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Pulpwood Production in the Northeast--1990

Richard H. Widmann

Abstract

The 1990 annual assessment of pulpwood production and receipts for the 14 states in the Northeast Region shows that total pulpwood production was down by less than 1 percent since 1989. Total production in 1990 was 9,489,500 cords. Roundwood production rose by less than 1 percent to 6,886,200 cords, and production of manufacturing residue chips for pulp declined by nearly 3 percent to 2,603,300 cords. Although the total consumption of pulpwood by mills in the Northeast Region was down slightly from the previous year, this was only the third year when total consumption exceeded 10 million cords. The harvesting of trees for pulpwood averaged 6 cubic feet of roundwood per acre of timberland across the region.

The Author

RICHARD H. WIDMANN, Forester, Forest Inventory and Analysis Unit, Northeastern Forest Experiment Station, U.S. Department of Agriculture, Forest Service, Radnor, Pennsylvania.

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Northeastern Forest Experiment Station
5 Radnor Corporate Center
100 Matsonford Road, Suite 200
P.O. Box 6775
Radnor, Pennsylvania 19087-4585

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Introduction

This annual report is based on a canvass of all pulpmills in the Northeast that use wood as a basic raw material to make pulp for the production of paper, insulation board, and hardboard products. Shipments outside the Northeast Region are traced by exchanging information with neighboring forest experiment stations that conduct similar canvasses, and by canvassing pulpmills in adjacent Canadian provinces.

The statistics for production are based on mill receipts of roundwood and manufacturing plant residues.¹ These receipts are subject to year-to-year fluctuations in wood inventory. Mill receipts of pulpwood from roundwood are reported by county where harvested. However, pulpwood from plant residues cannot be traced beyond the state where the residues were produced. Some of the logs from which the residues came probably were harvested in states other than the one in which they were processed. Therefore, the volume of pulpwood produced from plant residues in a state may not be directly linked to the sawlog harvest for the state.

Total Production

Pulpwood production in the 14 Northeastern States fell slightly during 1990. After 4 consecutive years of increases, pulpwood production decreased by 46,200 cords (four-tenths of one percent) from the previous year (Fig. 1). All of the decrease was in the production of pulpwood from residues, which were down by 72,300 cords. These manufacturing residues which are used to make wood pulp, come primarily from sawmill slabs and edgings and veneer cores. Production of roundwood, which is wood coming directly from the forests, rose by 26,100 cords. Considering the weak prices for paper and uncertainty in the economy, 1990 pulpwood production held up surprisingly well.

In the New England States, New Hampshire was the only state to record an increase in production in 1990, up by 3 percent, or 19,900 cords. This was the 5th consecutive year of steady increases in the state. Vermont production remained nearly unchanged from the record high of the previous

year, down by less than 1 percent. Declines in Maine totaled 131,500 cords, or 3 percent. Since Maine accounts for 42 percent of the pulpwood production in the Northeastern Region, changes there have a large effect on the region. This was the third consecutive year that production declined in Maine and the second year production fell in New England.

Among other major pulpwood producing states in the Northeast, Pennsylvania, Ohio, and New York experienced increased production, up by 6, 13, and 1 percent respectively. In these states the production of both roundwood and residues increased. Production in Kentucky, West Virginia, and Maryland declined 11, 6, and 1 percent, respectively. Most of the drop in West Virginia can be attributed to a decline in manufacturing residues being used for pulp, while most of the drop in Maryland and Kentucky can be attributed to a decrease in roundwood harvested for pulp.

Percent Change in Total Production Compared to 1989

	<i>Percent</i>		<i>Percent</i>
Connecticut	- 12	New Jersey	> 100
Delaware	+ 38	New York	+ 1
Kentucky	- 11	Ohio	+ 13
Maine	- 3	Pennsylvania	+ 6
Maryland	- 1	Rhode Island	- 40
Massachusetts	- 4	Vermont	< 1
New Hampshire	- 3	West Virginia	- 6

Roundwood

Roundwood production increased by four-tenths of 1 percent to 6,886,200 cords. All of the increase can be attributed to an increase in the harvest of softwood species, which rose to 3,114,400 cords (an increase of 47,600 cords). The production of roundwood from hardwood species declined to 3,771,800 cords (a decrease of 21,400 cords). The largest decrease in hardwood production was in Kentucky where hardwood roundwood production fell by a third. Increases in softwood production occurred in New York, Vermont, New Hampshire, Ohio, and Kentucky. The increases in these states more than offset a 4-percent decrease in Maine's softwood harvest.

The increase in softwood roundwood production was entirely due to an increase in the harvest of pine species. The production of spruce and fir was down in the Northeast, although the harvest of spruce and fir was up in Vermont, New Hampshire, and New York (all of the decline occurred in Maine). Produc-

¹Definitions of terms used in this report are in the Appendix. Note that whole-tree chips are included as roundwood.

