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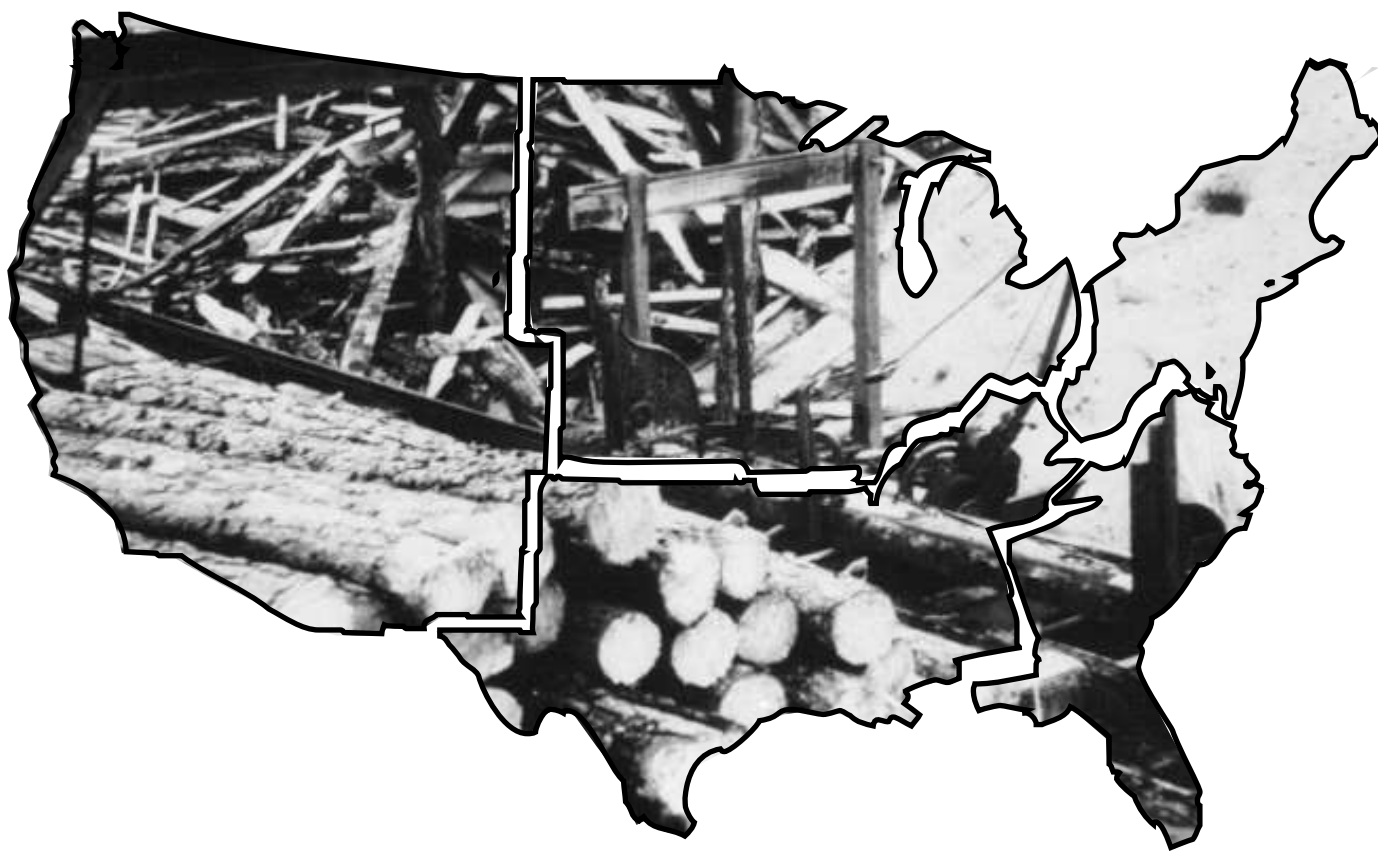
Forest
Products
Laboratory

General
Technical
Report
FPL-GTR-115



United States Pulpwood Receipts Softwood and Hardwood, Roundwood and Residues, 1950-1996

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Abstract

This report shows pulpwood receipts at wood pulp mills in the United States for the period 1950 to 1996. It is an update of the General Technical Report FPL–GTR–73, “United States Pulpwood Receipts: Softwood and Hardwood, Roundwood and Residues, 1950–1989,” published in 1993. This report continues as a compilation of published and estimated data based on information from various sources, including the American Pulpwood Association and the USDA Forest Service. Data are presented for the Northeast, North Central, total north, Southeast, South Central, total south, and total west regions of the United States, in both cords and cubic meters. Trends are also shown in the use of hardwoods compared with softwoods and residues compared with roundwood. These historical data were compiled to help develop new pulpwood supply functions for the North American Pulp and Paper Model of the USDA Forest Service.

Keywords: Pulpwood receipts, U.S. regions, softwood, hardwood, roundwood, residues.

Acknowledgments

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United States Pulpwood Receipts

Softwood and Hardwood, Roundwood and Residues, 1950–1996

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Introduction

The following data are a compilation of pulpwood receipts at wood pulp mills in the United States by species and form: softwood roundwood, softwood residues, hardwood roundwood, and hardwood residues. These data are the base values used in the North American Pulp and Paper Model (NAPAP model), which projects equilibrium supplies and demand of pulpwood in the United States as mandated by the Forest and Rangeland Renewable Resource Planning Act (RPA) of 1974. This compilation is an update of the General Technical Report published in 1993 (Ingram and others 1993) for pulpwood receipts from 1950 to 1989. Since the previous publication, regional definitions have changed and annual data and metric equivalents have been added.

Description of Data

In the United States, pulpwood data are collected by several sources. Over time, some sources are discontinued, some modify their survey methods and presentation formats, and some new sources of data appear. In compiling this type of data, all these factors must be recognized and reflected in the data series to maintain a consistent representation of trends in pulpwood receipts.

Most published data are based on surveys organized by state and later compiled into regions, or groups of states, reflecting similar raw materials, silviculture, industry perspective, and geopolitical boundaries. The regional groups used by the sources of data for this report are defined in Appendix A.

