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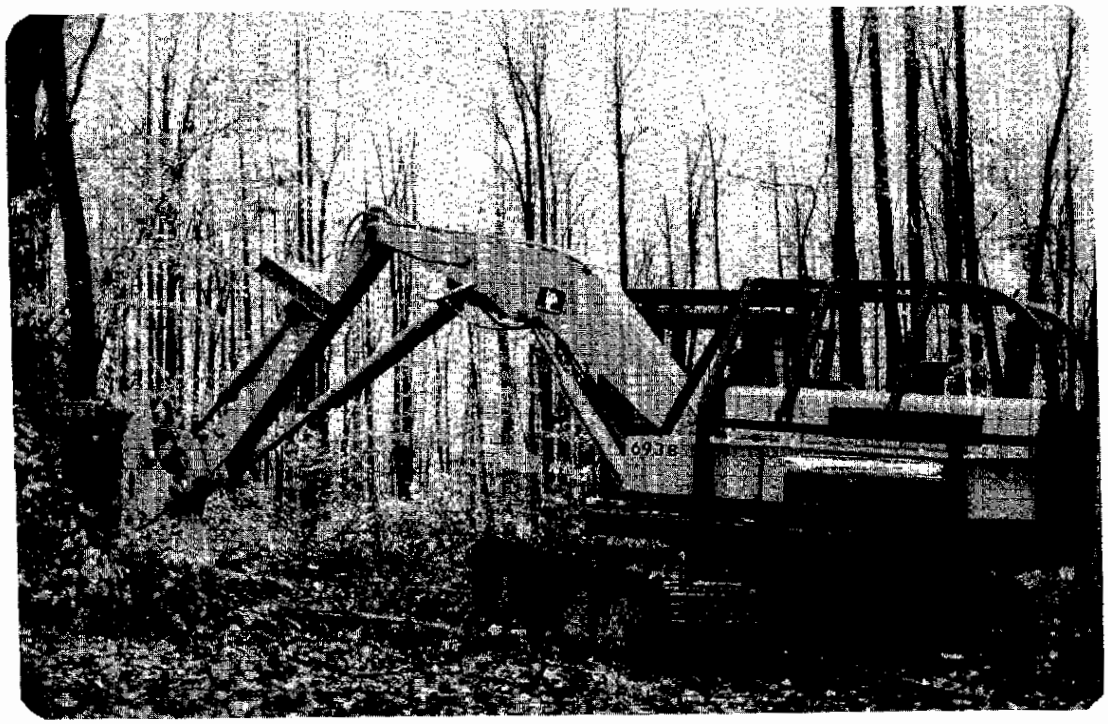
Pulpwood Production in the Northeast—1986

Richard H. Widmann



Abstract

The 1986 annual assessment of pulpwood production and receipts for the 14 states in the Northeast Region shows that total pulpwood production was up 2 percent since 1985. The two components that make up total production, roundwood and manufacturing residue chips both increased. Roundwood production increased by 2 percent or 122,500 cords, and manufacturing residue chips increased by 1 percent or 22,500 cords. The production of roundwood from softwood species fell by 4 percent, while the production of hardwood roundwood rose by 7 percent. All of the decline in softwood roundwood was the result of a 9 percent decline in production from the spruce and fir species group. Total consumption at mills in the region was 9,385,300 cords.

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Pulpwood Production in the Northeast--1986

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Cover Photo: Mechanized Harvesting Operations are becoming more common in the Northeast.

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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.

Highlights

Total pulpwood production in the 14 Northeastern states rose by 2 percent during 1986. The 8,952,400 cords of pulpwood produced were just shy of the record high set in 1984 (Fig. 1). The two components that make up total production--roundwood and manufacturing residues--both increased. Roundwood production increased by 2 percent or 122,500 cores, and manufacturing residues increased by 1 percent or 22,500 cords. Pulpwood production in1986 reflects the strong demand for pulpwood in recent years.

Pennsylvania had the largest increase in total production. Following an 8 percent increase in 1985, production rose again in 1986 to total 1.2 million cords, a 9 percent increase. Other states with large increases were Maryland (+5 percent), New York (+2 percent), Ohio (+21 percent), Vermont (+5 percent), and West Virginia (+14 percent). States with large decreases were Maine and Kentucky. This was the second consecutive year production decreased in Maine, off 142,100 cords from the high reached in 1984.

Percent Change in Total Production Compared to 1985:

	Percent		Percent
Connecticut	-47	New Jersey	-12
Delaware	-13	New York	+ 2
Kentucky	-23	Ohio	+21
Maine	- 1	Pennsylvania	+ 9
Maryland	+ 5	Rhode Island	+236
Massachusetts	+10	Vermont	+ 5
New Hampshire	+ 1	West Virginia	+14

The production of softwood roundwood fell by 4 percent. This was more than offset by a 7 percent increase in hardwood roundwood production. Total roundwood production rose by 2 percent or 145,300 cords since 1985. All of the decline in softwoods was a result of a 9 percent drop in the spruce and fir species group. The production of roundwood from hemlock rose slightly as well as production from pine which increased by 8 percent. In recent years the production of pulpwood from spruce and fir has been declining while production from other softwood species has risen.

In Maine, production of roundwood from spruce and fir fell by 167,100 cords since 1985. This is the lowest production in this species group since the recession year of 1975, and 379,400 cords below the peak reached in 1980. A