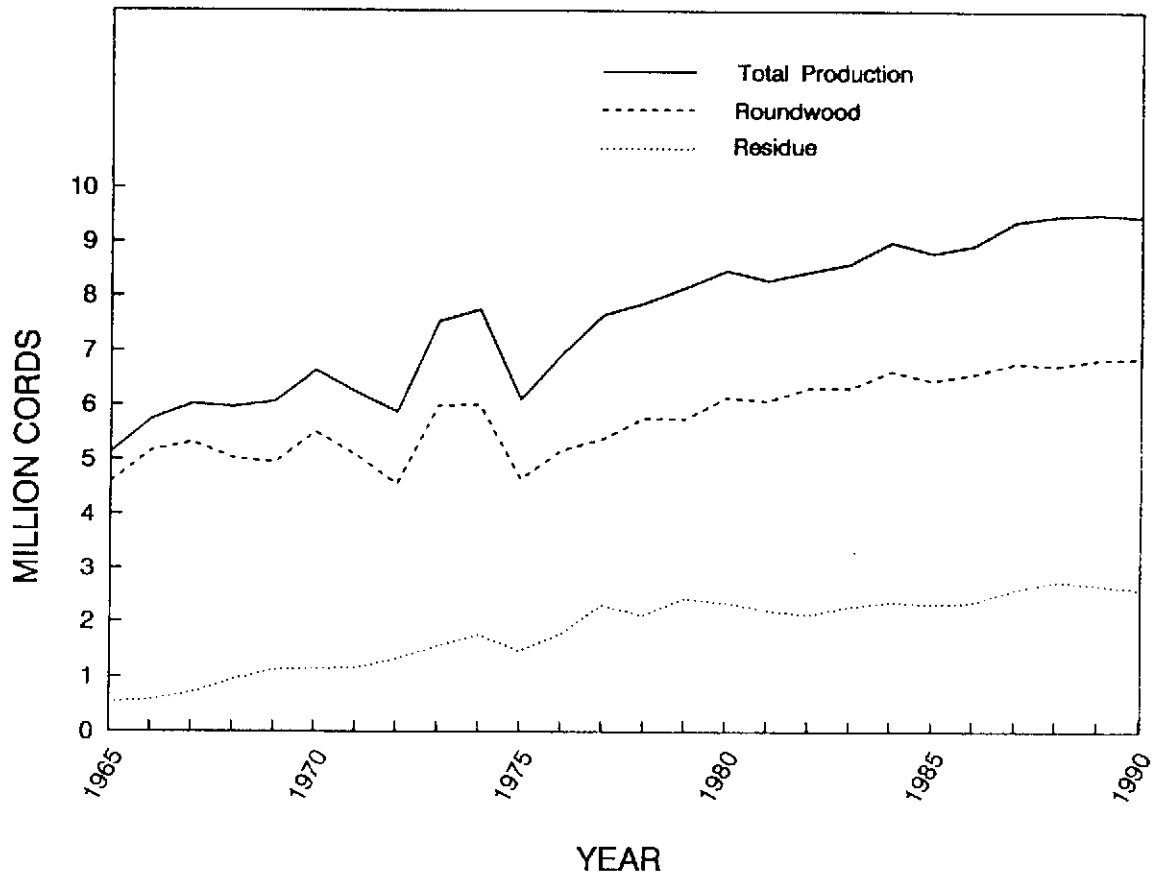


Figure 1.--Total roundwood, and manufacturing residue production in the Northeast, 1965-90.

tion from the hemlock and tamarack species group was almost unchanged with a one-tenth of one percent decrease. The production of pulp from pine species reached a record high, now comprising 12 percent (840,200 cords) of roundwood production. Some of this increase occurred in Kentucky and Ohio, where more pine plantations are reaching harvestable size.

Chips from Manufacturing Residues

Manufacturing residue chips accounted for 27 percent of the total pulpwood production. In 1990 the production of residue chips for pulp fell by almost 3 percent. The portion from softwood species was down by 9 percent and the portion from hardwoods was up by 2 percent. Softwood residue production is concentrated in the New England states, with most of the decrease occurring in Maine. About two-thirds of the residue chips produced in the Northeast are from hardwoods. These are a byproduct of the extensive hardwood lumber industry in the region. Major hardwood residue producing states are: Kentucky, New York, Ohio, Pennsylvania, and West Virginia. In Kentucky, residues are the source of two-thirds of the pulpwood produced.

Consumption

Consumption of pulpwood at Northeastern pulpmills totaled 10 million cords in 1990. This was down slightly from the previous year, but still only the third year when consumption exceeded 10 million cords. Most of the decrease can be attributed to a reduction of shipments into the region. In 1990, the northeast pulpmills consumed more than 1/2 million cords more than were produced in the region; 1.1 million cords were shipped into the region and almost 600,000 cords were shipped out of the region.

Harvesting Intensity

The average pulpwood removed per acre of timberland in a state indicates pulpwood harvesting intensity. Maine had the highest pulpwood harvest rates in the Northeast with an average of 17 cubic feet of roundwood harvested per acre of timberland. New Hampshire and Vermont also have high harvest rates, each with approximately 8 cubic feet harvested per acre compared with Pennsylvania's 4 cubic feet and Kentucky's 1 cubic foot.

The average net annual growth on timberland in the Northeast is roughly 38 cubic feet of growing-stock volume per acre. The percentage of this average growth being used for pulpwood roundwood ranges from 46 in Maine to zero in Rhode Island.

Across the entire Northeast, an average of 15.5 percent of the growth is harvested for pulp. These averages are broad measures of the growth and pulpwood removals in the Northeast. The actual data for a specific area within a state may vary considerably. Removals for pulpwood represent only part of the total removals. It does not include removals for sawlogs that vary across the region.

Appendix

Definition of Terms

Cord. See Standard cord.

Cord equivalent. A unit of measure applied to forms of wood other than roundwood, such as chips, slabs, edgings, and other manufacturing residues, and equal to 85 cubic feet of solid wood, or 1 cord.

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

Manufacturing plant residues. Wood materials, such as sawmill slabs and edgings, sawdust, veneer clippings and cores, post and pole trimming, and pulp screening generated from the manufacture of roundwood products.

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

Pulpwood production. Roundwood and manufacturing plant residues used to make up wood pulp. These are either harvested or generated in the state or region.

Pulpwood receipts. Pulpwood received at wood-pulp mills. These can originate from outside the state or region.

Pulpwood imports. Pulpwood receipts originating from outside the Northeast (14-state region).

Roundwood products. Logs, bolts, total-tree chips, mine timbers, fenceposts, poles, and similar timber products generated by harvesting trees for industrial or consumer use.

Softwoods. Coniferous trees, usually evergreen with needles or scalelike leaves.

Standard cord. A unit of measure for stacked bolts of wood, encompassing 128 cubic feet of wood, bark, and air space. In the Northeast, the measure refers to a stack of wood containing 85 cubic feet,

or 2.41 cubic meters, of solid wood. A standard cord commonly is referred to as a cord, as in this report. This is not the same as a face cord, commonly used in firewood marketing.

Timber products output. Production total from timber harvest and plant byproducts.

Whole-tree chips. Unbarked wood chips generated from the aboveground portion of a tree, including bolewood, limbs, and leaves.

Metric Equivalents

One standard cord = 85 cubic feet (solid wood)
= 2.41 cubic meters (solid wood)

One cubic foot = 28,317 cubic centimeters = 0.028 cubic meter

Conversion Factors Used for Green Roundwood

- 1 ton spruce-fir = 0.5556 cord
 - 1 ton hemlock-tamarack = 0.5000 cord
 - 1 ton pine (New England, New York, and Canada) = 0.5263 cord
 - 1 ton aspen--yellow-poplar = 0.5263 cord
 - 1 ton oak-hickory = 0.3571 cord
 - 1 ton other hardwoods = 0.3846 cord
-

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Table 1.--Total production of pulpwood in the Northeast, by state and source, 1990

(In thousands of standard cords)^a

State	From roundwood	From manufacturing residues	From all sources
Connecticut	3.7	1.5	5.2
Delaware	28.8	4.5	33.3
Kentucky	174.6	352.2	526.8
Maine	3,335.6	684.8	4,020.4
Maryland	178.2	119.7	297.9
Massachusetts	21.0	13.8	34.8
New Hampshire	468.6	199.5	668.1
New Jersey	.9	-	.9
New York	762.8	148.4	911.2
Ohio	379.8	331.3	711.1
Pennsylvania	771.2	442.0	1,213.2
Rhode Island	-	5.7	5.7
Vermont	421.6	62.8	484.4
West Virginia	339.4	237.1	576.5
Total	6,886.2	2,603.3	9,489.5

^aRough wood basis, equivalent to 85 ft³ solid wood.

