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# Use of Indexing to Update U.S. Annual Timber Harvest by State

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## Abstract

This report provides an index method that can be used to update recent estimates of timber harvest by state to a common current year and to make 5-year projections. The Forest Service Forest Inventory and Analysis (FIA) program makes estimates of harvest for each state in differing years. The purpose of this updating method is to bring each state-level estimate up to a common current year. For each state, each of several components of harvest is updated to the current year. Estimate outputs are based on inputs from established models such as Timber Cut (TCUT) and historical wood products production data collected and compiled by the Forest Inventory and Analysis (FIA) program and the U.S. Forest Service Forest Products Laboratory. Because annual harvest data by state are not generally available for each year, the development of this indexing procedure based on national- and state-level primary product production data is needed to update U.S. annual timber harvest by state and region. This procedure is also needed for reporting annual harvest statistics and forecasts to the United Nations Economic Commission for Europe (UNECE) and the Food and Agriculture Organization (FAO). This paper reports the results in the development of historical and projected estimates of timber harvest. This new system of harvest estimation and index development is termed the harvest estimation system.

Keywords: timber harvest index, forest products, FIA, FPL

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### Conversion Factors<sup>a</sup>

Saw logs		
Softwood	0.18018 cubic foot = 1 board foot	
	5.55 board feet = 1 cubic foot	
Hardwood	0.16556 cubic foot = 1 board foot	
	6.04 board feet = 1 cubic foot	
Veneer logs		
Softwood	0.17391 cubic foot = 1 board foot	
	5.75 board feet = 1 cubic foot	
Hardwood	0.15873 cubic foot = 1 board foot	
	6.30 board feet = 1 cubic foot	
Pulpwood <sup>b</sup>		
Softwood	72.5 cubic feet per cord	
Hardwood	76.6 cubic feet per cord	

<sup>a</sup> Conversion factors vary with stem size (d.b.h.), species, and region.

<sup>b</sup> Cubic feet of solid wood per cord.

1 cubic foot = 0.028317 m<sup>3</sup>

1 in. = 0.0254 m

# Use of Indexing to Update United States Annual Timber Harvest by State

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## Introduction

The purpose of this paper is to provide a method to update recent estimates of timber harvest by state to a common current year and make 5-year projections. This approach satisfies the need for a system to estimate annual state-level harvest because we do not have such a system for the United States. Currently, U.S. Forest Service Forest Inventory Analysis (FIA) units conduct state-level surveys, in different years, of businesses that receive roundwood to make products and use this survey information to make state-level harvest estimates (Smith and others 2004). The indexing methods provided in this report will allow for state-level estimates, made in different years, to be updated to a common recent year. Annual estimates of harvest are needed for each state to complement state-level FIA estimates of timber inventory. Such harvest estimates can now be provided by the harvest estimation system (HES) explained in this report.

This indexing method is intended to give estimates of the total volume of wood harvested in the United States to make forest products in the United States and to provide for wood exports (Table 1). The estimate is intended to correspond to “roundwood products harvested from all sources” reported in FIA forest resource reports (Smith and others 2004, table 39) and estimated 5-year projections of harvest based on the most recent in the Resource Planning Act (RPA) Timber Assessment reports (Haynes 2003, table 16).

In this analysis, “timber harvest” refers specifically to the total volume of wood removed from a forest site for the purposes of conversion to products or direct use by consumers from both growing stock and other sources. Growing stock is a classification of timber inventory that includes live trees of commercial species meeting specific standards of vigor and quality. Cull trees are excluded. When associated with volume, only trees 5 in. diameter at breast height (DBH) and larger are included. Other sources (not growing stock) include salvageable dead trees, rough and rotten trees, trees of non-commercial species, trees less than 5 in. DBH, tops, and roundwood harvested from non-forest land (for example, fence rows).

Timber harvest estimates include saw and veneer logs for domestic processing; logs of all types for export; logs for conversion to miscellaneous products (for example, posts, poles, pilings, shingles); pulpwood and logs for use in pulp- and reconstituted panels; and fuelwood. Estimates do

not include timber cut but not removed from the site for use, timber excluded from inventory accounting because of a change in land-use designation, or logging residues. Harvest estimates are for volumes harvested arising from any forest land, not just timberland (Adams and others 2006). Forest land is at least 10% stocked by forest trees of any size, including land that formerly had such tree cover and that will be naturally or artificially regenerated, and includes transition zones and afforested areas. Timberland is defined as forest land that is producing or capable of producing crops of industrial wood in excess of 20 ft<sup>3</sup> per acre per year and not withdrawn from timber use by statute or administrative regulation.

Methods are presented separately to update state-level estimates of harvest of sawlogs, including exported logs; veneer logs, including exported logs; wood for composite panel products; pulpwood for pulp production and export; fuelwood; and miscellaneous products.

## Methods

The objective of our methods is to update state-level estimates of harvest for each of 12 timber products shown in Table 1 and to provide 5-year projections. Updated methods are explained separately for each of four categories of timber products shown in Table 1.

The state-level estimates of annual timber product output needing updating are obtained from the most recent FIA state-level timber product output surveys. For the purpose of this paper and later estimates, we begin with state-level timber product output (TPO) estimates from Johnson (2001). The base year of TPO data input into HES is noted in table 1.5 of Johnson (2001). In HES, some state timber product output volumes were estimated for 1996 when survey data were not available. The selection of 1996 as the base year was driven by the existence of comprehensive state-level data required to establish the base year.

### Updating Estimates of Timber Harvested for Solidwood Products

Harvest of each of the 12 timber products in Table 1 is updated for a given state by multiplying the recent harvest level for a given year by a regional harvest growth rate for year  $i$  to bring the harvest level estimate up to current year  $t$ .

A regional harvest index is developed for each of eight regions. These regions are the same as the RPA Timber

Assessment regions employed in the Forest Service’s 10-year Renewable Resource Assessments with one exception (Table 2) (Haynes 2003). The single difference is in forming the Pacific Northwest region where eastern Washington and Oregon were combined with western Washington and Oregon.

$$H_{PSi} = (\text{HINDEX}_{PRt} / \text{HINDEX}_{PRi}) \times H_{PSi} \quad (1)$$

where

$P$	is	the timber product (products 1 to 12 in Table 1)
$R$		region where state is located
$S$		state
$i$		year for which harvest estimate is available
$t$		year for updated estimate of harvest
$H_{PSi}$		estimated harvest of timber product $P$ in state $S$ for year $i$ in cubic feet
$H_{PSi}$		estimated harvest of timber product $P$ in state $S$ for year $t$ in cubic feet
$\text{HINDEX}_{PRi}$		value of harvest index for timber product $P$ in region $R$ for year $i$ (for base year 1996, the index equals 100)
$\text{HINDEX}_{PRt}$		value of harvest index for timber product $P$ in region $R$ for year $t$ (for base year 1996, the index equals 100)

The harvest index for a given year, product, and region is developed by making actual estimates of harvest for each timber product and region, then converting these harvest estimates to an index where 1996 = 100. The estimates of timber product harvest by region are made by, first, estimating the wood harvest needed to make each of one or more primary products (e.g., sawlogs needed for lumber) and second, adding on the amount of the timber product that is exported (if needed).

$$\text{HINDEX}_{PRt} = H_{\text{est}PRt} / H_{\text{est}PR1996} \quad (2)$$

$$H_{\text{est}PRt} = \text{PP}_{RPt} \times \text{CF}_{RPt} + \text{Export}_{PRt} \quad (3)$$

where

$H_{\text{est}PRt}$	is	estimated harvest of timber product $P$ in region $R$ in year $t$ in cubic feet
$\text{PP}_{RPt}$		a vector of the amounts of primary products made in region $R$ from timber product $P$ in year $t$ (The primary products made from each timber product are shown in Table 1. Amount units vary by primary product, e.g., thousand board feet for lumber).
$\text{CF}_{RPt}$		a vector of factors to convert amount of primary product produced into the amount of timber product input required (Units are cubic feet timber product input per unit of primary product output.)

$\text{Export}_{PRt}$  amount of timber product  $P$  exported from region  $R$  in year  $t$  in cubic feet

The indexes allow updating of state-level timber product harvest to a current year (and each individual year) because estimates of primary product production are available each year and for more recent years than the FIA state-level TPO estimates.

In making and using the indexes (Tables 3–18), we assumed that the state-level estimates of timber products harvest (based on FIA surveys) that are being updated include amounts of exported timber products. Currently, in excess of 10 million ft<sup>3</sup> of logs are shipped internationally each year and must be accounted for in the estimation. Otherwise, domestic harvest would be underestimated if the exported amount is not accounted for. National-level export estimates are assigned to regions using regional proportions developed from U.S. Department of Commerce trade data (1958–2002).

The Timber Cut (TCUT) spreadsheet model (Adams and others 2006) is used as a basis for estimating timber product harvest by region and year. Our model, the HES, uses the TCUT framework and the following levels of spreadsheets to create the regional timber product harvest indexes and state-level estimates.

#### First Level

This level contains annual national primary product production data. The primary products are noted in Table 1. Data are updated to a current year using Forest Service and industry summary reports based on government and industry surveys. These data are both regional and national (Howard 2007).

#### Second Level

This level contains historical regional TPO data as well as annual national primary product production data from the first level. The national primary product data are disaggregated to the eight regions using historical regional proportions for the primary products noted in Table 1 when regional TPO data are unavailable.

#### Third Level

Primary product production amounts by region are converted to the amount of timber product harvest required to make them using conversion factors from the TCUT model (Adams and others 2006) and updated to the current year. It is assumed that products produced in a region use wood harvested in the region and that the amount of imported timber products used to make primary products is small. Estimates of wood imports are included at this level.

#### Fourth Level

Estimates of regional timber product harvest are displayed in regional tables, with each regional table containing columns for each timber product. Regional harvest amount

estimates are shown from 1950 to the current year. Regional growth rates of harvest are computed year to year for each timber product. Interpolation is done to estimate amounts for years when data is missing.

#### Fifth Level

Estimates of timber harvest are shown for each state by year, where the regional timber harvest growth rate for each TPO product (such as sawlogs) has been used to update state-level estimates for each TPO product category to the current year. See the resulting estimate of harvest by state in Table 19. This approach employs an implicit weighting scheme because it uses that state's roundwood harvest for a particular TPO product, multiplied by the particular TPO product's annual regional growth rate, positive or negative, in the region where the state is located for that particular product. As a result, each state receives the proportional harvest amount the next year depending on that state's prior year harvest amount. The state-level estimate is computed only when state-level TPO data are unavailable. When state-level TPO data are available, the system uses the known harvest volume. All known state-level TPO data are input in this fifth level.

#### Sixth Level

Indexes are displayed for each timber product and region, where estimates of timber product harvest by region and year are converted to an index where 1996 = 100. The state and regional indexes are the same for any state and the associated region because the regional index in 1996, the base year, is computed from the aggregation of state-level harvest for each state in the region containing those states.

Figure 1 depicts the hierarchy of the files input into the HES. Each level depends on data from files in the level below it to carry out its calculations. The results of the calculations are handed off to the file(s) in the level above it.

### Updating Special Product Harvest

Pulpwood and fuelwood are the only two products without a distinct primary and secondary product. Pulpwood is input into HES as mill receipts, then updated to the current year. Timber Products Output fuelwood estimates are derived from U.S. Department of Energy (DOE) estimates that use wood use per heating degree day ratios to interpolate between DOE survey years. In both cases, regional harvest indexes are developed and updated.

### Application of Methods

State-level estimates of harvest are derived in the selected year for each of the TPO product categories shown in Table 1. The method used to derive miscellaneous products harvest indexes are the same as for the products in the solid wood category, although miscellaneous is listed as a separate product. This is because miscellaneous products have a distinct primary and secondary product, unlike fuelwood or pulpwood.

### Example of Updating Timber Product Harvest for a State

The  $HINDEX_{PRt}$  values are determined by taking the state harvest volume for each TPO product in a given year, dividing by the 1996 (base year) harvest level, then multiplying by 100.

$$HINDEX_{PRt} = (HV_{PRt}/BY_{PRt}) \times 100 \quad (4)$$

where

$HV_{PRt}$  is the harvest volume for TPO product  $P$  in region  $R$  in year  $t = 2005$

$BY_{PRt}$  the harvest volume for TPO product  $P$  in region  $R$  in year  $t = 1996$

Recall from Equation (1) that

$$H_{PS2005} = (HINDEX_{2005}/HINDEX_{1996}) \times H_{PS1996}$$

For softwood sawlogs in the Northeast, we have

$$HINDEX_{PR2005} = 131.5$$

(see Table 7 for Northeast/softwood)

$$HINDEX_{PR1996} = 100$$

For Connecticut softwood sawlogs, we have

$$\begin{aligned} H_{\text{sawlogs\_ct\_2005}} &= (HINDEX_{\text{sawlogs\_NE\_2005}}/HINDEX_{\text{sL\_N\_1996}}) \\ &\quad \times H_{\text{sawlogs\_CT\_1996}} \\ &= (131.5/100) \times 3302 = 4343 \end{aligned}$$

The index of 131.5 when multiplied by the TPO estimate of softwood sawlog harvest in 1996 will yield the softwood sawlog harvest estimate for 2005, as shown in Tables 20 and 21.

