7	6	--	950	298	--	1	--	1,298	1,428
Stone	--	--	--	8	--	--	103	43	--	--	--	169	301
Taney	--	--	--	6	--	--	228	87	--	1	--	331	665
Texas	--	--	7	--	--	--	2,251	1,212	--	--	--	3,562	4,127
Webster	--	--	--	2	--	1	236	127	--	*	--	396	400
Wright	--	--	7	--	--	--	602	842	--	*	--	1,497	1,537
Total	3	3	64	378	7	15	12,139	6,150	--	12	--	19,722	21,318
Northwestern Ozark Unit													
Benton	--	--	4	7	3	4	229	244	--	--	--	520	537
Camden	*	--	6	33	3	18	773	568	--	5	--	1,482	1,546
Cedar	--	--	--	13	10	*	346	105	--	*	--	679	679
Dallas	*	--	--	*	--	--	100	44	--	*	--	155	155
Hickory	*	--	--	*	--	--	18	24	--	*	--	58	123
Laclede	*	--	--	18	--	--	535	329	--	*	--	907	950
Maries	--	--	--	101	47	--	811	541	--	10	--	1,724	1,802
Miller	--	--	--	25	3	--	352	361	--	2	--	779	836
Morgan	--	--	3	21	--	*	363	227	--	--	*	677	725
Phelps	--	--	--	96	--	--	1,225	785	--	--	--	2,192	2,230
Polk	*	--	--	2	*	1	39	28	--	*	--	130	132
Pulaski	--	--	--	72	1	--	978	427	--	--	--	1,551	1,634
St. Clair	*	--	--	1	*	*	29	28	--	1	*	86	87
Total	1	--	12	390	67	23	5,798	3,710	--	19	1	10,939	11,436

(Table 17 continued on next page)

(Table 17 continued)

Forest Survey Unit and county		Hardwoods													All species
		Sweetgum	Yellow- poplar	Tupelo	Sycamore	Cotton- wood	Black cherry	Red oaks	White oaks	Willow	Sassafras	Basswood	Elm	Other hardwoods	
Prairie Unit															
	Adair	--	--	--	20	118	--	237	209	--	--	6	--	700	700
	Andrew	--	--	--	21	91	--	43	32	--	--	12	--	334	334
	Atchison	--	--	--	13	94	--	9	7	--	--	2	--	148	148
	Audrain	--	--	--	35	40	--	401	339	--	--	3	--	886	886
	Barton	--	--	--	15	12	--	338	115	--	--	*	--	679	679
	Bates	*	--	--	5	1	--	11	19	--	--	*	--	74	74
	Buchanan	--	--	--	31	110	--	62	45	--	--	19	--	465	465
	Caldwell	--	--	--	30	125	1	80	49	--	--	1	7	433	433
	Carroll	--	--	--	62	124	1	114	67	--	--	--	10	462	462
	Cass	*	--	--	--	--	--	*	11	--	--	--	--	12	12
	Charlton	--	--	--	80	182	3	435	142	--	--	--	8	1,119	1,119
	Clark	--	--	2	12	107	--	210	181	--	--	*	7	636	637
	Clinton	--	--	--	14	19	--	42	30	--	--	6	2	222	222
	Cooper	--	--	--	27	26	*	60	56	1	--	1	4	229	229
	Dade	--	--	--	13	9	--	246	111	--	--	--	*	475	475
	Davies	--	--	--	39	216	1	141	90	--	--	4	11	714	714
	De Kalb	--	--	--	11	23	--	27	31	--	--	1	1	149	149
	Gentry	--	--	--	2	20	*	22	10	--	--	--	--	139	139
	Greene	--	--	--	13	--	18	208	119	--	--	--	--	566	603
	Grundy	--	--	--	36	210	1	126	72	--	--	3	13	586	586
	Harrison	--	--	--	16	168	1	97	58	--	--	3	8	441	441
	Henry	*	--	--	--	--	--	*	11	--	--	--	--	34	34
	Holt	--	--	--	14	98	--	16	10	--	--	4	--	188	188
	Jackson	--	--	--	2	2	2	5	15	--	--	--	--	28	29
	Jasper	--	--	*	21	*	10	260	136	--	--	--	*	598	598
	Johnson	--	--	--	37	26	--	32	24	--	--	--	4	133	133
	Knox	--	--	--	26	97	--	276	265	--	--	--	7	795	795
	Lafayette	--	--	--	39	27	*	32	24	*	--	*	4	138	138
	Lawrence	--	--	--	21	*	17	641	361	--	--	--	*	1,314	1,322
	Lewis	--	--	3	12	76	--	180	194	--	--	--	9	596	597
	Lincoln	--	--	--	25	63	*	180	247	--	--	--	--	626	626
	Linn	--	--	--	33	108	1	102	65	--	--	--	7	396	396
	Livingston	--	--	--	96	294	1	226	109	--	--	3	22	991	991
	Macon	--	--	--	49	155	3	586	306	--	--	--	10	1,305	1,306
	Marion	--	--	--	4	10	--	105	140	--	--	--	1	324	324
	Mercer	--	--	--	13	95	--	63	31	--	--	1	6	246	246
	Monroe	--	--	10	94	126	--	521	296	--	--	--	28	1,241	1,241
	Nodaway	--	--	--	1	--	--	12	7	--	--	2	--	61	61
	Pettis	*	--	--	14	3	*	48	100	1	--	1	--	193	216
	Pike	--	--	--	53	55	*	391	280	--	--	--	*	882	882
	Platte	--	--	--	18	79	--	22	15	--	--	6	--	201	201
	Putnam	--	--	--	13	83	--	85	68	--	--	--	5	310	310
	Ralls	--	--	*	24	25	--	173	105	--	--	--	1	381	381
	Randolph	--	--	--	150	143	3	1,272	464	--	--	--	16	2,466	2,466
	Ray	--	--	--	29	74	1	52	26	--	--	--	3	210	210
	Saline	--	--	--	41	51	3	63	45	1	--	1	2	315	315
	Schuyler	--	--	--	8	59	--	104	73	--	--	--	3	323	323
	Scotland	--	--	--	10	71	--	149	140	--	--	*	4	462	464
	Shelby	--	--	--	36	105	*	379	253	--	--	--	12	952	952
	Sullivan	--	--	--	15	81	--	77	86	--	--	--	3	333	333
	Vernon	*	--	--	8	3	1	77	45	--	--	--	1	240	241
	Worth	--	--	--	--	--	--	4	1	--	--	--	--	18	18
Total		1	--	14	1,403	3,704	67	9,044	5,737	3	--	72	233	25,770	25,844

(Table 17 continued on next page)

(Table 17 continued)