Table 2.--Production and receipts of pulpwood in the Northeast, by state and softwood and hardwood, 1990

(In thousands of standard cords)

State	Produced in state		Received in state		Net export(+) import(-)
	Softwood	Hardwood	Softwood	Hardwood	
Connecticut	3.7	1.5	-	-	+5.2
Delaware	29.8	3.5	-	-	+33.3
Kentucky	59.2	467.6	115.7	900.6	-489.5
Maine	2,533.6	1,486.8	2,921.9	1,792.6	-694.1
Maryland	171.0	126.9	(D)	(D)	-256.2
Massachusetts	24.3	10.5	-	-	+34.8
New Hampshire	359.2	308.9	142.7	367.5	+157.9
New Jersey	.9	-	-	-	+.9
New York	399.5	511.7	566.7	428.0	-83.5
Ohio	64.2	646.9	76.6	702.6	-68.1
Pennsylvania	73.2	1,140.0	223.4	1,216.3	-226.5
Rhode Island	.8	4.9	-	-	+5.7
Vermont	280.6	203.8	(D)	(D)	-484.4
West Virginia	80.0	496.5	-	-	+576.5
Total	4,080.0	5,409.5	4,268.5	5,740.2	-519.2

(D)-Data withheld to avoid disclosure for individual mills.

Table 3.--Pulpwood production from roundwood in the Northeast, by state, softwood and hardwood, and destination of shipment, 1990

(In thousands of standard cords)

State	Softwood				Hardwood				All species
	Retained in state	Shipped out of state		Total	Retained in state	Shipped out of state		Total	
		Northeast states	Outside Northeast ^a			Northeast states	Outside Northeast ^a		
Connecticut	-	3.7	-	3.7	-	*	-	*	03.7
Delaware	-	19.2	8.8	28.0	-	0.5	0.3	0.8	28.8
Kentucky	9.0	9.0	20.5	38.5	115.5	20.3	.3	136.1	174.6
Maine	1,880.6	13.9	5.0	1,899.5	1,409.2	26.9	-	1,436.1	3,335.6
Maryland	33.3	43.4	23.0	99.7	64.8	11.9	1.8	78.5	178.2
Massachusetts	-	20.5	-	20.5	-	.5	-	.5	21.0
New Hampshire	42.1	171.8	8.1	222.0	155.5	91.1	-	246.6	468.6
New Jersey	-	.9	-	.9	-	-	-	-	.9
New York	362.7	3.7	-	366.4	323.6	13.7	59.1	396.4	762.8
Ohio	59.9	1.9	-	61.8	313.1	4.9	-	318.0	379.8
Pennsylvania	33.9	28.4	-	62.3	666.7	42.2	-	708.9	771.2
Rhode Island	-	-	-	-	-	-	-	-	-
Vermont	-	219.9	21.6	241.5	-	180.1	-	180.1	421.6
West Virginia	-	57.3	12.3	69.6	-	130.3	139.5	269.8	339.4
Total	2,421.5	593.6	99.3	3,114.4	3,048.9	522.2	201.0	3,771.8	6,886.2

*Less than 50 cords.

^aIncludes shipments to Canada.

Table 4.--Pulpwood chip production from manufacturing residues in the Northeast, by state, softwood and hardwood, and destination of shipment, 1990^a

(In thousands of standard-cord equivalents)

State	Softwood				Hardwood				All species
	Produced and retained in state	Shipped out of state		Total	Produced and retained in state	Shipped out of state		Total	
		Northeast states	Outside Northeast ^b			Northeast states	Outside Northeast ^b		
Connecticut	-	-	-	-	-	1.5	-	1.5	1.5
Delaware	-	1.8	-	1.8	-	2.7	-	2.7	4.5
Kentucky	0.3	-	20.4	20.7	295.0	10.8	25.7	331.5	352.2
Maine	576.5	2.3	55.3	634.1	44.8	5.9	-	50.7	684.8
Maryland	20.3	40.7	10.3	71.3	13.6	34.8	-	48.4	119.7
Massachusetts	-	3.8	-	3.8	-	10.0	-	10.0	13.8
New Hampshire	60.9	70.7	5.6	137.2	31.4	30.9	-	62.3	199.5
New Jersey	-	-	-	-	-	-	-	-	-
New York	33.0	.1	-	33.1	50.7	59.5	5.1	115.3	148.4
Ohio	2.4	-	-	2.4	310.5	18.4	-	328.9	331.3
Pennsylvania	8.8	2.1	-	10.9	386.4	44.7	-	431.1	442.0
Rhode Island	-	.8	-	.8	-	4.9	-	4.9	5.7
Vermont	-	35.0	4.1	39.1	-	23.7	-	23.7	62.8
West Virginia	-	.3	10.1	10.4	-	71.7	155.0	226.7	237.1
Total	702.2	157.6	105.8	965.6	1,132.4	319.5	185.8	1,637.7	2,603.3

^aIncludes sawmill slabs and edgings, sawdust, veneer cores, and post and piling trimmings.

^bIncludes shipments to Canada.

Table 5.--Pulpwood receipts from roundwood in the Northeast, by state, softwood and hardwood, and origin of shipment, 1990

(In thousands of standard cords)

State ^a	Softwood				Hardwood				All species
	Cut in state	Received from outside state			Cut in state	Received from outside state			
		Northeast states	Outside Northeast ^b	Total		Northeast states	Outside Northeast ^b	Total	
Kentucky	9.0	-	80.2	89.2	115.5	-	235.4	350.9	440.1
Maine	1,880.6	254.2	37.0	2,171.8	1,409.2	104.3	190.4	1,703.9	3,875.7
Maryland	33.3	(D)	(D)	(D)	64.8	(D)	(D)	(D)	(D)
New Hampshire	42.1	24.5	-	66.6	155.5	170.4	-	325.9	392.5
New York	362.7	151.5	1.8	516.0	323.6	27.7	-	351.3	867.3
Ohio	59.9	13.0	-	72.9	313.1	55.9	-	369.0	441.9
Pennsylvania	33.9	64.7	68.1	166.7	666.7	31.1	2.7	700.5	867.2
Vermont	-	(D)	(D)	(D)	-	(D)	(D)	(D)	(D)
Total	2,421.5	593.6	251.5	3,266.6	3,048.4	522.4	440.4	4,011.2	7,277.8

^aStates with no pulpmills are omitted.

^bIncludes shipments from Canada.

(D)-Data withheld to avoid disclosure for individual mills.

Table 6.--Pulpwood chip receipts from manufacturing residues in the Northeast, by state, softwood and hardwood, and origin of shipment, 1990^a

(In thousands of standard cord equivalents)

State ^b	Softwood				Hardwood				All species
	Produced in state	Received from outside state			Produced in state	Received from outside state			
		Northeast states	Outside Northeast ^c	Total		Northeast states	Outside Northeast ^c	Total	
Kentucky	0.3	-	26.2	26.5	295.0	0.3	254.4	549.7	576.2
Maine	576.5	79.7	93.9	750.1	44.8	42.3	1.6	88.7	838.8
Maryland	20.3	(D)	(D)	(D)	13.6	(D)	(D)	(D)	(D)
New Hampshire	60.9	15.2	-	76.1	31.4	10.2	-	41.6	117.7
New York	33.0	17.7	-	50.7	50.7	26.0	-	76.7	127.4
Ohio	2.4	1.3	-	3.7	310.5	21.3	1.8	333.6	337.3
Pennsylvania	8.8	42.5	5.4	56.7	386.4	115.9	13.5	515.8	572.5
Vermont	-	(D)	(D)	(D)	-	(D)	(D)	(D)	(D)
Total	702.2	157.6	142.1	1,001.9	1,132.4	319.5	277.1	1,729.0	2,730.9

^aIncludes sawmill slabs and edgings, sawdust, veneer cores, and post and pole trimmings.