### Updating Timber Product Harvest for all States—Totals Shown by Region

The regional index series and the state-level index series are the same for any TPO product, region, and year.

For softwood sawlogs in the Northeast in 2005 (Table 7),

$$HINDEX_{PRt} = 131.5$$

Using Equation (4) to estimate sawlog harvest for the Northeast in 2005, we have

$$\begin{aligned} HV_{PR2005} &= (HINDEX_{PR2005} \times BY_{\text{pneast1996}})/100 \\ &= (131.5 \times 259,284)/100 = 341,043 \end{aligned}$$

The index of 131.5 when multiplied by the regional volume in the base year (Table 21a for 1996) yields the harvest estimate in 2005 for softwood sawlogs shown in Table 21b.

Once the regional harvest index is derived by TPO product, region, and year, that index can be used to make TPO estimates of state harvest in a given year and move it into the future by multiplying by the regional index for that future year. Harvest indexes for each region and TPO product are shown in Tables 3–18. These indexes were used to take 1996 state-level TPO estimates from Johnson (2001) and move them to 2005. Results for state and national estimates for 2005 are shown in Tables 19 and 22.

## Projections

The HES model has been used to project national harvest by TPO product (Table 23). This is done using the projected harvest growth rates from Haynes (2003, table 16) to project growth in TPO product harvest in HES starting in 2005. When comparing the projections from HES to existing RPA harvest projections, the projections from HES tracks existing RPA timber harvest projections over the 5-year projection period consistently varying by less than 5% of U.S. harvest in year 2010.

## Index Verification

The question of how well the estimated index tracks actual harvest in a state or region can best be judged through verification or the comparison of actual harvest in a particular state or region to the estimated harvest based generated by the index over time. The Southern region, which includes the Southeast and South Central regions of the United States, produces roughly 65% of the Nation's roundwood harvest. The comparison of actual TPO harvest and the estimated harvest based on the index for Alabama in the South Central region are contained in Tables 24–26. The comparison of actual and predicted values for the year 2005 shows that the HES system estimates for timber product output are within an average of 6% of actual value by product category. The comparison of actual TPO for Georgia in the Southeast region to estimates of TPO produced by HES again shows that estimates are within an average of 6% of actual TPO. In the North Central region, actual compared with predicted harvest values for 2003 are within an average of 2% by product category.

## Conclusions

This work to produce annual TPO harvest indexes was accomplished by merging three separate harvest estimation systems or approaches. The Forest Products Laboratory system for estimating roundwood equivalent of primary product production, the Adams and Haynes TCUT system, and the historical TPO survey approach. Merging these three systems resulted in a new six-level harvest estimation system, HES. The output of the HES system is harvest indexes (Tables 3–18). These indexes can be used to update state-level TPO/FIA data to a recent year. The methods and indexes provide are intended to be used to

update timber product output estimates when TPO/FIA survey results are not available.

The basic approach to state harvest estimation is to use national data of product output volumes compiled from government agencies and industry trade association reports, along with available FIA regional or state harvest data and convert them to their regional roundwood or logs equivalents, then apportion these regional volumes to states using that state roundwood production and regional growth rates.

This effort helps accomplish the goal set forward in the 1998 Farm Bill (USDA 2007) to develop an annualized forest inventory so users can have current data for their planning and decision making processes. The production of harvest indexes used to estimate future harvest helps accomplish RPA national timber assessment objectives. A total of 15 product categories enter into the computation and estimation of harvest (Table 21). They are equated by the use of product recovery rates, which differ for each of the 15 solid wood product classes. The product recovery rates also change over time to reflect the change in the timber resource characteristics. The outputs for this work will also be displayed in table form equivalent to historical TPO outputs (Table 22). The model is also capable of projecting future harvest totals out to the year 2010, as shown in Table 23.

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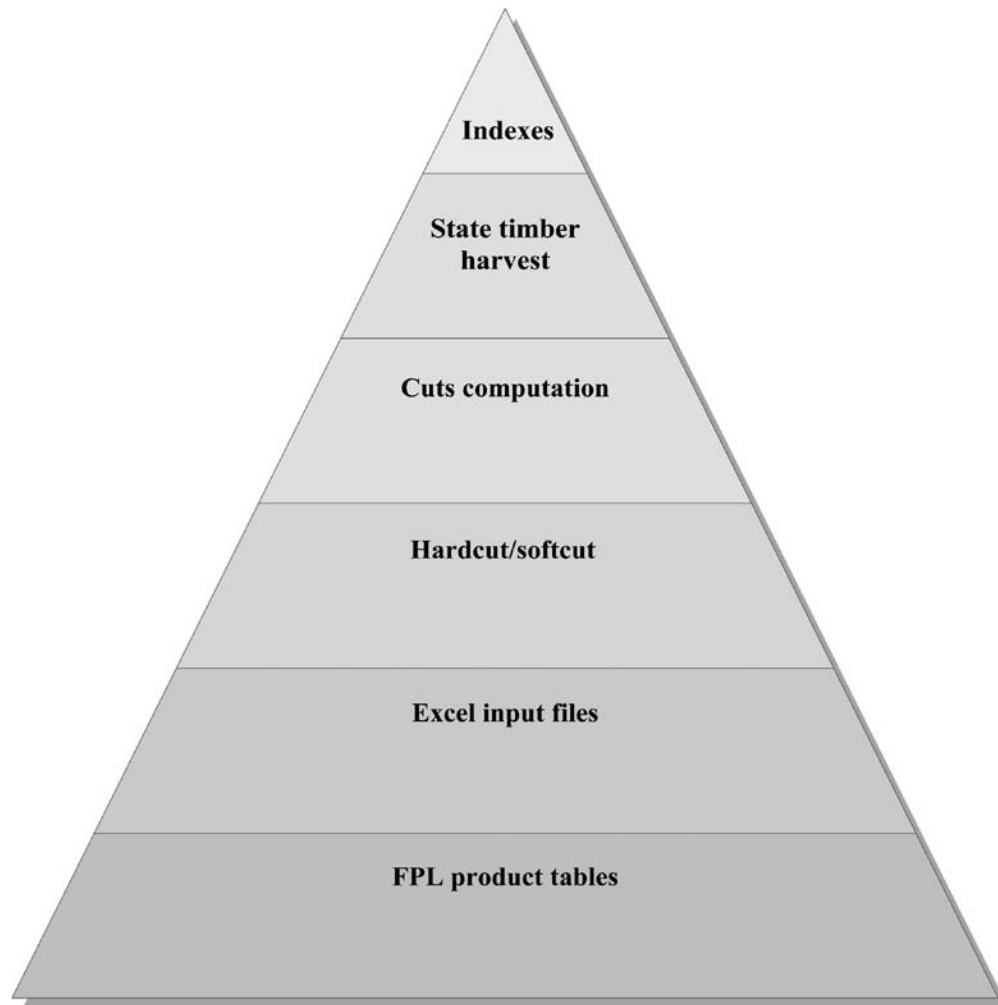
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**Figure 1. Hierarchy of files used in the harvest estimation system. Each level depends on data from files in the level below it to carry out its calculations. The results of the calculations are handed off to the file(s) in the level above it. (Excel is a trademark of Microsoft Corp., Redmond, Washington.)**

**Table 1—Timber products by category with primary products produced and exports included<sup>a</sup>**

Timber product category	Timber product	Primary products	Exports
Timber for solidwood products	1. Hardwood sawlogs	Hardwood lumber pallets	Hardwood logs
	2. Softwood sawlogs	Softwood lumber	Softwood logs
	3. Hardwood veneer logs	Hardwood veneer Hardwood plywood	Hardwood logs
	4. Softwood veneer logs	Softwood plywood Laminated veneer lumber	Softwood logs
	5. Hardwood used for composite panels	Oriented strandboard Particleboard	
	6. Softwood use for composite panels	Hardboard Medium-density fiberboard Insulating board	
Pulpwood	7. Hardwood pulpwood	Hard- and softwood pulpwood	Hardwood pulpwood
	8. Softwood pulpwood		Softwood pulpwood
Miscellaneous products	9. Hardwood to make miscellaneous products	Post, poles, and pilings	
	10. Softwood to make miscellaneous products		
Fuelwood	11. Hardwood fuelwood	Hard- and softwood fuelwood	
	12. Softwood fuelwood		

<sup>a</sup> Primary products are made directly from the timber product, and exports are included in timber product.

**Table 2—Timber harvest regions**

Area	States
Pacific Northwest	Washington, Oregon
Pacific Southwest	California
Rocky Mountain South	Arizona, New Mexico, Nevada, Utah, Colorado, Wyoming
Rocky Mountain North	Idaho, Montana
North Central	North Dakota, South Dakota, Nebraska, Kansas, Minnesota, Iowa, Missouri, Wisconsin, Illinois, Michigan, Indiana, Ohio
South Central	Texas, Oklahoma, Arkansas, Louisiana, Alabama, Mississippi, Tennessee, Kentucky
Southeast	Florida, Georgia, South Carolina, North Carolina, Virginia
Northeast	West Virginia, Pennsylvania, New York, Maryland, Delaware, New Jersey, Connecticut, Rhode Island, Massachusetts, New Hampshire, Vermont, Maine



**Table 3—Softwood harvest indexes (1996 = 100), Pacific Northwest**

Year	Sawlogs	Veneer logs	Pulpwood	Fuelwood	Misc. products
1965	79.70	113.68	—	9.68	113.41
1966	77.24	110.03	—	9.83	125.01
1967	76.41	107.49	—	10.22	121.29
1968	81.68	130.52	—	10.67	126.11
1969	76.73	116.43	—	10.83	163.57
1970	76.37	121.30	—	12.95	185.94
1971	79.19	132.65	—	12.13	171.52
1972	88.55	157.09	—	12.28	149.34
1973	90.06	159.96	—	11.47	141.63
1974	79.91	136.62	—	12.40	123.78
1975	78.46	134.97	—	11.69	111.50
1976	86.00	166.59	—	11.24	109.66
1977	90.17	164.39	—	10.78	106.79
1978	95.34	175.76	—	28.39	103.92
1979	95.92	175.28	78.59	62.45	103.08
1980	78.89	140.93	66.06	124.75	100.16
1981	74.06	124.99	46.67	137.45	97.23
1982	73.94	125.05	46.85	155.26	95.38
1983	102.40	162.85	42.63	157.56	92.86
1984	106.16	163.81	52.14	180.07	90.24
1985	106.31	167.60	79.58	180.38	89.08
1986	120.71	186.79	85.78	194.53	86.27
1987	134.96	196.34	97.56	161.25	98.50
1988	135.35	193.68	95.24	159.70	99.78
1989	131.93	165.84	144.82	171.09	114.53
1990	116.68	145.83	126.60	174.15	120.43
1991	105.51	123.20	118.49	179.53	122.19
1992	103.28	116.80	104.67	146.58	115.62
1993	94.29	104.92	98.99	127.24	106.74
1994	95.24	101.31	103.92	114.67	106.16
1995	95.52	101.54	118.84	112.25	107.38
1996	100.00	100.00	100.00	100.00	100.00
1997	100.19	85.65	102.04	87.33	96.01
1998	98.97	83.04	120.23	96.21	88.30
1999	102.60	85.29	100.22	94.65	85.84
2000	102.53	87.74	101.63	93.33	85.98
2001	104.37	80.53	78.73	92.13	146.34
2002	118.42	68.56	60.60	109.15	24.50
2003	120.59	89.60	48.36	130.51	28.76
2004	131.31	97.66	53.29	134.75	31.43
2005	131.95	95.52	54.49	135.17	30.96
2006	131.95	95.52	54.49	135.17	30.96
2007	132.41	91.85	55.00	130.50	31.25
2008	132.68	88.13	55.11	125.08	31.61
2009	132.96	84.33	54.39	119.65	32.00
2010	132.56	80.15	53.49	113.86	32.46

Source: Harvest estimation system (HES).