The data for this report are compiled from several annual series of pulpwood production, consumption, and receipts in the United States. These sources include the USDA Forest Service (FS) Southern Research Station (SRS) and the American Pulpwood Association (APA). The U.S. Department of Commerce, Bureau of the Census (BOC), published an annual series of industrial statistics for primary

manufacturing sectors from 1917 until it was discontinued after 1989 (BOC 1964–1989).

The USDA FS publishes annual pulpwood production reports in the North Central, Northeastern, and Southern regions. Most of these reports have data for pulpwood receipts in the roundwood and residues categories. However, the type of survey used to collect the data varies by region, and some regions overstate total pulp mill receipts, such as the data from the North Central lake states (Blythe and Smith 1982). Reports for the western region are less constant, and some of the data cover a shorter time period than required by this report.

The SRS publishes data on production and, more recently, receipts of pulpwood received in pulp mills in the 13 southern states as defined by the FS. These data are available on the production of softwood roundwood and residues and hardwood roundwood and residues by state from 1953. Since 1996, the quantity of receipts attributed to each state has been reported as well.

The APA publishes annual data of the pulpwood industry by species group (softwood and hardwood) and form (roundwood and residues). The APA data were published in standard cords (see Appendix B for units and conversion factors) from 1950 to 1994. From 1995 to the present, the APA data were published in green tons. We converted APA data to cords using a conversion factor of 2.65 green tons per standard cord for all species and regions.

Derivation of Data

The derivation of the data can be divided into three sections: 1, the Northeast, North Central, and West from 1950 to 1989; 2, the Northeast, North Central, and West from 1990 to 1996; and 3, the Southeast (or South Atlantic) and South Central from 1953 to 1996.

A detailed derivation of the data for section 1 can be found in General Technical Report FPL-GTR-73 (Ingram and others 1993). Recent data requirements for the RPA have resulted in increased aggregation of the western states. The original pulpwood receipts series included data for five subregions in the West. The western states represented in the total west are the same in both publications. Because the BOC data series was discontinued after 1989, the APA data for the Northeast, North Central, and West regions from 1990 to 1996 were used.

The data for the southern regions are based on the SRS data reports, which provide a data series for more than 30 years. The trends of this data series are consistent with other indicators of pulpwood use in the region, such as wood pulp production. Inconsistencies between these indicators and the APA data for the South were not apparent; therefore, the SRS data were used for the U.S. South for 1953 to 1996.

The regional groups used by the FS are consistent with regions used by the APA except for Maryland. The APA places Maryland in the Southeast or South Atlantic region whereas the FS accounts for it in the Northeast region. Data for Maryland were subtracted from the Southeast in the APA data and added to the Northeast for 1990 to 1996. Data for Maryland from 1950 to 1989 were previously included in the Northeast region (Ingram and others 1993).

Data in Tables 1 to 8 are for softwood roundwood and residues and hardwood roundwood and residues. The data are listed directly from the various sources, with the modifications mentioned above. Data in Tables 9 to 24 are calculated directly from Tables 1 to 8 as subtotals by type of raw material and species group, respectively, and totals by region. Data in Tables 25, 26, 28, 29, and 31 are calculated directly from Tables 1, 2, 4, 5, and 7, respectively, using the conversion factors listed in Appendix B. Tables 27, 30, and 32 are calculated directly from Tables 25, 26, 28, 29, and 31.

Reports of pulpwood consumption and receipts reflect different definitions of residues (i.e., manufacturing versus forest residues), different regional aggregations of states as discussed above, as well as the choice of different conversion factors. These differences may lead to slight disparities in statistics compared with the data in this report. For example, the APA data show an increase in total pulpwood receipts in the U.S. South from 1986 to 1994 of about 20 million cords, whereas the Forest Service data for receipts and industry wood pulp production show an increase of about 8 million cords.

In Appendix C, an alternative set of data for total pulpwood receipts in the United States is based upon the use of a fixed assumption (85 ft³ per standard cord for all U.S. regions) to convert cubic feet into a standard cord before conversion to cubic meters. This fixed assumption (compared with using

the regional conversion factors of Appendix B, as in this report) is made by the American Pulpwood Association. Readers are urged to study these differences in sources and conversion factors relative to their own objectives before applying the data.

Application of Data

The pulpwood receipts data in this report are regarded as approximately equivalent to domestic consumption of pulpwood at wood pulp mills. Domestic supply of pulpwood (equivalent to pulpwood harvest plus supply of pulpwood in the form of mill residues) is computed by adding pulpwood export data to the receipts data and subtracting pulpwood imports. Pulpwood trade data are gathered by the U.S. Department of Commerce and published by the Foreign Agriculture Service (FAS) (FAS 1997).

Professor Darius Adams of Oregon State University has used the regional pulpwood receipts data and national trade data to compute an approximation of regional pulpwood supply data, which he used to estimate regional pulpwood supply functions for the 1998 RPA Timber Assessment. The same regional pulpwood supply data (unpublished) were used to calibrate the NAPAP Model. The NAPAP Model is an economic model of the pulp and paper sectors of the United States and Canada. The NAPAP Model simulates and projects regional market equilibria (prices and quantities) for pulpwood in North America. The NAPAP Model is run in conjunction with the Timber Assessment Market Model (TAMM) (solid wood sector model), and the ATLAS Model (of timber growth and inventory) to produce timber market projections for the RPA Timber Assessment.

