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Nebraska Timber Industry: An Assessment of Timber Product Output and Use

2009

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Abstract

In 2009 there were 62 active primary wood-processing mills in Nebraska. These mills processed 4.1 million cubic feet of industrial roundwood. There was 4.09 million cubic feet of industrial roundwood harvested from Nebraska forests. The majority of roundwood harvested was for saw logs, accounting for 72 percent of the total. The harvesting of industrial roundwood products generated 1.5 million cubic feet of harvest residues. Primary wood-processing mills generated 68,000 green tons of mill residues.

Cover Photo

Mill yard log deck. Photo by U.S. Forest Service, bugwood.org.

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INTRODUCTION

Nebraska's wood products manufacturing industry¹ employs more than 2,300 workers and has an output of more than \$362 million (U.S. Census Bureau 2007). Given the importance of this industry to the economy of Nebraska, this bulletin analyzes recent forest industry trends and reports the results of a detailed study of forest industry, industrial roundwood production, and associated primary mill wood and bark residue in 2009. Such detailed information is necessary for intelligent planning and decisionmaking in wood procurement, economic research, forest resources management, and forest industry development.

The last published report of timber product output and use in Nebraska (Piva and Adams 2008) covered a 2006 study and is used here for comparison. 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. Rows and columns of supporting tables may not sum due to rounding, but data in each table cell are accurately displayed.

Information about the forest resources of Nebraska is available at the FIA Web site: <http://nrs.fs.fed.us/fia/data-tools/state-reports/NE>.

The Authors

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¹North American Industry Classification System (NAICS) 321—wood product manufacturing.

STUDY METHODS

This study was a cooperative effort between the Nebraska Forest Service (NFS) and the Forest Inventory and Analysis (FIA) unit at the Northern Research Station (NRS) of the U.S. Forest Service. The FIA program is responsible for providing forest resource statistics, including timber product outputs, for all ownerships across the United States.

NFS personnel surveyed all known primary wood-using mills, using questionnaires supplied by NRS. The questionnaires were 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. Completed questionnaires were sent to NRS for processing and analyses. As part of data processing, all industrial roundwood volumes reported on the questionnaires were converted to standard units of measure using regional conversion factors (Table 1). Timber removals by source of material and harvest residues generated during logging were estimated from standard product volumes using factors developed from logging utilization studies previously conducted by NRS. To provide a complete assessment of Nebraska's timber product output, data on roundwood volume processed by mills in Nebraska (receipts) were loaded into a regional timber removals database where they were supplemented with data on roundwood exported outside the State.

Certain terms used in this report -- retained, exports, imports, production, and receipts -- have specialized meanings and relationships unique to the FIA program that surveys timber product output (TPO) (Fig. 1; Appendix).

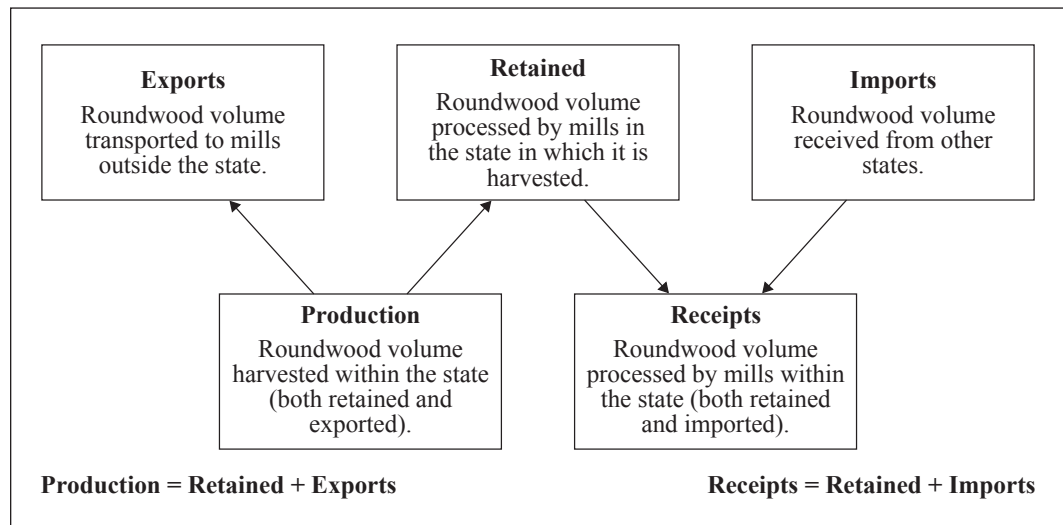


Figure 1.—The movement of industrial roundwood.

Table 1.—Conversion factors from reported unit of measure to standard unit of measure^a

Product (Standard unit of measure)	Reported unit of measure					
	International ¼-inch rule MBF	Doyle scale MBF	Green tons	Standard cords	Thousand pieces	Thousand cubic feet
Saw logs and handles (MBF International ¼-inch rule)	1	1.38	0.2174	0.5	--	0.158
Veneer logs and cooperage (MBF International ¼-inch rule)	1	1.14	0.2174	0.5	--	0.158
Pulp and composite products, and industrial fuelwood (Standard cords)	--	--	0.4167	1	--	0.079
Poles (Pieces)	20	--	4.348	10	1,000	1
Posts (Thousand pieces)	0.2	--	0.04167	0.1	1	0.0079
Cabin logs, excelsior/shavings, and miscellaneous products (Thousand cubic feet)	0.158	0.21804	0.0329193	0.079	7.9	0.79
Cabin logs, excelsior/shavings, and miscellaneous products (Thousand cubic feet)	0.158	0.21804	0.17604	0.0329193	7.9	1

^a Reported volume times conversion factor = standard volume. For example, a sawmill reports receiving 100 MBF Doyle rule of roundwood; to convert that to MBF International ¼-inch rule: 100 * 1.38 = 138 MBF.

PRIMARY TIMBER INDUSTRY IN NEBRASKA

Industrial Roundwood

- Nebraska's primary wood-using industry included 57 sawmills, 1 veneer mill, 3 post, pole, and piling mills, and 1 mill that produced other products (Table 2, Fig. 2).
- Receipts of industrial roundwood at Nebraska primary wood-using mills totaled 4.1 million cubic feet in 2009, a decrease of 19 percent from the 5.1 million cubic feet received in 2006 (Table 3).
- Ninety percent of the industrial roundwood processed by Nebraska's primary wood-using mills was harvested from forests within the State. Iowa was the largest supplier of out-of-State wood, supplying nearly 10 percent of the total industrial roundwood processed (Table 4).

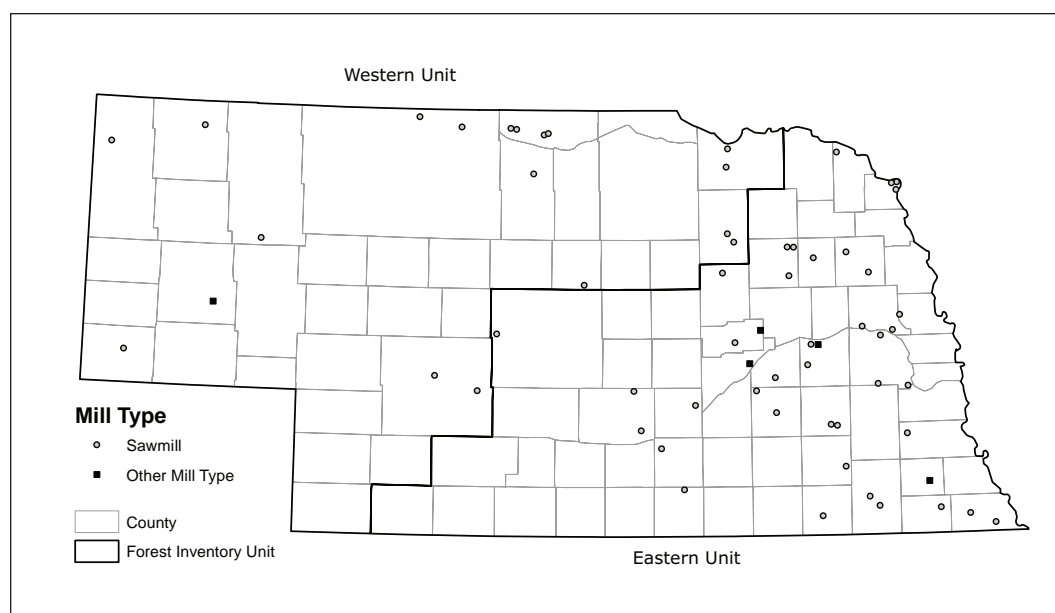


Figure 2.—Nebraska Forest Inventory Units and approximate locations of primary wood-using mills, 2009.

- Eighty-nine percent of the industrial roundwood processed by Nebraska primary wood-using mills was composed of hardwood species. Cottonwood alone accounted for 83 percent of the total volume processed. Softwoods accounted for 11 percent of the volume processed, and most of that was cedar/juniper.
- Industrial roundwood production decreased by 33 percent between 2006 and 2009, from 6.1 million cubic feet to 4.1 million cubic feet (Table 5, Fig. 3).
- Ninety-one percent of industrial roundwood harvested in Nebraska was retained for processing by primary wood-using mills in the State. Mills in Wyoming, Iowa, South Dakota, Missouri, and other countries received Nebraska's industrial roundwood exports (Table 6).



Figure 3.—Industrial roundwood production by major species group and survey year, Nebraska (Blyth et al. 1984, Hackett and Adams 1996, Reading and Adams 2002, Piva and Adams 2008).

- Seventy-five percent of the industrial roundwood production volume was from the cottonwood species group. Ponderosa pine (10 percent), cedar/juniper (10 percent), white oaks (2 percent), and black walnut (2 percent) were other major species groups harvested (Table 7, Fig. 4).
- The production of ponderosa pine for industrial roundwood was down dramatically from 2006, from 1.42 million cubic feet to 404,000 cubic feet in 2009.
- The Eastern Forest Inventory Unit produced 3.5 million cubic feet of industrial roundwood, 87 percent of total State production; the remaining 13 percent was produced in the Western unit.