**Table 4—Hardwood harvest indexes (1996 = 100),  
Pacific Northwest**

Year	Sawlogs	Veneer logs	Pulpwood	Fuelwood
1965	10.43	20.39	5.02	1.84
1966	14.46	19.13	5.16	2.17
1967	13.99	23.18	4.34	2.58
1968	14.85	25.44	8.02	3.03
1969	12.07	22.06	8.47	3.39
1970	9.83	23.03	9.06	4.56
1971	11.32	28.95	7.73	4.48
1972	11.00	30.68	9.04	4.62
1973	12.43	27.67	14.35	4.39
1974	14.99	22.61	21.84	4.86
1975	12.10	16.19	18.15	4.66
1976	15.74	16.79	27.61	4.57
1977	15.78	19.09	24.37	-1.43
1978	16.94	18.03	20.95	5.94
1979	17.65	17.01	24.67	17.43
1980	27.32	17.82	26.02	33.65
1981	26.17	17.72	24.71	49.88
1982	36.42	32.31	23.44	112.90
1983	27.41	33.86	17.08	127.12
1984	27.89	35.10	33.80	161.58
1985	27.62	31.58	35.12	173.26
1986	37.63	33.14	35.91	199.76
1987	41.00	37.57	38.66	167.52
1988	47.85	40.47	44.66	161.68
1989	55.18	61.10	35.26	152.29
1990	64.27	79.19	96.56	150.62
1991	72.74	101.34	125.08	192.48
1992	74.10	88.30	132.09	154.62
1993	97.88	86.39	108.19	131.59
1994	97.25	104.36	119.51	115.94
1995	97.11	103.25	116.34	115.38
1996	100.00	100.00	100.00	100.00
1997	102.54	106.03	96.30	100.34
1998	89.70	111.73	108.01	104.42
1999	100.58	115.14	103.00	115.07
2000	104.79	133.09	93.82	125.93
2001	101.17	124.77	77.65	136.91
2002	101.38	126.16	76.88	138.76
2003	92.76	124.66	64.35	138.30
2004	100.91	126.33	74.00	140.58
2005	97.83	123.40	75.20	141.49
2006	97.83	123.40	75.20	141.49
2007	102.82	129.63	78.27	141.24
2008	108.23	136.25	79.93	139.67
2009	114.21	144.17	81.55	137.64
2010	119.47	152.63	83.21	134.76

Source: Harvest estimation system (HES).

**Table 5—Softwood harvest indexes (1996 = 100), Southeast**

Year	Sawlogs	Veneer logs	Pulpwood	Composites	Fuelwood	Misc. products
1965	40.57	0.00	72.21	—	121.46	98.50
1966	40.53	0.75	73.67	—	119.69	93.57
1967	39.66	2.63	72.24	—	120.60	80.39
1968	39.94	8.22	73.56	—	122.09	72.35
1969	38.72	11.12	78.75	—	120.19	75.50
1970	39.71	16.48	83.39	—	138.05	71.02
1971	43.78	20.42	75.94	—	138.09	69.14
1972	44.36	28.76	78.55	—	150.66	63.13
1973	44.05	32.06	80.86	—	149.63	63.44
1974	41.18	29.30	81.61	—	175.28	58.21
1975	41.31	31.85	71.49	—	175.21	55.27
1976	45.34	41.20	73.88	—	178.90	58.00
1977	49.07	48.70	76.67	—	149.73	59.73
1978	51.54	52.82	78.48	—	233.80	61.46
1979	55.07	53.09	81.15	—	329.31	64.61
1980	52.65	47.79	84.13	—	433.83	66.37
1981	53.72	65.91	84.70	—	391.73	68.14
1982	54.42	70.03	83.88	—	354.06	70.81
1983	68.80	85.20	84.75	—	292.80	72.98
1984	70.85	89.59	87.62	—	252.27	75.12
1985	71.57	89.41	84.35	—	193.17	78.74
1986	75.81	86.97	89.78	10.57	142.19	80.84
1987	80.48	90.41	96.16	14.25	123.29	108.67
1988	83.92	91.60	92.95	14.39	122.10	122.28
1989	83.34	83.50	91.19	21.20	130.81	157.09
1990	86.36	88.08	99.89	28.13	133.14	179.16
1991	79.67	73.83	103.94	34.99	207.36	194.09
1992	96.45	93.46	105.43	33.79	168.86	167.88
1993	93.64	93.18	101.55	55.02	146.12	142.35
1994	95.55	89.68	102.71	68.75	131.23	128.22
1995	94.70	107.40	108.05	71.36	111.95	117.30
1996	100.00	100.00	100.00	100.00	100.00	100.00
1997	105.40	98.10	105.60	109.88	86.91	99.98
1998	106.03	96.14	104.94	111.10	95.29	95.64
1999	108.05	94.41	94.58	110.41	93.28	96.60
2000	103.83	92.71	97.65	123.76	91.50	100.42
2001	103.73	85.11	96.93	122.40	89.85	177.22
2002	123.33	88.26	96.16	126.50	82.75	175.56
2003	92.40	91.63	95.44	223.54	49.79	128.04
2004	98.65	91.39	97.10	234.69	50.61	128.04
2005	102.50	89.22	92.12	245.71	50.94	128.04
2006	102.70	89.22	90.92	245.71	50.94	128.04
2007	105.80	88.88	91.37	290.78	47.65	131.19
2008	109.00	88.33	91.71	336.04	44.77	134.38
2009	112.38	87.78	92.22	388.47	42.54	137.53
2010	115.76	87.31	92.52	434.98	40.99	140.74

Source: Harvest estimation system (HES).

**Table 6—Hardwood harvest indexes (1996 = 100), Southeast**

Year	Sawlogs	Veneer logs	Pulpwood	Composites	Fuelwood	Misc. products
1965	77.09	137.29	27.52	0.91	26.48	31.97
1966	82.20	142.80	29.17	0.92	27.86	32.39
1967	78.74	133.27	30.90	0.92	30.01	30.28
1968	74.00	109.10	34.42	1.40	32.43	31.77
1969	71.11	138.99	38.65	2.58	33.91	39.31
1970	71.19	122.53	38.30	2.96	42.18	45.63
1971	70.03	133.71	36.92	4.51	43.79	38.13
1972	70.25	141.74	40.03	7.10	47.91	30.15
1973	74.87	127.84	42.95	8.24	47.69	25.28
1974	69.27	104.39	41.63	6.85	56.01	19.55
1975	59.60	93.65	35.81	5.73	56.09	15.15
1976	65.98	68.61	43.47	9.38	57.36	11.68
1977	66.83	122.23	46.57	11.42	68.30	15.33
1978	72.83	120.80	50.44	11.53	86.03	19.41
1979	84.80	111.16	46.55	11.19	95.19	22.91
1980	81.73	98.50	48.60	10.45	102.83	27.72
1981	69.16	85.47	54.11	10.40	104.10	32.97
1982	63.09	98.07	53.88	9.10	134.98	37.85
1983	84.94	100.91	61.01	12.88	122.19	43.51
1984	91.41	109.96	62.05	—	121.05	49.61
1985	90.48	99.85	62.60	—	107.99	54.64
1986	94.49	103.34	69.58	10.77	101.59	61.49
1987	96.88	114.89	67.05	14.81	87.82	87.11
1988	102.26	118.40	72.68	17.31	88.43	134.71
1989	102.78	97.75	70.42	25.79	86.75	190.15
1990	97.68	76.91	73.04	30.66	89.81	229.65
1991	87.19	62.67	78.26	34.60	123.68	259.13
1992	90.44	57.62	81.74	33.13	107.59	253.99
1993	94.40	79.81	95.81	56.93	100.06	227.94
1994	96.61	100.96	94.66	71.40	96.76	157.12
1995	99.04	103.14	111.30	69.89	104.84	130.45
1996	100.00	100.00	100.00	100.00	100.00	100.00
1997	101.93	105.40	99.83	110.31	85.20	102.79
1998	105.38	110.49	92.60	111.77	76.28	100.83
1999	115.03	113.62	93.07	110.91	73.04	104.21
2000	112.28	129.52	92.95	124.79	69.99	110.64
2001	110.29	120.57	97.13	123.93	67.03	39.24
2002	109.34	120.87	93.14	127.69	60.13	39.61
2003	101.60	86.53	72.32	67.44	52.77	50.82
2004	109.52	86.90	75.33	70.73	53.64	50.82
2005	107.60	86.02	76.18	74.16	53.99	50.82
2006	107.60	86.02	75.08	74.16	53.99	50.82
2007	108.65	86.09	75.78	97.65	52.24	55.32
2008	109.43	85.86	76.47	117.19	50.49	60.15
2009	110.29	86.00	77.16	140.40	48.99	65.38
2010	111.00	86.02	77.55	158.45	47.60	70.99

Source: Harvest estimation system (HES).

**Table 7—Softwood harvest indexes (1996 = 100), Northeast**

Year	Sawlogs	Veneer	Pulpwood	Composites	Fuelwood	Misc. products
1965	32.60	—	66.30	—	—	172.16
1966	32.84	—	71.03	—	—	174.30
1967	35.38	—	84.23	—	—	158.48
1968	32.79	—	91.89	—	—	153.31
1969	41.79	—	90.70	—	—	179.54
1970	42.13	—	100.24	—	—	188.29
1971	41.80	—	93.22	—	—	169.34
1972	47.23	—	86.47	—	—	143.87
1973	50.46	—	100.67	—	—	132.06
1974	49.67	—	104.69	—	—	111.97
1975	46.29	—	96.78	—	—	97.26
1976	53.39	—	103.92	—	—	91.07
1977	51.14	—	101.89	—	—	93.94
1978	60.09	—	106.26	—	—	96.81
1979	63.59	—	110.28	—	15.74	101.93
1980	54.91	—	119.05	—	71.57	104.86
1981	51.85	—	131.78	—	94.65	107.79
1982	56.88	—	117.35	—	123.69	112.15
1983	67.95	—	113.31	—	137.84	115.74
1984	68.16	—	95.66	—	173.51	119.26
1985	69.55	—	115.31	—	162.76	125.15
1986	71.85	—	113.24	—	184.38	128.61
1987	78.18	—	107.63	—	154.41	144.88
1988	82.82	—	111.94	—	152.92	145.29
1989	98.24	—	112.53	—	163.78	164.78
1990	95.66	—	94.82	58.69	166.70	171.62
1991	88.82	—	109.39	57.68	191.41	172.67
1992	95.40	—	105.95	65.41	157.49	152.19
1993	86.73	—	114.15	66.87	137.95	131.59
1994	90.82	102.92	111.62	69.15	125.58	121.49
1995	101.70	107.03	99.79	70.75	108.42	114.28
1996	100.00	100.00	100.00	100.00	100.00	100.00
1997	113.20	108.91	100.67	117.02	88.44	95.69
1998	103.92	92.40	95.68	128.96	98.70	87.70
1999	114.41	97.43	88.73	134.34	98.38	84.96
2000	124.94	106.88	85.06	137.04	98.29	84.80
2001	115.07	112.06	73.59	127.90	98.33	143.82
2002	123.47	104.38	58.61	138.21	92.29	142.47
2003	125.45	100.47	53.48	134.76	91.99	89.11
2004	129.90	97.19	61.76	144.42	93.50	89.11
2005	131.53	92.33	62.46	148.36	94.11	89.11
2006	131.53	92.33	62.46	148.36	94.11	89.11
2007	135.25	91.77	60.80	184.61	92.66	88.94
2008	139.22	91.41	59.60	229.85	90.34	88.64
2009	143.37	92.69	57.94	286.32	87.74	88.15
2010	147.62	90.18	56.29	354.68	84.61	87.54

Source: Harvest estimation system (HES).

**Table 8—Hardwood harvest indexes (1996 = 100), Northeast**

Year	Sawlogs	Veneer logs	Pulpwood	Composites	Fuelwood	Misc. products
1965	45.25	130.27	30.97	—	13.08	16.99
1966	47.00	126.82	34.58	—	12.15	16.53
1967	46.49	105.14	36.37	—	11.44	14.94
1968	45.02	119.74	38.19	—	10.74	15.03
1969	45.99	109.83	41.48	—	9.76	17.61
1970	42.61	96.65	45.28	—	9.95	19.49
1971	43.41	98.82	42.48	—	10.08	18.02
1972	47.42	106.01	40.73	—	10.76	15.69
1973	49.36	96.02	52.61	—	10.51	14.95
1974	46.64	78.61	54.56	—	12.05	13.03
1975	42.65	63.61	46.91	—	11.87	11.68
1976	48.25	70.35	46.64	—	11.95	10.80
1977	50.02	63.20	48.72	—	20.74	11.12
1978	51.55	67.45	56.63	—	37.93	11.37
1979	56.46	63.37	58.28	—	54.46	11.20
1980	56.09	56.27	61.08	—	74.12	11.33
1981	47.56	54.85	65.10	—	90.85	11.39
1982	58.12	95.42	63.22	—	159.70	11.21
1983	59.32	119.69	66.87	11.00	166.38	11.08
1984	67.84	109.08	59.09	16.38	195.70	10.90
1985	61.67	97.53	87.21	23.93	199.68	10.45
1986	80.49	102.09	93.21	23.84	217.56	10.18
1987	82.75	112.46	86.89	23.89	182.26	9.43
1988	86.04	114.51	89.48	23.46	178.92	9.51
1989	88.52	93.27	93.21	25.27	170.79	9.41
1990	91.60	74.28	85.06	29.28	172.20	8.64
1991	87.70	60.88	85.86	25.08	227.24	7.66
1992	88.88	56.37	98.26	42.67	179.86	52.33
1993	95.36	79.00	101.07	44.71	150.19	91.50
1994	94.82	101.15	104.90	47.17	123.79	78.28
1995	102.91	103.57	107.34	58.81	116.15	95.51
1996	100.00	100.00	100.00	100.00	100.00	100.00
1997	105.21	106.18	107.48	113.54	98.35	96.37
1998	108.90	111.35	108.47	119.52	100.73	88.96
1999	110.95	115.32	101.46	127.95	109.55	86.81
2000	113.08	135.21	99.95	128.70	118.58	87.29
2001	107.39	127.20	89.42	128.77	127.74	29.40
2002	107.18	129.38	79.58	128.28	128.43	29.68
2003	98.17	127.97	76.47	129.45	128.01	92.41
2004	106.80	129.70	78.59	135.85	130.12	92.41
2005	102.63	125.58	80.54	142.12	130.97	92.41
2006	102.63	125.58	80.54	142.12	130.97	92.41
2007	104.88	125.01	80.91	155.41	129.19	101.58
2008	106.71	124.95	81.77	168.36	126.51	112.17
2009	109.12	125.53	81.53	180.68	123.67	124.58
2010	110.58	125.90	81.05	194.51	120.27	139.10

Source: Harvest estimation system (HES).