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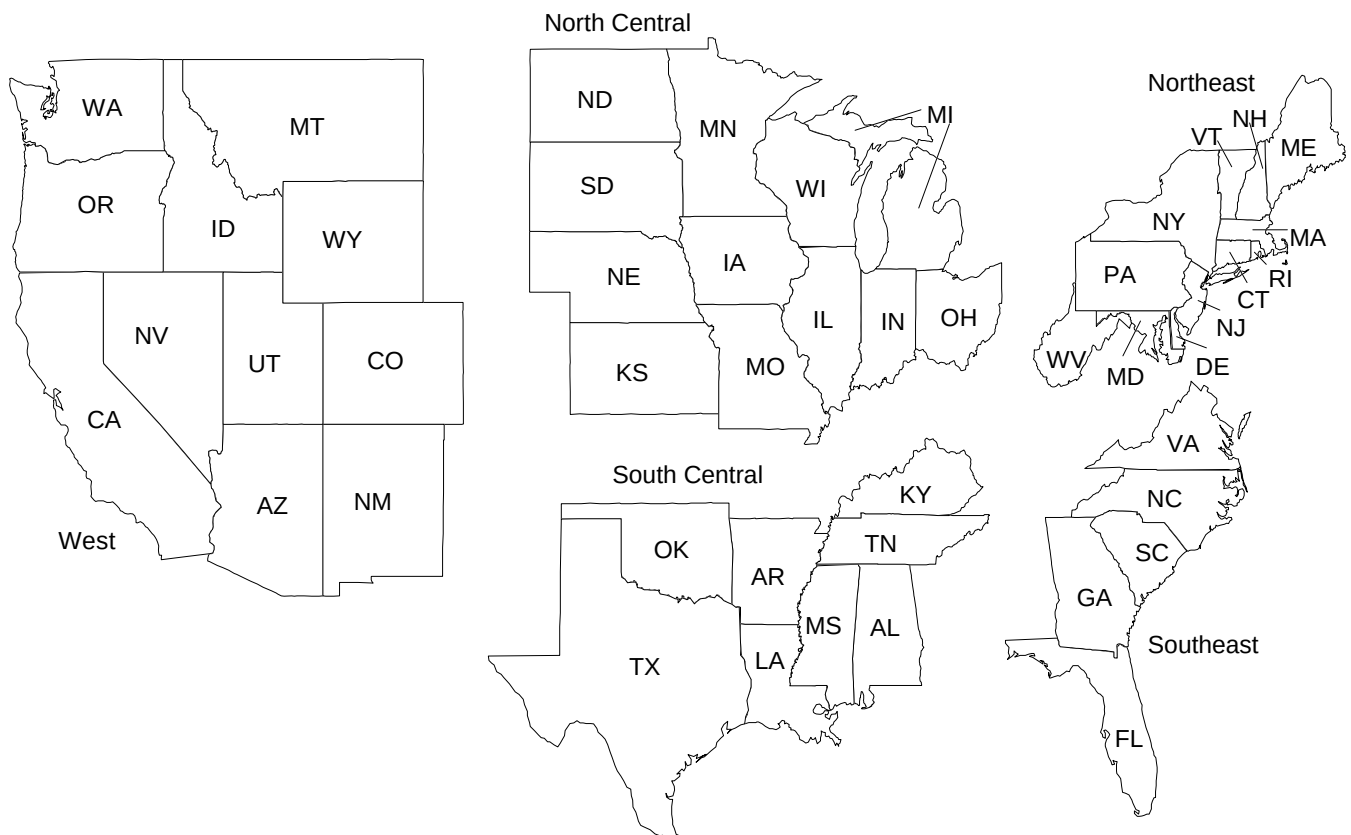


Figure 1—USDA Forest Service RPA Assessment Regions (excluding Alaska and Hawaii).

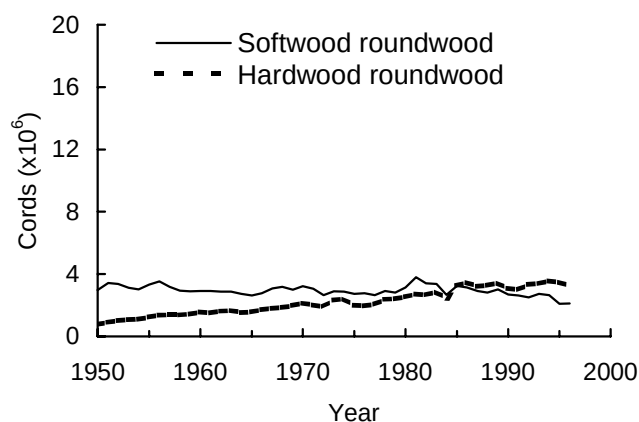


Figure 2—Total softwood and total hardwood roundwood, pulpwood receipts, for Northeast region.

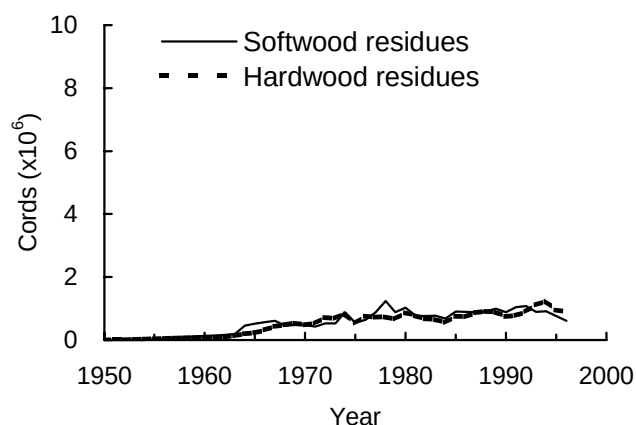


Figure 3—Total softwood and total hardwood residues, pulpwood receipts, for Northeast region.

Table 1—Total pulpwood receipts for U.S Northeast region, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cords)			
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues
1950	2,978.7	0.0	774.0	0.0
1951	3,428.0	0.0	913.3	6.7
1952	3,370.0	0.0	1,029.0	13.0
1953	3,132.0	0.0	1,083.5	19.5
1954	3,044.8	0.8	1,099.7	25.8
1955	3,335.3	24.7	1,249.4	36.2
1956	3,543.1	51.8	1,359.1	46.9
1957	3,195.7	70.1	1,381.8	55.5
1958	2,942.6	86.5	1,381.9	63.3
1959	2,897.5	107.0	1,440.3	74.3
1960	2,913.1	129.9	1,582.2	90.8
1961	2,919.1	141.7	1,525.2	99.0
1962	2,880.9	169.4	1,634.0	103.6
1963	2,881.7	194.9	1,670.3	138.6
1964	2,729.1	468.9	1,529.4	203.6
1965	2,633.8	523.5	1,567.3	225.0
1966	2,771.7	568.8	1,726.1	324.6
1967	3,102.3	614.1	1,799.1	434.3
1968	3,196.8	466.3	1,862.0	480.1
1969	2,993.5	479.8	1,989.0	537.3
1970	3,230.6	485.4	2,150.1	483.7
1971	3,081.9	428.9	2,021.9	528.9
1972	2,656.0	527.7	1,913.9	720.5
1973	2,894.3	534.9	2,335.7	692.7
1974	2,885.2	890.2	2,401.9	839.8
1975	2,725.4	548.0	2,008.9	531.9
1976	2,768.9	641.3	1,976.3	755.1
1977	2,660.5	870.8	2,064.3	731.9
1978	2,920.1	1,243.5	2,384.5	738.7
1979	2,820.5	891.9	2,423.4	660.5
1980	3,149.5	1,038.2	2,546.2	875.0
1981	3,814.3	779.1	2,739.2	776.3
1982	3,423.1	766.5	2,676.9	669.2
1983	3,378.3	781.9	2,842.8	653.1
1984	2,672.8	684.8	2,466.5	560.1
1985	3,245.5	910.0	3,268.6	759.8
1986	3,150.3	905.9	3,480.0	740.1
1987	2,929.1	886.8	3,216.9	875.5
1988	2,822.7	909.3	3,286.5	908.2
1989	3,038.5	1,000.1	3,428.0	888.9
1990	2,686.0	888.0	3,101.0	746.0
1991	2,641.0	1,057.0	3,017.0	774.0
1992	2,504.0	1,080.0	3,335.0	905.0
1993	2,737.0	904.0	3,406.0	1,118.0
1994	2,651.0	918.0	3,574.0	1,239.0
1995	2,105.0	768.0	3,492.0	959.3
1996	2,124.0	612.0	3,271.0	894.6