Forest Survey Unit and county	Hardwoods														All species
	Sweetgum	Yellow- poplar	Tupelo	Sycamore	Cotton- wood	Black cherry	Red oaks	White oaks	Willow	Sassafras	Basswood	Elm	Other hardwoods	Total hardwoods	
Riverborder Unit															
Boone	--	--	--	37	64	*	372	332	--	--	--	2	--	947	
Callaway	--	--	--	30	81	--	261	320	--	--	--	1	--	735	
Cape Girardeau	6	52	11	--	*	7	658	560	--	1	--	*	--	1,494	
Cole	--	--	--	16	15	--	132	53	--	--	--	--	--	234	
Dunklin	26	--	--	2	*	*	17	17	--	--	--	*	--	80	
Franklin	--	--	--	38	28	--	453	510	--	--	--	3	--	1,124	
Gasconade	--	--	--	44	136	--	600	462	--	--	--	1	--	1,292	
Howard	--	--	--	76	79	3	436	111	--	--	--	2	--	912	
Jefferson	1	1	4	9	*	1	614	279	--	--	--	3	--	1,017	
Mississippi	--	--	--	6	13	--	--	5	22	--	--	1	--	70	
Moniteau	--	--	--	7	2	*	96	75	--	--	--	1	*	186	
Montgomery	--	--	--	1	14	*	119	432	--	--	--	--	--	596	
New Madrid	*	--	1	4	27	--	1	1	17	--	--	--	--	63	
Osage	--	--	--	27	51	--	240	243	--	--	--	--	--	685	
Pemiscot	--	--	1	6	61	--	1	2	174	--	--	--	--	259	
Perry	2	76	2	7	--	18	657	478	--	--	--	2	--	1,495	
Scott	*	14	--	--	--	*	65	23	--	--	--	--	--	109	
St. Charles	--	--	--	*	63	--	45	478	--	--	--	*	--	626	
St. Louis	--	--	--	--	--	--	7	11	--	--	--	--	--	19	
Ste. Genevieve	1	4	1	11	--	4	350	243	--	--	--	1	--	682	
Stoddard	47	12	--	29	*	*	168	102	--	*	--	*	--	480	
Warren	--	--	--	--	63	*	57	509	--	--	--	*	--	653	
Total	83	160	19	352	698	34	5,350	5,245	213	1	--	18	*	13,759	
State total	244	237	297	3,138	4,512	202	66,205	35,259	215	2	72	378	1	123,035	
														129,800	

* Less than 500 cubic feet.

Table may not sum due to rounding.

Table 18. -- Sawtimber removals from timberland for industrial roundwood by Forest Survey Unit, county, and species group, Missouri, 2003

(In thousand board feet) ¹

Forest Survey Unit and county	Softwoods					Hardwoods								
	Eastern redcedar	Shortleaf pine	Cypress	Total softwoods	Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut
Eastern Ozark Unit														
Bollinger	8	32	--	40	68	261	--	892	--	1	--	845	7	20
Butler	39	2,690	98	2,827	27	15	--	245	--	--	2	49	--	7
Carter	47	2,117	--	2,164	1	22	--	623	--	--	--	--	--	3
Crawford	27	353	--	380	41	61	--	203	--	--	--	15	--	4
Dent	25	1,596	--	1,621	8	8	--	307	--	--	--	8	--	1
Iron	13	725	--	738	25	30	--	361	--	7	--	27	--	5
Madison	12	1,662	--	1,673	82	166	--	1,557	--	55	--	86	2	46
Oregon	--	628	--	628	73	--	--	836	--	2	--	60	--	8
Reynolds	16	1,777	--	1,793	64	17	--	891	--	--	--	48	--	--
Ripley	77	1,481	--	1,558	57	11	1	1,019	3	3	--	100	--	2
Shannon	21	818	--	839	--	--	--	537	--	--	--	12	--	1
St. Francois	11	173	--	184	--	6	--	178	--	--	--	10	--	4
Washington	87	731	--	818	44	73	--	445	--	--	--	21	--	4
Wayne	40	911	--	951	37	333	--	1,820	--	24	--	56	--	4
Total	423	15,693	98	16,214	526	1,003	1	9,914	3	92	2	1,336	9	109
Southwestern Ozark Unit														
Barry	339	34	--	374	21	3	--	169	--	--	--	85	--	165
Christian	50	--	--	50	15	15	--	44	--	15	--	87	--	54
Douglas	95	148	--	243	21	--	--	174	--	--	--	16	--	141
Howell	*	133	--	133	24	24	--	512	--	--	--	30	--	5
McDonald	310	34	--	345	10	36	--	686	--	69	--	70	--	61
Newton	--	--	--	--	13	--	--	171	1	4	--	67	--	106
Ozark	136	40	--	175	--	--	--	93	--	--	--	29	--	5
Stone	145	--	--	145	--	--	--	1	--	--	--	15	--	49
Taney	367	--	--	367	--	--	--	35	--	--	--	2	--	*
Texas	3	1,510	--	1,512	--	--	--	282	--	--	--	12	--	76
Webster	4	--	--	4	5	5	--	82	--	5	--	5	--	16
Wright	--	172	--	172	--	--	--	161	--	--	--	12	--	5
Total	1,449	2,071	--	3,520	108	83	--	2,411	1	93	--	431	--	686
Northwestern Ozark Unit														
Benton	85	--	--	85	--	--	--	97	--	--	--	--	--	19
Camden	71	--	--	71	10	10	--	250	--	1	--	1	--	30
Cedar	*	--	--	*	345	--	--	49	1	5	--	322	--	75
Dallas	--	--	--	--	--	--	--	15	--	1	--	1	--	29
Hickory	292	--	--	292	--	--	--	29	*	1	--	1	--	32
Laclede	30	70	--	100	--	--	--	53	--	*	--	35	--	8
Maries	322	44	--	367	366	74	--	250	--	--	--	107	--	34
Miller	192	--	--	192	15	--	--	103	--	--	--	8	--	14
Morgan	217	--	--	217	10	10	--	201	*	--	--	7	--	18
Phelps	93	74	--	167	90	35	--	121	--	--	--	52	--	38
Polk	2	--	--	2	15	5	--	5	1	9	--	9	--	214
Pulaski	134	265	--	399	55	69	--	108	--	--	--	--	--	57
St. Clair	1	--	--	1	36	1	--	6	3	5	--	5	--	55
Total	1,440	453	--	1,892	941	203	--	1,287	5	22	--	548	--	622

(Table 18 continued on next page)

(Table 18 continued)