**Table 9—Softwood harvest indexes (1996 = 100), North Central**

Year	Sawlogs	Veneer	Pulpwood	Composites	Fuelwood	Misc. products
1965	54.55	488.20	63.15	1.27	0.60	154.03
1966	55.64	488.20	73.13	1.54	0.57	147.15
1967	57.42	488.20	62.47	1.94	0.54	127.09
1968	55.43	488.20	56.30	2.24	0.52	115.19
1969	66.01	488.20	61.38	5.05	0.49	121.67
1970	67.98	488.20	67.17	4.44	0.52	115.88
1971	65.55	330.09	61.93	4.47	0.50	121.54
1972	70.56	165.05	57.72	6.65	0.52	117.42
1973	78.84	165.05	54.86	7.62	0.50	125.49
1974	76.70	165.05	63.62	6.83	0.55	120.46
1975	75.13	165.05	59.71	5.43	0.53	119.50
1976	74.31	165.05	67.97	6.80	0.53	131.66
1977	85.61	165.05	63.52	8.22	0.65	136.50
1978	96.51	165.05	75.17	11.37	6.04	141.34
1979	95.37	165.05	79.11	10.68	22.92	149.51
1980	77.60	165.05	74.27	10.20	64.22	154.46
1981	59.65	160.24	76.85	17.70	77.97	159.41
1982	50.47	80.12	75.77	18.97	95.68	166.49
1983	65.04	80.12	65.80	38.23	102.71	172.42
1984	63.20	80.12	59.12	42.29	124.62	178.26
1985	73.92	80.12	65.81	47.65	129.91	187.68
1986	95.76	80.12	77.22	51.21	145.84	193.46
1987	108.69	80.12	74.52	50.74	120.10	185.62
1988	103.02	80.12	86.14	46.24	118.94	161.40
1989	97.65	80.12	87.68	34.89	127.43	150.55
1990	94.17	101.29	76.51	96.67	129.70	129.53
1991	88.09	102.94	83.88	99.11	126.78	105.80
1992	94.11	87.90	93.01	108.68	102.51	103.82
1993	94.30	83.16	103.06	108.19	101.71	98.73
1994	97.19	102.29	106.01	109.74	102.70	101.07
1995	104.53	104.70	96.21	102.47	114.84	105.18
1996	100.00	100.00	100.00	100.00	100.00	100.00
1997	103.10	97.90	99.21	94.50	85.69	96.95
1998	109.91	0.00	92.06	92.06	92.55	90.03
1999	114.85	0.00	78.18	95.83	89.19	88.38
2000	113.13	0.00	87.07	95.20	86.06	89.40
2001	126.93	0.00	91.32	89.50	83.05	153.65
2002	154.98	0.00	83.13	96.18	75.10	152.21
2003	156.29	0.00	89.33	92.61	74.85	95.20
2004	166.43	0.00	91.50	98.35	76.09	95.20
2005	171.62	0.00	93.28	99.18	76.58	95.20
2006	171.62	0.00	93.28	99.18	76.58	95.20
2007	179.02	0.00	94.55	101.39	73.51	93.68
2008	187.31	0.00	96.36	103.33	69.87	91.97
2009	195.18	0.00	97.87	104.89	66.13	90.03
2010	201.80	0.00	98.83	106.22	62.13	87.93

Source: Harvest estimation system (HES).

**Table 10—Hardwood harvest indexes (1996 = 100), North Central**

Year	Sawlogs	Veneer logs	Pulp-wood	Composites	Fuel-wood	Misc. products
1965	47.99	158.21	24.78	—	27.97	96.93
1966	48.83	168.25	29.85	—	27.31	96.46
1967	49.10	133.40	27.66	—	27.24	88.90
1968	46.62	170.63	23.41	—	27.29	91.67
1969	47.43	146.13	29.07	—	26.59	110.90
1970	46.45	139.55	22.42	—	30.09	126.31
1971	47.63	111.86	33.27	—	31.49	116.25
1972	46.93	118.89	33.03	—	34.71	100.85
1973	51.64	107.27	35.92	—	34.74	95.73
1974	47.32	87.63	47.69	—	41.09	83.16
1975	44.42	106.24	34.25	—	41.34	74.25
1976	49.76	79.88	40.93	—	42.47	68.43
1977	53.87	64.90	40.16	—	54.01	78.12
1978	55.98	73.13	38.89	—	73.46	88.41
1979	55.76	97.31	44.63	—	86.72	95.69
1980	53.89	91.21	38.45	—	100.06	107.02
1981	45.44	85.53	45.37	—	107.75	118.95
1982	61.12	124.72	38.42	—	155.25	129.06
1983	72.17	108.58	59.16	31.72	148.68	141.02
1984	82.61	112.17	59.76	36.99	158.67	153.68
1985	77.70	101.25	79.64	48.16	150.96	162.89
1986	80.61	105.06	106.60	50.00	153.83	176.75
1987	85.22	116.39	99.04	51.93	132.65	172.99
1988	91.39	118.40	97.46	66.44	133.12	187.98
1989	95.31	97.20	94.63	75.42	130.19	201.53
1990	98.32	76.95	102.77	78.90	134.12	200.06
1991	92.51	62.73	106.43	72.92	181.62	192.50
1992	90.44	57.76	106.24	102.41	145.83	197.94
1993	99.40	80.71	104.75	105.68	128.95	186.58
1994	102.05	101.59	109.89	107.57	118.09	134.53
1995	102.32	103.35	103.47	101.46	117.63	120.97
1996	100.00	100.00	100.00	100.00	100.00	100.00
1997	101.99	104.75	101.86	97.71	88.76	97.84
1998	101.34	109.97	98.27	102.41	82.90	91.67
1999	97.48	113.05	93.30	105.91	82.91	90.78
2000	93.22	126.96	99.77	104.83	83.13	92.61
2001	87.01	117.91	99.61	106.89	83.46	31.64
2002	87.14	117.32	106.52	114.62	78.61	31.94
2003	80.56	117.12	103.41	115.64	78.35	99.46
2004	86.79	117.56	105.40	121.37	79.64	99.46
2005	84.98	115.98	108.08	126.95	80.16	99.46
2006	84.98	115.98	108.08	126.95	80.16	99.46
2007	85.54	115.56	110.54	133.87	77.17	103.42
2008	85.66	114.97	113.12	140.67	73.95	107.35
2009	86.01	114.89	114.64	146.70	70.90	111.34
2010	86.25	114.62	114.99	153.03	67.79	115.28

Source: Harvest estimation system (HES).



**Table 11—Softwood harvest indexes (1996 = 100), Rocky Mountain North**

Year	Sawlogs	Veneer logs	Pulp-wood	Fuel-wood	Misc. products
1965	73.97	46.10	—	14.20	85.04
1966	76.02	54.05	—	16.95	93.24
1967	74.38	69.20	—	20.35	90.13
1968	78.55	66.93	—	24.08	93.35
1969	74.24	58.81	—	27.07	120.46
1970	71.11	57.04	—	36.70	136.42
1971	77.89	70.08	—	34.00	126.66
1972	77.12	74.31	—	33.98	110.96
1973	82.83	72.29	—	31.38	106.05
1974	71.28	70.32	—	33.38	93.33
1975	69.54	76.94	—	31.06	84.74
1976	79.12	92.70	—	29.45	84.20
1977	82.24	95.37	—	25.97	92.04
1978	81.75	93.22	—	49.51	99.89
1979	80.78	89.12	—	84.56	110.40
1980	65.20	80.58	—	136.09	118.44
1981	63.55	80.42	—	137.23	126.48
1982	58.30	66.24	—	141.82	136.37
1983	95.26	92.13	—	134.11	145.35
1984	98.82	84.84	—	140.84	154.27
1985	100.63	89.21	—	132.25	166.56
1986	112.19	87.72	—	132.70	175.57
1987	119.35	101.41	—	111.74	172.75
1988	117.12	97.60	—	110.66	154.10
1989	121.62	105.17	—	118.56	149.49
1990	115.28	103.52	48.65	118.68	134.46
1991	108.86	92.49	47.48	123.60	116.23
1992	113.40	105.22	46.15	143.76	111.30
1993	109.14	108.03	29.78	159.38	103.79
1994	104.74	92.89	28.11	179.67	104.30
1995	96.09	105.44	127.72	200.99	106.87
1996	100.00	100.00	100.00	100.00	100.00
1997	102.70	99.20	77.07	95.38	97.98
1998	106.71	93.64	96.43	103.61	91.94
1999	109.37	98.61	69.15	104.10	91.18
2000	100.40	87.86	79.60	104.81	93.14
2001	106.00	66.51	61.83	91.36	136.70
2002	110.77	65.18	49.61	87.23	135.42
2003	110.16	63.16	52.58	87.27	84.70
2004	124.01	59.52	53.44	37.91	158.67
2005	125.05	56.59	54.56	44.07	144.27
2006	125.05	56.59	54.56	43.37	144.27
2007	125.72	56.31	62.75	42.04	143.49
2008	126.23	56.19	71.48	40.73	142.33
2009	126.66	55.97	82.38	39.44	140.66
2010	126.55	55.74	91.01	38.32	138.63

Source: Harvest estimation system (HES).

**Table 12—Hardwood harvest indexes (1996 = 100), Rocky Mountain North**

Year	Composites	Fuel-wood
1965	68.77	0.29
1966	68.77	0.44
1967	68.77	0.61
1968	68.77	0.79
1969	68.77	0.95
1970	68.77	1.39
1971	68.77	1.37
1972	68.77	1.41
1973	68.77	1.35
1974	68.77	1.49
1975	68.77	1.44
1976	68.77	1.41
1977	68.77	5.47
1978	68.77	15.69
1979	68.77	27.29
1980	68.77	42.08
1981	68.77	55.79
1982	68.77	109.41
1983	68.77	118.27
1984	68.77	144.53
1985	51.34	151.34
1986	57.22	170.63
1987	73.33	139.39
1988	120.99	129.34
1989	89.06	116.91
1990	85.06	119.16
1991	89.99	104.17
1992	86.41	94.83
1993	80.35	85.69
1994	105.46	74.69
1995	100.00	64.35
1996	100.00	100.01
1997	—	93.89
1998	—	93.71
1999	—	96.21
2000	—	98.88
2001	—	97.80
2002	—	96.15
2003	—	96.97
2004	—	97.98
2005	—	98.24
2006	—	99.38
2007	—	100.89
2008	—	102.06
2009	—	102.91
2010	—	104.20

**Table 13—Softwood harvest indexes  
(1996 = 100), Rocky Mountain South**

Year	Sawlogs	Pulp- wood	Fuel- wood	Misc. products
1965	135.50	—	9.72	123.74
1966	143.38	—	10.95	127.38
1967	148.28	—	12.53	117.42
1968	160.13	—	14.29	115.43
1969	151.49	—	15.61	138.42
1970	144.42	—	20.48	148.09
1971	146.91	—	19.43	135.37
1972	153.51	—	19.97	116.85
1973	141.36	—	18.91	109.57
1974	127.46	—	20.83	94.79
1975	125.70	—	19.92	84.37
1976	148.94	—	19.45	81.69
1977	157.94	—	17.16	89.31
1978	142.67	—	32.70	96.92
1979	135.49	—	55.85	107.12
1980	121.08	—	89.88	114.92
1981	118.83	—	90.63	122.72
1982	103.51	—	93.66	132.32
1983	129.55	—	88.57	141.03
1984	138.11	—	93.01	149.68
1985	138.11	—	89.17	161.61
1986	167.09	35.06	89.36	170.35
1987	172.98	89.46	84.12	167.62
1988	173.32	155.99	83.90	149.52
1989	177.22	98.07	85.64	145.05
1990	159.95	65.70	86.04	130.46
1991	145.54	65.67	91.05	112.77
1992	133.28	64.42	85.45	107.99
1993	116.85	41.32	93.06	106.08
1994	123.55	38.61	99.19	106.20
1995	105.47	120.70	110.69	106.82
1996	100.00	100.00	100.00	100.00
1997	104.30	76.27	89.11	97.98
1998	102.74	95.23	100.19	91.94
1999	105.41	67.58	100.60	91.17
2000	90.45	78.40	95.27	94.02
2001	65.94	60.81	96.00	163.18
2002	106.55	48.92	87.54	147.17
2003	0.00	52.90	87.25	92.06
2004	0.00	54.18	88.69	92.06
2005	70.88	55.22	97.13	110.72
2006	70.88	55.22	97.13	110.72
2007	65.63	56.21	94.33	110.12
2008	60.38	56.59	91.30	109.22
2009	55.34	57.54	88.50	107.95
2010	50.10	56.13	87.19	117.85

Source: Harvest estimation system (HES).