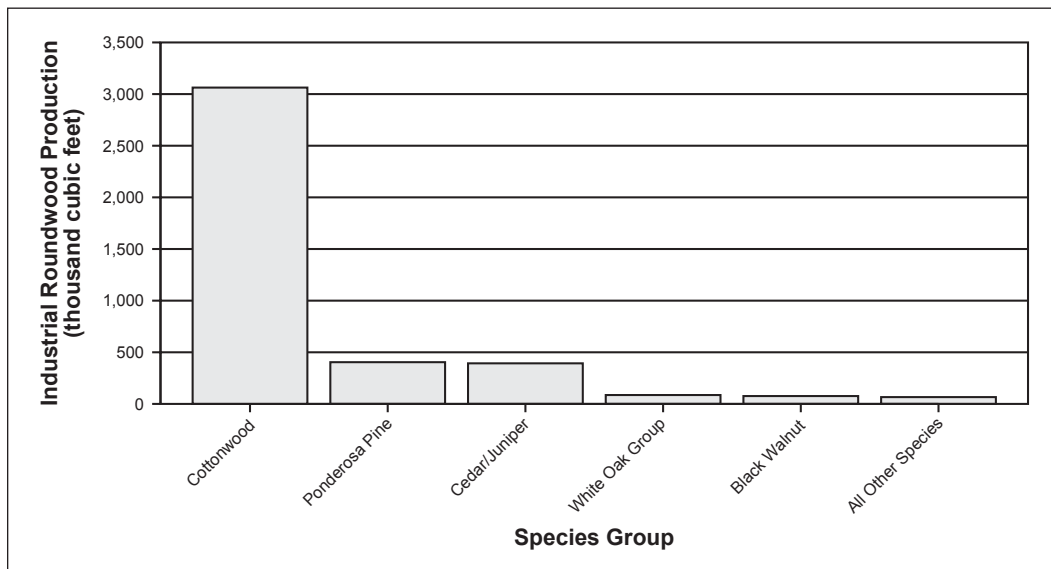


Figure 4.—Industrial roundwood production by species group, Nebraska, 2009.

- Harvesting saw logs accounted for 72 percent of the total industrial roundwood production. Excelsior/shaving mills were the second largest consumer of Nebraska’s industrial roundwood production, consuming 20 percent of the total volume (Table 8, Fig. 5a–Fig. 5d).

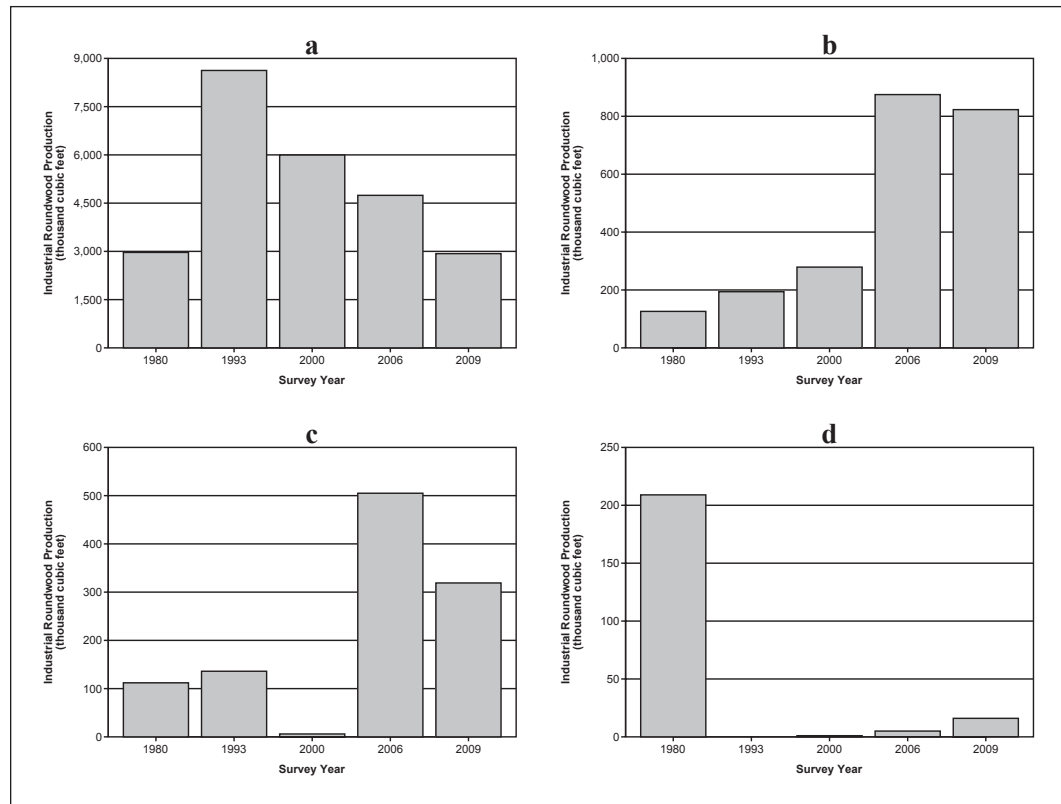


Figure 5.—Industrial roundwood production by survey year and (a) saw logs, (b) excelsior/shavings, (c) veneer logs, (d) posts and other products, Nebraska (Blyth et al. 1984, Hackett and Adams 1996, Reading and Adams 2002, Piva and Adams 2008).

Saw Logs

- Receipts at Nebraska sawmills totaled 19.3 million board feet in 2009, a decrease of 16 percent from the 22.9 million board feet received in 2006 (Table 9).
- Saw log production decreased by 37 percent between 2006 and 2009, from 29.5 to 18.5 million board feet.
- Cottonwood accounted for 80 percent of the total volume of saw log production in Nebraska. Other important species groups in saw log production were ponderosa pine (11 percent of total), white oaks, and black walnut (3 percent of total each) (Fig. 6).
- Ponderosa pine saw log production dropped by 76 percent, from 8.2 million board feet in 2006 to 1.9 million board feet in 2009.

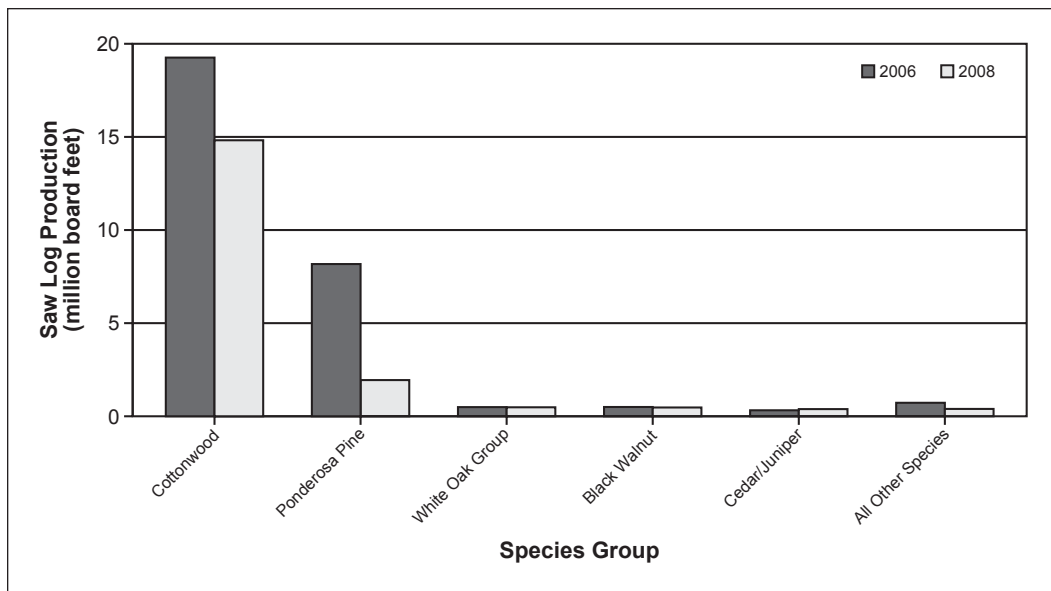


Figure 6.—Saw log production by species group, Nebraska, 2006 and 2009 (Piva and Adams 2008).

Other Products

- Excelsior/shavings, at 823,000 cubic feet, was the second most harvested product in Nebraska for 2006. Cottonwood (56 percent of total), cedar/juniper (36 percent), and ponderosa pine (8 percent) were the only species groups that were harvested for excelsior/shavings.
- Veneer log harvests amounted to 319,000 cubic feet (1.4 million board feet). Cottonwood and black walnut were the only species harvested for veneer.
- Posts and other miscellaneous products made up the rest of Nebraska harvests in 2006. These products accounted for less than 1 percent of the total volume of industrial roundwood production.

Timber Removals

- The harvest of industrial roundwood from Nebraska's forests in 2009 resulted in 5.6 million cubic feet of total wood material cut with 4.1 million cubic feet (73 percent) used for primary wood products and 1.5 million cubic feet (27 percent) left on the ground as harvest residues (Table 10, Fig. 7).
- Growing-stock sources, at 4.55 million cubic feet, was the largest component of removals for industrial roundwood production. Eighty-nine percent of the growing-stock removed was used for products, and the remaining 11 percent was left as logging residue. Sawtimber-size trees accounted for 98 percent of the growing-stock volume used for products.

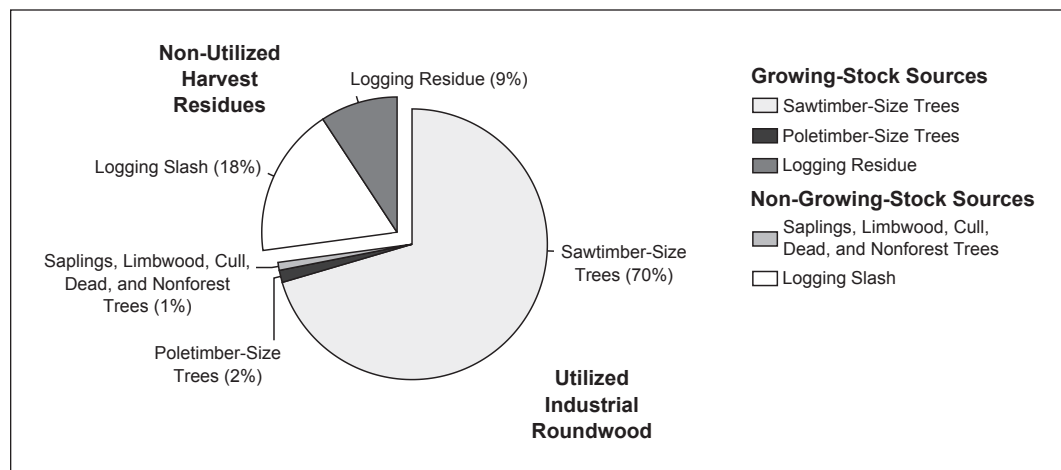


Figure 7.—Distribution of timber removals for industrial roundwood by source of material, Nebraska, 2009.

- Non-growing-stock sources of industrial roundwood production accounted for 1.06 million cubic feet of wood material removed. Five percent of this material was used for products; the remainder was left on the ground as logging slash. Seventy-two percent of the non-growing-stock material used for industrial roundwood came from cull trees; the rest of the volume used came from the limbs of growing-stock trees, saplings, dead trees, and nonforest trees.
- Eighty-seven percent of the total growing-stock material removed from Nebraska’s timberland came from the Eastern Forest Inventory Unit, and the remaining 13 percent came from the Western unit (Table 11).
- More than 25 million board feet of sawtimber was removed from Nebraska’s timberland. Cottonwood, ponderosa pine, and cedar/juniper accounted for 96 percent of the total sawtimber volume removed (Table 12).
- Ninety percent of the harvest residue in Nebraska was produced in the Eastern Forest Inventory Unit; the remainder was produced in the Western unit (Table 13).