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

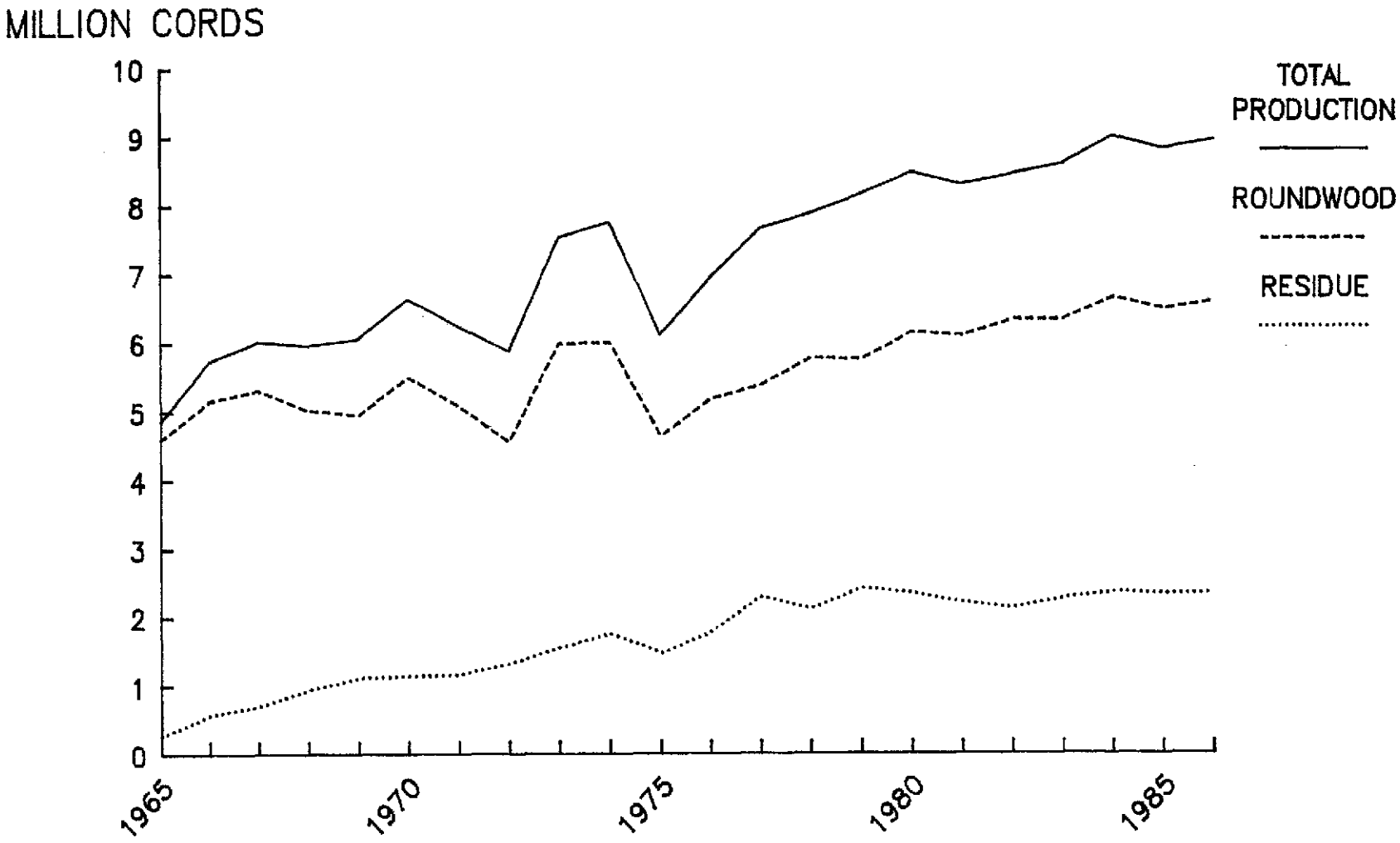

Figure 1.--Total roundwood, and manufacturing residue production in the Northeast.

recent inventory of the Maine timber resource shows a significant decline in the spruce and fir inventory. Because of this large decline in inventory volume, it is unlikely that production from these species will improve soon.

Increases in the production of hardwood roundwood were well distributed across the Northeast. All the pulpwood producing states with the exception of Delaware had increases. Pennsylvania had the largest increases with 41,000 more cords produced in 1986.

In 1986 chips from manufacturing residues continued to make up 26 percent of pulpwood production. Total production of these chips was up slightly (1 percent) in 1986 with all of the increase coming from a rise in softwood chip production. Pennsylvania and West Virginia had the largest increases in production, up 18 and 24 percent, respectively.

Competition for sawmill residues has increased in recent years with almost all of the residues generated at sawmills being used for either pulpwood, fuel, or miscellaneous products. This high level of utilization could make significant increases in the use of residue chips for pulp unlikely in the future, unless changes in the price structure or sawmill production occur.

The production of whole-tree chips for pulp fell by 67,900 cords in 1986, totaling 732,500 cords (Table 18). This was the second consecutive year that production fell. Production of these chips is now 11 percent of roundwood produced, down from 13 percent in 1984. The largest decline was reported in Ohio where production was off 54,000 cords.

Total consumption of pulpwood at mills in the region was 9,385,300 cords, down by 69,800 cords (1 percent). The consumption of softwoods fell by 118,200 cords while hardwood consumption rose by 48,400 cords. Most of the decrease in softwood consumption was the result of a drop in production of spruce and fir roundwood.

Total shipments of wood out of the region were 475,600 cords and shipments of wood into the region were 908,500 cords. In 1986 the amount of pulpwood exported out of the region increased by 71,000 cords and the amount of wood imported into the region decreased by 143,800 cords. All of the decrease in imports into the region was residue chips.

Appendix

Definition of Terms

Cord. See Standard Cord.

Cord equivalent. A unit of measure that is 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 woodpulp.

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

Pulpwood receipts. Pulpwood received at woodpulp 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, fence posts, 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 centicentimeters = 0.028 cubic meters.

Conversion Factors Used for Green Roundwood

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

Index to Tables

Table 1.-Total production of pulpwood in the Northeast, by state and source, 1986

(In thousands of standard cords)[a]

State	From roundwood	From manufacturing residues	From all sources
Connecticut	1.7	2.6	4.3
Delaware	15.8	1.4	17.2
Kentucky	168.6	212.0	380.6
Maine	3,397.0	744.3	4,141.3
Maryland	170.0	179.7	349.7
Massachusetts	11.5	24.1	35.6
New Hampshire	367.4	170.5	537.9
New Jersey	1.5	-	1.5
New York	738.6	129.2	867.8
Ohio	394.1	168.9	563.0
Pennsylvania	773.5	435.9	1,209.4
Rhode Island	-	3.7	3.7
Vermont	331.7	61.3	393.0
West Virginia	231.0	216.4	447.4
Total	6,602.4	2,350.0	8,952.4

[a]Rough wood basis, equivalent to 85 ft^3 solid wood.