**Table 14—Hardwood harvest indexes  
(1996 = 100), Rocky Mountain South**

Year	Sawlogs	Fuel- wood	Misc. products
1965	3.39	1.76	—
1966	—	2.38	—
1967	—	3.11	—
1968	—	3.92	—
1969	—	4.60	—
1970	—	6.53	—
1971	—	5.58	—
1972	—	4.81	—
1973	—	3.80	—
1974	—	3.10	—
1975	—	2.16	—
1976	—	1.27	—
1977	—	4.93	—
1978	327.09	14.15	—
1979	336.01	24.60	—
1980	352.05	37.93	—
1981	197.84	50.29	—
1982	552.12	98.63	—
1983	295.22	106.62	—
1984	295.46	130.29	—
1985	440.94	133.28	—
1986	292.01	142.39	—
1987	196.70	135.42	—
1988	100.00	134.26	—
1989	100.00	133.89	—
1990	100.00	134.33	—
1991	100.00	134.21	—
1992	100.00	135.64	54.24
1993	100.00	124.31	88.98
1994	100.00	114.21	78.66
1995	100.00	97.02	94.79
1996	100.00	100.00	100.00
1997	100.00	91.20	84.72
1998	100.00	87.43	67.42
1999	100.00	89.68	55.24
2000	100.00	92.14	44.91
2001	100.00	94.71	11.54
2002	100.00	91.27	11.65
2003	100.00	90.97	36.26
2004	100.00	92.47	36.26
2005	100.00	93.07	36.26
2006	100.00	93.07	36.26
2007	92.72	94.88	41.34
2008	85.67	96.06	47.27
2009	77.63	97.11	54.26
2010	71.77	97.75	62.48

Source: Harvest estimation system (HES).

**Table 15—Softwood harvest indexes (1996 = 100), Pacific Southwest**

Year	Sawlogs	Veneer logs	Fuel-wood	Misc. products
1965	106.77	1340.49	—	50.01
1966	105.92	1216.41	—	63.71
1967	103.44	987.35	—	67.55
1968	113.42	1018.94	—	76.40
1969	105.41	974.13	—	110.15
1970	98.60	933.57	—	134.46
1971	107.76	1251.44	—	112.77
1972	113.32	1369.34	—	88.78
1973	115.70	1263.14	—	72.58
1974	100.73	1130.61	—	54.03
1975	93.45	915.90	—	38.59
1976	106.21	870.04	—	25.24
1977	111.33	801.88	—	40.38
1978	107.78	745.24	—	55.51
1979	103.53	688.13	—	72.99
1980	87.81	518.95	—	88.63
1981	75.70	564.07	—	104.26
1982	70.88	395.56	9.32	121.80
1983	87.83	592.16	10.28	138.57
1984	96.52	530.14	12.82	155.36
1985	104.12	401.92	13.58	176.10
1986	124.55	321.54	15.49	193.28
1987	139.78	279.84	14.74	198.99
1988	147.76	369.67	14.60	185.24
1989	139.27	289.48	15.64	191.02
1990	132.13	216.03	15.92	182.90
1991	114.30	194.80	143.31	169.66
1992	107.02	200.00	118.69	146.27
1993	96.33	100.00	104.77	123.60
1994	95.57	100.00	96.16	110.84
1995	92.51	100.00	110.56	121.80
1996	100.00	100.00	100.00	100.00
1997	105.60	100.00	89.30	103.51
1998	122.18	100.00	100.61	102.16
1999	118.88	100.00	101.22	106.16
2000	71.72	90.54	172.73	8.03
2001	76.67	90.54	174.38	14.51
2002	69.01	90.54	165.17	14.38
2003	72.11	90.54	164.63	8.99
2004	62.88	79.38	167.43	12.05
2005	60.86	76.82	166.14	9.23
2006	68.89	76.82	166.14	9.23
2007	63.24	69.16	170.66	9.23
2008	69.63	62.32	174.04	9.18
2009	76.03	56.76	177.20	9.08
2010	70.03	52.08	179.61	8.95

Source: Harvest estimation system (HES).

**Table 16—Hardwood harvest indexes (1996 = 100), Pacific Southwest**

Year	Veneer logs	Fuel-wood
1965	16.88	6.90
1966	15.88	8.54
1967	19.25	10.53
1968	20.95	12.71
1969	18.29	14.50
1970	19.07	19.97
1971	24.69	19.69
1972	26.36	20.42
1973	23.85	19.47
1974	19.19	21.65
1975	13.95	20.85
1976	14.75	20.52
1977	16.75	27.77
1978	16.67	40.41
1979	15.96	50.23
1980	15.39	60.81
1981	15.50	68.23
1982	27.89	105.02
1983	28.72	103.73
1984	29.93	114.91
1985	26.57	112.53
1986	29.86	118.46
1987	36.77	105.04
1988	44.58	109.32
1989	64.88	110.45
1990	90.34	117.91
1991	88.72	170.34
1992	86.71	140.51
1993	84.44	123.45
1994	101.02	112.74
1995	101.25	111.20
1996	100.00	100.00
1997	108.29	97.09
1998	114.11	98.38
1999	117.08	106.04
2000	138.17	113.91
2001	132.73	121.90
2002	136.25	121.87
2003	131.67	121.47
2004	136.62	123.47
2005	129.23	124.27
2006	129.23	124.27
2007	136.77	124.88
2008	144.87	124.99
2009	154.60	125.21
2010	164.71	125.18

Source: Harvest estimation system (HES).

**Table 17—Softwood harvest indexes (1996 = 100), Pacific Northwest**

Year	Sawlogs	Veneer logs	Pulpwood	Fuelwood	Misc. products
1965	79.70	113.68	—	9.68	113.41
1966	77.24	110.03	—	9.83	125.01
1967	76.41	107.49	—	10.22	121.29
1968	81.68	130.52	—	10.67	126.11
1969	76.73	116.43	—	10.83	163.57
1970	76.37	121.30	—	12.95	185.94
1971	79.19	132.65	—	12.13	171.52
1972	88.55	157.09	—	12.28	149.34
1973	90.06	159.96	—	11.47	141.63
1974	79.91	136.62	—	12.40	123.78
1975	78.46	134.97	—	11.69	111.50
1976	86.00	166.59	—	11.24	109.66
1977	90.17	164.39	—	10.78	106.79
1978	95.34	175.76	—	28.39	103.92
1979	95.92	175.28	78.59	62.45	103.08
1980	78.89	140.93	66.06	124.75	100.16
1981	74.06	124.99	46.67	137.45	97.23
1982	73.94	125.05	46.85	155.26	95.38
1983	102.40	162.85	42.63	157.56	92.86
1984	106.16	163.81	52.14	180.07	90.24
1985	106.31	167.60	79.58	180.38	89.08
1986	120.71	186.79	85.78	194.53	86.27
1987	134.96	196.34	97.56	161.25	98.50
1988	135.35	193.68	95.24	159.70	99.78
1989	131.93	165.84	144.82	171.09	114.53
1990	116.68	145.83	126.60	174.15	120.43
1991	105.51	123.20	118.49	179.53	122.19
1992	103.28	116.80	104.67	146.58	115.62
1993	94.29	104.92	98.99	127.24	106.74
1994	95.24	101.31	103.92	114.67	106.16
1995	95.52	101.54	118.84	112.25	107.38
1996	100.00	100.00	100.00	100.00	100.00
1997	100.19	85.65	102.04	87.33	96.01
1998	98.97	83.04	120.23	96.21	88.30
1999	102.60	85.29	100.22	94.65	85.84
2000	102.53	87.74	101.63	93.33	85.98
2001	104.37	80.53	78.73	92.13	146.34
2002	118.42	68.56	60.60	109.15	24.50
2003	120.59	89.60	48.36	130.51	28.76
2004	131.31	97.66	53.29	134.75	31.43
2005	131.95	95.52	54.49	135.17	30.96
2006	131.95	95.52	54.49	135.17	30.96
2007	132.41	91.85	55.00	130.50	31.25
2008	132.68	88.13	55.11	125.08	31.61
2009	132.96	84.33	54.39	119.65	32.00
2010	132.56	80.15	53.49	113.86	32.46

Source: Harvest estimation system (HES).

**Table 18—Hardwood harvest indexes (1996 = 100), Pacific Northwest**

Year	Sawlogs	Veneer logs	Pulpwood	Fuelwood
1965	10.43	20.39	5.02	1.84
1966	14.46	19.13	5.16	2.17
1967	13.99	23.18	4.34	2.58
1968	14.85	25.44	8.02	3.03
1969	12.07	22.06	8.47	3.39
1970	9.83	23.03	9.06	4.56
1971	11.32	28.95	7.73	4.48
1972	11.00	30.68	9.04	4.62
1973	12.43	27.67	14.35	4.39
1974	14.99	22.61	21.84	4.86
1975	12.10	16.19	18.15	4.66
1976	15.74	16.79	27.61	4.57
1977	15.78	19.09	24.37	—
1978	16.94	18.03	20.95	5.94
1979	17.65	17.01	24.67	17.43
1980	27.32	17.82	26.02	33.65
1981	26.17	17.72	24.71	49.88
1982	36.42	32.31	23.44	112.90
1983	27.41	33.86	17.08	127.12
1984	27.89	35.10	33.80	161.58
1985	27.62	31.58	35.12	173.26
1986	37.63	33.14	35.91	199.76
1987	41.00	37.57	38.66	167.52
1988	47.85	40.47	44.66	161.68
1989	55.18	61.10	35.26	152.29
1990	64.27	79.19	96.56	150.62
1991	72.74	101.34	125.08	192.48
1992	74.10	88.30	132.09	154.62
1993	97.88	86.39	108.19	131.59
1994	97.25	104.36	119.51	115.94
1995	97.11	103.25	116.34	115.38
1996	100.00	100.00	99.99	100.00
1997	102.54	106.03	96.30	100.34
1998	89.70	111.73	108.01	104.42
1999	100.58	115.14	103.00	115.07
2000	104.79	133.09	93.82	125.93
2001	101.17	124.77	77.65	136.91
2002	101.38	126.16	76.88	138.76
2003	92.76	124.66	64.35	138.30
2004	100.91	126.33	74.00	140.58
2005	97.83	123.40	75.20	141.49
2006	97.83	123.40	75.20	141.49
2007	102.82	129.63	78.27	141.24
2008	108.23	136.25	79.93	139.67
2009	114.21	144.17	81.55	137.64
2010	119.47	152.63	83.21	134.76

Source: Harvest estimation system (HES).

**Table 19—Volume of roundwood products by region, state, species group, and type of product, United States, 2005**

Region, state, and species group	Roundwood products														
	Saw logs			Veneer logs			Pulpwood		Composite products		Fuelwood		Posts, poles, pilings	Other products	All products
	MBF <sup>a</sup>	MCF <sup>b</sup>	MCF	MBF	MCF	MCF	Cords	MCF	Cords	MCF	Cords	MCF	MCF	MCF	MCF
<b>Northeast</b>															
Connecticut															
Softwood	27,434	4,343	0	0	1,848	157	0	0	0	596	48	0	35	4,583	
Hardwood	47,044	7,180	0	0	10	1	0	0	0	274,544	21,963	0	0	29,144	
Total	74,478	11,523	0	0	1,858	158	0	0	0	275,140	22,011	0	35	33,727	
Delaware															
Softwood	3,313	525	2	0	31,697	2,694	0	0	0	2,211	177	0	68	3,464	
Hardwood	17,399	2,655	908	138	7,934	674	0	0	0	15,963	1,277	0	50	4,794	
Total	20,712	3,180	910	138	39,631	3,368	0	0	0	18,174	1,454	0	118	8,258	
Maine															
Softwood	1,268,859	200,863	20	3	898,597	76,381	0	0	0	73,540	5,883	0	761	283,891	
Hardwood	317,097	48,463	31,008	4,727	1,353,558	115,052	0	0	0	919,715	73,578	0	612	242,432	
Total	1,585,956	249,326	31,029	4,730	2,252,154	191,433	0	0	0	993,254	79,461	0	1,373	526,322	
Maryland															
Softwood	48,082	7,612	0	0	65,214	5,543	0	0	0	26,509	2,120	0	407	15,682	
Hardwood	95,810	14,629	1,610	10,560	70,813	6,019	0	0	0	382,500	30,600	0	55	61,863	
Total	143,892	22,241	1,610	10,560	136,027	11,562	0	0	0	409,009	32,721	0	462	77,545	
Massachusetts															
Softwood	68,723	10,879	0	0	7,347	625	0	0	0	245,468	19,637	0	88	31,229	
Hardwood	31,931	4,874	0	0	991	85	0	0	0	385,410	30,833	0	5	35,796	
Total	100,654	15,753	0	0	8,338	709	0	0	0	630,878	50,471	0	93	67,026	
New Hampshire															
Softwood	252,220	39,925	29	5	155,847	13,247	0	0	0	26,068	2,086	0	1,557	56,819	
Hardwood	270,983	41,359	99,949	15,237	287,584	24,445	0	0	0	336,977	26,958	0	8,104	116,102	
Total	523,204	81,284	99,978	15,241	443,431	37,692	0	0	0	363,045	29,044	0	9,660	172,921	
New Jersey															
Softwood	1,988	314	0	0	3,646	310	0	0	0	5,089	407	0	73	1,104	
Hardwood	17,778	2,714	2,674	408	515	43	0	0	0	476,637	38,131	0	14	41,310	
Total	19,767	3,028	2,674	408	4,162	353	0	0	0	481,725	38,537	0	87	42,414	
New York															
Softwood	178,021	28,181	9,925	1,572	201,371	17,116	3,117	266	0	0	0	0	556	47,691	
Hardwood	433,670	66,189	11,644	1,774	235,337	20,004	32,433	2,757	0	751,553	601,166	0	5	691,895	
Total	611,691	94,369	21,569	3,347	436,708	37,120	35,550	3,023	0	751,553	601,166	0	561	739,586	
Pennsylvania															
Softwood	53,593	8,484	55	9	46,188	3,926	0	0	0	845	68	0	9,600	22,087	
Hardwood	895,188	136,627	32,592	4,968	567,310	48,221	0	0	0	147,015	11,762	0	2,933	204,512	
Total	948,781	145,111	32,647	4,977	613,498	52,147	0	0	0	147,860	11,830	0	12,533	226,599	