Harvest Intensity

- In 2009, there were nearly 1.5 million acres of forest land in Nebraska (Meneguzzo 2011). The net volume in live trees on forest land was 2 billion cubic feet. The 5.6 million cubic feet of total wood material removed due to harvesting (Table 10) was less than 1 percent of the total volume (trees at least 5 inches d.b.h.).
- Harvest intensity across the State was light; only five counties had more than 25 cubic feet of industrial roundwood production per acre of forest land (Fig. 8). Some counties in which primary wood-using mills reported receiving roundwood had 0 acres of forest land as estimated by the FIA inventory. Therefore, we were unable to calculate harvest intensity for those counties.

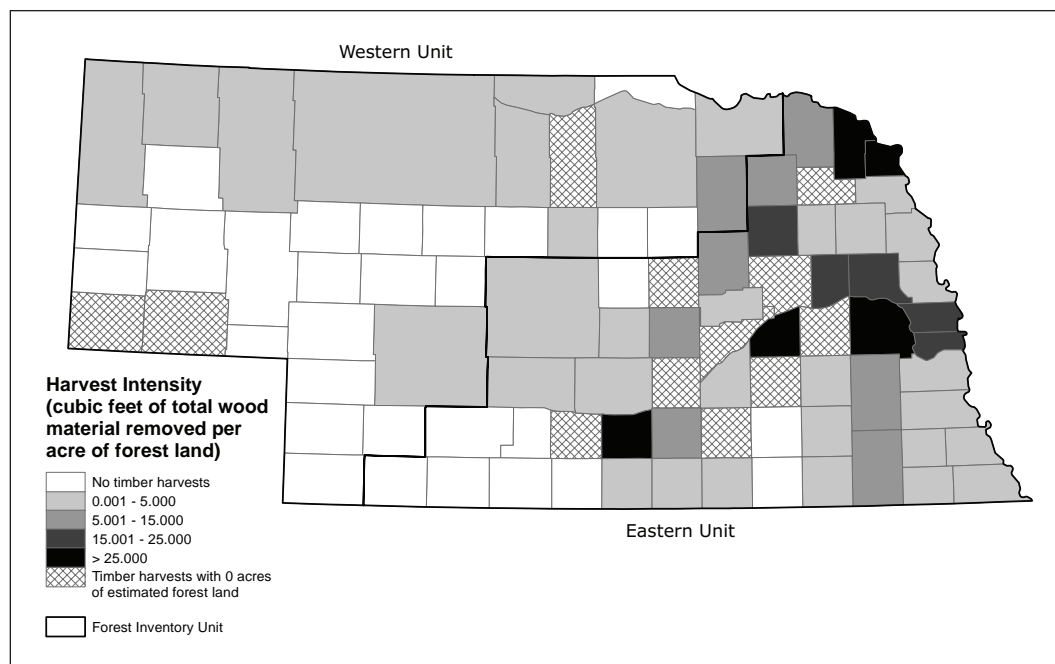


Figure 8.—Harvest intensity of industrial roundwood by county, Nebraska, 2009.

- The Eastern unit had the greater harvest intensity of the two Forest Inventory units at 7.14 cubic feet of wood material removed per acre of forest land. The Western unit had less than 1 cubic foot of wood material removed per acre.

Primary Mill Residues

- In converting industrial roundwood into products, Nebraska's primary wood-using industries generated 68,000 green tons of coarse wood residue (slabs, edgings, and veneer cores), fine wood residues (sawdust and veneer clippings), and bark residue (Table 14, Fig. 9a and Fig. 9b).
- Thirty-nine percent of mill residues generated were used for mulch. Miscellaneous uses, such as livestock bedding or specialty products, consumed 19 percent of mill residues, while industrial and residential fuel, combined, accounted for 18 percent. Twenty-four percent of residues generated went unused (Fig. 10).
- The top disposal method of coarse wood residue and bark was mulch, at 37 percent and 55 percent of the totals, respectively. Industrial fuel was the top disposal method of fine wood residue at 32 percent of the total.

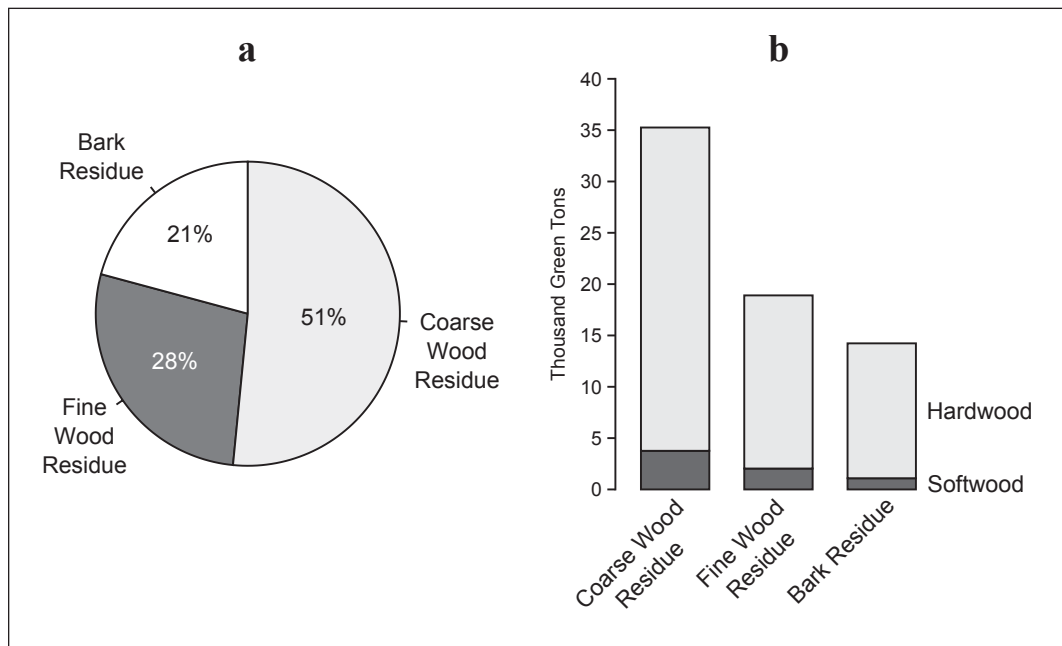


Figure 9.—Residues generated by primary wood-using mills by type of residue (a) and major species group (b), Nebraska, 2009.

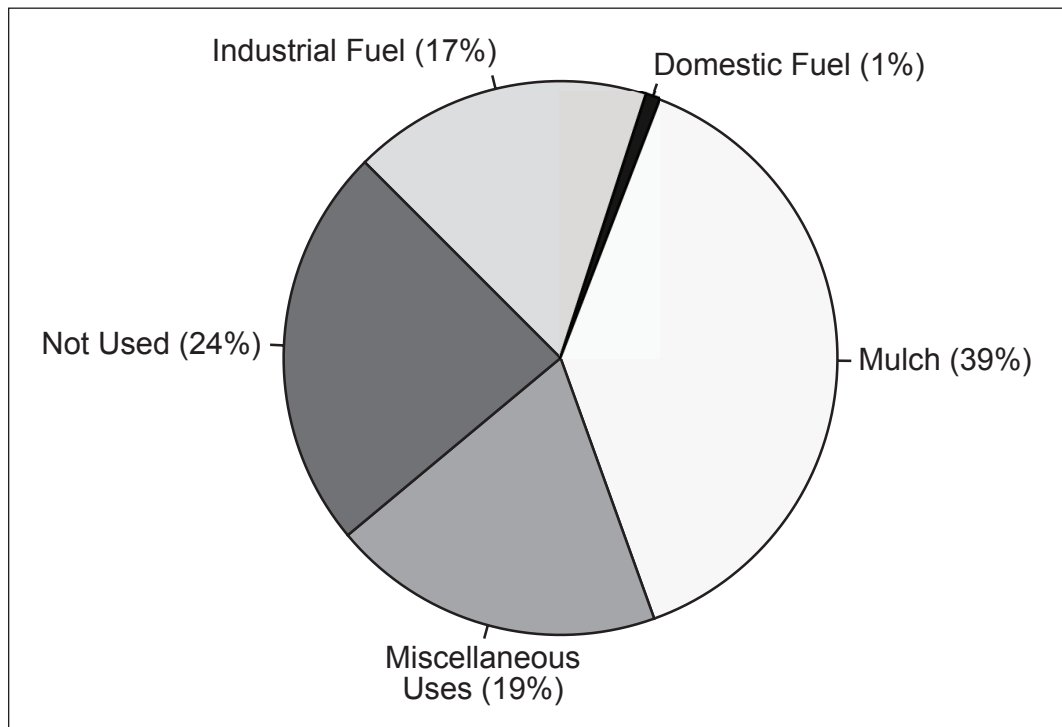


Figure 10.—Disposal of mill residue by product, Nebraska, 2009.

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APPENDIX

Definition of Terms

Board foot. Unit of measure for lumber cut from roundwood. One board foot is equivalent to a board that is 1 foot long, 1 foot wide, and 1 inch thick.

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, or other products.

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 but are 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.

Doyle rule. A simple log rule or formula for estimating the board-foot volume of logs based on a 4-inch slabbing allowance to square the log. This rule is used in the Eastern and Southern United States.

Exports. The volume of roundwood utilized by mills outside the state where the timber was harvested.

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

Forest land. Land at least 10-percent stocked with 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 classified as forest if less than 120 feet wide.

Growing-stock removals. The growing-stock volume removed from timberland 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 larger, from 1 foot above the ground to a minimum 4.0-inch top diameter outside bark of the central stem or to the point where the central stem breaks into limbs.

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

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

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

Imports. The volume of roundwood delivered to a mill or group of mills in a specific state but harvested outside that state.

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 ¼-inch rule. A log rule or formula for estimating the board-foot volume of logs, allowing ½ inch of taper for each 4-foot length and assuming ¼ inch of kerf. This rule is used as the U.S. Forest Service standard log rule in the Eastern United States.

Limewood 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. Trees species of typically small size, poor form, or inferior quality that normally do not develop into trees suitable for industrial roundwood products. Noncommercial species are listed in the 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, and pulp.

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 obtained incidental to production of principal products and wood materials not utilized for some product.

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

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

Retained. Roundwood volume harvested from and processed by mills within the same state.

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 forks, sweep and crook, and large branches or knots), including 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.