Table 2.-Production and receipts of pulpwood in the Northeast, by state and softwood and hardwood, 1986

(In thousands of standard cords)

State	Produced in state		Received in state		Net export(+) and import(-)
	Softwood	Hardwood	Softwood	Hardwood	
Connecticut	3.0	1.3	-	-	+4.3
Delaware	16.9	.3	-	-	+17.2
Kentucky	28.5	352.1	131.0	643.6	-394.0
Maine	2,759.0	1,382.3	3,004.3	1,606.1	-469.1
Maryland	227.9	121.8	(D)	(D)	-163.3
Massachusetts	25.9	9.7	-	-	+35.6
New Hampshire	287.5	250.4	140.7	368.6	+28.6
New Jersey	1.5	-	-	-	+1.5
New York	388.9	478.9	497.7	393.8	-23.7
Ohio	17.9	545.1	21.5	609.3	-67.8
Pennsylvania	81.2	1,128.2	239.3	1,199.5	-229.4
Rhode Island	.6	3.1	-	-	+3.7
Vermont	199.8	193.2	(D)	(D)	+376.1
West Virginia	60.5	386.9	-	-	+447.4
Total	4,099.1	4,853.3	4,256.1	5,129.2	-432.9

(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, 1986

(In thousands of standard cords)

State	Softwood				Hardwood				All species
	Retained in state	Shipped to other states		Total	Retained in state	Shipped to other states		Total	
		In Northeast	Outside Northeast			In Northeast	Outside Northeast		
Connecticut	-	1.7	-	1.7	-	-	-	-	1.7
Delaware	-	13.5	2.3	15.8	-	-	-	-	15.8
Kentucky	3.4	.5	21.8	25.7	125.0	16.9	1.0	142.9	168.6
Maine	2,058.3	8.9	.4	2,067.6	1,299.8	29.6	-	1,329.4	3,397.0
Maryland	28.8	36.1	33.6	98.5	64.9	6.6	-	71.5	170.0
Massachusetts	-	6.3	-	6.3	-	5.2	-	5.2	11.5
New Hampshire	42.6	98.6	-	141.2	178.7	47.5	-	226.2	367.4
New Jersey	-	1.5	-	1.5	-	-	-	-	1.5
New York	350.7	.8	-	351.5	312.0	19.9	55.2	387.1	738.6
Ohio	14.6	3.3	-	17.9	373.0	3.2	-	376.2	394.1
Pennsylvania	41.1	20.2	-	61.3	674.1	38.1	-	712.2	773.5
Rhode Island	-	-	-	-	-	-	-	-	-
Vermont	15.5	141.2	3.1	159.8	1.4	170.5	-	171.9	331.7
West Virginia	-	52.2	4.8	57.0	-	86.4	87.6	174.0	231.0
Total	2,555.0	384.8	66.0	3,005.8	3,028.9	423.9	143.8	3,596.6	6,602.4

Table 4.-Pulpwood chip production from manufacturing residues in the Northeast, by state, softwood and hardwood, and destination of shipment, 1986[a]

(In thousands of standard cord equivalents)

State	Softwood				Hardwood				All species
	Produced and retained in state	Shipped to other states		Total	Produced and retained in state	Shipped to other states		Total	
		In Northeast	Outside Northeast			In Northeast	Outside Northeast		
Connecticut	-	1.3	-	1.3	-	1.3	-	1.3	2.6
Delaware	-	1.1	-	1.1	-	.3	-	.3	1.4
Kentucky	0.1	.2	2.5	2.8	169.9	25.1	14.2	209.2	212.0
Maine	621.4	-	70.0	691.4	50.1	2.6	.2	52.9	744.3
Maryland	22.1	76.6	30.7	129.4	8.1	41.5	.7	50.3	179.7
Massachusetts	-	19.6	-	19.6	-	4.5	-	4.5	24.1
New Hampshire	59.8	86.5	-	146.3	12.5	11.7	-	24.2	170.5
New Jersey	-	-	-	-	-	-	-	-	-
New York	37.3	.1	-	37.4	33.4	55.4	3.0	91.8	129.2
Ohio	-	-	-	-	165.2	3.7	-	168.9	168.9
Pennsylvania	15.9	4.0	-	19.9	368.6	47.4	-	416.0	435.9
Rhode Island	-	.6	-	.6	-	3.1	-	3.1	3.7
Vermont	-	40.0	-	40.0	-	21.3	-	21.3	61.3
West Virginia	-	.6	2.9	3.5	-	71.3	141.6	212.9	216.4
Total	756.6	230.6	106.1	1,093.3	807.8	289.2	159.7	1,256.7	2,350.0

[a]Includes sawmill slabs and edgings, sawdust, veneer cores, and post and piling trimmings.

Table 5.-Pulpwood receipts from roundwood in the Northeast, by state, softwood and hardwood, and origin of shipment, 1986

(In thousands of standard cords)

State[a]	Softwood				Hardwood				All species
	Cut in state	Received from other states		Total	Cut in state	Received from other states		Total	
		In Northeast	Outside Northeast			In Northeast	Outside Northeast		
Kentucky	3.4	-	71.1	74.5	125.0	-	163.4	288.4	362.9
Maine	2,058.3	153.0	38.8	2,250.1	1.299.8	55.9	182.4	1,538.1	3,788.2
Maryland	28.8	(D)	(D)	(D)	64.9	(D)	(D)	(D)	(D)
New Hampshire	42.6	24.9	-	67.5	178.7	174.4	-	353.1	420.6
New Jersey	-	-	-	-	-	-	-	-	-
New York	350.7	79.4	1.2	431.3	312.0	23.9	-	335.9	767.2
Ohio	14.6	3.2	-	17.8	373.0	24.2	-	397.2	415.0
Pennsylvania	41.1	52.0	48.8	141.9	674.1	29.7	11.1	714.9	856.8
Vermont	15.5	(D)	(D)	(D)	1.4	(D)	(D)	(D)	(D)
Total	2,555.0	384.8	204.5	3,144.3	3,028.9	423.9	370.1	3,822.9	6,967.2

[a]States with no pulpmills are omitted. (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, 1986[a]

(In thousands of standard cord equivalents)

State[b]	Softwood				Hardwood				All species
	Produced in state	Received from other states		Total	Produced in state	Received from other states		Total	
		In Northeast	Outside Northeast			In Northeast	Outside Northeast		
Kentucky	0.1	-	56.4	56.5	169.9	-	185.3	355.2	411.7
Maine	621.4	105.5	27.3	754.1	50.1	17.5	.4	68.0	822.2
Maryland	22.1	(D)	(D)	(D)	8.1	(D)	(D)	(D)	(D)
New Hampshire	59.8	13.4	-	73.2	12.5	3.0	-	15.5	88.7
New Jersey	-	-	-	-	-	-	-	-	-
New York	37.3	29.1	-	66.4	33.4	24.2	.3	57.9	124.3
Ohio	-	3.7	-	3.7	165.2	45.4	1.5	212.1	215.8
Pennsylvania	15.9	77.8	3.7	97.4	368.6	100.9	15.1	484.6	582.0
Vermont	-	(D)	(D)	(D)	-	(D)	(D)	(D)	(D)
Total	756.6	230.6	124.6	1,111.8	807.8	289.2	209.3	1,306.3	2,418.1

[a]Includes sawmill slabs and edgings, sawdust, veneer cores, and post and pole trimmings.