**Table 19—Volume of roundwood products by region, state, species group, and type of product, United States, 2005 (continued)**

Region, state, and species group	Roundwood products																										
	Saw logs			Veneer logs			Pulpwood			Composite products			Fuelwood			Posts, poles, pilings			Other products			All products					
	MBF <sup>a</sup>	MCF <sup>b</sup>	MCF	MBF	MCF	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF			
<b>Rhode Island</b>																											
Softwood	2,737	433	0	0	2,704	230	0	0	0	412	33	0	0	0	0	0	0	0	0	0	0	0	0	0	696		
Hardwood	3,398	518	0	0	0	0	0	0	0	50,288	4,218	0	0	0	0	0	0	0	0	0	0	0	0	0	4,737		
Total	6,135	951	0	0	2,704	230	0	0	0	50,701	4,251	0	0	0	0	0	0	0	0	0	0	0	0	0	5,432		
<b>Vermont</b>																											
Softwood	226,769	35,898	4,951	785	126,898	10,786	0	0	0	224	18	0	0	0	0	0	0	0	0	0	0	0	0	90	47,577		
Hardwood	112,146	17,117	5,076	774	170,445	14,488	0	0	0	373,280	29,863	0	0	0	0	0	0	0	0	0	0	0	0	0	62,241		
Total	338,915	53,014	10,026	1,558	297,343	25,274	0	0	0	373,504	29,881	0	0	0	0	0	0	0	0	0	0	0	0	90	109,818		
<b>West Virginia</b>																											
Softwood	22,651	3,586	0	0	33,769	2,871	0	0	0	1,709	137	0	0	0	0	0	0	0	0	0	0	0	0	209	6,802		
Hardwood	815,366	124,444	53,683	8,184	238,202	20,247	0	0	0	44,582	3,568	0	0	0	0	0	0	0	0	0	0	0	0	0	4,478	160,921	
Total	838,017	128,030	53,683	8,184	271,971	23,118	0	0	0	46,291	3,705	0	0	0	0	0	0	0	0	0	0	0	0	0	4,687	167,723	
<b>All Northeast States</b>																											
Softwood	2,154,392	341,043	14,982	2,374	1,575,128	133,886	3,117	266	382,671	30,614	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,444	521,625	
Hardwood	3,057,809	466,767	239,143	46,770	2,932,698	249,280	32,433	2,757	4,158,463	873,917	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,255	1,655,746	
Total	5,212,201	807,810	254,125	49,143	4,507,826	383,166	35,550	3,023	4,541,134	904,531	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29,698	2,177,371	
<b>North Central</b>																											
<b>Illinois</b>																											
Softwood	578	103	0	0	3,873	306	0	0	0	2,755	193	0	0	0	0	0	0	0	0	0	0	0	0	17	619		
Hardwood	183,304	30,576	6,187	851	40,337	3,186	0	0	0	672,225	47,055	0	0	0	0	0	0	0	0	0	0	0	0	0	2,819	84,487	
Total	183,883	30,679	6,187	851	44,209	3,492	0	0	0	674,981	47,248	0	0	0	0	0	0	0	0	0	0	0	0	0	2,836	85,106	
<b>Indiana</b>																											
Softwood	9,305	1,660	0	0	11,831	935	0	0	0	6,263	438	0	0	0	0	0	0	0	0	0	0	0	0	0	34	3,067	
Hardwood	289,015	48,135	26,537	3,639	51,864	4,097	32,433	2,757	412,414	28,869	0	0	0	0	0	0	0	0	0	0	0	0	0	0	577	85,318	
Total	298,319	49,795	26,537	3,639	63,695	5,032	35,550	3,023	418,677	29,307	0	0	0	0	0	0	0	0	0	0	0	0	0	0	611	88,385	
<b>Iowa</b>																											
Softwood	150	31	0	0	0	0	0	0	0	520	37	0	0	0	0	0	0	0	0	0	0	0	0	0	56	124	
Hardwood	73,217	12,296	2,796	571	11,130	880	0	0	0	274,043	19,183	0	0	0	0	0	0	0	0	0	0	0	0	0	178	33,108	
Total	73,367	12,327	2,796	571	11,130	880	0	0	0	274,562	19,220	0	0	0	0	0	0	0	0	0	0	0	0	0	234	33,231	
<b>Kansas</b>																											
Softwood	153	33	0	0	0	0	0	0	0	2,174	152	0	0	0	0	0	0	0	0	0	0	0	0	0	1	185	
Hardwood	11,208	1,820	117	16	0	0	0	0	0	230,237	16,117	0	0	0	0	0	0	0	0	0	0	0	0	0	526	18,480	
Total	11,361	1,853	117	16	0	0	0	0	0	232,411	16,269	0	0	0	0	0	0	0	0	0	0	0	0	0	527	18,665	
<b>Michigan</b>																											
Softwood	245,421	42,247	0	0	418,123	35,877	113,397	8,958	135,932	9,504	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,784	100,370	
Hardwood	429,221	73,882	57,056	9,289	2,274,814	133,616	847,943	66,988	797,919	55,833	0	0	0	0	0	0	0	0	0	0	0	0	0	0	751	340,358	
Total	674,642	116,129	57,056	9,289	2,692,937	169,493	961,341	75,946	933,851	65,337	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,535	440,729	
<b>Minnesota</b>																											
Softwood	212,815	40,163	0	0	645,802	41,833	16,758	1,315	20,335	1,424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,044	86,779
Hardwood	161,949	28,644	20,782	3,383	2,943,103	89,791	1,590,859	125,212	621,613	43,513	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,522	292,066	
Total	374,765	68,808	20,782	3,383	3,588,905	131,624	1,607,617	126,527	641,949	44,937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,566	378,845	

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Missouri	Softwood	84,262	16,122	55	0	11	146	0	0	3,305	231	0	2,670	19,169
	Hardwood	537,677	94,470	5,654	1,265	4,683	59,285	0	0	433,712	30,360	0	7,197	192,577
	Total	621,939	110,592	5,709	1,265	4,694	59,431	0	0	437,018	30,591	0	9,867	211,746
Nebraska	Softwood	31,117	5,430	0	0	0	0	0	0	5,071	355	0	204	5,989
	Hardwood	24,068	3,735	335	76	0	0	0	0	118,295	8,280	0	149	12,240
	Total	55,185	9,165	335	76	0	0	0	0	123,367	8,635	0	352	18,229
NorthDakota	Softwood	9	2	0	0	0	0	0	0	1,150	80	0	4	86
	Hardwood	2,214	389	0	0	0	0	2,959	222	23,132	1,619	0	17	2,247
	Total	2,222	391	0	0	0	0	2,959	222	24,283	1,699	0	21	2,333
Ohio	Softwood	6,046	958	0	0	22,106	1,880	0	0	0	0	0	907	3,744
	Hardwood	296,065	45,187	17,852	2,721	501,971	42,668	0	0	143,039	11,443	0	656	102,675
	Total	302,110	46,144	17,852	2,721	524,077	44,548	0	0	143,039	11,443	0	1,564	106,420
South Dakota	Softwood	109,773	17,901	0	0	0	0	10,712	803	9,030	632	0	20	19,356
	Hardwood	859	151	0	0	0	0	0	0	39,837	2,789	0	46	2,986
	Total	110,632	18,052	0	0	0	0	10,712	803	48,867	3,420	0	66	22,342
Wisconsin	Softwood	176,636	31,219	0	0	774,922	63,439	14,548	1,148	39,103	2,738	0	1,367	99,910
	Hardwood	459,532	80,338	57,533	9,367	2,295,004	137,288	586,305	46,319	734,757	51,433	0	3,767	328,512
	Total	636,169	111,557	57,533	9,367	3,069,926	200,727	600,853	47,467	773,860	54,170	0	5,134	428,422
All North Central States	Softwood	876,265	155,868	55	0	1,876,669	144,415	155,414	12,224	225,640	15,783	0	11,108	339,399
	Hardwood	2,468,330	419,624	194,849	31,180	8,122,906	470,811	3,028,067	238,742	4,501,225	316,494	0	18,204	1,495,054
	Total	3,344,594	575,492	194,904	31,180	9,999,574	615,226	3,183,481	250,966	4,726,865	332,278	0	29,312	1,834,453
Southeast	Florida	965,278	184,383	172,738	29,689	2,668,200	240,598	20,597	1,458	42,382	3,094	0	26,746	485,968
	Softwood	28,152	4,717	8,915	1,429	266,500	28,321	93,858	7,037	239,486	17,962	0	879	60,345
	Hardwood	993,430	189,100	181,653	31,118	2,934,700	268,920	114,455	8,495	281,868	21,055	0	27,625	546,312
Georgia	Softwood	2,277,332	416,766	324,698	55,485	6,102,600	441,991	687,275	49,874	94,018	6,821	0	26,264	997,201
	Hardwood	412,957	69,307	70,315	11,420	1,135,400	115,369	34,900	2,600	596,589	44,744	0	335	243,776
	Total	2,690,289	486,073	395,014	66,906	7,238,000	557,360	722,175	52,475	690,607	51,565	0	26,599	1,240,977
North Carolina	Softwood	1,761,854	317,151	223,834	38,927	1,796,400	146,052	688,396	49,952	123,953	8,993	0	929	562,004
	Hardwood	719,663	119,417	103,814	16,476	1,778,600	110,188	108,177	8,268	983,666	75,381	0	0	329,730
	Total	2,481,517	436,568	327,649	55,403	3,575,000	256,240	796,573	58,220	1,107,619	84,374	0	929	891,734

**Table 19—Volume of roundwood products by region, state, species group, and type of product, United States, 2005 (continued)**