Forest Survey Unit and county	Softwoods					Hardwoods									
	Eastern redcedar	Shortleaf pine	Cypress	Total softwoods		Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut
Prairie Unit															
Adair	*	--	--	*		162	7	--	185	--	1	--	44	--	28
Andrew	--	--	--	--		168	--	--	--	--	28	--	51	--	324
Atchison	--	--	--	--		34	--	--	--	--	5	--	9	--	49
Audrain	--	--	--	--		98	--	2	133	--	12	--	17	--	*
Barton	--	--	--	--		342	--	--	55	1	4	--	336	--	33
Bates	*	--	--	*		10	1	--	24	2	4	--	4	--	119
Buchanan	--	--	--	--		239	--	--	--	--	41	--	74	--	477
Caldwell	--	--	--	--		198	--	--	93	*	64	--	52	19	132
Carroll	--	--	--	--		178	--	--	83	--	40	--	16	--	5
Cass	*	--	--	*		--	1	--	--	*	*	--	*	--	2
Chariton	--	--	--	--		307	--	50	190	--	63	--	59	--	333
Clark	*	--	--	*		199	5	--	111	--	--	--	67	--	51
Clinton	--	--	--	--		146	--	--	29	--	29	--	49	14	173
Cooper	--	--	--	--		96	4	2	49	*	16	--	17	--	37
Dade	--	--	--	--		59	--	--	50	1	4	--	53	--	232
Davies	--	--	--	--		215	--	--	109	1	85	--	57	19	389
De Kalb	--	--	--	--		84	--	--	24	--	18	--	30	10	56
Gentry	--	--	--	--		15	--	--	5	--	5	--	6	--	342
Greene	19	98	--	117		50	50	--	84	--	50	--	52	--	606
Grundy	--	--	--	--		198	--	--	118	--	79	--	45	14	30
Harrison	--	--	--	--		99	--	--	45	1	63	--	31	--	128
Henry	*	--	--	*		29	1	--	--	*	*	--	*	--	67
Holt	--	--	--	--		59	--	--	--	--	10	--	18	--	102
Jackson	*	--	--	*		1	1	--	1	*	*	--	1	--	13
Jasper	--	--	--	--		10	*	--	101	1	4	--	85	--	530
Johnson	*	--	--	*		--	1	--	--	*	24	--	10	--	2
Knox	--	--	--	*		172	13	--	190	--	12	--	62	--	29
Lafayette	*	--	--	*		8	1	--	--	*	27	--	12	--	2
Lawrence	9	--	--	9		62	25	--	68	1	28	--	62	--	943
Lewis	*	--	--	*		221	19	--	86	--	--	--	63	--	52
Linn	--	--	--	--		283	14	--	38	--	--	--	35	--	60
Linn	--	--	--	--		156	1	3	105	1	15	--	27	--	2
Livingston	--	--	--	--		278	--	--	168	*	96	--	54	19	356
Macon	1	--	--	1		111	7	--	294	--	25	--	26	--	344
Marion	--	--	--	--		133	17	--	55	--	--	--	25	--	16
Mercer	--	--	--	--		38	--	--	42	--	37	--	17	--	3
Monroe	--	--	--	--		155	19	12	228	*	57	--	23	--	3
Nodaway	--	--	--	--		71	--	--	--	--	6	--	17	--	68
Pettis	125	--	--	125		46	5	--	29	*	18	--	15	--	2
Pike	--	--	--	--		144	37	--	69	--	--	--	53	--	109
Platte	--	--	--	--		72	--	--	--	--	14	--	24	--	146
Putnam	--	--	--	--		96	3	--	92	--	--	--	23	--	--
Ralls	--	--	--	--		70	15	--	62	--	--	--	15	--	48
Randolph	--	--	--	--		512	7	71	441	--	131	--	133	--	373
Ray	--	--	--	--		29	--	--	17	--	26	--	21	--	5
Saline	*	--	--	*		74	1	--	32	*	18	--	13	--	334
Schuyler	*	--	--	*		185	7	--	51	--	*	--	40	--	14
Scotland	2	--	--	2		169	13	--	75	--	--	--	57	--	27
Shelby	*	--	--	*		138	10	--	186	--	12	--	35	--	302
Sullivan	--	--	--	--		144	3	--	107	--	14	--	5	--	--
Vernon	1	--	--	1		57	1	--	188	3	6	--	11	--	148
Worth	--	--	--	--		30	--	--	--	--	1	--	7	--	14
Total	163	98	--	261		6,448	286	140	4,113	15	1,193	--	2,056	95	7,660

(Table 18 continued on next page)

(Table 18 continued)

Forest Survey Unit and county	Softwoods					Hardwoods									
	Eastern redcedar	Shortleaf pine	Cypress	Total softwoods	Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut	
Riverborder Unit															
Boone	82	--	--	82	124	--	2	132	--	10	--	17	--	292	
Callaway	578	--	--	578	47	5	--	44	--	--	--	19	--	53	
Cape Girardeau	3	--	--	3	*	99	--	428	--	3	*	134	--	120	
Cole	603	--	--	603	49	--	--	6	--	--	--	7	--	9	
Dunklin	--	--	3	3	27	3	1	14	6	2	--	14	--	--	
Franklin	27	120	--	148	57	80	--	165	--	--	1	42	--	8	
Gasconade	181	74	--	255	70	8	--	31	--	--	--	8	--	79	
Howard	--	--	--	--	287	--	11	126	--	24	--	40	--	357	
Jefferson	57	342	--	399	7	17	--	377	--	1	--	7	--	1	
Mississippi	--	--	--	--	59	--	--	--	--	2	--	25	11	--	
Moniteau	353	--	--	353	2	*	--	5	*	3	--	7	--	5	
Montgomery	45	--	--	45	48	2	--	22	--	--	--	28	--	18	
New Madrid	--	--	--	--	28	--	--	6	--	12	--	4	--	--	
Osage	507	--	--	507	324	*	--	60	--	--	--	64	--	31	
Pemiscot	--	--	--	--	35	--	--	8	--	7	--	4	6	--	
Perry	9	147	--	157	--	99	--	407	--	--	*	315	--	195	
Scott	--	--	--	--	--	14	--	8	--	--	--	5	--	--	
St. Charles	*	--	--	*	94	8	--	25	--	--	1	14	--	15	
St. Louis	6	--	--	6	--	--	--	--	--	--	*	--	--	--	
Ste. Genevieve	--	147	--	147	--	63	--	169	--	--	*	23	--	4	
Stoddard	--	--	--	--	154	19	--	261	--	*	--	27	--	7	
Warren	--	--	--	--	24	3	--	22	--	--	*	28	--	19	
Total	2,452	831	3	3,286	1,435	419	14	2,316	6	64	2	833	16	1,215	
State total	5,927	19,146	101	25,174	9,458	1,993	155	20,040	31	1,463	4	5,204	121	10,292	

(Table 18 continued on next page)

(Table 18 continued on next page)

(Table 18 continued on next page)

(Table 18 continued)