^aData for 1950–1967 represent consumption.

See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993); 1990–1996 from American Pulpwood Association (1996a,b, 1997).

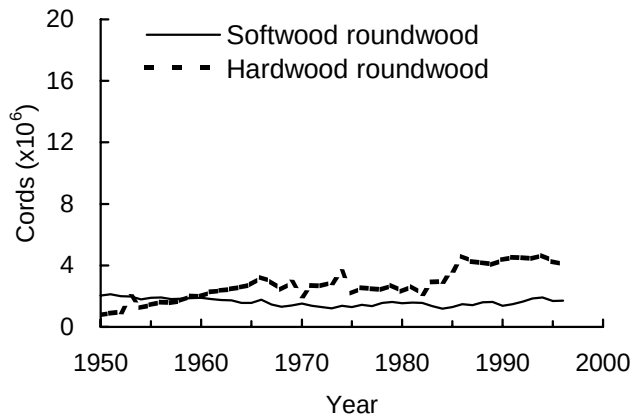


Figure 4—Total softwood and total hardwood roundwood, pulpwood receipts, for North Central region.

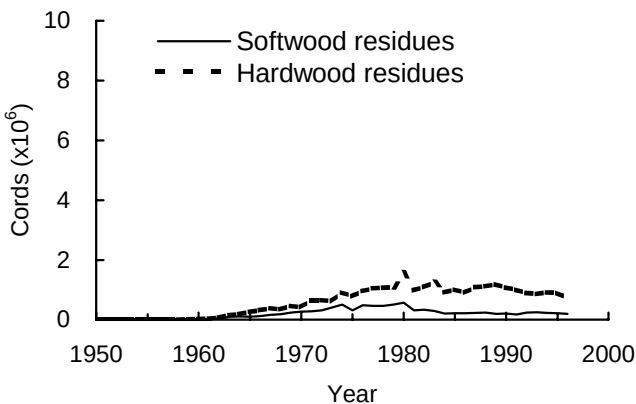


Figure 5—Total softwood and total hardwood residues, pulpwood receipts, for North Central region.

Table 2—Total pulpwood receipts for U.S. North Central region, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cords)			
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues
1950	2,035.6	0.0	787.0	0.0
1951	2,136.2	0.0	902.0	0.0
1952	2,000.0	0.0	994.0	0.0
1953	1,973.0	0.0	1,954.0	0.0
1954	1,794.1	0.0	1,263.7	0.0
1955	1,907.4	0.0	1,446.9	0.0
1956	1,913.2	0.0	1,614.8	0.0
1957	1,819.3	0.0	1,581.2	0.0
1958	1,837.5	0.0	1,706.3	0.0
1959	1,879.8	0.0	2,026.3	4.9
1960	1,901.0	1.0	2,005.0	20.0
1961	1,800.6	7.0	2,279.0	31.0
1962	1,747.7	45.0	2,372.0	68.0
1963	1,722.9	96.0	2,475.6	152.0
1964	1,569.3	103.0	2,583.0	186.7
1965	1,558.5	96.2	2,760.4	264.1
1966	1,768.2	128.3	3,226.2	322.2
1967	1,472.8	161.2	2,973.8	383.6
1968	1,306.6	184.4	2,432.5	342.7
1969	1,399.6	238.1	2,895.7	460.0
1970	1,520.1	269.0	2,039.2	416.4
1971	1,398.1	276.0	2,705.1	658.0
1972	1,289.2	306.7	2,680.7	658.8
1973	1,220.4	405.0	2,895.3	621.0
1974	1,379.2	500.1	3,603.6	917.9
1975	1,288.2	313.1	2,188.8	783.9
1976	1,447.7	486.9	2,548.3	958.1
1977	1,350.3	463.9	2,502.1	1,048.0
1978	1,568.9	461.1	2,426.4	1,065.8
1979	1,634.7	498.9	2,730.5	1,091.8
1980	1,532.8	571.9	2,294.8	1,569.9
1981	1,588.0	317.6	2,645.7	985.3
1982	1,568.5	336.0	2,170.0	1,085.4
1983	1,341.8	292.2	2,932.8	1,255.6
1984	1,195.6	197.8	2,963.8	914.6
1985	1,290.1	218.9	3,683.8	1,016.6
1986	1,480.0	219.4	4,614.3	906.4
1987	1,421.4	235.2	4,259.1	1,089.4
1988	1,614.5	241.1	4,191.2	1,116.1
1989	1,645.8	188.1	4,056.7	1,184.8
1990	1,387.0	205.0	4,379.0	1,081.0
1991	1,484.0	176.0	4,522.0	1,007.0
1992	1,655.0	240.0	4,513.0	897.0
1993	1,865.0	248.0	4,454.0	854.0
1994	1,924.0	234.0	4,670.0	914.0
1995	1,701.0	225.1	4,264.0	892.4
1996	1,713.0	188.1	4,095.0	718.6

^aData for 1950–1967 represent consumption.

See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993); 1990–1996 from American Pulpwood Association (1996a,b, 1997).