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 10, sawtimber removals refers to the net volume in the merchantable central stem of sawtimber-size trees harvested for industrial roundwood products. (Note: includes the saw log and upper stem portions of sawtimber-size trees.) When referring to the sawtimber volume removed from timberland as in Table 12, sawtimber removals refers to the net volume in the saw log portion of sawtimber-size trees harvested for roundwood products or left on the ground as harvest residue, and is usually expressed in thousands of board feet (International ¼-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 perennial plant, typically large, with a single well-defined stem carrying a more or less definite crown; sometimes defined as attaining a minimum diameter of 3 in. (7.6 cm) and a minimum height of 15 ft (4.6 m) at maturity. For FIA, any plant on the tree list in the current field manual is measured as a tree.

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 in Nebraska by TPO Species Group

Softwoods

Cedar/juniper

Rocky Mountain juniper *Juniperus scopulorum*

Eastern redcedar *Juniperus virginiana*

Ponderosa pine *Pinus ponderosa*

White pine

Eastern white pine *Pinus strobus*

Hardwoods

Soft maple

Boxelder *Acer negundo*

Silver maple *Acer saccharinum*

Hickory	
Bitternut hickory	<i>Carya cordiformis</i>
Shagbark hickory	<i>Carya ovata</i>
Hackberry	<i>Celtis occidentalis</i>
Ash	
Green ash	<i>Fraxinus pennsylvanica</i>
Black walnut	<i>Juglans nigra</i>
American sycamore	<i>Platanus occidentalis</i>
Cottonwood	
Eastern cottonwood	<i>Populus deltoides</i>
Plains cottonwood	<i>Populus deltoides ssp. Monilifera</i>
Black cherry	<i>Prunus serotina</i>
Red oak group	
Northern red oak	<i>Quercus rubra</i>
Black oak	<i>Quercus velutina</i>
White oak group	
Bur oak	<i>Quercus macrocarpa</i>
Chinkapin oak	<i>Quercus muehlenbergii</i>
Basswood	
American basswood (Linden)	<i>Tilia americana</i>

Elm

American elm

Ulmus Americana

Siberian elm

Ulmus pumila

Slippery elm

Ulmus rubra

Other hardwoods

Honeylocust

Gleditsia triacanthos

Black locust

Robinia pseudoacacia

Black willow

Salix nigra

Kentucky coffeetree

Gymnocladus dioicus

Tables

Table 1.—Conversion factors from reported unit of measure to standard unit of measure
(This table is in the Study Methods section.)

Table 2.—Number of active primary wood-using mills by mill type and survey year, Nebraska

Table 3.—Industrial roundwood receipts, in thousand cubic feet, by mill type, survey year,
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Table 8.—Industrial roundwood production by Forest Inventory Unit, species group, and
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Table 9.—Saw log receipts and production, in thousand board feet, International ¼-inch rule,
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Table 10.—Wood material harvested for industrial roundwood, in thousand cubic feet, by
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Table 11.—Growing-stock removals from timberland for industrial roundwood, in thousand
cubic feet, by Forest Inventory Unit, county, and species group, Nebraska, 2009

Table 12.—Sawtimber removals from timberland for industrial roundwood, in thousand
board feet, International ¼-inch rule, by Forest Inventory Unit, county, and species group,
Nebraska, 2009

Table 13.—Harvest residue generated by industrial roundwood harvesting, in thousand cubic
feet, by Forest Inventory Unit, county, and species group, Nebraska, 2009

Table 14.—Disposition of residues produced at primary wood-using mills, in green tons,
by Forest Inventory Unit, disposition, residue type, and softwoods and hardwoods,
Nebraska, 2009

Table 2.--Number of active primary wood-using mills by mill type and survey year, Nebraska

Mill type and mill size	Survey year			
	1980 ^c	1993	2000	2009
Sawmills^a				
5,000 mbf or greater	--	2	2	2
Between 1,000 and 4,999 mbf	7	10	5	2
Between 100 and 999 mbf	35	8	6	8
Less than 100 mbf		12	19	34
Total	42	32	32	57
Veneer mills	--	1	--	1
Post, pole, piling mills	2	--	--	3
Other mills ^b	2	2	2	1
All mills	46	35	34	62

^a Annual lumber production in thousand board feet (mbf), International 1/4-inch rule.

^b Includes mills producing excelsior/shavings, cabin logs, etc.

^c Numbers to categorize sawmills producing less than 1,000 mbf of lumber are unavailable for 1980.

Table 3.—Industrial roundwood receipts, in thousand cubic feet, by mill type, survey year, and softwoods and hardwoods, Nebraska

	Survey year					2006 - 2009 % change
	1993	2000	2006	2009		
All Species						
Saw mills	6,504	4,414	3,560	2,986		-16
Post, pole, piling mills	--	--	5	9		92
Other mills ^a	290	296	1,542	1,138		-26
Total	6,794	4,711	5,106	4,133		-19
Softwoods						
Saw mills	950	129	85	104		22
Post, pole, piling mills	--	--	1	8		567
Other mills ^a	119	279	681	362		-47
Total	1,068	408	767	473		-38
Hardwoods						
Saw mills	5,554	4,286	3,475	2,882		-17
Post, pole, piling mills	--	--	3	1		-67
Other mills ^a	172	17	861	776		-10
Total	5,725	4,303	4,339	3,659		-16

Columns and rows may not add to their totals due to rounding.

^a Includes mills producing excelsior/shavings, cabin logs, etc.

Table 4.—Industrial roundwood receipts, in thousand cubic feet, by species group and state of origin, Nebraska, 2009

Species group	Total	State of origin				
		Iowa	Kansas	Missouri	Nebraska	South Dakota
Softwoods						
Cedar/juniper	383	--	--	--	383	--
Ponderosa pine	90	--	--	--	90	--
White pine	0	--	--	--	0	--
Total	473	--	--	--	473	--
Hardwoods						
Ash	26	2	--	--	24	--
Black walnut	38	8	--	8	23	--
Cottonwood	3,443	376	--	--	3,059	8
Elm	18	2	--	--	17	--
Hackberry	6	1	--	--	5	--
Hickory	1	--	--	1	--	--
Soft maple	13	2	--	--	11	--
Red oak group	3	--	2	--	1	--
White oak group	106	12	5	2	86	0
Other hardwoods	6	1	--	--	5	--
Total	3,659	404	7	11	3,230	8
State total	4,133	404	7	11	3,704	8

All table cells without observations are indicated by --. Table value of 0 indicates the volume rounds to less than 1 thousand cubic feet. Columns and rows may not add to their totals due to rounding.

Table 5.—Industrial roundwood production, in thousand cubic feet, by product, softwoods and hardwoods, and survey year, Nebraska

Product	Survey year					% change from 2006 - 2009
	1980	1993	2000	2006	2009	
All species						
Saw logs	2,967	8,625	5,995	4,742	2,930	-38%
Veneer logs	112	136	6	505	319	-37%
Excelsior/shavings	126	194	279	875	823	-6%
Industrial fuelwood	--	--	14	8	--	--
Posts	209	--	0	5	9	92%
Other products ^a	--	--	--	--	7	--
Total	3,414	8,955	6,294	6,135	4,087	-33%
Softwoods						
Saw logs	313	3,876	2,266	1,491	420	-72%
Veneer logs	--	--	--	--	--	--
Excelsior/shavings	106	119	279	703	362	-48%
Industrial fuelwood	--	--	--	--	--	--
Posts	88	--	0	1	8	567%
Other products ^a	--	--	--	--	7	--
Total	507	3,995	2,545	2,195	797	-64%
Hardwoods						
Saw logs	2,654	4,749	3,729	3,252	2,510	-23%
Veneer logs	112	136	6	505	319	-37%
Excelsior/shavings	20	75	--	172	461	168%
Industrial fuelwood	--	--	14	8	--	--
Posts	121	--	--	3	1	-67%
Other products ^a	--	--	--	--	--	--
Total	2,907	4,960	3,750	3,940	3,291	-16%

All table cells without observations are indicated by --. Table value of 0 indicates the volume rounds to less than 1 thousand cubic feet. Columns and rows may not add to their totals due to rounding.

^a Includes cabin logs and other miscellaneous products.

Table 6.—Industrial roundwood production, in thousand cubic feet, by species group and state of destination, Nebraska, 2009

Species group	Total	State of destination					
		Iowa	Missouri	Nebraska	South Dakota	Wyoming	Other Countries
Softwoods							
Cedar/juniper	393	--	--	383	9	0	--
Ponderosa pine	404	--	--	90	2	312	--
White pine	0	--	--	0	--	--	--
Total	797	--	--	473	12	312	--
Hardwoods							
Ash	24	--	--	24	--	--	--
Black walnut	76	44	4	23	--	1	4
Cottonwood	3,063	--	4	3,059	--	--	--
Elm	17	--	--	17	--	--	--
Hackberry	5	--	--	5	--	--	--
Soft maple	12	--	1	11	--	--	--
Red oak group	3	--	1	1	--	--	--
White oak group	86	--	0	86	--	--	--
Sycamore	0	--	0	--	--	--	--
Other hardwoods	5	--	--	5	--	--	--
Total	3,291	44	11	3,230	--	1	4
State total	4,087	44	11	3,704	12	313	4

All table cells without observations are indicated by --. Table value of 0 indicates the volume rounds to less than 1 thousand cubic feet. Columns and rows may not add to their totals due to rounding.