Forest Survey Unit and county		Hardwoods													All species	
		Sweetgum	Yellow- poplar	Tupelo	Sycamore	Cotton- wood	Black cherry	Red oaks	White oaks	Willow	Sassafras	Basswood	Elm	Other hardwoods		Total
Prairie Unit																
	Adair	--	--	--	76	683	--	869	799	--	--	--	24	--	2,876	2,876
	Andrew	--	--	--	81	524	--	157	115	--	--	48	--	--	1,495	1,495
	Atchison	--	--	--	51	543	--	31	26	--	--	8	--	--	755	755
	Audrain	--	--	--	134	232	--	1,466	1,595	--	--	--	12	--	3,702	3,702
	Barton	--	--	--	57	72	--	1,236	421	--	--	--	1	--	2,557	2,557
	Bates	*	--	--	19	4	--	40	72	--	--	--	1	--	299	300
	Buchanan	--	--	--	120	635	--	228	166	--	--	72	--	--	2,052	2,052
	Caldwell	--	--	--	115	722	3	293	179	--	--	6	29	--	1,904	1,904
	Carroll	--	--	--	240	715	3	420	247	--	--	--	38	--	1,985	1,985
	Cass	*	--	--	--	--	--	*	45	--	--	--	--	--	49	49
	Chariton	--	--	--	293	853	11	1,593	523	--	--	--	32	--	4,308	4,308
	Clark	--	--	1	46	578	--	766	704	--	--	1	19	--	2,549	2,549
	Clinton	--	--	--	55	112	--	152	111	--	--	24	9	--	902	902
	Cooper	--	--	--	110	131	*	221	206	3	--	3	17	--	912	912
	Dade	--	--	--	51	54	--	899	407	--	--	--	1	--	1,810	1,810
	Davess	--	--	--	151	1,247	5	517	328	--	--	16	42	--	3,180	3,180
	De Kalb	--	--	--	41	134	--	97	113	--	--	5	6	--	617	617
	Gentry	--	--	--	10	115	2	80	38	--	--	--	--	--	617	617
	Greene	--	--	--	50	--	68	761	437	--	--	--	--	--	2,208	2,325
	Grundy	--	--	--	140	1,216	3	459	264	--	--	11	50	--	2,627	2,627
	Harrison	--	--	--	63	971	3	358	211	--	--	11	31	--	2,014	2,014
	Henry	*	--	--	--	--	--	*	45	--	--	--	--	--	143	143
	Holt	--	--	--	55	564	--	58	38	--	--	17	--	--	921	921
	Jackson	*	--	--	7	10	6	17	59	--	--	--	--	--	116	116
	Jasper	--	--	1	80	2	40	958	502	--	--	--	1	--	2,315	2,315
	Johnson	*	--	--	143	151	--	119	92	--	--	--	14	--	556	557
	Knox	--	--	--	99	559	--	1,012	1,050	--	--	--	28	--	3,227	3,227
	Lafayette	*	--	--	151	154	*	119	92	1	--	1	14	--	584	584
	Lawrence	--	--	--	80	2	65	2,350	1,323	--	--	--	1	--	5,009	5,018
	Lewis	--	--	3	42	356	--	652	784	--	--	--	21	--	2,298	2,298
	Lincoln	--	--	--	98	365	1	660	1,061	--	--	--	21	--	2,615	2,615
	Linn	--	--	--	129	625	3	373	243	--	--	--	27	--	1,711	1,711
	Livingston	--	--	--	371	1,699	5	828	400	--	--	11	85	--	4,371	4,371
	Macon	--	--	--	189	894	11	2,146	1,156	--	--	--	39	--	5,243	5,243
	Marion	--	--	--	15	57	--	386	587	--	--	--	6	--	1,296	1,296
	Mercer	--	--	--	49	550	--	232	114	--	--	6	25	--	1,114	1,114
	Monroe	--	--	9	353	457	--	1,888	1,090	--	--	--	62	--	4,356	4,356
	Nodaway	--	--	--	3	--	--	44	26	--	--	8	--	--	242	242
	Pettis	*	--	--	64	19	*	177	384	7	--	7	--	--	773	898
	Pike	--	--	--	203	315	1	1,430	1,238	--	--	--	2	--	3,601	3,601
	Platte	--	--	--	69	456	--	83	54	--	--	24	--	--	941	941
	Putnam	--	--	--	51	480	--	309	263	--	--	--	19	--	1,337	1,337
	Ralls	--	--	1	93	142	--	632	422	--	--	--	6	--	1,507	1,507
	Randolph	--	--	--	580	823	11	4,654	1,747	--	--	--	63	--	9,545	9,545
	Ray	--	--	--	111	427	3	193	96	--	--	--	11	--	940	940
	Saline	*	--	--	164	293	12	232	172	3	--	3	8	--	1,360	1,360
	Schuyler	--	--	--	30	339	--	382	302	--	--	--	11	--	1,361	1,361
	Scotland	--	--	--	39	411	--	545	593	--	--	1	16	--	1,945	1,947
	Shelby	--	--	--	140	605	2	1,386	971	--	--	--	45	--	3,834	3,834
	Sullivan	--	--	--	59	469	--	281	327	--	--	--	12	--	1,421	1,421
	Vernon	*	--	--	32	19	2	281	168	--	--	--	3	2	923	925
	Worth	--	--	--	--	--	--	13	5	--	--	--	--	--	69	69
Total		3	--	14	5,402	20,786	260	33,084	22,406	14	--	282	831	2	105,090	105,351

Table 18 continued on next page)

(Table 18 continued on next page)

(Table 18 continued)

Forest Survey Unit and county	Hardwoods														All species	
	Sweetgum	Yellow- poplar	Tupelo	Sycamore	Cotton- wood	Black cherry	Red oaks	White oaks	Willow	Sassafras	Basswood	Elm	Other hardwoods	Total		
Riverborder Unit																
Boone	--	--	--	146	369	2	1,362	1,431	--	--	--	9	--	--	3,895	3,977
Callaway	--	--	--	126	464	--	956	1,491	--	--	--	5	--	--	3,210	3,788
Cape Girardeau	23	202	42	--	2	28	2,408	2,188	--	2	--	1	--	--	5,682	5,684
Cole	--	--	--	63	84	--	484	194	--	--	--	--	--	--	896	1,499
Dunklin	99	--	--	9	1	*	63	63	--	--	--	1	--	--	303	307
Franklin	--	--	--	147	161	--	1,659	1,991	--	--	--	10	--	--	4,322	4,469
Gasconade	--	--	--	175	786	--	2,195	2,100	--	--	--	5	--	--	5,458	5,713
Howard	--	--	--	297	436	11	1,597	408	--	--	--	8	--	--	3,602	3,602
Jefferson	3	6	14	33	1	5	2,245	1,100	--	--	--	10	--	--	3,825	4,225
Mississippi	--	--	--	24	77	--	--	22	91	--	--	3	--	--	314	314
Moniteau	--	--	--	27	14	*	351	273	--	--	--	3	--	--	690	1,042
Montgomery	--	--	--	7	79	*	436	2,130	--	--	--	--	--	--	2,772	2,817
New Madrid	2	--	3	14	156	--	3	4	71	--	--	--	--	--	302	302
Osage	--	--	--	105	296	--	878	890	--	--	--	--	--	--	2,648	3,155
Pemiscot	--	--	4	23	298	--	4	6	737	--	--	--	--	--	1,133	1,133
Perry	6	293	7	28	--	71	2,444	1,830	--	--	--	6	--	--	5,701	5,858
Scott	*	55	--	--	--	*	238	92	--	--	--	--	--	--	413	413
St. Charles	--	--	--	1	365	--	164	2,391	--	--	--	*	--	--	3,077	3,078
St. Louis	--	--	--	--	--	--	27	41	--	--	--	--	--	--	69	75
Ste. Genevieve	6	15	3	41	--	14	1,281	942	--	--	--	6	--	--	2,566	2,713
Stoddard	183	47	--	111	1	*	615	374	--	*	--	*	--	--	1,797	1,797
Warren	--	--	--	--	362	*	208	2,519	--	--	--	*	--	--	3,187	3,187
Total	321	617	73	1,379	3,953	132	19,619	22,479	899	2	--	68	--	--	55,862	59,148
State total	942	917	1,126	12,128	25,368	783	243,052	138,200	913	8	282	1,407	5	--	473,892	499,066

* Less than 500 board feet.

† International 1/4-inch rule.

Table may not sum due to rounding.