[b]States with no pulpmills are omitted.
(D)Data withheld to avoid disclosure for individual mills.

Table 7.-Pulpwood production from roundwood received from states outside the Northeast, by state (or province) of origin and softwood and hardwood, 1986

(In thousands of standard cords)

Receiving state[a]	State or province of origin	Softwood	Hardwood	All species
Kentucky	Illinois	8.4	16.9	25.3
	Indiana	-	11.6	11.6
	Mississippi	40.1	36.6	76.7
	Missouri	2.2	11.6	13.8
	Tennessee	20.4	86.7	107.1
Maine	New Brunswick	2.6	174.4	177.0
	Quebec	36.2	8.0	44.2
Maryland	Virginia	44.6	13.2	57.8
New York	Ontario	.1	-	.1
	Quebec	1.1	-	1.1
Pennsylvania	Virginia	48.8	11.1	59.9
All States		204.5	370.1	574.6

[a]States with no extraregional receipts are omitted.

Table 8.-Pulpwood chip receipts from wood-using manufacturing plants outside the Northeast, by state (or province) of origin and softwood and hardwood, 1986[a]

(In thousands of standard cord equivalents)

Receiving state[b]	State or province of origin	Softwood	Hardwood	All species
Kentucky	Alabama	-	0.8	0.8
	Arkansas	*	6.4	6.4
	Illinois	-	8.8	8.8
	Indiana	-	57.5	57.5
	Mississippi	54.1	28.3	82.4
	Missouri	2.1	43.0	45.1
	Tennessee	.2	40.5	40.7
Maine	New Brunswick	-	-	-
	Quebec	27.3	.4	27.7
Maryland	Virginia	37.2	6.7	43.9
New York	Ontario	-	.3	.3
Ohio	Indiana	-	1.5	1.5
Pennsylvania	Virginia	3.7	15.1	18.8
All states		124.6	209.3	333.9

[a]Includes sawmill slabs and edgings, sawdust, veneer cores, and post and piling trimmings.
[b]States with no extraregional receipts are omitted.
*Less than 50 cords.

Table 9.-Pulpwood production from roundwood in the Northeast, by state and species group, 1986

(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	-	1.1	0.6	1.7	-	-	-	-	1.7
Delaware	-	-	15.8	15.8	-	-	-	-	15.8
Kentucky	-	-	25.7	25.7	10.6	113.8	18.5	142.9	168.6
Maine	1,483.9	317.0	266.7	2,067.6	155.6	4.3	1,169.5	1,329.4	3,397.0
Maryland	-	2.9	95.6	98.5	4.7	34.9	31.9	71.5	170.0
Massachusetts	1.8	3.1	1.4	6.3	-	-	5.2	5.2	11.5
New Hampshire	67.1	39.5	34.6	141.2	2.2	-	224.0	226.2	367.4
New Jersey	-	-	1.5	1.5	-	-	-	-	1.5
New York	111.7	155.2	84.6	351.5	22.6	3.2	361.3	387.1	738.6
Ohio	-	.2	17.7	17.9	1.9	318.0	56.3	376.2	394.1
Pennsylvania	-	11.8	49.5	61.3	27.5	200.2	484.5	712.2	773.5
Vermont	103.5	38.5	17.8	159.8	1.8	-	170.1	171.9	331.7
West Virginia	.4	6.4	50.2	57.0	16.6	87.3	70.1	174.0	231.0
Total	1,768.4	575.7	661.7	3,005.8	243.5	761.7	2,591.4	3,596.6	6,602.4

Table 10.-Pulpwood production from roundwood in Kentucky and Ohio, by county and species group, 1986

(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	Total	
					KENTUCKY				
Ballard	-	-	-	-	0.4	1.0	0.7	2.1	2.1
Boyd	-	-	-	-	-	.7	-	.7	.7
Butler	-	-	-	-	-	13.3	-	13.3	13.3
Caldwell	-	-	1.6	1.6	1.5	3.3	2.5	7.3	8.9
Calloway	-	-	-	-	.2	.6	.4	1.2	1.2
Carlisle	-	-	-	-	1.1	2.4	1.8	5.3	5.3
Casey	-	-	-	-	-	3.0	-	3.0	3.0
Crittenden	-	-	1.8	1.8	1.5	3.3	2.5	7.3	9.1
Fulton	-	-	-	-	.4	1.0	.7	2.1	2.1
Graves	-	-	-	-	1.5	8.4	2.6	12.5	12.5
Greenup	-	-	.5	.5	-	14.3	-	14.3	14.8
Hickman	-	-	-	-	.8	1.7	1.3	3.8	3.8
Laurel	-	-	5.9	5.9	-	21.1	-	21.1	27.0
Lewis	-	-	-	-	-	1.9	-	1.9	1.9
Livingston	-	-	-	-	.4	.9	.7	2.0	2.0
Lyon	-	-	-	-	1.7	4.0	3.0	8.7	8.7
McCracken	-	-	-	-	.3	.8	.6	1.7	1.7
McCreary	-	-	4.9	4.9	-	-	-	-	4.9
Ohio	-	-	-	-	-	29.9	-	29.9	29.9
Trigg	-	-	-	-	.8	1.7	1.3	3.8	3.8
Whitley	-	-	11.0	11.0	-	.5	.4	.9	11.9
Total	-	-	25.7	25.7	10.6	113.8	18.5	142.9	168.6

Table 10.-(Cont'd.)-Pulpwood production from roundwood in Kentucky and Ohio, by county and species group, 1986