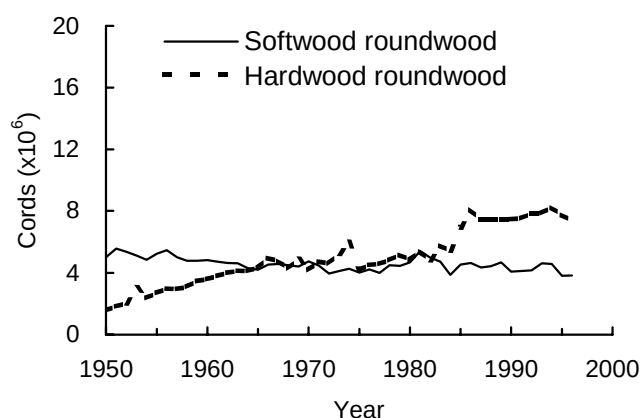


Figure 6—Total softwood and total hardwood roundwood, pulpwood receipts, for all north regions.

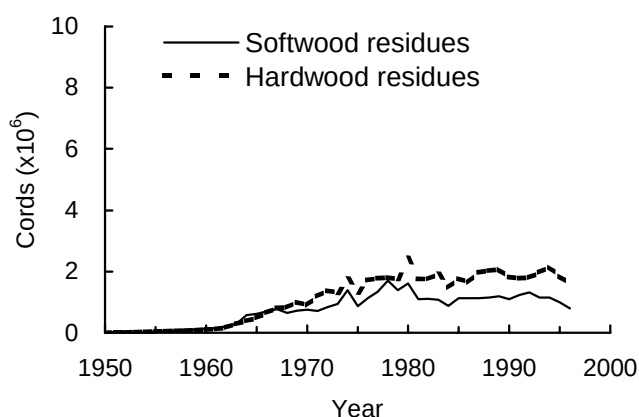


Figure 7—Total softwood and total hardwood residues, pulpwood receipts, for all north regions.

Table 3—Total pulpwood receipts for all U.S. north regions, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cords)			
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues
1950	5,014.3	0.0	1,561.0	0.0
1951	5,564.2	0.0	1,815.3	6.7
1952	5,370.0	0.0	2,023.0	13.0
1953	5,105.0	0.0	3,037.5	19.5
1954	4,838.9	0.8	2,363.5	25.8
1955	5,242.7	24.7	2,696.3	36.2
1956	5,456.3	51.8	2,973.8	46.9
1957	5,015.0	70.1	2,963.0	55.5
1958	4,780.1	86.5	3,088.2	63.3
1959	4,777.2	107.0	3,466.6	79.2
1960	4,814.1	130.9	3,587.2	110.8
1961	4,719.6	148.7	3,804.3	130.0
1962	4,628.6	214.4	4,006.0	171.6
1963	4,604.6	290.9	4,145.9	290.6
1964	4,298.4	571.9	4,112.4	390.4
1965	4,192.3	619.7	4,327.6	489.1
1966	4,539.9	697.1	4,952.2	646.8
1967	4,575.0	775.3	4,772.9	817.9
1968	4,503.5	650.7	4,294.6	822.8
1969	4,393.2	717.9	4,884.7	997.3
1970	4,750.7	754.4	4,189.3	900.1
1971	4,480.0	704.9	4,727.0	1,186.9
1972	3,945.2	834.4	4,594.6	1,379.4
1973	4,114.7	939.9	5,231.0	1,313.7
1974	4,264.3	1,390.3	6,005.4	1,757.7
1975	4,013.6	861.1	4,197.7	1,315.8
1976	4,216.7	1,128.3	4,524.6	1,713.2
1977	4,010.8	1,334.7	4,566.4	1,779.9
1978	4,489.0	1,704.6	4,811.0	1,804.5
1979	4,455.3	1,390.8	5,153.9	1,752.3
1980	4,682.3	1,610.1	4,841.0	2,444.9
1981	5,402.2	1,096.7	5,384.9	1,761.5
1982	4,991.6	1,102.4	4,846.8	1,754.7
1983	4,720.1	1,074.1	5,775.6	1,908.7
1984	3,868.5	882.6	5,430.3	1,474.7
1985	4,535.6	1,128.9	6,952.4	1,776.3
1986	4,630.3	1,125.2	8,094.3	1,646.5
1987	4,350.5	1,122.0	7,476.0	1,964.8
1988	4,437.2	1,150.3	7,477.7	2,024.3
1989	4,684.3	1,188.2	7,484.7	2,073.7
1990	4,073.0	1,093.0	7,480.0	1,827.0
1991	4,125.0	1,233.0	7,539.0	1,781.0
1992	4,159.0	1,320.0	7,848.0	1,802.0
1993	4,602.0	1,152.0	7,860.0	1,972.0
1994	4,575.0	1,152.0	8,244.0	2,153.0
1995	3,806.0	993.1	7,756.0	1,851.7
1996	3,837.0	800.1	7,366.0	1,613.2

^aData for 1950–1967 represent consumption.

See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993); 1990–1996 from American Pulpwood Association (1996a,b, 1997).

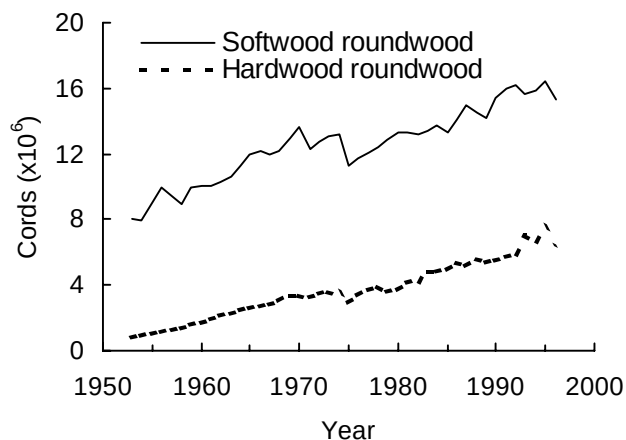


Figure 8—Total softwood and total hardwood roundwood, pulpwood receipts, for Southeast region.