Table 19. -- Harvest residue generated by industrial roundwood harvesting by Forest Survey Unit, county, and species group, Missouri, 2003

(In thousand cubic feet)

Forest Survey Unit and county	Softwoods					Hardwoods									
	Eastern redcedar	Shortleaf pine	Cypress	softwoods	Total	Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut
Eastern Ozark Unit															
Bollinger	6	4	--	10	17	56	--	--	165	--	--	*	43	*	3
Butler	1	316	12	329	7	4	--	--	68	--	--	*	14	--	1
Carter	7	262	--	269	*	6	--	--	163	--	--	--	--	--	*
Crawford	2	43	--	45	12	16	--	--	57	--	--	--	4	--	1
Dent	7	134	--	141	2	2	--	--	86	--	--	--	2	--	*
Iron	10	89	--	99	7	7	--	--	101	--	2	--	8	--	1
Madison	9	203	--	212	20	42	--	--	389	--	15	--	23	*	6
Oregon	--	77	--	77	20	--	--	--	233	--	*	--	17	--	1
Reynolds	13	217	--	230	18	5	--	--	249	--	--	--	13	--	--
Ripley	31	182	--	213	16	1	*	*	284	*	1	--	43	--	*
Shannon	17	103	--	120	--	--	--	--	143	--	--	--	3	--	*
St. Francois	9	21	--	30	--	2	--	--	50	--	--	--	3	--	1
Washington	70	90	--	160	12	19	--	--	124	--	--	--	6	--	1
Wayne	2	111	--	113	7	68	--	--	227	--	6	--	33	--	1
Total	185	1,851	12	2,048	139	229	--	*	2,338	*	25	*	212	*	15
Southwestern Ozark Unit															
Barry	32	1	--	33	6	1	--	--	47	--	--	--	22	--	22
Christian	40	--	--	40	4	4	--	--	12	--	4	--	24	--	7
Douglas	77	22	--	98	6	--	--	--	49	--	--	--	4	--	19
Howell	*	16	--	16	7	7	--	--	143	--	--	--	8	--	1
McDonald	8	1	--	9	2	2	--	--	79	--	19	--	19	--	8
Newton	--	--	--	--	4	--	--	--	47	*	1	--	19	--	14
Ozark	109	5	--	114	--	--	--	--	26	--	--	--	8	--	1
Stone	116	--	--	116	--	--	--	--	*	--	--	--	4	--	2
Taney	295	--	--	295	--	--	--	--	10	--	--	--	*	--	*
Texas	2	203	--	205	--	--	--	--	79	--	--	--	3	--	10
Webster	3	--	--	3	1	1	--	--	23	--	1	--	1	--	2
Wright	--	21	--	21	--	--	--	--	45	--	--	--	3	--	1
Total	682	269	--	951	29	15	--	--	561	*	26	--	117	--	88
Northwestern Ozark Unit															
Benton	4	--	--	4	--	--	--	--	27	--	--	--	--	--	3
Camden	57	--	--	57	3	3	--	--	70	--	*	--	*	--	4
Cedar	*	--	--	*	96	--	--	--	14	--	1	--	90	--	10
Dallas	--	--	--	--	--	--	--	--	4	--	*	--	*	--	4
Hickory	19	--	--	19	--	--	--	--	8	--	*	--	*	--	4
Laclede	24	9	--	32	--	--	--	--	15	--	*	--	10	--	1
Maries	18	5	--	24	102	21	--	--	70	--	--	--	30	--	5
Miller	28	--	--	28	4	--	--	--	29	--	--	--	2	--	2
Morgan	14	--	--	14	3	3	--	--	56	*	--	--	2	--	2
Phelps	10	9	--	19	25	10	--	--	34	--	--	--	14	--	5
Polk	2	--	--	2	4	1	--	--	1	--	2	--	3	--	24
Pulaski	10	32	--	42	15	19	--	--	30	--	--	--	--	--	8
St. Clair	*	--	--	*	10	*	--	--	2	--	1	--	1	--	7
Total	186	55	--	241	263	56	--	--	359	1	6	--	153	--	79

(Table 19 continued on next page)

(Table 19 continued)

Forest Survey Unit and county	Softwoods					Hardwoods									
	Eastern redcedar	Shortleaf pine	Cypress	Total softwoods	Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut	
Prairie Unit															
Adair	*	--	--	*	45	2	--	51	--	*	--	12	--	4	
Andrew	--	--	--	--	47	--	--	--	--	8	--	14	--	43	
Atchison	--	--	--	--	10	--	--	--	--	1	--	2	--	7	
Audrain	--	--	--	--	27	--	*	37	--	3	--	5	--	*	
Barton	--	--	--	--	95	--	--	15	*	1	--	94	--	4	
Bates	*	--	--	*	3	*	--	7	*	1	--	1	--	16	
Buchanan	--	--	--	--	67	--	--	--	--	11	--	21	--	61	
Caldwell	--	--	--	--	55	--	--	26	*	18	--	15	5	13	
Carroll	--	--	--	--	50	--	--	23	--	11	--	5	--	1	
Cass	*	--	--	*	--	*	--	--	*	*	--	*	--	*	
Chariton	--	--	--	--	81	--	14	51	--	18	--	16	--	42	
Clark	*	--	--	*	55	1	--	29	--	--	--	19	--	7	
Clinton	--	--	--	--	41	--	--	8	--	8	--	14	4	23	
Cooper	--	--	--	--	23	1	*	14	*	3	--	3	--	2	
Dade	--	--	--	--	17	--	--	14	*	1	--	15	--	22	
Davies	--	--	--	--	60	--	--	30	*	24	--	16	5	53	
De Kalb	--	--	--	--	23	--	--	7	--	5	--	8	3	8	
Gentry	--	--	--	--	4	--	--	1	--	1	--	2	--	40	
Greene	15	12	--	27	14	14	--	23	--	14	--	14	--	67	
Grundy	--	--	--	--	55	--	--	33	--	22	--	13	4	4	
Harrison	--	--	--	--	28	--	--	13	*	18	--	9	--	13	
Henry	*	--	--	*	1	*	--	--	*	*	--	*	--	9	
Holt	--	--	--	--	17	--	--	--	--	3	--	5	--	14	
Jackson	*	--	--	*	*	*	--	*	*	*	--	*	--	2	
Jasper	--	--	--	--	3	*	--	17	*	1	--	13	--	59	
Johnson	*	--	--	*	--	*	--	--	*	7	--	3	--	*	
Knox	*	--	--	*	48	4	--	53	--	3	--	17	--	4	
Lafayette	*	--	--	*	*	*	--	--	*	7	--	3	--	*	
Lawrence	8	--	--	8	17	7	--	19	*	8	--	17	--	109	
Lewis	*	--	--	*	60	5	--	24	--	--	--	18	--	7	
Lincoln	--	--	--	--	79	4	--	11	--	--	--	10	--	8	
Linn	--	--	--	--	44	*	1	29	--	4	--	8	--	*	
Livingston	--	--	--	--	77	--	--	47	*	27	--	15	5	48	
Macon	1	--	--	1	31	2	--	80	--	7	--	7	--	44	
Marion	--	--	--	--	37	5	--	14	--	--	--	7	--	2	
Mercer	--	--	--	--	11	--	--	12	--	10	--	5	--	*	
Monroe	--	--	--	--	36	3	3	63	*	16	--	6	--	*	
Nodaway	--	--	--	--	20	--	--	--	--	2	--	5	--	9	
Pettis	3	--	--	3	2	1	--	8	*	2	--	*	--	*	
Pike	--	--	--	--	40	9	--	19	--	--	--	15	--	15	
Platte	--	--	--	--	20	--	--	--	--	4	--	7	--	20	
Putnam	--	--	--	--	27	1	--	26	--	--	--	6	--	--	
Ralls	--	--	--	--	19	4	--	17	--	--	--	4	--	6	
Randolph	--	--	--	--	143	2	20	121	--	37	--	37	--	47	
Ray	--	--	--	--	8	--	--	5	--	7	--	6	--	1	
Saline	*	--	--	*	16	*	--	7	*	4	--	2	--	42	
Schuyler	*	--	--	*	51	2	--	14	--	*	--	11	--	2	
Scotland	2	--	--	2	47	4	--	21	--	--	--	16	--	4	
Shelby	*	--	--	*	39	3	--	52	--	3	--	10	--	41	
Sullivan	--	--	--	--	40	1	--	30	--	4	--	1	--	--	
Vernon	1	--	--	1	16	*	--	52	*	2	--	3	--	20	
Worth	--	--	--	--	8	--	--	--	--	*	--	2	--	2	
Total	31	12	--	43	1,756	75	39	1,123	2	325	--	553	27	944	