(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	Total	
					OHIO				
Adams	-	-	0.2	0.2	-	8.9	-	8.9	9.1
Ashland	-	-	-	-	-	.6	1.4	2.0	2.0
Athens	-	-	.8	.8	0.7	8.1	3.8	12.6	13.4
Belmont	-	-	-	-	-	5.9	3.9	9.8	9.8
Carroll	-	-	1.1	1.1	-	4.5	3.1	7.6	8.7
Clinton	-	-	-	-	-	.1	-	.1	.1
Columbiana	-	-	-	-	-	.5	1.9	2.4	2.4
Coshocton	-	-	-	-	-	15.8	10.5	26.3	26.3
Cuyahoga	-	-	-	-	-	.3	.2	.5	.5
Fairfield	-	-	-	-	*	.3	.1	.4	.4
Fulton	-	-	-	-	-	4.4	2.9	7.3	7.3
Gallia	-	-	1.6	1.6	*	4.2	*	4.2	5.8
Green	-	-	.8	.8	-	-	-	-	.8
Guernsey	-	-	-	-	-	9.7	6.5	16.2	16.2
Hamilton	-	-	-	-	-	.2	.1	.3	.3
Harrison	-	-	-	-	-	2.6	1.8	4.4	4.4
Highland	-	-	-	-	-	2.0	-	2.0	2.0
Hocking	-	-	2.7	2.7	.4	4.5	.9	5.8	8.5
Holmes	-	-	-	-	-	1.7	1.1	2.8	2.8
Jackson	-	-	5.7	5.7	*	46.3	.1	46.4	52.1
Jefferson	-	-	-	-	-	.9	.6	1.5	1.5
Knox	-	-	-	-	-	1.1	.8	1.9	1.9
Lake	-	-	-	-	-	*	*	*	*
Lawrence	-	-	.3	.3	.1	3.1	.1	3.3	3.6
Licking	-	-	-	-	*	.6	.2	.8	.8
Lorain	-	-	-	-		.3	.2	.5	.5
Meigs	-	0.2	2.9	3.1	-	-	.1	.1	3.2
Muskingum	-	-	-	-	*	4.1	2.4	6.5	6.5
Noble	-	-	.4	.4	-	10.9	7.3	18.2	18.6
Perry	-	-	-	-	.2	1.7	.7	2.6	2.6
Pike	-	-	.3	.3	.1	32.3	.2	32.6	32.9

Table 10.-(cont'd.)-Pulpwood production from roundwood in Kentucky and Ohio, by county and species by group, 1986

(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	Total	
					OHIO				
Ross	-	-	0.3	0.3	0.1	64.6	0.1	64.8	65.1
Scioto	-	-	*	*	*	21.8	*	21.8	21.8
Summit	-	-	-	-	-	.4	.3	0.7	0.7
Trumball	-	-	-	-	-	-	.1	.1	.1
Tuscarawas	-	-	-	-	-	6.0	4.0	10.0	10.0
Vinton	-	-	.6	.6	.3	49.1	.6	50.0	50.6
Washington	-	-	-	-	-	.4	.2	.6	.6
Wayne	-	-	-	-	-	.1	.1	.2	.2
Total	-	0.2	17.7	17.9	1.9	318.0	56.3	376.2	394.1

[a]Counties 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, 1986

(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	Total	
CONNECTICUT									
Hartford	-	0.1	*	0.1	-	-	-	-	0.1
Litchfield	-	1.0	0.6	1.6	-	-	-	-	1.6
Total	-	1.1	0.6	1.7	-	-	-	-	1.7
MASSACHUSETTS									
Barnstable	-	1.4	0.1	1.5	-	-	0.1	0.1	1.6
Berkshire	1.8	*	.4	2.2	-	-	*	*	2.2
Bristol	-	-	-	-	-	-	1.2	1.2	1.2
Essex	-	-	.4	.4	-	-	.5	.5	.9
Franklin	-	.4	*	.4	-	-	.1	.1	.5
Hampden	-	.6	*	.6	-	-	-	-	.6
Hampshire	-	.7	.1	.8	-	-	-	-	.8
Middlesex	-	-	.4	.4	-	-	.7	.7	1.1
Norfolk	-	-	-	-	-	-	.8	.8	.8
Plymouth	-	-	-	-	-	-	.9	.9	.9
Worcester	-	-	-	-	-	-	.9	.9	.9
Total	1.8	3.1	1.4	6.3	-	-	5.2	5.2	11.5

[a]Counties 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, 1986

(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	Total	
				MAINE					
Androscoggin	2.4	5.0	18.7	26.1	2.6	*	9.1	11.7	37.8
Aroostook	242.9	24.6	1.8	269.3	6.4	*	107.5	113.9	383.2
Cumberland	3.1	6.1	27.5	36.7	1.1	*	14.3	15.4	52.1
Franklin	105.7	15.6	18.7	140.0	18.8	0.1	127.0	145.9	285.9
Hancock	43.7	5.8	1.2	50.7	3.6	*	38.0	41.6	92.3
Kennebec	11.0	26.0	35.9	72.9	5.6	.2	23.1	28.9	101.8
Knox	9.2	3.0	4.4	16.6	.7	*	2.8	3.5	20.1
Lincoln	8.6	7.8	18.4	34.8	.7	*	2.3	3.0	37.8
Oxford	68.5	36.0	27.8	132.3	21.3	*	141.1	162.4	294.7
Penobscot	217.5	85.8	22.8	326.1	20.1	.3	186.4	206.8	532.9
Piscataquis	270.7	22.7	7.7	301.1	12.6	1.7	124.4	138.7	439.8
Sagadahoc	26.3	3.6	7.7	37.6	.2	*	.6	.8	38.4
Somerset	394.7	34.4	26.9	456.0	35.6	1.8	177.4	214.8	670.8
Waldo	34.8	14.1	16.6	65.5	5.6	.2	15.9	21.7	87.2
Washington	44.3	20.5	1.3	66.1	20.6	*	187.9	208.5	274.6
York	.5	6.0	29.3	35.8	.1	-	11.7	11.8	47.6
Total	1,483.9	317.0	266.7	2,067.6	155.6	4.3	1,169.5	1,329.4	3,397.0

Table 12 (cont'd.)-Pulpwood production from roundwood in northern New England, by state, county, and species group, 1986

(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	Total	
				NEW HAMPSHIRE					
Belknap	0.1	0.4	3.2	3.7	-	-	2.6	2.6	6.3
Carroll	2.8	4.1	21.4	28.3	0.2	-	19.6	19.8	48.1
Cheshire	*	2.9	-	2.9	-	-	.4	.4	3.3
Coos	57.1	8.4	2.2	67.7	1.8	-	140.3	142.1	209.8
Grafton	6.9	22.7	3.4	33.0	.2	-	56.2	56.4	89.4
Hillsborough	*	.1	.1	.2	-	-	1.0	1.0	1.2
Merrimack	.1	.1	.3	.5	*	-	1.3	1.3	1.8
Rockingham	-	.1	1.1	1.2	-	-	.7	.7	1.9
Strafford	.1	.3	2.8	3.2	-	-	1.7	1.7	4.9
Sullivan	*	.4	.1	.5	-	-	.2	.2	.7
Total	67.1	39.5	34.6	141.2	2.2	-	224.0	226.2	367.4