Table 7.—Industrial roundwood production, in thousand cubic feet, by Forest Inventory Unit, county, and species group, Nebraska, 2009

Forest Inventory Unit and county	All species	Softwoods					Hardwoods		
		Cedar/juniper	Ponderosa pine	White pine	Total softwoods	Ash	Black walnut	Cottonwood	
Eastern Unit									
Adams	61	--	--	--	--	2	--	53	
Boone	23	1	--	--	1	--	--	22	
Buffalo	64	0	--	--	0	2	0	55	
Burt	6	--	--	--	--	--	--	6	
Butler	7	0	--	--	0	--	0	6	
Cass	0	--	--	--	--	--	0	--	
Cedar	128	0	--	--	0	--	--	128	
Clay	0	--	--	--	--	--	--	--	
Colfax	171	33	--	--	33	--	--	138	
Cuming	17	1	0	--	1	0	--	15	
Custer	0	0	--	--	0	--	0	--	
Dakota	322	--	--	--	--	--	0	321	
Dawson	1	1	--	--	1	--	--	--	
Dixon	162	0	--	--	0	--	0	161	
Dodge	187	33	--	0	33	1	0	145	
Douglas	175	--	--	--	--	2	--	158	
Franklin	61	--	--	--	--	2	--	53	
Gage	13	0	--	--	0	0	3	4	
Greeley	66	33	--	--	33	--	--	33	
Hall	62	1	--	--	1	2	--	53	
Hamilton	1	--	--	--	--	--	1	--	

Table 7.–Continued

Forest Inventory Unit and county	All species	Softwoods					Hardwoods			Cotton- wood
		Cedar/ juniper	Ponderosa pine	White pine	Total softwoods	Ash	Black walnut			
Howard	66	33	--	--	33	--	--	--	33	
Jefferson	5	1	--	--	1	--	4	--	--	
Johnson	0	--	--	--	--	--	--	--	--	
Kearney	61	--	--	--	--	2	--	--	53	
Lancaster	88	--	--	--	--	1	1	1	79	
Madison	80	--	--	--	--	--	--	--	80	
Merrick	139	71	--	--	71	2	--	--	66	
Nance	101	35	--	--	35	--	--	--	66	
Nemaha	10	0	--	--	0	--	9	--	0	
Nuckolls	0	--	--	--	--	--	--	--	--	
Otoe	7	--	--	--	--	--	7	--	--	
Pawnee	4	0	--	--	0	--	2	--	--	
Phelps	0	0	--	--	0	--	--	--	--	
Pierce	64	--	--	--	--	--	--	--	64	
Platte	116	34	--	--	34	--	--	--	82	
Polk	117	36	--	--	36	0	0	0	79	
Richardson	37	--	--	--	--	0	27	4	4	
Saline	13	--	--	--	--	0	2	4	4	
Sarpy	175	--	--	--	--	2	--	158	--	
Saunders	690	0	--	--	0	2	0	672	--	
Seward	8	1	--	--	1	1	3	0	0	
Sherman	6	4	1	--	6	--	--	--	--	

Table 7.—Continued

Forest Inventory Unit and county	All species	Softwoods				Total softwoods	Hardwoods			Cotton- wood
		Cedar/ juniper	Ponderosa pine	White pine	Ash		Black walnut			
Stanton	29	--	--	--	--	--	--	--	29	
Thurston	7	--	--	--	--	--	7	--	--	
Washington	5	--	--	--	--	--	5	--	--	
Wayne	112	0	--	--	0	--	--	--	112	
Webster	62	0	--	--	0	2	0	0	53	
York	13	5	--	--	5	1	1	1	6	
Total	3,542	326	2	0	328	22	74	2,991		
Western Unit										
Antelope	55	1	0	--	1	0	0	0	53	
Brown	16	16	--	--	16	--	--	--	--	
Cherry	18	7	10	--	17	0	0	0	--	
Cheyenne	1	--	--	--	--	--	--	--	0	
Dawes	162	1	161	--	162	--	--	--	--	
Holt	2	2	--	--	2	--	--	--	--	
Keya Paha	94	19	74	--	93	0	0	0	--	
Kimball	2	--	--	--	--	0	--	--	1	
Knox	24	7	--	--	7	--	0	--	17	
Lincoln	10	8	0	--	9	0	0	0	--	
Loup	1	1	--	--	1	--	--	--	--	
Rock	5	5	--	--	5	--	--	--	--	
Sheridan	1	--	1	--	1	--	--	--	--	
Sioux	157	0	155	--	156	--	1	1	--	
Total	546	67	402	--	469	1	2	71		

Table 7.—Continued

Forest Inventory Unit and county	Hardwoods										Total hardwoods
	Elm	Hackberry	Soft maple	Red oak group	White oak group	Sycamore	Other hardwoods				
Jefferson	--	--	--	--	0	--	--	--	--	4	
Johnson	--	--	--	--	0	--	--	0	--	0	
Kearney	1	--	--	--	5	--	--	--	--	61	
Lancaster	1	0	1	--	5	--	--	0	--	88	
Madison	--	--	--	--	--	--	--	--	--	80	
Merrick	--	--	--	--	--	--	--	--	--	68	
Nance	--	--	--	--	1	--	--	--	--	66	
Nemaha	--	--	--	0	--	--	--	0	--	10	
Nuckolls	--	--	--	--	0	--	--	--	--	0	
Otoe	--	--	--	--	--	--	--	--	--	7	
Pawnee	--	--	--	--	1	--	--	0	--	4	
Phelps	--	--	--	--	--	--	--	--	--	--	
Pierce	--	--	--	--	--	--	--	--	--	64	
Platte	--	--	--	--	--	--	--	--	--	82	
Polk	0	--	--	--	--	--	--	--	--	80	
Richardson	--	--	1	1	3	0	--	--	--	37	
Saline	0	--	2	--	4	--	--	--	--	13	
Sarpy	2	1	2	--	10	--	--	1	--	175	
Saunders	2	1	2	--	10	--	--	1	--	690	
Seward	0	0	0	--	1	--	--	--	--	6	
Sherman	--	--	--	--	--	--	--	--	--	--	
Stanton	--	--	--	--	--	--	--	--	--	29	
Thurston	--	--	--	--	--	--	--	--	--	7	

Table 7.--Continued

Forest Inventory Unit and county	Hardwoods										Total hardwoods
	Elm	Hackberry	Soft maple	Red oak group	White oak group	Sycamore	Other hardwoods			Total hardwoods	
Washington	--	--	--	--	0	--	--	--	--	5	
Wayne	--	--	--	--	0	--	--	--	--	112	
Webster	2	0	0	--	5	--	--	0	--	62	
York	--	--	--	--	1	--	--	--	--	8	
Total	16	5	12	3	85	0	0	5	5	3,214	
Western Unit											
Antelope	--	--	--	--	0	--	--	--	--	54	
Brown	--	--	--	--	--	--	--	0	--	0	
Cherry	--	--	--	--	0	--	--	--	--	1	
Cheyenne	0	--	--	--	--	--	--	--	--	1	
Dawes	--	--	--	--	--	--	--	--	--	--	
Holt	--	--	--	--	--	--	--	--	--	--	
Keya Paha	--	--	--	--	0	--	--	--	--	1	
Kimball	0	--	--	--	--	--	--	--	--	2	
Knox	--	--	--	--	--	--	--	--	--	17	
Lincoln	--	0	--	--	--	--	--	--	--	1	
Loup	--	--	--	--	--	--	--	--	--	--	
Rock	--	--	--	--	--	--	--	--	--	--	
Sheridan	--	--	--	--	--	--	--	--	--	--	
Sioux	--	--	--	--	--	--	--	--	--	1	
Total	1	0	12	3	86	0	0	5	5	77	
State total	17	5	12	3	86	0	0	5	5	3,291	

All table cells without observations are indicated by --. Table value of 0 indicates the volume rounds to less than 1 thousand cubic feet. Columns and rows may not add to their totals due to rounding.

Table 8.—Industrial roundwood production by Forest Inventory Unit, species group, and product, Nebraska, 2009

ALL UNITS

Species group	Product													
	All products			Saw logs			Veneer logs			Excelsior/shavings		Posts		Other products ^a
	MCF ^b	MBF ^c	MCF ^b	MBF ^c	MCF ^b	MBF ^c	MCF ^b	MBF ^c	MCF ^b	M pieces ^d	MCF ^b	MCF ^b	MCF ^b	
Softwoods														
Cedar/juniper	393	385	82	--	--	--	296	--	--	10	8	7		
Ponderosa pine	404	1,944	338	--	--	--	66	--	--	--	--	--		
White pine	0	0	0	--	--	--	--	--	--	--	--	--		
Total	797	2,330	420	--	--	--	362	--	--	10	8	7		
Hardwoods														
Ash	24	139	24	--	--	--	--	--	--	--	--	--		
Black walnut	76	472	72	28	4	--	--	--	--	--	--	--		
Cottonwood	3,063	14,820	2,287	1,378	315	--	461	--	--	--	--	--		
Elm	17	105	17	--	--	--	--	--	--	--	--	--		
Hackberry	5	33	5	--	--	--	--	--	--	--	--	--		
Soft maple	12	74	12	--	--	--	--	--	--	--	--	--		
Red oak group	3	15	3	--	--	--	--	--	--	--	--	--		
White oak group	86	482	86	--	--	--	--	--	--	--	--	--		
Sycamore	0	3	0	--	--	--	--	--	--	--	--	--		
Other hardwoods	5	25	4	--	--	--	--	--	--	2	1	--		
Total	3,291	16,168	2,510	1,406	319	461	823	2	12	2	1	--		
State total	4,087	18,498	2,930	1,406	319	823	9	7						

Table 8.—Continued

Species group	EASTERN UNIT											
	All products					Product						
	MCF ^b	MBF ^c	MCF ^b	MBF ^c	MCF ^b	MBF ^c	Veneer logs	Excelsior/ shavings	M pieces ^d	Posts	MCF ^b	Other products ^a
Softwoods												
Cedar/juniper	326	117	25	--	--	--	296	6	5	0		
Ponderosa pine	2	10	2	--	--	--	--	--	--	--		
White pine	0	0	0	--	--	--	--	--	--	--		
Total	328	127	27	--	--	--	296	6	5	0		
Hardwoods												
Ash	22	131	22	--	--	--	--	--	--	--		
Black walnut	74	456	70	28	4	--	--	--	--	--		
Cottonwood	2,991	14,358	2,215	1,378	315	461	--	--	--	--		
Elm	16	101	16	--	--	--	--	--	--	--		
Hackberry	5	30	5	--	--	--	--	--	--	--		
Soft maple	12	74	12	--	--	--	--	--	--	--		
Red oak group	3	15	3	--	--	--	--	--	--	--		
White oak group	85	478	85	--	--	--	--	--	--	--		
Sycamore	0	3	0	--	--	--	--	--	--	--		
Other hardwoods	5	24	4	--	--	--	--	2	1	--		
Total	3,214	15,670	2,433	1,406	319	461	2	2	1	--		
Unit total	3,542	15,797	2,459	1,406	319	757	8	6	0			

Table 8.-Continued

Species group	WESTERN UNIT										
	Product					Product					
	All products		Saw logs		Veneer logs		Excelsior/shavings		Posts		Other products ^a
	MCF ^b	MBF ^c	MCF ^b	MBF ^c	MCF ^b	MBF ^c	MCF ^b	MBF ^c	M pieces ^d	MCF ^b	MCF ^b
Softwoods											
Cedar/juniper	67	268	57	--	--	--	--	--	4	3	7
Ponderosa pine	402	1,935	336	--	--	--	66	--	--	--	--
Total	469	2,203	393	--	--	--	66	4	4	3	7
Hardwoods											
Ash	--	--	--	--	--	--	--	--	--	--	--
Black walnut	1	8	1	--	--	--	--	--	--	--	--
Cottonwood	2	16	2	--	--	--	--	--	--	--	--
Elm	71	462	71	--	--	--	--	--	--	--	--
Hackberry	1	4	1	--	--	--	--	--	--	--	--
White oak group	0	2	0	--	--	--	--	--	--	--	--
Other hardwoods	1	4	1	--	--	--	--	--	--	--	--
Total	77	498	77	--	--	--	66	4	4	3	7
Unit total	546	2,701	470	--	--	--	66	4	4	3	7

All table cells without observations are indicated by --. Table value of 0 indicates the volume rounds to less than 1 unit of measure. Columns and rows may not add to their totals due to rounding.