(Table 19 continued on next page)

(Table 19 continued)

Forest Survey Unit and county	Softwoods					Hardwoods									
	Eastern redcedar	Shortleaf pine	Cypress	Total softwoods		Soft maple	Hard maple	River birch	Hickory	Pecan	Hackberry	Persimmon	Ash	Honey- locust	Black walnut
Riverborder Unit															
Boone	13	--	--	13		35	--	*	37	--	3	--	4	--	39
Callaway	76	--	--	76		13	1	--	12	--	--	--	5	--	7
Cape Girardeau	2	--	--	2		*	27	--	97	--	1	*	45	--	8
Cole	37	--	--	37		14	--	--	2	--	--	--	5	--	1
Dunklin	--	--	*	*		8	1	*	4	2	1	--	4	--	--
Franklin	2	15	--	17		16	22	--	46	--	--	*	12	--	1
Gasconade	35	9	--	44		20	2	--	9	--	--	--	2	--	11
Howard	--	--	--	--		73	--	3	33	--	7	--	11	--	44
Jefferson	33	42	--	75		2	5	--	105	--	*	--	2	--	*
Mississippi	--	--	--	--		3	--	--	--	--	*	--	1	*	--
Moniteau	27	--	--	27		*	*	--	1	*	1	--	1	--	1
Montgomery	11	--	--	11		13	1	--	6	--	--	--	8	--	2
New Madrid	--	--	--	--		3	--	--	2	--	*	--	1	--	--
Osage	24	--	--	24		90	*	--	17	--	--	--	22	--	4
Pemiscot	--	--	--	--		3	--	--	2	--	*	--	1	*	--
Perry	8	18	--	26		--	27	--	79	--	--	*	63	--	26
Scott	--	--	--	--		--	4	--	2	--	--	--	5	--	--
St. Charles	*	--	--	*		26	2	--	7	--	--	*	11	--	2
St. Louis	5	--	--	5		--	--	--	--	--	--	*	--	--	--
Ste. Genevieve	--	18	--	18		--	18	--	47	--	--	*	6	--	1
Stoddard	--	--	--	--		43	5	--	73	--	*	--	14	--	1
Warren	--	--	--	--		7	1	--	6	--	--	*	8	--	3
Total	272	101	*	374		369	115	4	587	2	13	1	231	1	151
State total	1,357	2,289	12	3,658		2,556	491	43	4,968	5	395	1	1,266	28	1,277

(Table 19 continued on next page)

(Table 19 continued)

Forest Survey Unit and county	Hardwoods												All species		
	Sweetgum	Yellow- poplar	Tupelo	Sycamore	Cotton- wood	Black cherry	Red oaks	White oaks	Willow	Sassafras	Basswood	Elm		Other hardwoods	Total hardwoods
Eastern Ozark Unit															
Bollinger	38	18	1	12	1	10	795	473	--	--	*	5	--	1,639	1,649
Butler	47	--	*	6	9	--	724	283	--	--	--	1	--	1,166	1,495
Carter	--	--	6	6	--	--	1,552	543	--	--	--	--	--	2,276	2,545
Crawford	--	3	--	93	--	2	1,026	526	--	--	--	--	--	1,739	1,784
Dent	--	--	11	20	--	15	1,927	732	--	--	--	5	--	2,804	2,944
Iron	2	2	27	20	--	2	2,502	438	--	--	--	2	--	3,120	3,219
Madison	61	30	6	151	--	20	2,361	1,193	--	--	--	28	--	4,347	4,559
Oregon	*	--	12	148	1	5	2,069	784	--	--	1	*	--	3,292	3,369
Reynolds	*	--	65	1	--	--	3,136	672	--	--	--	*	--	4,158	4,388
Ripley	8	--	*	41	7	*	1,210	598	--	--	--	18	--	2,229	2,442
Shannon	--	--	12	14	--	--	2,124	794	--	--	--	--	--	3,091	3,211
St. Francois	2	2	1	6	--	--	159	89	--	--	--	2	--	315	345
Washington	--	3	4	51	--	2	1,781	801	--	--	--	2	--	2,807	2,967
Wayne	7	19	14	56	3	2	1,374	696	--	--	--	5	--	2,517	2,630
Total	166	78	158	626	22	57	22,740	8,622	--	--	2	68	--	35,499	37,547
Southwestern Ozark Unit															
Barry	1	1	1	46	--	*	555	304	--	--	--	--	--	1,006	1,039
Christian	--	--	--	9	--	4	178	59	--	--	--	--	--	306	346
Douglas	--	--	22	34	--	*	1,078	433	--	--	--	--	--	1,644	1,742
Howell	--	--	15	128	--	7	2,056	708	--	--	--	--	--	3,079	3,096
McDonald	2	2	3	91	*	--	749	438	--	--	--	1	--	1,417	1,426
Newton	--	--	--	69	*	2	537	273	--	--	--	*	--	967	967
Ozark	--	--	3	7	4	--	659	207	--	--	--	1	--	917	1,030
Stone	--	--	--	8	--	--	67	30	--	--	--	--	--	112	228
Taney	--	--	--	6	--	--	158	60	--	--	--	1	--	236	531
Texas	--	--	7	--	--	--	1,547	812	--	--	--	--	--	2,458	2,663
Webster	--	--	--	3	--	1	164	67	--	--	--	*	--	266	269
Wright	--	--	7	--	--	--	418	338	--	--	--	*	--	812	834
Total	3	3	59	401	4	15	8,165	3,729	--	--	--	4	--	13,220	14,171
Northwestern Ozark Unit															
Benton	--	--	4	8	2	4	159	169	--	--	--	--	--	375	379
Camden	*	--	7	35	2	19	537	373	--	--	--	5	--	1,057	1,114
Cedar	--	--	--	14	7	*	240	73	--	--	--	*	--	546	546
Dallas	*	--	--	*	--	--	69	30	--	--	--	*	--	109	109
Hickory	*	--	--	*	--	--	13	17	--	--	--	*	--	43	61
Laclede	*	--	--	19	--	--	371	206	--	--	--	*	--	622	655
Maries	--	--	--	109	30	--	563	375	--	--	--	11	--	1,315	1,339
Miller	--	--	--	27	2	--	244	187	--	--	--	2	--	499	527
Morgan	--	--	3	22	--	*	252	158	--	--	--	--	1	501	515
Phelps	--	--	--	103	--	--	850	489	--	--	--	--	--	1,530	1,549
Polk	*	--	--	2	*	1	27	19	--	--	--	*	--	87	88
Pulaski	--	--	--	78	1	--	679	296	--	--	--	--	--	1,126	1,169
St. Clair	*	--	--	1	*	*	20	14	--	--	--	1	--	58	59
Total	1	--	13	419	44	25	4,024	2,405	--	--	--	20	1	7,869	8,111