Region, state, and species group	Roundwood products																																
	Saw logs				Veneer logs				Pulpwood				Composite products				Fuelwood		Posts, poles, pilings		Other products		All products										
	MBF <sup>a</sup>	MCF <sup>b</sup>	MBF	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords				
<b>Missouri</b>																																	
Softwood	84,262	16,122	55	0	11	146	0	0	0	0	0	0	0	3,305	231	0	0	0	0	0	0	0	0	2,670	19,169	0	0	0	0				
Hardwood	537,677	94,470	5,654	1,265	4,683	59,285	1,265	0	0	0	0	0	0	433,712	30,360	0	0	0	0	0	0	0	0	7,197	192,577	0	0	0	0	0			
Total	621,939	110,592	5,709	1,265	4,694	59,431	1,265	0	0	0	0	0	0	437,018	30,591	0	0	0	0	0	0	0	0	9,867	211,746	0	0	0	0	0			
<b>Nebraska</b>																																	
Softwood	31,117	5,430	0	0	0	0	0	0	0	0	0	0	0	5,071	355	0	0	0	0	0	0	0	0	204	5,989	0	0	0	0	0			
Hardwood	24,068	3,735	335	76	0	0	76	0	0	0	0	0	0	118,295	8,280	0	0	0	0	0	0	0	0	149	12,240	0	0	0	0	0	0		
Total	55,185	9,165	335	76	0	0	76	0	0	0	0	0	0	123,367	8,635	0	0	0	0	0	0	0	0	352	18,229	0	0	0	0	0	0		
<b>NorthDakota</b>																																	
Softwood	9	2	0	0	0	0	0	0	0	0	0	0	0	1,150	80	0	0	0	0	0	0	0	0	4	86	0	0	0	0	0	0		
Hardwood	2,214	389	0	0	0	0	0	0	0	0	0	0	2,959	222	1,619	2,247	0	0	0	0	0	0	17	2,247	0	0	0	0	0	0	0		
Total	2,222	391	0	0	0	0	0	0	0	0	0	0	2,959	222	1,699	2,247	0	0	0	0	0	0	21	2,247	0	0	0	0	0	0	0		
<b>Ohio</b>																																	
Softwood	6,046	958	0	0	22,106	1,880	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	907	3,744	0	0	0	0	0	0		
Hardwood	296,065	45,187	17,852	2,721	501,971	42,668	2,721	0	0	0	0	0	0	143,039	11,443	102,675	0	0	0	0	0	0	656	102,675	0	0	0	0	0	0	0		
Total	302,110	46,144	17,852	2,721	524,077	44,548	2,721	0	0	0	0	0	0	143,039	11,443	106,420	0	0	0	0	0	0	1,564	106,420	0	0	0	0	0	0	0		
<b>South Dakota</b>																																	
Softwood	109,773	17,901	0	0	0	0	0	0	0	0	0	0	10,712	803	632	19,356	0	0	0	0	0	0	20	19,356	0	0	0	0	0	0	0		
Hardwood	859	151	0	0	0	0	0	0	0	0	0	0	0	39,837	2,789	2,986	0	0	0	0	0	46	2,986	0	0	0	0	0	0	0	0		
Total	110,632	18,052	0	0	0	0	0	0	0	0	0	0	10,712	803	3,420	22,342	0	0	0	0	0	66	22,342	0	0	0	0	0	0	0	0	0	
<b>Wisconsin</b>																																	
Softwood	176,636	31,219	0	0	774,922	63,439	0	0	0	0	0	0	14,548	1,148	2,738	99,910	0	0	0	0	0	0	1,367	99,910	0	0	0	0	0	0	0	0	
Hardwood	459,532	80,338	57,533	9,367	2,295,004	137,288	9,367	0	0	0	0	586,305	46,319	734,757	51,433	328,512	0	0	0	0	0	0	3,767	328,512	0	0	0	0	0	0	0	0	
Total	636,169	111,557	57,533	9,367	3,069,926	200,727	9,367	0	0	0	0	600,853	47,467	773,860	54,170	428,422	0	0	0	0	0	0	5,134	428,422	0	0	0	0	0	0	0	0	
<b>All North Central States</b>																																	
Softwood	876,265	155,868	55	0	1,876,669	144,415	0	0	0	0	0	155,414	12,224	225,640	15,783	339,399	0	0	0	0	0	0	11,108	339,399	0	0	0	0	0	0	0	0	
Hardwood	2,468,330	419,624	194,849	31,180	8,122,906	470,811	31,180	0	0	0	3,028,067	238,742	4,501,225	316,494	18,204	1,495,054	0	0	0	0	0	0	18,204	1,495,054	0	0	0	0	0	0	0	0	
Total	3,344,594	575,492	194,904	31,180	9,999,574	615,226	31,180	0	0	0	3,183,481	250,966	4,726,865	332,278	29,312	1,834,453	0	0	0	0	0	0	29,312	1,834,453	0	0	0	0	0	0	0	0	0
<b>Southeast</b>																																	
<b>Florida</b>																																	
Softwood	965,278	184,383	172,738	29,689	2,668,200	240,598	29,689	0	0	0	20,597	1,458	42,382	3,094	26,746	485,968	0	0	0	0	0	0	26,746	485,968	0	0	0	0	0	0	0	0	
Hardwood	28,152	4,717	8,915	1,429	266,500	28,321	1,429	0	0	0	93,858	7,037	17,962	879	60,345	0	0	0	0	0	0	0	879	60,345	0	0	0	0	0	0	0	0	
Total	993,430	189,100	181,653	31,118	2,934,700	268,920	31,118	0	0	0	114,455	8,495	281,868	21,055	27,625	546,312	0	0	0	0	0	0	27,625	546,312	0	0	0	0	0	0	0	0	
<b>Georgia</b>																																	
Softwood	2,277,332	416,766	324,698	55,485	6,102,600	441,991	55,485	0	0	0	687,275	49,874	94,018	6,821	26,264	997,201	0	0	0	0	0	0	26,264	997,201	0	0	0	0	0	0	0	0	
Hardwood	412,957	69,307	70,315	11,420	1,135,400	115,369	11,420	0	0	0	34,900	2,600	596,589	44,744	335	243,776	0	0	0	0	0	0	335	243,776	0	0	0	0	0	0	0	0	
Total	2,690,289	486,073	395,014	66,906	7,238,000	557,360	66,906	0	0	0	722,175	52,475	690,607	51,565	26,599	1,240,977	0	0	0	0	0	0	26,599	1,240,977	0	0	0	0	0	0	0	0	
<b>North Carolina</b>																																	
Softwood	1,761,854	317,151	223,834	38,927	1,796,400	146,052	38,927	0	0	0	688,396	49,952	123,953	8,993	929	562,004	0	0	0	0	0	0	929	562,004	0	0	0	0	0	0	0	0	
Hardwood	719,663	119,417	103,814	16,476	1,778,600	110,188	16,476	0	0	0	108,177	8,268	983,666	75,381	0	329,730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	2,481,517	436,568	327,649	55,403	3,575,000	256,240	55,403	0	0	0	796,573	58,220	1,107,619	84,374	929	891,734	0	0	0	0	0	0	929	891,734	0	0	0	0	0	0	0	0	



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<b>South Carolina</b>																						
Softwood	1,278,841	230,218	192,497	33,865	3,344,400	211,499	286,444	19,643	50,216	3,445	0	3,753	502,423									
Hardwood	172,713	28,998	42,536	6,917	1,152,100	76,693	909	62	368,862	27,074	0	0	139,744									
<b>Total</b>	<b>1,451,555</b>	<b>259,216</b>	<b>235,033</b>	<b>40,782</b>	<b>4,496,500</b>	<b>288,193</b>	<b>287,353</b>	<b>19,704</b>	<b>419,078</b>	<b>30,519</b>	<b>0</b>	<b>3,753</b>	<b>642,167</b>									
<b>Virginia</b>																						
Softwood	708,775	119,898	67,900	8,180	1,285,800	86,095	668,762	49,007	121,038	4,803	0	1,443	269,426									
Hardwood	775,587	128,337	23,887	8,398	1,351,300	102,464	132,077	10,033	751,896	43,037	0	429	292,698									
<b>Total</b>	<b>1,484,362</b>	<b>248,234</b>	<b>91,787</b>	<b>16,578</b>	<b>2,637,100</b>	<b>188,559</b>	<b>800,839</b>	<b>59,040</b>	<b>872,935</b>	<b>47,840</b>	<b>0</b>	<b>1,872</b>	<b>562,124</b>									
<b>All Southeast states</b>																						
Softwood	6,992,079	1,268,415	981,668	166,147	15,197,400	1,126,235	2,351,474	169,934	431,607	27,156	0	59,135	2,817,022									
Hardwood	2,109,073	350,776	249,467	44,640	5,683,900	433,036	369,921	28,000	2,940,499	208,198	0	1,643	1,066,293									
<b>Total</b>	<b>9,101,152</b>	<b>1,619,191</b>	<b>1,231,136</b>	<b>210,786</b>	<b>20,881,300</b>	<b>1,559,271</b>	<b>2,721,395</b>	<b>197,934</b>	<b>3,372,107</b>	<b>235,354</b>	<b>0</b>	<b>60,778</b>	<b>3,883,315</b>									
<b>South Central</b>																						
<b>Alabama</b>																						
Softwood	2,071,227	372,789	482,796	82,537	5,129,765	364,182	0	0	41,030	2,913	0	43,386	865,807									
Hardwood	437,834	73,525	138,676	22,585	2,794,263	209,528	0	0	251,012	18,669	0	1,138	325,445									
<b>Total</b>	<b>2,509,061</b>	<b>446,314</b>	<b>621,472</b>	<b>105,122</b>	<b>7,924,028</b>	<b>573,711</b>	<b>0</b>	<b>0</b>	<b>292,043</b>	<b>21,581</b>	<b>0</b>	<b>44,524</b>	<b>1,191,252</b>									
<b>Arkansas</b>																						
Softwood	1,558,463	280,497	501,651	87,275	1,767,000	142,879	410,827	29,817	382,593	27,768	0	3,045	571,280									
Hardwood	575,141	95,436	30,639	4,857	1,350,100	91,761	2,716	206	2,527	191	0	41	192,491									
<b>Total</b>	<b>2,133,604</b>	<b>375,933</b>	<b>532,290</b>	<b>92,132</b>	<b>3,117,100</b>	<b>234,639</b>	<b>413,543</b>	<b>30,023</b>	<b>385,120</b>	<b>27,959</b>	<b>0</b>	<b>3,086</b>	<b>763,772</b>									
<b>Kentucky</b>																						
Softwood	28,028	5,157	510	86	56,900	3,343	0	0	946	69	0	2,571	11,225									
Hardwood	916,070	150,176	33,301	5,308	263,200	21,382	0	0	261,551	19,904	0	11,563	208,333									
<b>Total</b>	<b>944,099</b>	<b>155,333</b>	<b>33,811</b>	<b>5,393</b>	<b>320,100</b>	<b>24,726</b>	<b>0</b>	<b>0</b>	<b>262,497</b>	<b>19,973</b>	<b>0</b>	<b>14,134</b>	<b>219,558</b>									
<b>Louisiana</b>																						
Softwood	1,340,149	255,947	774,701	133,232	3,532,000	203,277	369,351	26,216	22,548	1,601	0	7,506	627,779									
Hardwood	270,217	45,373	3,989	641	1,094,600	88,177	178,666	13,390	263,307	19,748	0	0	167,329									
<b>Total</b>	<b>1,610,365</b>	<b>301,320</b>	<b>778,690</b>	<b>133,873</b>	<b>4,626,600</b>	<b>291,454</b>	<b>548,017</b>	<b>39,606</b>	<b>285,855</b>	<b>21,349</b>	<b>0</b>	<b>7,506</b>	<b>795,107</b>									
<b>Mississippi</b>																						
Softwood	3,031,288	557,500	411,593	70,360	3,254,800	178,862	409,665	29,729	24,142	1,752	0	1,595	839,798									
Hardwood	437,648	76,997	36,107	5,862	1,691,700	139,218	108,717	8,140	113,853	8,539	0	0	238,756									
<b>Total</b>	<b>3,468,936</b>	<b>634,497</b>	<b>447,700</b>	<b>76,222</b>	<b>4,946,500</b>	<b>318,079</b>	<b>518,382</b>	<b>37,869</b>	<b>137,995</b>	<b>10,290</b>	<b>0</b>	<b>1,595</b>	<b>1,078,554</b>									
<b>Oklahoma</b>																						
Softwood	353,703	63,660	59,839	10,410	231,800	29,472	0	0	2,244	163	0	2,215	105,919									
Hardwood	42,717	7,085	0	0	209,900	24,866	0	0	122,079	9,355	0	0	41,306									
<b>Total</b>	<b>396,421</b>	<b>70,744</b>	<b>59,839</b>	<b>10,410</b>	<b>441,700</b>	<b>54,338</b>	<b>0</b>	<b>0</b>	<b>124,322</b>	<b>9,518</b>	<b>0</b>	<b>2,215</b>	<b>147,225</b>									

**Table 19—Volume of roundwood products by region, state, species group, and type of product, United States, 2005 (continued)**

Region, state, and species group	Roundwood products															
	Saw logs		Veneer logs		Pulpwood		Composite products		Fuelwood		Posts, poles, pilings		Other products		All products	
	MBF <sup>a</sup>	MCF <sup>b</sup>	MBF	MCF	Cords	MCF	Cords	MCF	Cords	MCF	Cords	MCF	MCF	MCF	MCF	MCF
<b>Tennessee</b>																
Softwood	116,141	20,846	1,646	286	551,600	48,965	0	0	39,105	2,837	0	0	13,019	85,954		
Hardwood	816,083	152,369	9,471	1,497	1,060,300	88,152	0	0	323,365	24,781	0	0	447	267,246		
Total	932,224	173,215	11,116	1,784	1,611,900	137,117	0	0	362,470	27,618	0	0	13,466	353,200		
<b>Texas</b>																
Softwood	1,362,415	220,884	1,074,727	174,227	1,501,800	172,262	0	0	7,843	569	0	0	1,321	569,264		
Hardwood	306,767	51,394	123	20	1,115,800	91,245	0	0	74,792	5,710	0	0	0	148,369		
Total	1,669,182	272,278	1,074,850	174,247	2,617,600	263,507	0	0	82,635	6,279	0	0	1,321	717,632		
<b>All South Central states</b>																
Softwood	9,861,414	1,777,280	3,307,463	558,413	16,025,665	1,143,242	1,189,843	85,762	520,452	37,671	0	0	74,658	3,677,026		
Hardwood	3,802,477	652,355	252,306	40,770	9,579,863	754,329	290,099	21,735	1,412,485	106,897	0	0	13,189	1,589,275		
Total	13,663,891	2,429,634	3,559,769	599,183	25,605,528	1,897,571	1,479,942	107,498	1,932,937	144,567	0	0	87,847	5,266,300		
<b>Rocky Mountain North</b>																
<b>Idaho</b>																
Softwood	1,020,850	244,691	157,161	12,404	99,287	7,943	0	0	119,595	7,882	0	0	16,503	289,423		
Hardwood	640	100	0	0	0	0	0	0	36,394	2,911	0	0	0	3,011		
Total	1,021,490	244,791	157,161	12,404	99,287	7,943	0	0	155,988	10,793	0	0	16,503	292,434		
<b>Montana</b>																
Softwood	0	148,899	113,828	22,585	31,403	2,512	0	0	289,927	6,333	0	0	6,139	186,468		
Hardwood	0	1	0	0	0	0	0	0	24,527	1,962	0	0	0	1,963		
Total	0	148,900	113,828	22,585	31,403	2,512	0	0	314,454	8,295	0	0	6,139	188,431		
<b>All Rocky Mountains North States</b>																
Softwood	1,554,717	393,590	270,989	34,989	130,690	10,455	0	0	409,522	14,215	0	0	22,642	475,891		
Hardwood	647	101	0	0	0	0	0	0	60,920	4,874	0	0	0	4,975		
Total	1,555,364	393,691	270,989	34,989	130,690	10,455	0	0	470,442	19,089	0	0	22,642	480,866		
<b>Rocky Mountain South</b>																
<b>Arizona</b>																
Softwood	66,489	11,852	0	0	7,569	606	0	0	213,881	26,562	0	0	251	39,271		
Hardwood	0	0	0	0	0	0	0	0	56,285	4,503	0	0	0	4,503		
Total	66,489	11,852	0	0	7,569	606	0	0	270,166	31,065	0	0	251	43,773		
<b>Colorado</b>																
Softwood	66,255	12,620	0	0	0	0	0	0	407,829	19,980	0	0	1,866	34,466		
Hardwood	6,990	1,203	0	0	0	0	0	0	100,335	8,027	0	0	1,508	10,738		
Total	73,245	13,823	0	0	0	0	0	0	508,164	28,007	0	0	3,374	45,204		
<b>Nevada</b>																
Softwood	4,710	902	0	0	0	0	0	0	38,327	9,483	0	0	2	10,387		
Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	4,710	902	0	0	0	0	0	0	38,327	9,483	0	0	2	10,387		