^cIncludes shipments from Canada.

^bStates with no pulpmills are omitted.

(D)-Data withheld to avoid disclosure of data from individual mills.

Table 7.--Pulpwood production from roundwood received from states outside the Northeast, by state (or province) of origin and softwood and hardwood, 1990

(In thousands of standard cords)

Receiving state ^a	State or province of origin	Softwood	Hardwood	All species
Kentucky.....	Alabama	0.5	0.7	1.2
	Illinois	8.3	21.0	29.3
	Indiana	-	14.4	14.4
	Mississippi	33.8	43.3	77.1
	Missouri	*	7.6	7.6
	Tennessee	37.6	148.4	186.0
Maine.....	New Brunswick	1.6	186.6	188.2
	Quebec	35.4	3.9	39.3
Maryland.....	Virginia	64.4	11.9	76.3
New York.....	Quebec	1.8	*	1.8
Pennsylvania.....	Virginia	68.1	2.7	70.8
All States		251.5	440.5	692.0

^aStates with no extraregional receipts are omitted.

*Less than 50 cords.

Table 8.--Pulpwood chip receipts from wood-using manufacturing plants outside the Northeast, by state (or province) of origin and softwood and hardwood, 1990^a

(In thousands of standard cord equivalents)

Receiving state ^b	State or province of origin	Softwood	Hardwood	All species
Kentucky.....	Arkansas	-	5.1	5.1
	Illinois	-	12.4	12.4
	Indiana	0.3	75.7	76.0
	Mississippi	22.2	20.1	42.3
	Missouri	3.3	63.3	66.6
	Tennessee	.4	77.8	78.2
Maine.....	New Brunswick	8.8	-	8.8
	Quebec	85.1	1.6	86.7
Maryland.....	Virginia	16.6	5.8	22.4
Ohio.....	Indiana	-	.5	.5
	Virginia	-	1.3	1.3
Pennsylvania.....	Virginia	5.4	13.5	18.9
All states		142.1	277.1	419.2

^aIncludes sawmill slabs and edgings, sawdust, veneer cores, and post and piling trimmings.
^bStates with no extraregional receipts are omitted.

Table 9.--Pulpwood production from roundwood in the Northeast, by state and species group, 1990

(In thousands of standard cords)

State	Softwood				Hardwood				All species
	Spruce and fir	Hemlock and tamarack	Pine	Total	Aspen and yellow-poplar	Oak and hickory	Other hardwood	Total	
Connecticut	-	3.7	-	3.7	-	-	-	-	3.7
Delaware	-	-	28.0	28.0	-	-	0.8	-	28.8
Kentucky	-	-	38.5	38.5	8.6	101.8	25.7	136.1	174.6
Maine	1,225.1	413.8	260.6	1,899.5	210.0	-	1,226.1	1,436.1	3,335.6
Maryland	-	-	99.7	99.7	*	11.2	67.3	78.5	178.2
Massachusetts	.3	2.7	17.5	20.5	*	-	.5	.5	21.0
New Hampshire	98.3	44.9	78.8	222.0	36.0	-	210.6	246.6	468.6
New Jersey	-	-	.9	.9	-	-	-	-	.9
New York	103.5	179.8	83.1	366.4	45.3	6.4	344.7	396.4	762.8
Ohio	-	-	61.8	61.8	29.5	150.1	138.4	318.0	379.8
Pennsylvania	-	.3	62.0	62.3	49.0	298.9	361.0	708.9	771.2
Vermont	138.9	62.9	39.7	241.5	7.3	-	172.8	180.1	421.6
West Virginia	-	-	69.6	69.6	3.8	16.3	249.7	269.8	339.4
Total	1,566.1	708.1	840.2	3,114.4	389.5	584.7	2,797.6	3,771.8	6,886.2

*Less than 50 cords.

Table 10.--Pulpwood production from roundwood in Kentucky and Ohio, by county and species group, 1990

(In thousands of standard cords)

County ^a	Softwood				Hardwood			Total	All species
	Spruce and fir	Hemlock and tamarack	Pine	Total	Aspen and yellow-poplar	Oak and hickory	Other hardwood		
KENTUCKY									
Ballard	-	-	0.3	0.3	0.5	1.7	1.4	3.6	3.9
Breckenridge	-	-	-	-	-	5.8	-	5.8	5.8
Butler	-	-	-	-	-	11.4	-	11.4	11.4
Caldwell	-	-	.3	.3	.6	1.8	1.5	3.9	4.2
Calloway	-	-	.4	.4	.2	.7	.7	1.6	2.0
Carlisle	-	-	.4	.4	.5	1.5	1.2	3.2	3.6
Carter	-	-	2.0	2.0	.6	1.6	1.9	4.1	6.1
Casey	-	-	-	-	-	1.5	-	1.5	1.5
Clark	-	-	1.4	1.4	.4	1.1	1.2	2.7	4.1
Crittenden	-	-	1.6	1.6	.5	1.7	1.5	3.7	5.3
Fulton	-	-	-	-	.1	.4	.3	.8	.8
Graves	-	-	2.7	2.7	.4	1.5	1.3	3.2	5.9
Grayson	-	-	-	-	*	.1	*	.1	.1
Greenup	-	-	2.3	2.3	.6	1.5	1.7	3.8	6.1
Hardon	-	-	-	-	-	4.6	-	4.6	4.6
Harlan	-	-	-	-	-	-	.1	.1	.1
Hopkins	-	-	.2	.2	*	.1	.1	.2	.4
Knox	-	-	2.1	2.1	.4	1.1	1.3	2.8	4.9
Laurel	-	-	-	-	-	20.7	-	20.7	20.7
Letcher	-	-	-	-	-	-	.2	.2	.2
Livingston	-	-	1.5	1.5	.4	1.5	1.3	3.2	4.7
Lyon	-	-	1.0	1.0	.8	2.5	2.1	5.4	6.4
McCracken	-	-	.0	.0	.3	.7	.6	1.6	1.6
McCreary	-	-	8.7	8.7	-	-	-	-	8.7
Marshall	-	-	.2	.2	.3	1.1	1.0	2.4	2.6
Muhlenberg	-	-	-	-	*	*	*	-	*
Ohio	-	-	*	-	*	31.0	.1	31.1	31.1
Rowan	-	-	1.2	1.2	1.0	2.7	3.2	6.9	8.1
Trigg	-	-	.4	.4	1.0	3.5	3.0	7.5	7.9
Whitley	-	-	11.8	11.8	-	-	-	-	11.8
Total	-	-	38.5	38.5	8.6	101.8	25.7	136.1	174.6