Table 19 continued on next page)

(Table 19 continued on next page)

(Table 19 continued)

Forest Survey Unit and county	Hardwoods														All species
	Sweetgum	Yellow- poplar	Tupelo	Sycamore	Cotton- wood	Black cherry	Hardwoods								
							Red oaks	White oaks	Willow	Sassafras	Basswood	Elm	Other hardwoods	Total hardwoods	
Prairie Unit															
Adair	--	--	--	21	77	--	165	135	--	--	--	7	--	519	519
Andrew	--	--	--	23	59	--	30	22	--	--	13	--	--	258	258
Atchison	--	--	--	14	61	--	6	5	--	--	2	--	--	108	108
Audrain	--	--	--	37	26	--	278	129	--	--	--	3	--	547	547
Barton	--	--	--	16	8	--	235	80	--	--	--	*	--	549	549
Bates	*	--	--	5	1	--	7	7	--	--	--	*	--	48	48
Buchanan	--	--	--	34	72	--	43	32	--	--	20	--	--	360	360
Caldwell	--	--	--	32	82	1	56	34	--	--	2	8	--	345	345
Carroll	--	--	--	67	81	1	77	47	--	--	--	11	--	372	372
Cass	*	--	--	--	--	--	*	2	--	--	--	--	--	2	2
Charlton	--	--	--	81	96	2	300	96	--	--	--	9	--	805	805
Clark	--	--	*	13	65	--	145	112	--	--	*	5	--	451	451
Clinton	--	--	--	15	13	--	29	21	--	--	7	2	--	185	185
Cooper	--	--	--	21	10	*	42	39	*	--	*	5	1	164	164
Dade	--	--	--	14	6	--	171	77	--	--	--	*	--	337	337
Davies	--	--	--	42	141	1	96	62	--	--	5	12	--	546	546
De Kalb	--	--	--	11	15	--	18	21	--	--	1	2	--	123	123
Gentry	--	--	--	3	13	*	13	7	--	--	--	--	--	85	85
Greene	--	--	--	14	--	19	142	83	--	--	--	--	--	405	405
Grundy	--	--	--	39	137	1	87	50	--	--	3	14	--	462	462
Harrison	--	--	--	18	110	1	64	40	--	--	3	9	--	324	324
Henry	*	--	--	--	--	--	--	2	--	--	--	--	--	12	12
Holt	--	--	--	15	64	--	11	7	--	--	5	--	--	140	140
Jackson	*	--	--	2	1	2	3	4	--	--	--	--	--	14	14
Jasper	--	--	*	22	*	8	174	88	--	--	--	*	--	386	386
Johnson	--	--	--	40	17	--	22	10	--	--	--	4	--	103	103
Knox	--	--	--	27	63	--	192	160	--	--	--	8	--	580	580
Lafayette	--	--	--	40	17	*	22	10	*	--	*	4	--	104	104
Lawrence	--	--	--	22	*	15	441	247	--	--	--	*	--	903	910
Lewis	--	--	*	11	40	--	123	105	--	--	--	5	--	398	399
Lincoln	--	--	--	27	41	*	125	125	--	--	--	--	--	430	430
Linn	--	--	--	36	71	1	71	43	--	--	--	8	--	315	315
Livingston	--	--	--	104	192	1	157	76	--	--	3	24	--	776	776
Macon	--	--	--	53	101	2	405	199	--	--	--	11	--	940	941
Marion	--	--	--	4	6	--	73	73	--	--	--	2	--	223	223
Mercer	--	--	--	14	62	--	42	22	--	--	2	7	--	186	186
Monroe	--	--	1	97	51	--	358	189	--	--	--	15	--	839	839
Nodaway	--	--	--	1	--	--	8	5	--	--	2	--	--	51	51
Pettis	*	--	--	7	1	*	33	44	*	--	*	--	1	100	104
Pike	--	--	--	56	36	*	271	131	--	--	--	1	--	593	593
Platte	--	--	--	19	52	--	14	10	--	--	7	--	--	152	152
Putnam	--	--	--	14	54	--	59	43	--	--	--	5	--	235	235
Ralls	--	--	*	26	16	--	120	59	--	--	--	2	--	275	275
Randolph	--	--	--	162	93	2	881	289	--	--	--	18	--	1,850	1,850
Ray	--	--	--	31	48	1	34	18	--	--	--	3	--	162	162
Saline	*	--	--	42	33	2	42	22	*	--	*	2	1	214	214
Schuyler	--	--	--	8	38	--	72	40	--	--	--	3	--	243	243
Scotland	--	--	--	11	46	--	103	73	--	--	*	5	--	330	332
Shelby	--	--	--	39	68	*	263	163	--	--	--	13	--	693	694
Sullivan	--	--	--	17	53	--	53	55	--	--	--	3	--	258	258
Vernon	*	--	--	9	2	1	53	25	--	--	--	1	1	184	185
Worth	--	--	--	--	--	--	3	1	--	--	--	--	--	16	16
Total	*	--	1	1,476	2,339	60	6,238	3,438	*	--	75	228	2	18,702	18,745

Table 19 continued on next page)

(Table 19 continued on next page)

(Table 19 continued)