^a Includes cabin logs and other miscellaneous products.

^b Thousand cubic feet.

^c Thousand board feet, International 1/4-inch rule.

^d Thousand pieces.

Table 9.—Saw log receipts and production, in thousand board feet, International 1/4-inch rule, by species group, Nebraska, 2006 and 2009

Species group	Receipts		Percent change	Production		Percent change
	2006	2009		2006	2009	
Softwoods						
Cedar/juniper	305	372	22%	322	385	20%
Ponderosa pine	100	139	39%	8,174	1,944	-76%
White pine	--	0	--	--	0	--
Spruce	13	--	--	13	--	--
Total	418	511	22%	8,508	2,330	-73%
Hardwoods						
Ash	94	150	60%	103	139	35%
Basswood	141	--	--	151	--	--
Black walnut	304	216	-29%	499	472	-5%
Cottonwood	20,857	17,501	-16%	19,259	14,820	-23%
Elm	142	116	-18%	142	105	-26%
Hackberry	160	38	-76%	105	33	-69%
Hickory	--	6	--	--	--	--
Hard maple	3	--	--	3	--	--
Soft maple	174	80	-54%	133	74	-45%
Red oak group	45	16	-64%	63	15	-76%
White oak group	550	592	8%	492	482	-2%
Sycamore	1	--	--	11	3	-71%
Other hardwoods	1	31	6103%	1	25	4999%
Total	22,472	18,747	-17%	20,962	16,168	-23%
State total	22,890	19,259	-16%	29,470	18,498	-37%

All table cells without observations are indicated by --. Table value of 0 indicates the volume rounds to less than 1 thousand board feet. Columns and rows may not add to their totals due to rounding.

Table 10.—Wood material harvested for industrial roundwood, in thousand cubic feet, by species group and source of material, Nebraska, 2009^a

SOURCE OF MATERIAL

Species group	Growing stock					Non-growing stock					Total wood harvested			
	Used for products		Logging residue (not used)	Total growing stock	Limb-wood	Used for products			Logging slash (not used)	Total non-growing stock		Total wood material not used		
	Saw-timber	Pole-timber				Saplings	Cull trees	Dead trees					forest trees	
Softwoods														
Cedar/juniper	359.3	30.6	27.5	417.4	--	2.0	0.7	0.4	--	38.6	41.7	393.0	66.1	459.1
Ponderosa pine	397.2	6.0	42.2	445.4	--	--	0.4	--	--	53.9	54.3	403.6	96.0	499.6
White pine	0.0	--	0.0	0.1	--	--	0.0	--	--	0.0	0.0	0.0	0.0	0.1
Total	756.6	36.6	69.6	862.8	--	2.0	1.0	0.4	--	92.5	96.0	796.6	162.1	958.8
Hardwoods														
Ash	21.5	--	8.9	30.4	0.6	--	1.7	--	--	8.2	10.4	23.8	17.1	40.9
Black walnut	63.8	--	6.0	69.8	1.3	--	1.9	--	9.2	19.3	31.7	76.2	25.3	101.5
Cottonwood	3,020.9	41.9	412.1	3,475.0	--	--	--	--	--	850.1	850.1	3,062.8	1,262.3	4,325.1
Elm	14.4	--	1.6	16.0	--	--	1.8	0.5	--	5.0	7.2	16.7	6.5	23.2
Hackberry	4.5	--	0.5	5.0	--	--	0.6	0.1	--	1.5	2.2	5.2	2.0	7.2
Soft maple	10.1	--	1.1	11.2	--	--	1.3	0.3	--	3.5	5.1	11.7	4.6	16.3
Red oak group	1.7	0.1	0.5	2.3	0.0	--	0.9	--	--	0.7	1.6	2.7	1.2	3.9
White oak group	54.6	3.0	17.7	75.3	0.0	--	28.4	--	--	22.0	50.5	86.1	39.7	125.8
Sycamore	0.4	--	0.0	0.5	--	--	0.1	0.0	--	0.1	0.2	0.5	0.2	0.7
Other hardwoods	4.0	0.2	0.4	4.7	0.0	0.0	0.6	0.1	0.1	1.2	2.1	5.2	1.6	6.8
Total	3,195.9	45.2	449.0	3,690.1	2.0	0.0	37.2	1.1	9.3	911.6	961.2	3,290.8	1,360.6	4,651.4
State total	3,952.5	81.8	518.6	4,552.9	2.0	2.1	38.2	1.5	9.3	1,004.1	1,057.2	4,087.4	1,522.7	5,610.1

All table cells without observations are indicated by --. Table value of 0 indicates the volume rounds to less than 0.1 thousand cubic feet. Columns and rows may not add to their totals due to rounding.

^a Based on factors obtained from regional utilization studies.

Table 11.—Growing-stock removals from timberland for industrial roundwood, in thousand cubic feet, by Forest Inventory Unit, county, and species group, Nebraska, 2009

Forest Inventory Unit and county	All species	Softwoods				Total softwoods	Hardwoods			Cotton-wood
		Cedar/juniper	Ponderosa pine	White pine	Ash		Black walnut			
Eastern Unit										
Adams	69	--	--	--	--	2	--	--	61	
Boone	26	1	--	--	1	--	--	--	25	
Buffalo	72	0	--	--	0	2	0	63		
Burt	7	--	--	--	--	--	--	7		
Butler	7	0	--	--	0	--	0	6		
Cass	0	--	--	--	--	--	0	--		
Cedar	147	0	--	--	0	--	--	147		
Clay	0	--	--	--	--	--	--	--		
Colfax	188	36	--	--	36	--	--	153		
Cuming	20	1	1	--	1	1	--	17		
Custer	0	0	--	--	0	--	0	--		
Dakota	371	--	--	--	--	--	0	370		
Dawson	1	1	--	--	1	--	--	--		
Dixon	186	0	--	--	0	--	0	186		
Dodge	208	36	--	0	36	2	0	163		
Douglas	198	--	--	--	--	2	--	181		
Franklin	69	--	--	--	--	2	--	61		
Gage	13	0	--	--	0	0	2	5		
Greeley	72	36	--	--	36	--	--	36		
Hall	70	1	--	--	1	2	--	61		
Hamilton	1	--	--	--	--	--	1	--		

Table 11.—Continued

Forest Inventory Unit and county	All species	Softwoods				Total softwoods	Hardwoods			Cotton- wood
		Cedar/ juniper	Ponderosa pine	White pine	Ash		Black walnut			
Howard	72	36	--	--	36	--	--	--	36	
Jefferson	4	1	--	--	1	--	3	--	--	
Johnson	0	--	--	--	--	--	--	--	--	
Kearney	69	--	--	--	--	2	--	--	61	
Lancaster	99	--	--	--	--	1	1	--	91	
Madison	92	--	--	--	--	--	--	--	92	
Merrick	152	77	--	--	77	2	--	--	73	
Nance	110	37	--	--	37	--	--	--	72	
Nemaha	10	0	--	--	0	--	8	1	1	
Nuckolls	0	--	--	--	--	--	--	--	--	
Otoe	7	--	--	--	--	--	7	--	--	
Pawnee	3	0	--	--	0	--	2	--	--	
Phelps	0	0	--	--	0	--	--	--	--	
Pierce	74	--	--	--	--	--	--	--	74	
Platte	127	36	--	--	36	--	--	--	90	
Polk	127	39	--	--	39	0	0	0	87	
Richardson	35	--	--	--	--	0	25	5	5	
Saline	13	--	--	--	--	0	2	5	5	
Sarpy	197	--	--	--	--	2	--	181	181	
Saunders	771	0	--	--	0	3	0	755	755	
Seward	7	1	--	--	1	1	3	0	0	
Sherman	6	4	1	--	6	--	--	--	--	
Stanton	33	--	--	--	--	--	--	--	33	
Thurston	6	--	--	--	--	--	6	--	--	

Table 11.—Continued

Forest Inventory Unit and county	All species	Softwoods				Total softwoods	Hardwoods			Cotton- wood
		Cedar/ juniper	Ponderosa pine	White pine	Ash		Black walnut			
Washington	4	--	--	--	--	--	--	4	--	
Wayne	129	0	--	--	0	--	--	--	129	
Webster	70	0	--	--	0	2	0	0	61	
York	14	5	--	--	5	1	1	1	7	
Total	3,956	352	2	0	354	29	68	3,393		
Western Unit										
Antelope	63	1	0	--	1	0	0	0	62	
Brown	16	16	--	--	16	--	--	--	--	
Cherry	19	7	11	--	18	0	0	0	--	
Cheyenne	1	--	--	--	--	--	--	--	0	
Dawes	179	1	178	--	179	--	--	--	--	
Holt	1	1	--	--	1	--	--	--	--	
Keya Paha	100	19	81	--	100	0	0	0	--	
Kimball	2	--	--	--	--	1	--	--	1	
Knox	27	7	--	--	7	--	0	0	19	
Lincoln	10	8	0	--	8	1	0	0	--	
Loup	1	1	--	--	1	--	--	--	--	
Rock	5	5	--	--	5	--	--	--	--	
Sheridan	1	--	1	--	1	--	--	--	--	
Sioux	173	0	172	--	172	--	1	1	--	
Total	597	66	443	--	509	2	2	82		
State total	4,553	417	445	0	863	30	70	3,475		

Table 11.—Continued

Forest Inventory Unit and county	Hardwoods										Total hardwoods	
	Elm	Hackberry	Soft maple	Red oak group	White oak group	Sycamore	Other hardwoods					
Eastern Unit												
Adams	1	--	--	--	4	--	--	--	--	--	--	69
Boone	--	--	--	--	--	--	--	--	--	--	--	25
Buffalo	1	--	--	--	5	--	--	--	--	--	--	72
Burt	--	--	--	--	--	--	--	--	--	--	--	7
Butler	--	--	--	--	0	--	--	--	--	--	--	7
Cass	--	--	--	--	--	--	--	--	--	--	--	0
Cedar	--	--	--	--	--	--	--	--	--	--	--	147
Clay	--	--	--	--	0	--	--	--	--	--	--	0
Colfax	--	--	--	--	--	--	--	--	--	--	--	153
Cuming	--	0	--	--	--	--	--	0	--	--	--	18
Custer	--	--	--	--	--	--	--	--	--	--	--	0
Dakota	--	--	--	--	0	--	--	--	--	--	--	371
Dawson	--	--	--	--	--	--	--	--	--	--	--	--
Dixon	--	--	--	--	--	--	--	--	--	--	--	186
Dodge	1	0	1	0	5	--	--	0	--	0	--	172
Douglas	2	1	2	1	9	--	--	1	--	1	--	198
Franklin	1	--	--	--	4	--	--	--	--	--	--	69
Gage	0	0	1	--	3	--	--	--	--	--	--	12
Greeley	--	--	--	--	--	--	--	--	--	--	--	36
Hall	1	--	--	--	4	--	--	--	--	--	--	69
Hamilton	--	--	--	--	--	--	--	--	--	--	--	1
Howard	--	--	--	--	--	--	--	--	--	--	--	36
Jefferson	--	--	--	--	0	--	--	--	--	--	--	4