Continued

Table 10.--Continued

County ^a	Softwood				Hardwood			Total	All species
	Spruce and fir	Hemlock and tamarack	Pine	Total	Aspen and yellow-poplar	Oak and hickory	Other hardwood		
OHIO									
Adams	-	-	3.8	3.8	1.9	5.1	6.0	13.0	16.8
Ashland	-	-	-	-	-	.3	.2	.5	.5
Ashtabula	-	-	-	-	-	-	*	*	*
Athens	-	-	3.5	3.5	2.3	8.8	7.4	18.5	22.0
Belmont	-	-	-	-	-	.5	.3	.8	.8
Carroll	-	-	-	-	-	3.2	2.2	5.4	5.4
Clinton	-	-	-	-	-	-	-	-	-
Columbiana	-	-	-	-	-	.3	3.8	4.1	4.1
Coshocton	-	-	-	-	-	9.1	6.1	15.2	15.2
Cuyahoga	-	-	-	-	-	1.3	.9	2.2	2.2
Fairfield	-	-	-	-	-	-	-	-	-
Fayette	-	-	3.8	3.8	1.4	3.9	4.5	9.8	13.6
Franklin	-	-	-	-	*	.1	*	.1	.1
Gallia	-	-	4.6	4.6	2.2	6.0	6.9	15.1	19.7
Geauga	-	-	-	-	-	-	-	-	-
Guernsey	-	-	-	-	-	9.8	6.6	16.4	16.4
Hamilton	-	-	-	-	-	-	-	-	-
Harrison	-	-	-	-	-	.6	.4	1.0	1.0
Highland	-	-	3.7	3.7	1.5	4.0	4.5	10.0	13.7
Hocking	-	-	6.5	6.5	2.5	7.0	7.2	16.7	23.2
Holmes	-	-	-	-	-	1.8	1.2	3.0	3.0
Jackson	-	-	5.7	5.7	3.1	8.9	9.8	21.8	27.5
Jefferson	-	-	-	-	-	.2	.1	.3	.3
Knox	-	-	-	-	-	1.9	1.2	3.1	3.1
Lake	-	-	-	-	-	-	.6	.6	.6
Lawrence	-	-	5.0	5.0	2.3	6.3	7.3	15.9	20.9
Licking	-	-	-	-	-	2.0	1.4	3.4	3.4
Lorain	-	-	-	-	-	.2	.1	.3	.3
Medina	-	-	-	-	-	.7	.4	1.1	1.1
Meigs	-	-	5.5	5.5	1.6	4.2	4.9	10.7	16.2
Monroe	-	-	-	-	-	.7	.5	1.2	1.2
Muskingum	-	-	-	-	-	4.4	3.0	7.4	7.4
Noble	-	-	-	-	-	9.4	6.2	15.6	15.6

Continued

Table 10.--Continued

County ^a	Softwood				Hardwood			Total	All species
	Spruce and fir	Hemlock and tamarack	Pine	Total	Aspen and yellow-poplar	Oak and hickory	Other hardwood		
OHIO									
Perry	-	-	-	-	0.7	3.1	1.1	4.9	4.9
Pickaway	-	-	3.9	3.9	1.7	4.5	5.1	11.3	15.2
Pike	-	-	3.8	3.8	1.7	4.4	5.1	11.2	15.0
Portage	-	-	-	-	-	.1	.1	.2	.2
Richland	-	-	-	-	-	.5	.3	.8	.8
Ross	-	-	4.4	4.4	2.3	5.9	6.8	15.0	19.4
Scioto	-	-	3.7	3.7	2.4	6.2	7.2	15.8	19.5
Stark	-	-	-	-	-	*	*	*	*
Summit	-	-	-	-	-	2.2	1.5	3.7	3.7
Trumbull	-	-	-	-	-	-	.1	.1	.1
Tuscarawas	-	-	-	-	-	16.9	11.2	28.1	28.1
Union	-	-	-	-	-	-	-	-	-
Vinton	-	-	3.9	3.9	1.9	5.0	5.8	12.7	16.6
Washington	-	-	-	-	-	-	-	-	-
Wayne	-	-	-	-	-	.6	.4	1.0	1.0
Total	-	-	61.8	61.8	29.5	150.1	138.4	318.0	379.8

^aCounties with no production are omitted.

*Less than 50 cords.

Table 11.--Pulpwood production from roundwood in southern New England, by state, county, and species group, 1990

(In thousands of standard cords)

County ^a	Softwood				Hardwood			Total	All species
	Spruce and fir	Hemlock and tamarack	Pine	Total	Aspen and yellow-poplar	Oak and hickory	Other hardwood		
CONNECTICUT									
Fairfield	-	*	-	*	-	-	-	-	*
Hartford	-	0.1	-	0.1	-	-	-	-	0.1
Litchfield	-	3.6	-	3.6	-	-	-	-	3.6
Total	-	3.7	-	3.7	-	-	-	-	3.7
MASSACHUSETTS									
Barnstable	-	*	-	*	-	-	-	-	*
Berkshire	0.2	0.5	0.1	0.8	-	-	0.3	0.3	1.1
Bristol	-	-	-	-	-	-	-	-	-
Essex	-	*	1.9	1.9	*	-	-	*	1.9
Franklin	-	.4	.5	.9	-	-	.1	.1	1.0
Hampden	-	1.3	*	1.3	-	-	-	-	1.3
Hampshire	-	.3	.4	.7	-	-	-	-	.7
Middlesex	-	*	2.3	2.3	-	-	-	-	2.3
Norfolk	-	-	*	*	-	-	-	-	*
Worcester	.1	.2	12.3	12.6	*	-	.1	.1	12.7
Total	0.3	2.7	17.5	20.5	*	-	0.5	0.5	21.0

^aCounties with no production are omitted.

*Less than 50 cords.

Table 12.--Pulpwood production from roundwood in northern New England, by state, county, and species group, 1990

(In thousands of standard cords)

County ^a	Softwood				Hardwood			Total	All species
	Spruce and fir	Hemlock and tamarack	Pine	Total	Aspen and yellow-poplar	Oak and hickory	Other hardwood		
MAINE									
Androscoggin	3.0	6.1	32.3	41.4	3.1	-	9.1	12.2	53.6
Aroostook	234.5	46.0	.7	281.2	14.6	-	124.7	139.3	420.5
Cumberland	2.0	8.4	20.2	30.6	5.6	-	8.0	13.6	44.2
Franklin	81.0	10.0	9.6	100.6	18.6	-	115.7	134.3	234.9
Hancock	54.5	28.6	2.6	85.7	4.7	-	28.3	33.0	118.7
Kennebec	11.9	17.5	27.6	57.0	10.9	-	25.3	36.2	93.2
Knox	20.6	4.7	7.4	32.7	1.4	-	3.8	5.2	37.9
Lincoln	7.9	4.2	13.1	25.2	1.4	-	2.6	4.0	29.2
Oxford	53.1	29.7	37.3	120.1	28.2	-	148.6	176.8	296.9
Penobscot	122.9	90.4	23.4	236.7	28.4	-	162.9	191.3	428.0
Piscataquis	238.0	25.9	8.4	272.3	18.7	-	156.5	175.2	447.5
Sagadahoc	1.3	1.2	4.7	7.2	2.5	-	2.4	4.9	12.1
Somerset	261.8	25.2	24.2	311.2	31.3	-	186.6	217.9	529.1
Waldo	48.1	31.4	11.9	91.4	13.8	-	15.6	29.4	120.8
Washington	83.8	78.7	3.7	166.2	22.3	-	213.4	235.7	401.9
York	.7	5.8	33.5	40.0	4.5	-	22.6	27.1	67.1
Total	1,225.1	413.8	260.6	1,899.5	210.0	-	1,226.1	1,436.1	3,335.6