Forest Survey Unit and county	Hardwoods														All species
	Sweetgum	Yellow- poplar	Tupelo	Sycamore	Cotton- wood	Black cherry	Red oaks	White oaks	Willow	Sassafras	Basswood	Elm	Other hardwoods	Total hardwoods	
Riverborder Unit															
Boone	--	--	--	39	41	*	258	164	--	--	--	2	--	623	636
Callaway	--	--	--	27	49	--	181	124	--	--	--	1	--	421	497
Cape Girardeau	6	54	12	--	*	7	455	294	--	1	--	*	--	1,006	1,008
Cole	--	--	--	16	9	--	92	37	--	--	--	--	--	175	212
Dunklin	28	--	--	3	*	*	12	12	--	--	--	*	--	73	74
Franklin	--	--	--	41	18	--	315	317	--	--	--	3	--	791	808
Gasconade	--	--	--	45	88	--	416	199	--	--	--	1	--	793	837
Howard	--	--	--	77	45	2	301	73	--	--	--	2	--	671	671
Jefferson	1	1	4	9	*	*	426	170	--	--	--	3	--	728	803
Mississippi	--	--	--	1	9	--	--	1	3	--	--	1	--	18	18
Moniteau	--	--	--	7	2	*	67	52	--	--	--	1	1	134	160
Montgomery	--	--	--	*	8	*	83	130	--	--	--	--	--	251	263
New Madrid	*	--	1	4	17	--	1	1	3	--	--	--	--	31	31
Osage	--	--	--	29	33	--	166	169	--	--	--	--	--	531	555
Pemiscot	--	--	1	5	22	--	1	1	27	--	--	--	--	65	65
Perry	2	80	2	8	--	19	400	260	--	--	--	2	--	967	992
Scott	*	15	--	--	--	*	45	12	--	--	--	--	--	83	83
St Charles	--	--	--	*	41	--	31	132	--	--	--	*	--	253	253
St. Louis	--	--	--	--	--	--	5	8	--	--	--	--	--	13	18
Ste. Genevieve	2	4	1	11	--	3	243	152	--	--	--	2	--	490	508
Stoddard	51	13	--	31	*	*	117	71	--	*	--	*	--	418	418
Warren	--	--	--	--	41	*	39	152	--	--	--	*	--	257	257
Total	89	167	20	354	425	31	3,651	2,529	33	1	--	18	1	8,793	9,167
State total	259	249	252	3,277	2,834	188	44,818	20,724	33	2	75	338	4	84,083	87,741

* Less than 500 cubic feet.

Table may not sum due to rounding.

Table 20. -- Disposition of residues produced at primary wood-using mills by Forest Survey Unit, disposition, residue type, and softwoods and hardwoods, Missouri, 2003

(In thousand green tons)

Forest Survey Unit and disposition	Total all residues	Residue type								
		Wood residue						Bark		
		Total wood residue		Fine ¹						
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood			
Eastern Ozark										
Fiber products	5.4	168.1	5.4	168.1	5.2	159.3	0.2	8.8	--	--
Charcoal	20.2	382.3	15.6	314.4	11.4	178.3	4.2	136.1	4.7	67.9
Industrial fuel	6.3	59.9	6.3	59.3	0.5	9.1	5.8	50.1	*	0.7
Domestic fuel	0.3	12.2	0.2	9.6	0.2	8.6	0.0	1.0	0.1	2.7
Miscellaneous ³	10.2	133.7	3.8	42.8	2.4	22.9	1.4	19.9	6.4	90.9
Not used	3.0	42.2	2.5	36.8	1.4	12.8	1.1	24.0	0.4	5.4
Total	45.3	798.5	33.8	630.9	21.0	390.9	12.7	240.0	11.6	167.6
Southwestern Ozark										
Fiber products	0.8	30.2	0.8	30.2	0.8	30.2	--	--	--	--
Charcoal	4.4	158.9	3.8	134.2	1.4	79.5	2.4	54.7	0.6	24.7
Industrial fuel	--	--	--	19.2	--	9.3	--	9.8	--	--
Domestic fuel	*	9.4	*	8.5	*	6.1	--	2.4	*	0.9
Miscellaneous ³	16.6	61.1	12.3	27.4	8.5	14.8	3.8	12.7	4.4	33.6
Not used	--	5.0	--	4.2	--	2.1	--	2.1	--	0.9
Total	21.8	283.7	16.9	223.6	10.7	141.9	6.2	81.7	5.0	60.0
Northwestern Ozark										
Fiber products	--	--	--	18.3	--	18.3	--	--	--	--
Charcoal	0.9	38.6	0.6	32.1	0.6	15.7	--	16.4	0.3	6.5
Industrial fuel	0.1	--	0.1	--	--	--	0.1	--	--	--
Domestic fuel	0.1	5.5	0.1	4.1	0.1	4.1	--	--	*	1.4
Miscellaneous ³	3.3	30.8	2.8	18.4	2.0	10.3	0.9	8.1	0.5	12.4
Not used	0.4	3.8	0.4	3.8	--	0.2	0.4	3.6	--	0.1
Total	4.9	97.0	4.1	76.6	2.6	48.5	1.4	28.1	0.8	20.4

(Table 20 continued on next page)

(Table 20 continued)

Forest Survey Unit and disposition	Total all residues	Residue type							
		Softwood Hardwood	Total wood residue		Wood residue				
			Softwood Hardwood		Coarse		Fine		
			Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood	Bark
Prairie									
Fiber products	--	62.3	--	62.1	--	62.1	--	--	0.2
Charcoal	--	6.5	--	6.4	--	0.1	--	6.3	0.1
Industrial fuel	0.6	46.0	0.6	40.7	0.3	24.2	0.3	16.5	5.3
Domestic fuel	0.3	54.2	0.2	41.2	0.2	32.0	--	9.2	0.1
Miscellaneous ³	1.0	174.0	0.8	120.0	0.6	54.4	0.2	65.6	54.0
Not used	*	66.6	*	52.5	*	34.4	*	18.1	14.1
Total	1.9	409.5	1.6	322.9	1.1	207.1	0.5	115.8	86.6
Riverborder									
Fiber products	--	65.7	--	65.7	--	65.5	--	0.2	--
Charcoal	--	15.2	--	12.8	--	5.7	--	7.1	2.4
Industrial fuel	--	23.2	--	22.1	--	0.7	--	21.4	1.1
Domestic fuel	*	11.9	*	10.0	*	10.0	--	--	1.8
Miscellaneous ³	12.0	101.2	10.0	57.4	6.4	24.3	3.7	33.1	43.7
Not used	0.3	11.4	0.3	10.2	0.2	6.7	0.1	3.5	1.2
Total	12.3	228.5	10.3	178.3	6.5	112.9	3.8	65.4	50.3
All Units									
Fiber products	6.1	344.5	6.1	344.3	5.9	335.3	0.2	9.0	--
Charcoal	25.5	601.5	20.0	499.9	13.4	279.3	6.7	220.6	5.5
Industrial fuel	7.0	148.4	7.0	141.3	0.8	43.3	6.2	97.9	7.1
Domestic fuel	0.6	93.1	0.5	73.4	0.5	60.8	*	12.6	0.1
Miscellaneous ³	43.2	500.7	29.7	266.0	19.8	126.6	9.9	139.4	13.5
Not used	3.7	129.1	3.3	107.4	1.6	56.1	1.7	51.3	0.5
Total	86.2	1,817.2	66.6	1,432.3	42.0	901.4	24.6	530.9	19.6
									384.9

* Less than 50 green tons.

¹ Suitable for chipping such as slabs, edgings, veneer cores, etc.² Not suitable for chipping such as sawdust, veneer clippings etc.³ Livestock bedding, mulch, small dimension, specialty items, etc.

Table may not sum due to rounding.

Treiman, Thomas B.; Piva, Ronald J.

2005. **Missouri timber industry—an assessment of timber product output and use, 2003.** Resour. Bull. NC-250. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station. 74 p.

Discusses recent Missouri forest industry trends; production and receipts of industrial roundwood; and production of saw logs, veneer logs, pulpwood, cooperage, and other timber products in 2003. Reports on logging residue generated from timber harvest operations. Also reports on wood and bark residue generated at primary wood-using mills and on disposition of mill residues.

KEY WORDS: Industrial roundwood, logging residue, mill residue, production, receipts, saw logs

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www.fia.fs.fed.us

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