Table 12 (cont'd.)-Pulpwood production from roundwood in northern New England, by state, county, and species group, 1986

(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	Total	
				VERMONT					
Addison	0.5	0.7	0.5	1.7	-	-	0.5	0.5	2.2
Bennington	.6	.4	1.0	2.0	-	-	4.2	4.2	6.2
Caledonia	20.9	7.3	2.2	30.4	0.1	-	30.7	30.8	61.2
Chittenden	.8	.6	3.0	4.4	.2	-	.5	.7	5.1
Essex	38.2	2.9	1.4	42.5	.3	-	98.9	99.2	141.7
Franklin	1.3	2.5	1.0	4.8	1.2	-	1.0	2.2	7.0
Grand Isle	*	-	-	*	-	-	-	-	*
Lamoille	4.4	1.1	.5	6.0	*	-	1.2	1.2	7.2
Orange	5.0	5.9	1.8	12.7	-	-	7.4	7.4	20.1
Orleans	23.6	8.2	1.4	33.2	-	-	18.1	18.1	51.3
Rutland	2.6	1.5	2.5	6.6	-	-	3.7	3.7	10.3
Washington	2.6	.9	1.1	4.6	-	-	1.5	1.5	6.1
Windham	1.9	4.8	1.2	7.9	-	-	1.5	1.5	9.4
Windsor	1.1	1.7	.2	3.0	-	-	.9	.9	3.9
Total	103.5	38.5	17.8	159.8	1.8	-	170.1	171.9	331.7

[a]Counties with no production are omitted.

*Less than 50 cords.

Table 13.-Pulpwood production from roundwood in New York, by county and species group, 1986

(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	Total	
Albany	0.3	1.3	*	1.6	-	-	0.1	0.1	1.7
Alleghany	-	-	0.6	.6	-	0.1	.3	.4	1.0
Broome	-	.2	-	.2	0.5	1.1	2.9	4.5	4.7
Cattaraugua	-	-	-	-	-	.3	8.6	8.9	8.9
Cayuga	.1	-	-	.1	-	-	-	-	.1
Chautauqua	-	-	-	-	-	*	3.8	3.8	3.8
Chemug	-	-	.2	.2	.3	.3	.5	1.1	1.3
Chenango	7.8	1.5	*	9.3	*	.1	.2	.3	9.6
Clinton	5.9	3.4	6.9	16.2	.8	-	20.7	21.5	37.7
Columbia	-	.2	.1	.3	-	-	*	*	.3
Cortland	.3	1.5	*	1.8	-	-	*	*	1.8
Delaware	2.3	1.6	.1	4.0	.1	.3	2.0	2.4	6.4
Dutchess	*	*	.1	.1	-	-	*	-	.1
Essex	1.1	26.5	13.4	41.0	.1	-	83.1	83.2	124.2
Franklin	26.0	9.6	2.8	38.4	1.7	-	54.2	55.9	94.3
Fulton	.4	10.0	6.4	16.8	-	-	8.7	8.7	25.5
Greene	*	1.0	.1	1.1	-	-	-	-	1.1
Hamilton	20.8	10.9	1.4	33.1	0.1	-	36.7	36.8	69.9
Herkimer	13.0	6.3	3.4	22.7	.2	-	5.8	6.0	28.7
Jefferson	.4	.6	.5	1.5	3.9	-	.1	4.0	5.5
Lewis	7.7	5.1	1.7	14.5	7.4	-	23.3	30.7	45.2
Madison	.2	.1	.2	.5	-	-	*	-	.5
Montgomery	3.5	.6	2.6	6.7	-	-	.5	.5	7.2
Oneida	3.9	6.4	2.8	13.1	.3	-	1.6	1.9	15.0
Onondaga	.2	-	-	.2	.1	-	-	.1	.3
Orange	-	*	-	*	-	-	-	*	*
Oswego	-	*	*	*	-	-	4.1	4.1	4.1
Otsego	1.2	3.1	5.6	9.9	*	*	.2	.2	10.1
Rensselaer	.2	2.2	.4	2.8	-	-	.9	.9	3.7

Table 13. (Cont'd.)-Pulpwood production from roundwood in New York, by county and species group, 1986

(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	Total	
St. Lawrence	8.4	6.5	1.9	16.8	6.5	-	41.8	48.3	65.1
Saratoga	.5	23.7	10.9	35.1	-	-	22.7	22.7	57.8
Schenectady	-	*	.1	.1	-	-	*	*	.1
Schoharie	6.8	1.8	3.8	12.4	-	-	.4	.4	12.8
Schuyler	.3	-	-	.3	.1	.2	.8	1.1	1.4
Sullivan	-	2.3	*	2.3	*	*	.3	.3	2.6
Tioga	-	-	-	-	.5	.8	1.0	2.3	2.3
Ulster	-	.4	*	.4	-	-	-	-	.4
Warren	.3	21.8	15.0	37.1	-	-	29.8	29.8	66.9
Washington	.1	6.6	3.6	10.3	-	-	6.2	6.2	16.5
Total	111.7	155.2	84.6	351.5	22.6	3.2	361.3	387.1	738.6

[a]Counties with no production are omitted.

*Less than 50 cords.

Table 14.-Pulpwood production from roundwood in Pennsylvania, by county and species group, 1986