Continued

Table 12.--Continued

County ^a	Softwood				Hardwood			All species	
	Spruce and fir	Hemlock and tamarack	Pine	Total	Aspen and yellow-poplar	Oak and hickory	Other hardwood		Total
NEW HAMPSHIRE									
Belknap	0.7	1.7	4.6	7.0	3.0	-	3.3	6.3	13.3
Carroll	3.8	14.3	37.5	55.6	23.1	-	33.6	56.7	112.3
Cheshire	.1	4.7	2.9	7.7	*	-	-	*	7.7
Coos	75.2	5.6	3.5	84.3	2.9	-	125.3	128.2	212.5
Grafton	17.4	15.3	10.4	43.1	5.3	-	46.4	51.7	94.8
Hillsborough	.1	.3	2.2	2.6	*	-	*	*	2.6
Merrimack	*	1.1	.1	1.2	.5	-	.5	1.0	2.2
Rockingham	.1	.8	13.1	14.0	.3	-	.3	.6	14.6
Strafford	.2	.7	4.4	5.3	.7	-	.9	1.6	6.9
Sullivan	.7	.4	.1	1.2	.2	-	.3	.5	1.7
Total	98.3	44.9	78.8	222.0	36.0	-	210.6	246.6	468.6
VERMONT									
Addison	0.5	0.5	0.7	1.7	0.3	-	2.2	2.5	4.2
Bennington	1.1	.7	1.0	2.8	.2	-	6.2	6.4	9.2
Caledonia	30.8	5.2	5.8	41.8	1.5	-	27.9	29.4	71.2
Chittenden	.1	.1	2.5	2.7	*	-	.8	.8	3.5
Essex	60.1	4.3	6.1	70.5	1.8	-	103.8	105.6	176.1
Franklin	.6	2.0	1.9	4.5	.8	-	.2	1.0	5.5
Lamoille	3.8	2.1	.3	6.2	.1	-	.3	.4	6.6
Orange	7.5	17.3	7.3	32.1	.6	-	7.5	8.1	40.2
Orleans	21.8	20.6	3.1	45.5	-	-	13.8	13.8	59.3
Rutland	1.8	2.2	5.8	9.8	.6	-	4.2	4.8	14.6
Washington	7.9	1.1	.9	9.9	.4	-	1.4	1.8	11.7
Windham	1.4	4.7	2.1	8.2	.6	-	1.8	2.4	10.6
Windsor	1.5	2.1	2.2	5.8	.4	-	2.7	3.1	8.9
Total	138.9	62.9	39.7	241.5	7.3	-	172.8	180.1	421.6

^aCounties with no production are omitted.

*Less than 50 cords.

Table 13.--Pulpwood production from roundwood in New York, by county and species group, 1990

(In thousands of standard cords)

County ^a	Softwood			Total	Hardwood			Total	All species
	Spruce and fir	Hemlock and tamarack	Pine		Aspen and yellow-poplar	Oak and hickory	Other hardwood		
Albany	0.4	0.3	0.3	1.0	*	-	0.4	0.4	1.4
Alleghany	.9	-	3.1	4.0	0.2	-	.2	.4	4.4
Broome	1.2	1.6	.1	2.9	.4	0.9	2.7	4.0	6.9
Cattaraugus	.2	-	-	.2	-	.5	4.4	4.9	5.1
Cayuga	.8	-	-	.8	-	-	-	.0	.8
Chautauqua	-	-	-	-	-	-	5.1	5.1	5.1
Chemung	-	-	.6	.6	.3	.3	.4	1.0	1.6
Chenango	7.7	4.6	.1	12.4	.3	.9	2.6	3.8	16.2
Clinton	9.6	2.4	7.9	19.9	4.6	-	19.1	23.7	43.6
Columbia	*	.1	*	.1	-	-	-	-	.1
Cortland	2.9	.2	*	3.1	.1	-	.1	.2	3.3
Delaware	1.4	2.9	.7	5.0	.3	.9	3.3	4.5	9.5
Dutchess	-	-	-	-	*	-	-	-	*
Essex	6.1	12.7	15.5	34.3	4.0	-	33.8	37.8	72.1
Franklin	29.4	11.8	.9	42.1	2.5	-	49.0	51.5	93.6
Fulton	1.0	11.2	5.0	17.2	.9	-	6.7	7.6	24.8
Greene	.1	2.0	.6	2.7	.1	-	.1	.2	2.9
Hamilton	6.3	18.8	1.0	26.1	.4	-	56.0	56.4	82.5
Herkimer	5.7	2.2	.8	8.7	.3	-	5.8	6.1	14.8
Jefferson	.2	3.0	*	3.2	4.0	-	.5	4.5	7.7
Lewis	7.1	12.6	2.0	21.7	8.5	-	13.8	22.3	44.0
Madison	.5	.5	.1	1.1	*	-	-	-	1.1
Montgomery	2.0	1.2	.4	3.6	.1	-	.1	.2	3.8
Oneida	3.9	7.8	.4	12.1	.6	-	7.4	8.0	20.1
Onondaga	.7	*	-	.7	*	-	-	*	.7
Orange	-	.1	-	.1	-	-	-	-	.1
Oswego	*	5.7	.1	5.8	-	-	.9	.9	6.7
Otsego	7.7	5.5	.2	13.4	.3	.8	2.5	3.6	17.0
Putnam	-	-	-	-	-	-	-	-	-
Rensselaer	0.1	2.7	0.5	3.3	0.2	-	1.6	1.8	5.1
St. Lawrence	.9	19.4	8.5	28.8	9.4	-	67.1	76.5	105.3
Saratoga	.2	13.4	14.5	28.1	2.3	-	18.0	20.3	48.4
Schenectady	*	.6	.1	.7	-	-	.2	.2	.9
Schoharie	5.7	5.1	.8	11.6	.2	-	*	.2	11.8
Sullivan	-	1.6	-	1.6	.3	.8	2.5	3.6	5.2
Tioga	-	-	*	*	.5	.3	.4	1.2	1.2
Tompkins	-	-	-	-	.4	1.0	2.8	4.2	4.2
Ulster	.2	.6	-	.8	-	-	*	*	.8
Warren	.6	21.0	15.2	36.8	3.2	-	26.2	29.4	66.2
Washington	-	8.2	3.7	11.9	.9	-	11.0	11.9	23.8
Total	103.5	179.8	83.1	366.4	45.3	6.4	344.7	396.4	762.8

^aCounties with no production are omitted.