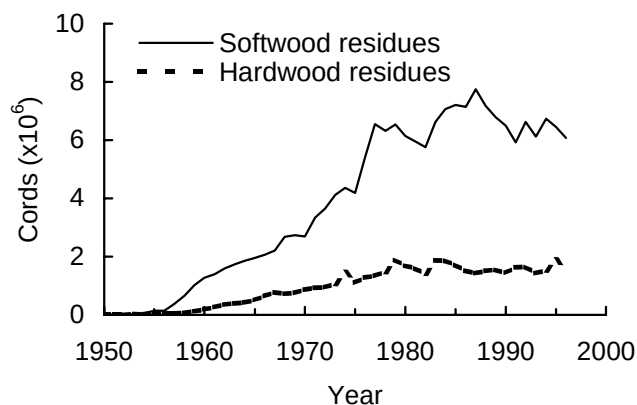


Figure 9—Total softwood and total hardwood residues, pulpwood receipts, for Southeast region.

Table 4—Total pulpwood receipts for U.S. Southeast region, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cords)			
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues
1950	—	—	—	—
1951	—	—	—	—
1952	—	—	—	—
1953	7,990.2	15.6	806.3	25.6
1954	7,964.2	46.3	851.6	21.9
1955	9,075.9	145.0	1,005.8	65.0
1956	9,983.1	142.0	1,095.9	51.2
1957	9,366.7	378.4	1,190.5	48.2
1958	8,945.0	667.4	1,344.1	65.0
1959	9,905.0	1,018.3	1,616.7	116.1
1960	10,108.9	1,272.7	1,730.1	191.9
1961	10,034.4	1,401.2	1,937.2	258.0
1962	10,333.8	1,590.6	2,102.9	353.6
1963	10,575.3	1,744.1	2,208.9	396.2
1964	11,254.1	1,864.5	2,429.5	424.2
1965	11,925.6	1,955.4	2,554.1	507.0
1966	12,161.3	2,066.1	2,689.2	643.7
1967	11,919.2	2,210.7	2,811.5	773.8
1968	12,130.7	2,671.5	3,058.7	727.3
1969	12,928.3	2,738.4	3,365.8	756.2
1970	13,645.7	2,695.1	3,309.1	867.5
1971	12,307.8	3,344.3	3,215.1	926.6
1972	12,715.8	3,649.7	3,437.7	941.9
1973	13,075.7	4,121.2	3,625.1	1,071.0
1974	13,194.9	4,370.9	3,465.7	1,453.9
1975	11,326.2	4,185.9	2,900.8	1,101.8
1976	11,689.6	5,411.2	3,398.6	1,279.4
1977	12,116.2	6,547.4	3,634.7	1,333.0
1978	12,396.9	6,314.7	3,960.6	1,482.3
1979	12,802.1	6,535.3	3,548.4	1,894.3
1980	13,256.4	6,144.6	3,718.5	1,686.3
1981	13,349.8	5,952.3	4,189.4	1,598.8
1982	13,221.5	5,759.0	4,219.5	1,415.9
1983	13,358.8	6,629.7	4,761.1	1,867.9
1984	13,796.5	7,060.2	4,853.4	1,859.7
1985	13,262.5	7,216.5	4,901.8	1,715.3
1986	14,064.7	7,141.9	5,402.6	1,522.9
1987	14,997.7	7,750.3	5,187.2	1,424.4
1988	14,477.0	7,174.8	5,540.4	1,506.4
1989	14,197.6	6,793.9	5,316.1	1,547.0
1990	15,408.7	6,495.2	5,477.5	1,434.3
1991	16,017.0	5,925.7	5,710.4	1,632.9
1992	16,255.5	6,631.6	5,864.6	1,649.2
1993	15,649.0	6,130.4	7,052.9	1,429.6
1994	15,828.4	6,737.1	6,711.7	1,533.3
1995	16,434.7	6,447.8	7,461.7	1,896.2
1996	15,335.3	6,072.4	6,523.0	1,456.4

^aSee Appendix A for description of regions.

Sources: Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

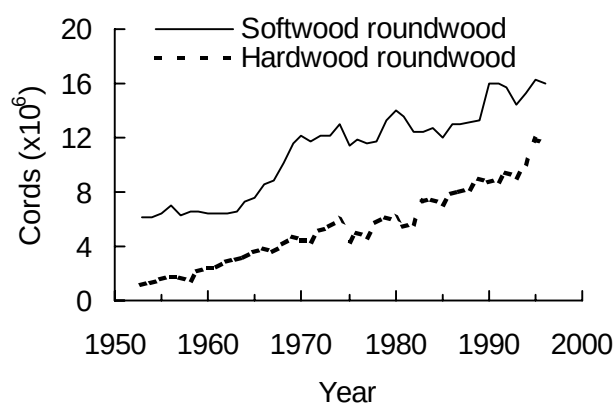


Figure 10—Total softwood and total hardwood roundwood, pulpwood receipts, for South Central region.

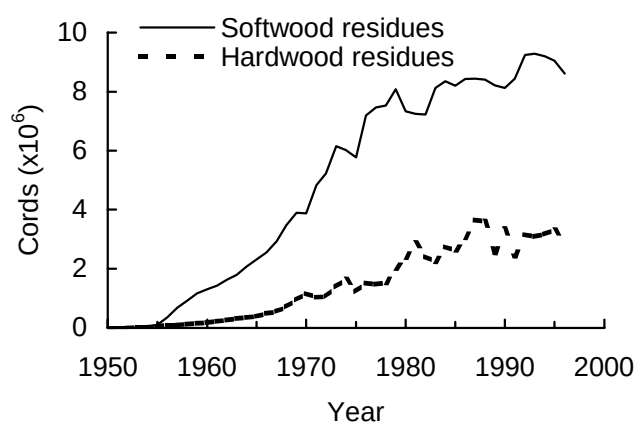


Figure 11—Total softwood and total hardwood residues, pulpwood receipts, for South Central region.