(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	Total	
Adams	-	-	0.2	0.2	-	1.8	0.9	2.7	2.9
Allegheny	-	-	-	-	-	.3	.4	.7	.7
Armstrong	-	-	-	-	-	.1	.6	.7	.7
Beaver	-	-	-	-	-	*	.1	8.1	8.1
Bedford	-	1.5	3.0	4.5	1.2	18.5	18.2	37.9	42.4
Berks	-	-	.9	.9	-	.6	.3	.9	1.8
Blair	-	.2	.2	.4	.5	4.6	2.9	8.0	8.4
Bradford	-	.9	1.1	2.0	4.4	8.1	28.0	40.5	42.5
Bucks	-	-	-	-	-	*	-	*	*
Butler	-	-	-	-	-	1.1	6.2	7.3	7.3
Cambria	-	-	.9	.9	.1	.5	.4	1.0	1.9
Cameron	-	-	-	-	-	2.7	2.6	5.3	5.3
Centre	-	.3	1.6	1.9	*	1.7	.5	2.2	4.1
Chester	-	-	*	*	-	-	-	-	*
Clarion	-	.3	.4	.7	-	.8	7.7	8.5	9.2
Clearfield	-	3.1	5.2	8.3	.4	13.2	28.0	41.6	49.9
Clinton	-	1.9	3.6	5.5	.2	14.8	3.8	18.8	24.3
Columbia	-	-	-	-	.5	4.2	2.4	7.1	7.1
Crawford	-	-	-	-	-	.1	7.0	7.1	7.1
Cumberland	-	-	.7	.7	-	4.8	2.5	7.3	8.0
Dauphin	-	-	1.0	1.0	-	2.1	1.1	3.2	4.2
Elk	-	.3	.7	1.0	-	.8	41.8	42.6	43.6
Erie	-	-	-	-	-	.1	12.0	12.1	12.1
Fayette	-	-	*	*	-	.7	1.1	1.8	1.8
Forest	-	-	.1	.1	-	2.3	40.7	43.0	43.1
Franklin	-	.3	.8	1.1	-	4.7	2.5	7.2	8.3
Fulton	-	.5	3.4	3.9	.2	7.6	7.2	15.0	18.9
Huntington	-	-	5.1	5.1	.1	10.7	7.5	18.3	23.4
Indiana	-	-	.5	.5	-	.2	2.7	2.9	3.4
Jefferson	-	1.5	2.3	3.8	-	1.5	13.8	15.3	19.1
Juniata	-	-	1.4	1.4	-	.9	.5	1.4	2.8
Lackawanna	-	.3	.4	.7	.4	.6	.8	1.8	2.5

Table 14 (cont'd.)-Pulpwood production from roundwood in Pennsylvania, by county and species group, 1986

(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	Total	
Lancaster	-	-	0.1	0.1	-	1.1	0.5	1.6	1.7
Lawrence	-	-	-	-	-	*	.2	.2	.2
Lebanon	-	-	*	*	-	.1	.1	.2	.2
Lehigh	-	-	-	-	-	-	*	*	*
Luzerne	-	-	1.5	1.5	0.5	5.1	2.5	8.1	9.6
Lycoming	-	-	.4	.4	.6	8.0	4.0	12.6	13.0
McKean	-	-	*	*	-	.2	63.6	63.8	63.8
Mercer	-	-	-	-	-	.2	2.8	3.0	3.0
Mifflin	-	-	.4	.4	-	1.2	.7	1.9	2.3
Monroe	-	-	-	-	-	1.8	.1	1.9	1.9
Montour	-	-	1.2	1.2	-	.1	.1	.2	1.4
Northumberland	-	-	1.1	1.1	-	1.8	.9	2.7	3.8
Perry	-	-	1.4	1.4	-	.3	.1	.4	1.8
Potter	-	-	-	-	2.3	1.2	39.9	43.4	43.4
Schuylkill	-	-	3.2	3.2	-	14.5	1.0	15.5	18.7
Snyder	-	-	.2	.2	-	2.2	-	2.2	2.4
Somerset	-	0.1	.2	.3	-	1.1	3.1	4.2	4.5
Sullivan	-	.4	-	.4	4.1	11.3	26.0	41.4	41.8
Susquehanna	-	.2	-	.2	2.8	9.3	13.8	25.9	26.1
Tioga	-	-	-	-	5.1	9.9	17.7	32.7	32.7
Union	-	-	.6	.6	.1	.7	.4	1.2	1.8
Venango	-	-	-	-	-	3.7	13.4	17.1	17.1
Warren	-	-	*	*	-	2.8	30.3	33.1	33.1
Wayne	-	-	-	-	.3	1.1	1.9	3.3	3.3
Wyoming	-	-	-	-	3.7	9.3	15.6	28.6	28.6
York	-	-	5.7	5.7	-	3.1	1.6	4.7	10.4
Total	-	11.8	49.5	61.3	27.5	200.2	484.5	712.2	773.5

[a]Counties with no production are omitted.

*Less than 50 cords.

Table 15.-Pulpwood production from roundwood in Delaware, New Jersey, and Maryland, by county and species group, 1986

(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	Total	
DELAWARE									
Kent	-	-	0.1	0.1	-	-	-	-	0.1
Sussex	-		15.7	15.7	-	-	-	-	15.7
Total	-	-	15.8	15.8	-	-	-	-	15.8
NEW JERSEY									
Atlantic	-	-	1.5	1.5	-	-	-	-	1.5
Total	-	-	1.5	1.5	-	-	-	-	1.5

Table 15 (cont'd.)-Pulpwood production from roundwood in Delaware, New Jersey, and Maryland, by county and species group, 1986

(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	Total	
				MARYLAND					
Allegany	-	1.5	5.3	6.8	2.1	18.2	17.8	38.1	44.9
Anne Arundel	-	.2	20.4	20.6	-	1.2	.7	1.9	22.5
Baltimore	-	-	2.4	2.4	-	1.0	.5	1.5	3.9
Calvert	-	.3	1.4	1.7	-	-	.1	.1	1.8
Caroline	-	-	.3	.3	-	-	-	-	.3
Carroll	-	-	1.8	1.8	-	.8	.4	1.2	3.0
Charles	-	.3	7.5	7.8	-	.5	.3	.8	8.6
Dorchester	-	-	10.9	10.9	-	-	-	-	10.9
Frederick	-	-	-	-	-	*	*	*	*
Garrett	-	.3	3.6	3.9	2.6	12.5	11.6	26.7	30.6
Howard	-	-	.2	.2	-	-	-	-	.2
Kent	-	-	.1	-	-	-	-	-	.1
Prince Georges	-	.1	2.2	2.3	-	-	*	*	2.3
St. Marys	-	.2	14.0	14.2	-	.7	.4	1.1	15.3
Somerset	-	-	8.9	8.9	-	-	-	-	8.9
Talbot	-	-	*	*	-	-	-	-	*
Washington	-	-	.6	.6	-	*	.1	.1	.7
Wicomico	-	-	10.6	10.6	-	-	-	-	10.6
Worcester	-	-	5.4	5.4	-	-	-	-	5.4
Total	-	2.9	95.6	98.5	4.7	34.9	31.9	71.5	170.0

[a]Counties with no production are omitted.
*Less than 50 cords.