*Less than 50 cords.

Table 14.--Pulpwood production from roundwood in Pennsylvania, by county and species group, 1990

(In thousands of standard cords)

County ^a	Softwood				Hardwood			Total	All species
	Spruce and fir	Hemlock and tamarack	Pine	Total	Aspen and yellow-poplar	Oak and hickory	Other hardwood		
Adams	-	-	0.4	0.4	-	3.0	-	3.0	3.4
Allegheny	-	-	-	-	-	*	*	*	*
Armstrong	-	-	.1	.1	-	-	0.3	.3	.4
Bedford	-	-	4.9	4.9	0.1	19.2	24.6	43.9	48.8
Berks	-	-	*	*	*	.1	.1	.2	.2
Blair	-	-	.4	.4	.1	17.1	3.2	20.4	20.8
Bradford	-	-	3.2	3.2	9.4	7.3	20.9	37.6	40.8
Butler	-	-	-	-	-	.2	3.4	3.6	3.6
Cambria	-	-	1.4	1.4	*	2.0	.6	2.6	4.0
Cameron	-	-	-	-	-	5.8	2.6	8.4	8.4
Carbon	-	-	-	-	.1	.2	.2	.5	.5
Centre	-	-	1.5	1.5	1.0	4.6	2.8	8.4	9.9
Cester	-	-	*	*	-	*	-	*	*
Clarion	-	-	.6	.6	.1	.9	3.3	4.3	4.9
Clearfield	-	-	12.2	12.2	1.8	29.7	28.6	60.1	72.3
Clinton	-	-	3.3	3.3	1.6	6.3	4.6	12.5	15.8
Columbia	-	-	*	*	.2	.6	.5	1.3	1.3
Crawford	-	-	-	-	-	-	1.8	1.8	1.8
Cumberland	-	-	.5	.5	-	9.0	-	9.0	9.5
Dauphin	-	-	1.1	1.1	.3	2.8	.8	3.9	5.0
Delaware	-	-	*	*	-	.1	-	.1	.1
Elk	-	-	1.0	1.0	.7	4.5	28.0	33.2	34.2
Erie	-	-	-	*	-	-	2.2	2.2	2.2
Fayette	-	-	*	*	-	-	2.0	2.0	2.0
Forest	-	-	.2	.2	.1	27.7	22.5	50.3	50.5
Franklin	-	-	.5	.5	-	12.8	-	12.8	13.3
Fulton	-	-	7.0	7.0	*	12.2	8.1	20.3	27.3
Huntington	-	-	4.7	4.7	.1	22.6	1.2	23.9	28.6
Indiana	-	-	.7	.7	-	-	-	-	.7
Jefferson	-	-	4.9	4.9	.1	2.5	11.9	14.5	19.4
Juniata	-	-	1.1	1.1	-	1.4	*	1.4	2.5
Lackawanna	-	-	-	-	.5	.8	1.5	2.8	2.8

Continued

Table 14.--Continued

County ^a	Softwood				Hardwood			Total	All species
	Spruce and fir	Hemlock and tamarack	Pine	Total	Aspen and yellow-poplar	Oak and hickory	Other hardwood		
Lancaster	-	-	-	-	-	*	-	0.1	0.1
Lawrence	-	-	-	-	-	-	0.1	.1	.1
Lebanon	-	-	-	-	-	0.1	-	.1	.1
Luzerne	-	-	0.1	0.1	2.1	5.5	5.7	13.3	13.4
Lycoming	-	-	1.6	1.6	5.0	15.9	13.4	34.3	35.9
McKean	-	-	-	-	.1	1.1	23.3	24.5	24.5
Mercer	-	-	-	-	-	-	.8	.8	.8
Mifflin	-	-	.1	.1	-	.4	-	.4	.5
Monroe	-	-	-	-	.8	3.2	2.1	6.1	6.1
Montgomery	-	-	*	*	-	-	-	*	*
Montour	-	-	*	*	-	*	-	*	*
Northumberland	-	-	1.2	1.2	*	1.4	.1	1.5	2.7
Perry	-	-	.8	.8	-	1.7	-	1.7	2.5
Pike	-	-	-	-	*	*	*	*	*
Potter	-	-	.3	.3	1.9	12.8	33.4	48.1	48.4
Schuylkill	-	-	1.5	1.5	.2	17.8	1.5	19.5	21.0
Snyder	-	-	2.0	2.0	-	.2	-	.2	2.2
Somerset	-	-	.1	.1	.1	.9	6.4	7.4	7.5
Sullivan	-	*	.5	.5	3.1	8.5	16.2	27.8	28.3
Susquehanna	-	0.2	*	.2	3.2	7.7	10.3	21.2	21.4
Tioga	-	-	-	-	11.5	10.0	28.5	50.0	50.0
Union	-	-	.1	.1	.4	1.0	1.1	2.5	2.6
Venango	-	-	.9	.9	-	1.3	7.9	9.2	10.1
Warren	-	-	.9	.9	*	4.5	23.9	28.4	29.3
Wayne	-	.1	-	.1	.8	1.9	3.0	5.7	5.8
Westmoreland	-	-	-	-	-	-	-	-	-
Wyoming	-	*	.1	.1	3.6	6.2	7.6	17.4	17.5
York	-	-	2.1	2.1	-	3.4	-	3.4	5.5
Total	-	0.3	62.0	62.3	49.0	289.9	361.0	708.9	771.2

^aCounties with no production are omitted.

*Less than 50 cords.

Table 15.--Pulpwood production from roundwood in Delaware, Maryland, and New Jersey,
by county and species group, 1990

(In thousands of standard cords)

County ^a	Softwood				Hardwood			All species	
	Spruce and fir	Hemlock and tamarack	Pine	Total	Aspen and yellow-poplar	Oak and hickory	Other hardwood		
DELAWARE									
Kent	-	-	-	-	-	-	-	-	-
Sussex	-	-	28.0	28.0	-	-	0.8	0.8	28.8
Total	-	-	28.0	28.0	-	-	0.8	0.8	28.8
NEW JERSEY									
Atlantic	-	-	0.9	0.9	-	-	-	-	0.9
Sussex	-	*	-	*	-	-	-	-	*
Total	-	*	0.9	0.9	-	-	-	-	0.9