Table 11.--Continued

Forest Inventory Unit and county	Hardwoods								Total hardwoods
	Elm	Hackberry	Soft maple	Red oak group	White oak group	Sycamore	Other hardwoods		
Washington	--	--	--	--	0	--	--	--	4
Wayne	--	--	--	--	0	--	--	--	129
Webster	2	0	0	--	4	--	0	0	69
York	--	--	--	--	1	--	--	--	9
Total	15	5	11	2	75	0	4	4	3,602
Western Unit									
Antelope	--	--	--	--	0	--	--	--	62
Brown	--	--	--	--	--	--	0	0	0
Cherry	--	--	--	--	0	--	--	--	1
Cheyenne	0	--	--	--	--	--	--	--	1
Dawes	--	--	--	--	--	--	--	--	--
Holt	--	--	--	--	--	--	--	--	--
Keya Paha	--	--	--	--	0	--	--	--	1
Kimball	0	--	--	--	--	--	--	--	2
Knox	--	--	--	--	--	--	--	--	20
Lincoln	--	0	--	--	--	--	--	--	1
Loup	--	--	--	--	--	--	--	--	--
Rock	--	--	--	--	--	--	--	--	--
Sheridan	--	--	--	--	--	--	--	--	--
Sioux	--	--	--	--	--	--	--	--	1
Total	1	0	11	2	75	0	0	0	88
State total	16	5	11	2	75	0	5	5	3,690

All table cells without observations are indicated by --. Table value of 0 indicates the volume rounds to less than 1 thousand cubic feet. Columns and rows may not add to their totals due to rounding.

Table 12.—Sawtimber removals from timberland for industrial roundwood, in thousand board feet, International 1/4-inch rule, by Forest Inventory Unit, county, and species group, Nebraska, 2009

Forest Inventory Unit and county	All species	Softwoods					Total softwoods	Hardwoods			Cotton-wood
		Cedar/juniper	Ponderosa pine	White pine	Ash	Black walnut					
Eastern Unit											
Adams	395	--	--	--	--	--	10	--	--	361	
Boone	150	2	--	--	--	2	--	--	--	147	
Buffalo	411	1	--	--	--	1	10	1	1	372	
Burt	40	--	--	--	--	--	--	--	--	40	
Butler	36	1	--	--	--	1	--	2	2	31	
Cass	2	--	--	--	--	--	--	2	2	--	
Cedar	869	2	--	--	--	2	--	--	--	867	
Clay	0	--	--	--	--	--	--	--	--	--	
Colfax	976	192	--	--	--	192	--	--	--	784	
Cuming	115	4	3	--	--	7	3	--	--	101	
Custer	1	1	--	--	--	1	--	1	1	--	
Dakota	2,186	--	--	--	--	--	--	2	2	2,182	
Dawson	0	0	--	--	--	0	--	--	--	--	
Dixon	1,098	1	--	--	--	1	--	1	1	1,096	
Dodge	1,153	192	--	0	--	192	7	2	2	918	
Douglas	1,146	--	--	--	--	--	12	--	--	1,070	
Franklin	397	--	--	--	--	--	10	--	--	361	
Gage	68	1	--	--	--	1	2	15	2	29	
Greeley	383	192	--	--	--	192	--	--	--	192	
Hall	401	4	--	--	--	4	10	--	--	361	
Hamilton	4	--	--	--	--	--	--	4	4	--	

Table 12.–Continued

Forest Inventory Unit and county	All species	Softwoods					Total softwoods	Hardwoods			Cotton- wood
		Cedar/ juniper	Ponderosa pine	White pine	Ash	Black walnut					
Howard	383	192	--	--	--	192	--	--	--	192	
Jefferson	26	3	--	--	--	3	--	22	--	--	
Johnson	1	--	--	--	--	--	--	--	--	--	
Kearney	394	--	--	--	--	--	10	--	--	361	
Lancaster	576	--	--	--	--	--	6	4	--	535	
Madison	542	--	--	--	--	--	--	--	--	542	
Merrick	803	404	--	--	--	404	12	--	--	387	
Nance	577	192	--	--	--	192	--	--	--	383	
Nemaha	59	1	--	--	--	1	--	53	--	3	
Nuckolls	0	--	--	--	--	--	--	--	--	--	
Otoe	41	--	--	--	--	--	--	41	--	--	
Pawnee	18	1	--	--	--	1	--	12	--	--	
Phelps	1	1	--	--	--	1	--	--	--	--	
Pierce	434	--	--	--	--	--	--	--	--	434	
Platte	685	192	--	--	--	192	--	--	--	493	
Polk	670	207	--	--	--	207	1	2	--	458	
Richardson	207	--	--	--	--	--	1	157	--	27	
Saline	68	--	--	--	--	--	1	12	--	29	
Sarpy	1,144	--	--	--	--	--	12	--	--	1,070	
Saunders	3,995	1	--	--	--	1	12	1	--	3,918	
Seward	40	7	--	--	--	7	4	19	--	1	
Sherman	27	20	7	--	--	27	--	--	--	--	
Stanton	195	--	--	--	--	--	--	--	--	195	

Table 12.–Continued

Forest Inventory Unit and county	All species	Softwoods					Hardwoods			Cotton- wood
		Cedar/ juniper	Ponderosa pine	White pine	Total softwoods	Ash	Black walnut			
Thurston	38	--	--	--	--	--	--	38	--	--
Washington	28	--	--	--	--	--	--	28	--	--
Wayne	761	1	--	--	1	--	--	--	--	759
Webster	400	2	--	--	2	10	0	0	0	361
York	74	23	--	--	23	4	6	6	4	39
Total	22,019	1,840	10	0	1,850	138	425	19,102		
Western Unit										
Antelope	369	3	1	--	4	0	1	363		
Brown	73	71	--	--	71	--	--	--		--
Cherry	95	30	59	--	90	1	2	--		--
Cheyenne	4	--	--	--	--	--	--	3		--
Dawes	955	4	950	--	955	--	--	--		--
Holt	1	1	--	--	1	--	--	--		--
Keya Paha	520	84	433	--	516	1	2	--		--
Kimball	10	--	--	--	--	3	--	4		--
Knox	147	31	--	--	31	--	1	114		--
Lincoln	43	35	1	--	36	3	2	--		--
Loup	7	7	--	--	7	--	--	--		--
Rock	20	20	--	--	20	--	--	--		--
Sheridan	4	--	4	--	4	--	--	--		--
Sioux	924	2	917	--	919	--	6	--		--
Total	3,170	288	2,367	--	2,654	9	14	484		
State total	25,189	2,128	2,377	0	4,504	147	439	19,587		

Table 12.—Continued

Forest Inventory Unit and county	Hardwoods										Total hardwoods	
	Elm	Hackberry	Soft maple	Red oak group	White oak group	Sycamore	Other hardwoods					
Eastern Unit												
Adams	6	--	--	--	17	--	--	--	--	--	--	395
Boone	--	--	--	--	--	--	--	--	--	--	--	147
Buffalo	9	--	--	--	18	--	--	--	--	--	--	410
Burt	--	--	--	--	--	--	--	--	--	--	--	40
Butler	--	--	--	--	1	--	--	--	--	--	--	34
Cass	--	--	--	--	--	--	--	--	--	--	--	2
Cedar	--	--	--	--	--	--	--	--	--	--	--	867
Clay	--	--	--	--	0	--	--	--	--	--	--	0
Colfax	--	--	--	--	--	--	--	--	--	--	--	784
Cuming	--	2	--	--	--	--	--	1	--	--	--	108
Custer	--	--	--	--	--	--	--	--	--	--	--	1
Dakota	--	--	--	--	2	--	--	--	--	--	--	2,186
Dawson	--	--	--	--	--	--	--	--	--	--	--	--
Dixon	--	--	--	--	--	--	--	--	--	--	--	1,097
Dodge	5	2	5	1	18	--	--	2	--	--	--	961
Douglas	10	5	10	2	33	--	--	5	--	--	--	1,146
Franklin	9	--	--	--	16	--	--	--	--	--	--	397
Gage	1	2	7	--	11	--	--	--	--	--	--	67
Greeley	--	--	--	--	--	--	--	--	--	--	--	192
Hall	9	--	--	--	16	--	--	--	--	--	--	397
Hamilton	--	--	--	--	--	--	--	--	--	--	--	4
Howard	--	--	--	--	--	--	--	--	--	--	--	192

Table 12.--Continued

Forest Inventory Unit and county	Hardwoods										Total hardwoods
	Elm	Hackberry	Soft maple	Red oak group	White oak group	Sycamore	Other hardwoods				
Washington	--	--	--	--	0	--	--	--	--	--	28
Wayne	--	--	--	--	1	--	--	--	--	--	760
Webster	9	0	0	--	17	--	--	0	--	--	398
York	--	--	--	--	3	--	--	--	--	--	52
Total	90	27	65	9	285	3	24	20,168			
Western Unit											
Antelope	--	--	--	--	1	--	--	--	--	--	365
Brown	--	--	--	--	--	--	1	--	--	--	1
Cherry	--	--	--	--	1	--	--	--	--	--	5
Cheyenne	1	--	--	--	--	--	--	--	--	--	4
Dawes	--	--	--	--	--	--	--	--	--	--	--
Holt	--	--	--	--	--	--	--	--	--	--	--
Keya Paha	--	--	--	--	0	--	--	--	--	--	4
Kimball	2	--	--	--	--	--	--	--	--	--	10
Knox	--	--	--	--	--	--	--	--	--	--	115
Lincoln	--	2	--	--	--	--	--	--	--	--	7
Loup	--	--	--	--	--	--	--	--	--	--	--
Rock	--	--	--	--	--	--	--	--	--	--	--
Sheridan	--	--	--	--	--	--	--	--	--	--	--
Sioux	--	--	--	--	--	--	--	--	--	--	6
Total	4	2	65	9	287	3	25	20,685			
State total	93	29	65	9	287	3	25	20,685			

All table cells without observations are indicated by --. Table value of 0 indicates the volume rounds to less than 1 thousand board feet. Columns and rows may not add to their totals due to rounding.