Table 16.-Pulpwood production from roundwood in West Virginia, by county and species group, 1986

(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	Total	
Berkeley	-	0.8	5.6	6.4	-	0.7	0.8	1.5	7.9
Cabell	-	-	.1	.1	*	.1	*	.1	.2
Calhoun	-	-	*	*	-	-	-	-	-
Fayette	-	-	-	-	.5	2.1	1.6	4.2	4.2
Grant	-	.2	.7	.9	1.6	7.1	4.8	13.5	14.4
Greenbrier	-	-	2.4	2.4	7.3	29.8	22.0	59.1	61.5
Hampshire	-	3.0	13.1	16.1	2.1	9.0	7.2	18.3	34.4
Hardy	-	.5	2.2	2.7	1.1	5.7	5.3	12.1	14.8
Jackson	-	-	3.3	3.3	-	-	*	*	3.3
Kanawha	-	-	.9	.9	-	.9		.9	1.8
Mason	-	.5	4.6	5.1	-	.9	*	.9	6.0
Mineral	-	.5	4.1	4.6	1.1	5.7	3.9	10.7	15.3
Monroe	-	-	1.6	1.6	.9	3.4	2.5	6.8	8.4
Morgan	-	.3	4.0	4.3	-	-	2.2	2.2	6.5
Nicholas	-	-	-	-	.2	.8	.6	1.6	1.6
Ohio	-	-	*	-	-	1.8	2.0	3.8	3.8
Pendleton	0.3	.2	1.8	2.3	1.0	4.1	3.0	8.1	10.4
Pleasants	-	-	.1	.1	-	2.4	1.6	4.0	4.1
Pocahontas	-	*	.9	.9	.5	3.0	2.5	6.0	6.9
Preston	-	.1	.8	.9	-	1.0	1.8	2.8	3.7
Putnam	-	-	.9	.9	-	.9	-	.9	1.8
Randolph	.1	-	.2	.3	.2	4.6	5.0	9.8	10.1
Ritchie	-	-	.9	.9	-	-	*	*	.9
Roane	-	-	.1	.1	-	.2	.1	.3	.4
Summers	-	-	-	-	.1	.6	.5	1.2	1.2
Tucker	-	-	-	-	-	-	*	*	*
Wirt	-	-	.2	.2	-	.4	.4	.8	1.0
Wood	-	.3	1.7	2.0	-	2.1	2.3	4.4	6.4
Total	0.4	6.4	50.2	57.0	16.6	87.3	70.1	174.0	231.0

[a]Counties with no production are omitted.

*Less than 50 cords.

Table 17.-Bark generated from roundwood pulpwood in the Northeast, by state and species group, 1986

(In millions cubic feet)

State[a]	Softwood			Hardwood			All species		
	Used	Unused	Total	Used	Unused	Total	Used	Unused	Total
Kentucky	0.7	-	0.7	3.6	-	3.6	4.3	-	4.3
Maine	20.9	*	20.9	14.0	-	14.0	34.9	*	34.9
Maryland	1.3	-	1.3	2.2	-	2.2	3.5	-	3.5
New Hampshire	.7	-	.7	3.2	-	3.2	3.9	-	3.9
New York	3.1	0.9	4.0	2.9	0.2	3.1	6.0	1.1	7.1
Ohio	.1	-	.1	5.2	-	5.2	5.3		5.3
Pennsylvania	1.3	-	1.3	7.3	.1	7.4	8.6	.1	8.7
Vermont	-	.2	.2	-	-	-	-	.2	.2
Total	28.1	1.1	29.2	38.4	0.3	38.7	66.5	1.4	67.9

[a]States with no pulpmills are omitted.
*Less than 50 cords.

Table 18.-Whole-tree chip production in the Northeast, by state, 1977-86

(In thousand cord equivalents)

State[a]	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Connecticut	-	-	0.1	-	-	-	-	-	-	-
Kentucky	3.2	2.4	-	5.8	3.9	0.2	-	-	-	-
Maine	-	-	-	3.2	-	306.2	355.2	347.7	358.1	342.1
Maryland	5.7	20.0	23.1	21.4	19.8	13.1	15.7	16.7	26.5	19.1
Massachusetts	-	-	-	-	-	1.1	-	-	-	4.5
New Hampshire	75.1	49.5	30.9	32.3	37.4	50.4	38.3	69.0	21.5	42.4
New Jersey	-	-	-	1.4	1.3	7.2	11.2	4.0	1.7	-
New York	18.4	19.4	14.0	13.8	5.8	-	-	-	-	-
Ohio	132.4	195.9	233.4	262.3	249.3	255.8	286.6	275.4	244.9	190.9
Pennsylvania	6.6	71.7	63.6	62.1	98.4	96.5	87.9	93.6	91.5	103.5
Vermont	23.6	17.6	40.3	44.4	33.2	33.9	32.9	35.8	44.7	30.0
West Virginia	9.0	.4	3.4	64.1	36.1	26.7	20.0	18.1	11.5	-
Total	274.0	376.9	408.8	510.8	485.2	791.1	847.8	860.3	800.4	732.5

[a]States with no whole-tree chip production are omitted.

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This annual report contains 1986 information compiled from a canvass of all pulpmills that use pulpwood produced in the 14 Northeastern states. In 1986 total production reached 8,952,400 cords. This was up by 2 percent since 1985. Roundwood production was 6,602,400 cords whereas pulpwood from residues was 2,350,000 cords. Each of these increased from the previous year, by 2 percent and 1 percent, respectively. The receipts of pulpwood at mills in the region were 9,385,300 cords.

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Headquarters of the Northeastern Forest Experiment Station are in Broomall, Pa. Field laboratories are maintained at:

- Amherst, Massachusetts, in cooperation with the University of Massachusetts.
- Berea, Kentucky, in cooperation with Berea College.
- Burlington, Vermont, in cooperation with the University of Vermont.
- Delaware, Ohio.
- Durham, New Hampshire, in cooperation with the University of New Hampshire.
- Hamden, Connecticut, in cooperation with Yale University.
- Morgantown, West Virginia, in cooperation with West Virginia University, Morgantown.
- Orono, Maine, in cooperation with the University of Maine, Orono.
- Parsons, West Virginia.
- Princeton, West Virginia.
- Syracuse, New York, in cooperation with the State University of New York College of Environmental Sciences and Forestry at Syracuse University, Syracuse.
- University Park, Pennsylvania, in cooperation with the Pennsylvania State University.
- Warren, Pennsylvania.

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