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New Mexico	Softwood	70,692	12,063	0	0	8,276	651	0	0	144,220	8,238	0	1,419	22,371
	Hardwood	0	0	0	0	0	0	0	0	2,771	2,771	0	416	3,187
	Total	70,692	12,063	0	0	8,276	651	0	0	146,991	11,009	0	1,835	25,557
Utah	Softwood	21,193	3,910	0	0	0	0	0	0	56,605	7,954	0	2,018	13,882
	Hardwood	247	41	0	0	0	0	0	0	12,025	962	0	109	1,112
	Total	21,440	3,951	0	0	0	0	0	0	68,630	8,916	0	2,126	14,993
Wyoming	Softwood	60,411	0	0	0	0	0	0	0	103,672	3,022	0	1,805	4,827
	Hardwood	0	0	0	0	0	0	0	0	34,279	2,486	0	0	2,486
	Total	60,411	0	0	0	0	0	0	0	137,951	5,508	0	1,805	7,312
All Rocky Mountain South States	Softwood	289,750	41,347	0	0	15,846	1,256	0	0	964,533	75,239	0	7,360	125,203
	Hardwood	7,237	1,244	0	0	0	0	0	0	205,695	18,748	0	2,033	22,025
	Total	296,987	42,591	0	0	15,846	1,256	0	0	1,170,228	93,987	0	9,393	147,227
Pacific Southwest California	Softwood	1,713,354	328,229	141,685	27,143	0	0	0	3,941	1,425,011	198,210	0	608	558,131
	Hardwood	0	0	714	127	0	0	0	0	724,828	60,400	0	0	60,526
	Total	1,713,354	328,229	142,399	27,270	0	0	0	3,941	2,149,839	258,610	0	608	618,657
Pacific Northwest Oregon	Softwood	3,234,974	772,070	943,538	220,453	37,790	3,048	17,895	1,443	467,236	61,834	0	17,782	1,076,630
	Hardwood	22,830	4,951	58,004	11,109	23,706	1,912	0	0	299,277	24,939	0	0	42,910
	Total	3,257,804	777,021	1,001,542	231,562	61,496	4,959	17,895	1,443	766,512	86,773	0	17,782	1,119,540
Washington	Softwood	3,584,521	855,494	220,200	51,449	163,693	15,551	0	0	534,415	67,839	0	3,914	994,246
	Hardwood	244,516	45,062	13,033	2,442	0	0	0	0	399,962	33,329	0	0	80,832
	Total	3,829,037	900,556	233,233	53,891	163,693	15,551	0	0	934,377	101,168	0	3,914	1,075,079

**Table 19—Volume of roundwood products by region, state, species group, and type of product, United States, 2005 (continued)**

Region, state, and species group	Roundwood products															
	Saw logs		Veneer logs		Pulpwood		Composite products		Fuelwood		Posts, poles, pilings		Other products		All products	
	MBF <sup>a</sup>	MCF <sup>b</sup>	MBF	MCF	Cords	MCF	Cords	MCF	Cords	MCF	MCF	MCF	MCF	MCF	MCF	
<b>All Pacific</b>																
<b>Northwest States</b>																
Softwood	6,819,495	1,627,564	1,163,738	271,902	201,483	18,598	17,895	1,443	1,001,650	129,673	0	21,696	2,070,876			
Hardwood	267,346	50,013	71,037	13,551	23,706	1,912	0	0	699,239	58,267	0	0	123,743			
Total	7,086,841	1,677,576	1,234,775	285,453	225,189	20,510	17,895	1,443	1,700,889	187,940	0	21,696	2,194,619			
<b>All Regions</b>																
<b>All States</b>																
Softwood	30,261,466	5,933,336	5,880,579	1,060,967	35,022,881	2,578,088	3,717,743	273,570	5,361,087	528,561	0	210,651	10,585,172			
Hardwood	11,712,919	1,940,878	1,007,516	177,036	26,343,073	1,909,368	3,720,520	291,234	14,703,355	1,647,795	0	51,323	6,017,636			
Total	41,974,385	7,874,214	6,888,096	1,238,004	61,365,954	4,487,457	7,438,263	564,804	20,064,442	2,176,356	0	261,974	16,602,808			

SOURCE: Harvest estimation system (HES).

<sup>a</sup> MBF is thousand board feet.

<sup>b</sup> MCF is thousand cubic feet.

**Table 20a—Roundwood products in Northeast Region, United States, 1996**

State and species group	Volume ( $\times 10^6$ ft <sup>3</sup> )			
	Sawlogs	Pulpwood	Miscellaneous	Fuelwood
<b>Connecticut</b>	—	—	—	—
Softwood	3,302	252	39	51
Hardwood	6,996	1	—	16,770
Total	10,298	253	39	16,821

**Table 20b—Roundwood products in Northeast Region, United States, 2005**

State and species group	Volume ( $\times 10^6$ ft <sup>3</sup> )			
	Sawlogs	Pulpwood	Miscellaneous	Fuelwood
<b>Connecticut</b>	—	—	—	—
Softwood	4,343	157	35	48
Hardwood	7,180	1	—	21,963
Total	11,523	158	35	22,011

Source: Johnson 2001.

**Table 21a—Northeast Regional Summary of roundwood products in United States, 1996**

Species group	Volume ( $\times 10^6$ ft <sup>3</sup> )					
	Sawlogs	Veneer logs	Pulpwood	Composites	Miscellaneous	Fuelwood
Softwood	259,284	2,571	214,365	179	15,086	32,529
Hardwood	454,809	37,243	309,519	1,940	17,589	667,285
Total	714,093	39,814	523,884	2,119	32,675	699,814

Source: Johnson 2001.

**Table 21b—Northeast Regional Summary of roundwood products in United States, 2005**

Species group	Volume ( $\times 10^6$ ft <sup>3</sup> )					
	Sawlogs	Veneer logs	Pulpwood	Composites	Miscellaneous	Fuelwood
Softwood	341,043	2,374	133,886	266	13,444	30,614
Hardwood	466,767	46,770	249,280	2,757	16,255	873,917
Total	807,810	49,143	383,166	3,023	29,698	904,531

**Table 22—Volume of roundwood products and species group, United States, 1996 and 2005**

Product and species group	Volume ( $\times 10^6$ ft <sup>3</sup> )			Change (%)
	1996 <sup>a</sup>	2005 <sup>b</sup>	Change	
Saw logs				
Softwood	5,217,784	5,933,336	715,552	13.7
Hardwood	1,959,956	1,940,878	– 19,078	– 1.0
Total	7,177,740	7,874,214	696,474	9.7
Veneer logs				
Softwood	1,046,687	1,060,967	14,280	1.4
Hardwood	171,413	177,036	5,623	3.3
Total	1,218,100	1,238,004	19,903	1.6
Pulpwood				
Softwood	2,823,915	2,578,088	– 245,826	– 8.7
Hardwood	2,242,491	1,909,368	– 333,123	– 14.9
Total	5,066,405	4,487,457	– 578,949	– 11.4
Other industrial				
Softwood	328,402	484,221	155,819	47.4
Hardwood	292,562	342,557	49,995	17.1
Total	620,964	826,778	205,814	33.1
All industrial				
Softwood	9,416,787	10,056,612	639,825	6.8
Hardwood	4,666,423	4,369,841	– 296,582	– 6.4
Total	14,083,210	14,426,452	343,243	2.4
Fuelwood				
Softwood	487,131	528,561	41,429	8.5
Hardwood	2,015,947	1,647,795	– 368,152	– 18.3
Total	2,503,078	2,176,356	– 326,723	– 13.1
All products				
Softwood	9,903,918	10,585,172	681,254	6.9
Hardwood	6,682,370	6,017,636	– 664,734	– 9.9
Total	16,586,288	16,602,808	16,520	0.1

<sup>a</sup> Johnson 2001.<sup>b</sup> Howard 2007.

**Table 23—Volume of roundwood products and species group, United States, projections for 2006 through 2010**

Product and species group	Volume ( $\times 10^6$ ft <sup>3</sup> )				
	2006	2007 <sup>a</sup>	2008	2009	2010
<b>Saw logs</b>					
Softwood	5,979,199	6,073,288	6,232,013	6,398,191	6,481,931
Hardwood	1,940,878	1,968,787	1,986,419	2,009,198	2,024,988
Total	7,920,077	8,042,075	8,218,432	8,407,389	8,506,920
<b>Veneer logs</b>					
Softwood	1,060,967	1,044,737	1,028,435	1,011,727	991,601
Hardwood	177,036	177,301	177,566	178,725	179,693
Total	1,238,004	1,222,038	1,206,001	1,190,453	1,171,294
<b>Pulpwood</b>					
Softwood	2,547,045	2,561,483	2,575,823	2,594,021	2,604,298
Hardwood	2,033,757	2,068,953	2,106,510	2,139,114	2,161,042
Total	4,580,802	4,630,436	4,682,333	4,733,135	4,765,340
<b>Other industrial</b>					
Softwood	484,221	530,939	576,608	628,855	676,482
Hardwood	342,557	377,932	408,177	439,682	469,441
Total	826,778	908,871	984,785	1,068,537	1,145,923
<b>All industrial</b>					
Softwood	10,071,431	10,210,447	10,412,878	10,632,794	10,754,312
Hardwood	4,494,229	4,592,973	4,678,672	4,766,719	4,835,164
Total	14,565,661	14,803,419	15,091,550	15,399,513	15,589,477
<b>Fuelwood</b>					
Softwood	528,334	524,281	517,763	511,561	505,504
Hardwood	1,647,852	1,611,659	1,567,816	1,524,835	1,478,171
Total	2,176,185	2,135,939	2,085,579	2,036,396	1,983,675
<b>All products</b>					
Softwood	10,599,765	10,734,727	10,930,642	11,144,355	11,259,816
Hardwood	6,142,081	6,204,632	6,246,488	6,291,554	6,313,335
Total	16,741,846	16,939,359	17,177,129	17,435,909	17,573,151

Howard 2007.

**Table 24—Difference between North Central Region actual timber product output (TPO) and harvest estimation system TPO, Wisconsin 1997–2005**

	Difference (%)					
	Sawlogs		Veneer logs		Pulpwood	
	Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
1999	0.2	-0.1	1.0	-0.4	0.2	0.3
2003	-0.2	0.0	1.0	-1.3	-0.1	0.3

**Table 25—Difference between Southeast Region actual timber product output (TPO) and harvest estimation system TPO, Georgia 1997–2005**

	Difference (%)					
	Sawlogs		Veneer Logs		Pulpwood	
	Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
1995	5.3	1.0	-7.4	-3.1	-8.0	-11.3
1997	—	—	6.0	—	-1.9	-8.2
1999	—	—	6.6	—	7.2	-11.3
2005	-5.6	-3.3	-3.3	-3.3	3.0	9.4

**Table 26—Difference between South Central Region actual timber product output (TPO) and harvest estimation system TPO, Alabama 1997–2005**

	Difference (%)					
	Sawlogs		Veneer logs		Pulpwood	
	Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
1995	2.2	-1.2	1.5	—	-9.5	3.2
1997	-1.0	-9.7	-1.9	—	8.2	—
1999	0.1	-0.9	8.8	—	-1.7	-12.3
2005	-0.3	-4.3	-3.8	-6.0	2.3	2.3