Table 5—Total pulpwood receipts for U.S. South Central region, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cords)			
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues
1950	—	—	—	—
1951	—	—	—	—
1952	—	—	—	—
1953	6,157.4	12.4	1,173.1	22.3
1954	6,143.8	39.5	1,310.1	18.5
1955	6,411.8	114.0	1,521.2	50.1
1956	6,936.9	361.2	1,669.8	104.7
1957	6,346.9	680.0	1,675.6	96.4
1958	6,557.8	921.6	1,600.5	131.4
1959	6,610.5	1,168.1	2,155.8	159.7
1960	6,382.0	1,310.9	2,374.5	180.0
1961	6,486.5	1,431.0	2,460.9	221.5
1962	6,433.3	1,636.6	2,866.8	268.7
1963	6,539.8	1,797.5	3,005.1	324.1
1964	7,266.1	2,081.3	3,159.0	347.1
1965	7,560.4	2,321.8	3,573.8	392.7
1966	8,616.5	2,562.7	3,832.7	489.0
1967	8,845.4	2,934.9	3,596.0	559.6
1968	10,191.4	3,470.1	4,119.9	705.8
1969	11,527.2	3,908.2	4,689.3	955.6
1970	12,180.2	3,874.5	4,412.3	1,168.0
1971	11,772.9	4,830.6	4,479.5	1,037.0
1972	12,089.1	5,231.4	5,149.1	1,064.8
1973	12,183.7	6,153.8	5,485.6	1,390.5
1974	12,995.6	6,023.4	5,959.9	1,637.8
1975	11,423.5	5,775.4	4,392.6	1,229.4
1976	11,893.0	7,182.5	5,035.4	1,522.4
1977	11,541.1	7,454.0	4,755.1	1,477.3
1978	11,714.6	7,531.1	5,693.9	1,532.6
1979	13,337.5	8,074.4	6,118.3	2,025.1
1980	14,013.8	7,333.5	5,977.8	2,389.6
1981	13,586.4	7,247.8	5,492.3	2,887.7
1982	12,388.1	7,226.1	5,584.0	2,418.4
1983	12,401.5	8,127.9	7,228.9	2,237.4
1984	12,656.5	8,344.8	7,403.7	2,754.5
1985	11,968.3	8,198.8	7,085.3	2,629.4
1986	13,050.4	8,425.8	7,922.2	3,059.3
1987	12,984.3	8,440.3	7,995.0	3,655.5
1988	13,162.3	8,407.6	8,246.3	3,615.6
1989	13,281.6	8,209.9	9,022.9	2,544.4
1990	15,998.4	8,122.7	8,737.5	3,358.1
1991	15,994.3	8,438.4	8,928.5	2,434.8
1992	15,734.5	9,240.6	9,396.7	3,166.8
1993	14,476.8	9,276.0	9,163.4	3,093.3
1994	15,319.5	9,194.5	9,982.7	3,178.1
1995	16,229.1	9,039.0	11,875.4	3,309.5
1996	16,044.9	8,604.2	11,647.8	2,839.6

^aFrom 1953–1993, data for Kentucky are not included.

See Appendix A for description of regions.

Sources: Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

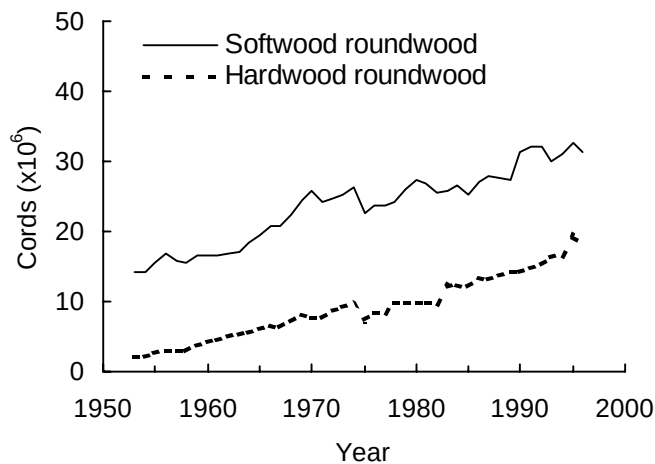


Figure 12—Total softwood and total hardwood roundwood, pulpwood receipts, for all south regions.

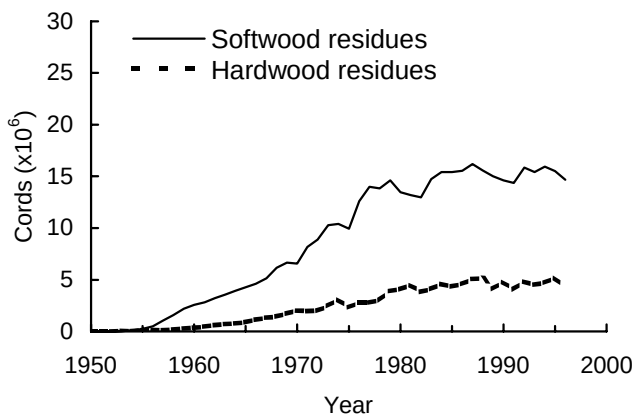


Figure 13—Total softwood and total hardwood residues, pulpwood receipts, for all south regions.

Table 6—Total pulpwood receipts for all U.S. south regions, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cords)			
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues
1950	—	—	—	—
1951	—	—	—	—
1952	—	—	—	—
1953	14,147.6	28.0	1,979.4	47.9
1954	14,108.0	85.8	2,161.7	40.4
1955	15,487.7	259.0	2,527.0	115.1
1956	16,920.0	503.2	2,765.7	155.9
1957	15,713.6	1,058.4	2,866.1	144.6
1958	15,502.8	1,589.0	2,944.6	196.4
1959	16,515.5	2,186.4	3,772.5	275.8
1960	16,490.9	2,583.6	4,104.6	371.9
1961	16,520.9	2,832.2	4,398.1	479.5
1962	16,767.1	3,227.2	4,969.7	622.3
1963	17,115.1	3,541.6	5,214.0	720.3
1964	18,520.2	3,945.8	5,588.5	771.3
1965	19,486.0	4,277.2	6,127.9	899.7
1966	20,777.8	4,628.8	6,521.9	1,132.7
1967	20,764.6	5,145.6	6,407.5	1,333.4
1968	22,322.1	6,141.6	7,178.6	1,433.1
1969	24,455.5	6,646.6	8,055.1	1,711.8
1970	25,825.9	6,569.6	7,721.4	2,035.5
1971	24,080.7	8,174.9	7,694.6	1,963.6
1972	24,804.9	8,881.1	8,586.8	2,006.7
1973	25,259.4	10,275.0	9,110.7	2,461.5
1974	26,190.5	10,394.3	9,425.6	3,091.7
1975	22,749.7	9,961.3	7,293.4	2,331.2
1976	23,582.6	12,593.7	8,434.0	2,801.8
1977	23,657.3	14,001.4	8,389.8	2,810.3
1978	24,111.5	13,845.8	9,654.5	3,014.9
1979	26,139.6	14,609.7	9,666.7	3,919.4
1980	27,270.2	13,478.1	9,696.3	4,075.9
1981	26,936.2	13,200.1	9,681.7	4,486.5
1982	25,609.6	12,985.1	9,803.5	3,834.3
1983	25,760.3	14,757.6	11,990.0	4,105.3
1984	26,453.0	15,405.0	12,257.1	4,614.2
1985	25,230.8	15,415.3	11,987.1	4,344.7
1986	27,115.1	15,567.7	13,324.8	4,582.2
1987	27,982.0	16,190.6	13,182.2	5,079.9
1988	27,639.3	15,582.4	13,786.7	5,122.0
1989	27,479.2	15,003.8	14,339.0	4,091.4
1990	31,407.1	14,617.9	14,215.0	4,792.4
1991	32,011.3	14,364.1	14,638.9	4,067.7
1992	31,990.0	15,872.2	15,261.3	4,816.0
1993	30,125.8	15,406.4	16,216.3	4,522.9
1994	31,147.9	15,931.6	16,694.5	4,711.3
1995	32,663.7	15,486.8	19,337.1	5,205.7
1996	31,380.2	14,676.6	18,170.8	4,296.0