Continued

Table 15.--Continued

County ^a	Softwood				Hardwood			All species	
	Spruce and fir	Hemlock and tamarack	Pine	Total	Aspen and yellow-poplar	Oak and hickory	Other hardwood		
MARYLAND									
Allegany	-	-	5.5	5.5	*	1.0	34.2	35.2	40.7
Anne Arundel	-	-	12.3	12.3	-	-	.7	.7	13.0
Baltimore	-	-	2.3	2.3	-	2.0	-	2.0	4.3
Calvert	-	-	.1	.1	-	.1	-	.1	.2
Caroline	-	-	12.2	12.2	-	-	.2	.2	12.4
Carroll	-	-	.5	.5	-	.6	-	.6	1.1
Cecil	-	-	-	-	-	-	-	-	-
Charles	-	-	7.6	7.6	-	.6	-	.6	8.2
Dorchester	-	-	8.0	8.0	-	-	.1	.1	8.1
Frederick	-	-	.6	.6	-	2.6	-	2.6	3.2
Garrett	-	-	5.8	5.8	*	1.5	29.0	30.5	36.3
Harford	-	-	-	-	-	*	-	*	*
Howard	-	-	*	*	-	*	-	*	*
Kent	-	-	-	-	-	-	-	-	-
Prince Georges	-	-	10.8	10.8	-	.1	.4	.5	11.3
St. Marys	-	-	*	*	-	.1	-	.1	.1
Montgomery	-	-	-	-	-	-	-	-	-
Somerset	-	-	4.7	4.7	-	-	.4	.4	5.1
Talbot	-	-	-	-	-	-	-	-	-
Washington	-	-	5.6	5.6	-	2.6	.7	3.3	8.9
Wicomico	-	-	12.6	12.6	-	-	.5	.5	13.1
Worcester	-	-	11.1	11.1	-	-	1.1	1.1	12.2
Total	-	-	99.7	99.7	*	11.2	67.3	78.5	178.2

^aCounties with no production are omitted.

*Less than 50 cords.

Table 16.--Pulpwood production from roundwood in West Virginia, by county and species group, 1990

(In thousands of standard cords)

County ^a	Softwood				Hardwood			Total	All species
	Spruce and fir	Hemlock and tamarack	Pine	Total	Aspen and yellow-poplar	Oak and hickory	Other hardwood		
Barbour	-	-	-	-	-	-	-	-	-
Berkeley	-	-	4.1	4.1	-	*	1.5	1.5	5.6
Cabell	-	-	-	-	-	-	-	-	-
Calhoun	-	-	-	-	-	-	-	-	-
Fayette	-	-	.7	.7	-	-	22.5	22.5	23.2
Grant	-	-	1.7	1.7	-	0.1	16.9	17.0	18.7
Greenbrier	-	-	3.1	3.1	-	-	43.3	43.3	46.4
Hampshire	-	-	11.5	11.5	-	*	13.0	13.0	24.5
Hardy	-	-	2.5	2.5	-	-	9.8	9.8	12.3
Jackson	-	-	3.5	3.5	-	-	-	-	3.5
Kanawha	-	-	*	*	-	-	-	-	*
Lincoln	-	-	.3	.3	-	-	-	-	.3
Mason	-	-	2.4	2.4	-	-	-	-	2.4
Mercer	-	-	-	-	-	-	.2	.2	.2
Mineral	-	-	3.1	3.1	-	-	17.0	17.0	20.1
Monroe	-	-	2.4	2.4	-	-	9.5	9.5	11.9
Morgan	-	-	5.4	5.4	-	*	5.2	5.2	10.6
Nicholas	-	-	1.5	1.5	-	-	27.2	27.2	28.7
Pendleton	-	-	5.2	5.2	-	-	13.2	13.2	18.4
Pleasants	-	-	*	*	-	2.9	1.9	4.8	4.8
Pocahontas	-	-	1.2	1.2	-	-	12.3	12.3	13.5
Preston	-	-	5.4	5.4	-	-	13.1	13.1	18.5
Putnam	-	-	2.4	2.4	2.5	6.6	7.6	16.7	19.1
Raleigh	-	-	.1	.1	-	-	3.2	3.2	3.3
Randolph	-	-	.3	.3	-	-	20.7	20.7	21.0
Ritchie	-	-	5.2	5.2	-	3.2	2.3	5.5	10.7
Roane	-	-	.1	.1	-	-	-	-	.1
Summers	-	-	*	*	-	-	1.6	1.6	1.6
Tucker	-	-	.2	.2	-	-	1.4	1.4	1.6
Webster	-	-	*	*	-	-	1.2	1.2	1.2
Wirt	-	-	2.5	2.5	-	-	.3	.3	2.8
Wood	-	-	4.8	4.8	1.3	3.5	4.8	9.6	14.4
Total	-	-	69.6	69.6	3.8	16.3	249.7	269.8	339.4

^aCounties with no production are omitted.

*Less than 50 cords.

Table 17.--Bark generated from roundwood pulpwood in the Northeast, by state and species group, 1990

(In million cubic feet)

State ^a	Softwood			Hardwood			All species		
	Used	Unused	Total	Used	Unused	Total	Used	Unused	Total
Kentucky	0.8	-	0.8	4.3	-	4.3	5.1	-	5.1
Maine	20.2	-	20.2	14.3	1.2	15.5	34.5	1.2	35.7
Maryland	1.7	-	1.7	1.9	-	1.9	3.6	-	3.6
New Hampshire	.6	-	.6	3.0	-	3.0	3.6	-	3.6
New York	3.9	0.9	4.8	3.0	.2	3.2	6.9	1.1	8.0
Ohio	.7	-	.7	4.2	-	4.2	4.9	-	4.9
Pennsylvania	1.5	-	1.5	7.6	.2	7.8	9.1	.2	9.3
Total	29.4	0.9	30.3	38.3	1.6	39.9	67.7	2.5	70.2

^aStates with no pulp mills are omitted.

Table 18.--Harvest intensity: Pulpwood roundwood removals per acre of timberland in the Northeast, 1990

State	Pulpwood harvest	Timberland	Harvest ^a per acre
	<u>Cords</u>	<u>Acres</u> ^b	<u>Cubic feet</u>
Connecticut	3,700	1,777,300	0.18
Delaware	28,800	376,400	6.50
Kentucky	174,600	12,347,400	1.20
Maine	3,335,600	17,060,200	16.62
Maryland	178,200	2,424,000	6.25
Massachusetts	21,000	2,952,000	.60
New Hampshire	468,600	4,812,100	8.28
New Jersey	900	1,857,000	.04
New York	762,800	15,405,800	4.21
Ohio	379,800	6,917,100	4.67
Pennsylvania	771,200	16,340,800	4.01
Rhode Island	-	371,700	-
Vermont	421,600	4,422,100	8.10
West Virginia	339,400	11,917,700	2.42
Total	6,886,200	98,981,600	5.91

^aConversion factor of 85 cubic feet per cord used.

^bMost recent estimates of timberland by U. S. Department of Agriculture, Forest Service.

Widmann, Richard H. 1992. **Pulpwood production in the Northeast--1990.**
Resour. Bull. NE-123. Radnor, PA: U.S. Department of Agriculture,
Forest Service, Northeastern Forest Experiment Station. 27 p.

This annual report contains 1990 information compiled from a canvass of all pulpmills that use pulpwood produced in the 14 Northeastern states. Contains data about pulpwood production and consumption from roundwood by county and species groups, and pulpwood chip production from manufacturing residues by state. Comparisons are made with the previous year's data. Trends in pulpwood production are shown graphically.

Keywords: Residue, timber output, harvest

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