Table 13.—Harvest residue generated by industrial roundwood harvesting, in thousand cubic feet, by Forest Inventory Unit, county, and species group, Nebraska, 2009

Forest Inventory Unit and county	All species	Softwoods					Hardwoods			Cotton-wood
		Cedar/juniper	Ponderosa pine	White pine	Total softwoods	Ash	Black walnut			
Eastern Unit										
Adams	31	--	--	--	--	1	--	27		
Boone	11	0	--	--	0	--	--	11		
Buffalo	32	0	--	--	0	1	0	27		
Burt	3	--	--	--	--	--	--	3		
Butler	2	0	--	--	0	--	0	2		
Cass	0	--	--	--	--	--	0	--		
Cedar	64	0	--	--	0	--	--	64		
Clay	0	--	--	--	--	--	--	--		
Colfax	37	4	--	--	4	--	--	33		
Cuming	8	0	0	--	0	0	--	7		
Custer	0	0	--	--	0	--	0	--		
Dakota	161	--	--	--	--	--	0	161		
Dawson	0	0	--	--	0	--	--	--		
Dixon	81	0	--	--	0	--	0	81		
Dodge	55	4	--	0	4	1	0	47		
Douglas	87	--	--	--	--	1	--	79		
Franklin	31	--	--	--	--	1	--	27		
Gage	6	0	--	--	0	0	1	2		
Greeley	8	4	--	--	4	--	--	4		
Hall	31	0	--	--	0	1	--	27		
Hamilton	0	--	--	--	--	--	0	--		
Howard	8	4	--	--	4	--	--	4		

Table 13.–Continued

Forest Inventory Unit and county	All species	Softwoods					Hardwoods			Cotton- wood
		Cedar/ juniper	Ponderosa pine	White pine	Total softwoods	Ash	Black walnut			
Jefferson	2	0	--	--	0	--	1	--	--	
Johnson	0	--	--	--	--	--	--	--	--	
Kearney	30	--	--	--	--	1	--	27	--	
Lancaster	44	--	--	--	--	1	0	39	--	
Madison	40	--	--	--	--	--	--	40	--	
Merrick	18	9	--	--	9	1	--	8	--	
Nance	12	4	--	--	4	--	--	8	--	
Nemaha	3	0	--	--	0	--	3	0	--	
Nuckolls	0	--	--	--	--	--	--	--	--	
Otoe	2	--	--	--	--	--	2	--	--	
Pawnee	1	0	--	--	0	--	1	--	--	
PHELPS	0	0	--	--	0	--	--	--	--	
Pierce	32	--	--	--	--	--	--	32	--	
Platte	19	4	--	--	4	--	--	16	--	
Polk	18	5	--	--	5	0	0	12	--	
Richardson	14	--	--	--	--	0	9	2	--	
Saline	6	--	--	--	--	0	1	2	--	
Sarpy	87	--	--	--	--	1	--	79	--	
Saunders	267	0	--	--	0	1	0	259	--	
Seward	3	1	--	--	1	0	1	0	--	
Sherman	2	2	0	--	2	--	--	--	--	
Stanton	14	--	--	--	--	--	--	14	--	

Table 13.—Continued

Forest Inventory Unit and county	All species	Softwoods				Total softwoods	Hardwoods			Cotton- wood
		Cedar/ juniper	Ponderosa pine	White pine	Ash		Black walnut			
Thurston	2	--	--	--	--	--	--	2	--	--
Washington	2	--	--	--	--	--	--	2	--	--
Wayne	56	0	--	--	0	--	--	--	--	56
Webster	31	0	--	--	0	1	0	0	0	27
York	6	2	--	--	2	0	0	0	0	3
Total	1,366	43	0	0	44	16	24	1,227		
Western Unit										
Antelope	27	0	0	--	0	0	0	0	0	27
Brown	6	6	--	--	6	--	--	--	--	--
Cherry	5	2	3	--	5	0	0	0	0	--
Cheyenne	0	0	--	--	--	--	--	--	--	0
Dawes	43	0	42	--	43	--	--	--	--	--
Holt	0	0	--	--	0	--	--	--	--	--
Keya Paha	17	7	10	--	16	0	0	0	0	--
Kimball	1	0	--	--	--	0	--	--	--	0
Knox	11	3	--	--	3	--	0	0	0	8
Lincoln	3	3	0	--	3	0	0	0	0	--
Loup	1	1	--	--	1	--	--	--	--	--
Rock	2	2	--	--	2	--	--	--	--	--
Sheridan	0	0	0	--	0	--	--	--	--	--
Sioux	41	0	41	--	41	--	0	--	0	--
Total	157	23	96	--	119	1	1	1	1	36
State total	1,523	66	96	0	162	17	25	1,262		

Table 13.—Continued

Forest Inventory Unit and county	Hardwoods										Total hardwoods	
	Elm	Hackberry	Soft maple	Red oak group	White oak group	Sycamore	Other hardwoods					
Eastern Unit												
Adams	0	--	--	--	2	--	--	--	--	--	--	31
Boone	--	--	--	--	--	--	--	--	--	--	--	11
Buffalo	1	--	--	--	3	--	--	--	--	--	--	32
Burt	--	--	--	--	--	--	--	--	--	--	--	3
Butler	--	--	--	--	0	--	--	--	--	--	--	2
Cass	--	--	--	--	--	--	--	--	--	--	--	0
Cedar	--	--	--	--	--	--	--	--	--	--	--	64
Clay	--	--	--	--	0	--	--	--	--	--	--	0
Colfax	--	--	--	--	--	--	--	--	--	--	--	33
Cuming	--	0	--	--	--	--	--	0	--	--	--	8
Custer	--	--	--	--	--	--	--	--	--	--	--	0
Dakota	--	--	--	--	0	--	--	--	--	--	--	161
Dawson	--	--	--	--	--	--	--	--	--	--	--	--
Dixon	--	--	--	--	--	--	--	--	--	--	--	81
Dodge	0	0	0	0	3	--	--	0	--	0	--	52
Douglas	1	0	1	0	5	--	--	0	--	0	--	87
Franklin	1	--	--	--	2	--	--	--	--	--	--	31
Gage	0	0	1	--	1	--	--	--	--	--	--	5
Greeley	--	--	--	--	--	--	--	--	--	--	--	4
Hall	1	--	--	--	2	--	--	--	--	--	--	31
Hamilton	--	--	--	--	--	--	--	--	--	--	--	0
Howard	--	--	--	--	--	--	--	--	--	--	--	4

Table 13.—Continued

Forest Inventory Unit and county	Hardwoods										Total hardwoods
	Elm	Hackberry	Soft maple	Red oak group	White oak group	Sycamore	Other hardwoods				
Washington	--	--	--	--	0	--	--	--	--	--	2
Wayne	--	--	--	--	0	--	--	--	--	--	56
Webster	1	0	0	--	2	--	--	0	--	--	31
York	--	--	--	--	0	--	--	--	--	--	4
Total	6	2	5	1	39	0	--	2	--	--	1,322
Western Unit											
Antelope	--	--	--	--	0	--	--	--	--	--	27
Brown	--	--	--	--	--	--	--	0	--	--	0
Cherry	--	--	--	--	0	--	--	--	--	--	0
Cheyenne	0	--	--	--	--	--	--	--	--	--	0
Dawes	--	--	--	--	--	--	--	--	--	--	--
Holt	--	--	--	--	--	--	--	--	--	--	--
Keya Paha	--	--	--	--	0	--	--	--	--	--	0
Kimball	0	--	--	--	--	--	--	--	--	--	1
Knox	--	--	--	--	--	--	--	--	--	--	8
Lincoln	--	0	--	--	--	--	--	--	--	--	1
Loup	--	--	--	--	--	--	--	--	--	--	--
Rock	--	--	--	--	--	--	--	--	--	--	--
Sheridan	--	--	--	--	--	--	--	--	--	--	--
Sioux	--	--	--	--	--	--	--	--	--	--	0
Total	0	0	--	--	0	--	--	0	--	--	38
State total	7	2	5	1	40	0	--	2	--	--	1,361

All table cells without observations are indicated by --. Table value of 0 indicates the volume rounds to less than 1 thousand cubic feet. Columns and rows may not add to their totals due to rounding.

Table 14.- Disposition of residues produced at primary wood-using mills, in green tons, by Forest Inventory Unit, disposition, residue type, and softwoods and hardwoods, Nebraska, 2009

Forest Inventory Unit and disposition	Residue type											
	Total all residues						Wood residue					
	Softwood		Hardwood		Total wood residue		Coarse ^a		Fine ^b		Bark	
	Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
All Units												
Industrial fuel	1,918	10,020	1,912	10,014	203	5,640	1,708	4,374	7	6		
Residential fuel	289	290	232	204	229	204	3	--	57	85		
Mulch	24	26,448	15	18,616	4	13,051	11	5,565	9	7,833		
Miscellaneous ^c	217	13,079	213	10,876	131	5,800	83	5,076	3	2,203		
Not used	4,437	11,669	3,423	8,655	3,192	6,803	230	1,851	1,014	3,015		
Total	6,884	61,506	5,795	48,365	3,760	31,498	2,035	16,867	1,089	13,141		
Eastern Unit												
Industrial fuel	1,894	10,020	1,888	10,014	179	5,640	1,708	4,374	7	6		
Residential fuel	98	275	76	194	76	194	--	--	22	81		
Mulch	24	26,448	15	18,616	4	13,051	11	5,565	9	7,833		
Miscellaneous ^c	42	13,077	38	10,874	11	5,800	28	5,074	3	2,203		
Not used	3,984	11,494	3,093	8,520	2,980	6,708	113	1,812	891	2,973		
Total	6,041	61,315	5,110	48,218	3,250	31,393	1,860	16,825	931	13,096		
Western Unit												
Industrial fuel	24	--	24	--	24	--	--	--	--	--		
Residential fuel	191	14	156	10	153	10	3	--	35	4		
Miscellaneous ^c	175	2	175	2	120	--	55	2	--	--		
Not used	452	175	330	134	213	95	117	39	123	41		
Total	843	192	685	147	510	105	175	42	158	45		

^a Suitable for chipping such as slabs, edgings, veneer cores, etc.

^b Not suitable for chipping such as sawdust, veneer clippings etc.

^c Livestock bedding, small dimension, specialty items, etc.

Table may not sum due to rounding.

Walters, Brian F.; Adams, Dennis M.; Piva, Ronald J. 2012. **Nebraska timber industry: an assessment of timber product output and use, 2009**. Resour. Bull. NRS-69. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 54 p.

Presents recent Nebraska forest industry trends; production and receipts of industrial roundwood; and production of saw logs, veneer logs, pulpwood, and other products in 2009. Logging residue generated from timber harvest operations is reported, as well as wood and bark residue generated at primary wood-using mills and disposition of mill residues.

KEY WORDS: Industrial roundwood, harvest residue, mill residue, production, pulpwood, receipts, saw logs, veneer logs

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