^aFrom 1953–1993, data for Kentucky are not included in South Central region.

See Appendix A for description of regions.

Sources: Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

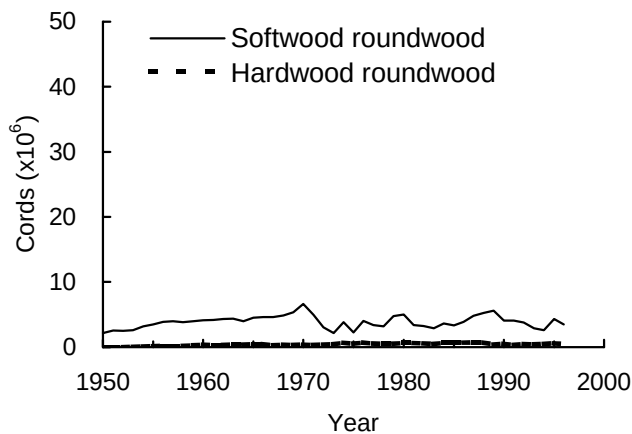


Figure 14—Total softwood and total hardwood roundwood, pulpwood receipts, for all west regions.

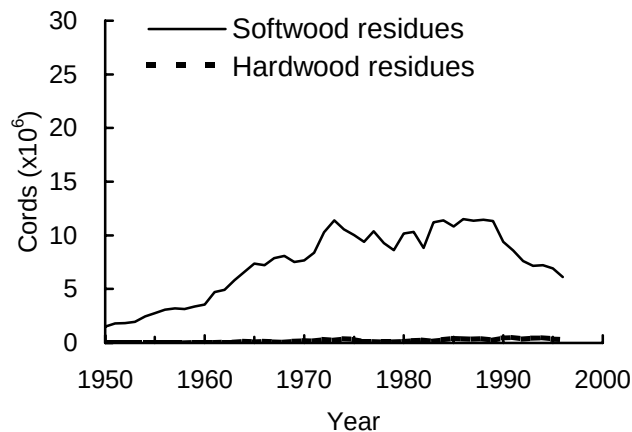


Figure 15—Total softwood and total hardwood residues, pulpwood receipts, for all west regions.

Table 7—Total pulpwood receipts for all U.S. west regions, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cords)			
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues
1950	2,157.9	1,531.2	0.0	0.0
1951	2,527.1	1,800.1	0.0	0.0
1952	2,509.2	1,839.1	21.5	0.0
1953	2,573.7	1,939.5	25.3	0.1
1954	3,187.4	2,473.7	75.3	1.1
1955	3,495.5	2,761.3	115.2	2.7
1956	3,852.2	3,090.2	166.9	5.7
1957	3,951.1	3,218.8	169.2	7.5
1958	3,814.5	3,158.7	182.6	10.1
1959	4,007.4	3,380.6	267.3	17.8
1960	4,138.4	3,558.2	364.3	28.5
1961	4,198.8	4,717.3	318.6	37.3
1962	4,322.7	4,936.9	301.5	43.6
1963	4,378.4	5,849.3	373.6	54.1
1964	3,959.4	6,609.9	363.2	133.3
1965	4,522.3	7,378.3	472.6	91.1
1966	4,581.8	7,227.1	435.8	151.9
1967	4,627.3	7,863.4	293.7	92.6
1968	4,864.8	8,098.5	371.5	52.6
1969	5,390.3	7,535.0	320.6	149.0
1970	6,635.4	7,657.5	344.4	192.9
1971	4,971.8	8,400.7	341.1	179.3
1972	3,033.7	10,305.1	345.6	305.6
1973	2,121.7	11,406.2	431.5	225.4
1974	3,813.5	10,559.0	695.0	369.4
1975	2,272.2	10,022.3	502.3	300.7
1976	4,056.4	9,377.8	712.3	107.1
1977	3,354.1	10,379.3	559.3	128.7
1978	3,177.9	9,267.7	477.9	93.7
1979	4,793.7	8,608.9	489.6	84.9
1980	4,988.5	10,188.6	628.2	127.3
1981	3,346.8	10,343.1	637.8	190.7
1982	3,228.2	8,835.0	613.4	257.0
1983	2,932.5	11,221.8	433.8	149.5
1984	3,623.7	11,388.6	691.0	288.4
1985	3,330.4	10,829.4	662.0	406.8
1986	3,884.4	11,495.0	674.4	362.2
1987	4,839.1	11,362.6	708.4	332.1
1988	5,282.1	11,440.3	719.3	368.1
1989	5,591.5	11,322.1	345.7	227.5
1990	4,079.0	9,376.0	504.0	472.0
1991	4,077.0	8,584.0	310.0	515.0
1992	3,769.0	7,604.0	462.0	335.0
1993	2,893.0	7,145.0	425.0	439.0
1994	2,589.0	7,205.0	448.0	476.0
1995	4,308.0	6,914.9	584.0	350.4
1996	3,521.0	6,118.4	477.0	304.0

^aData for 1950–1967 represent consumption.

See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993);

1990–1996 from American Pulpwood Association (1996a,b, 1997).

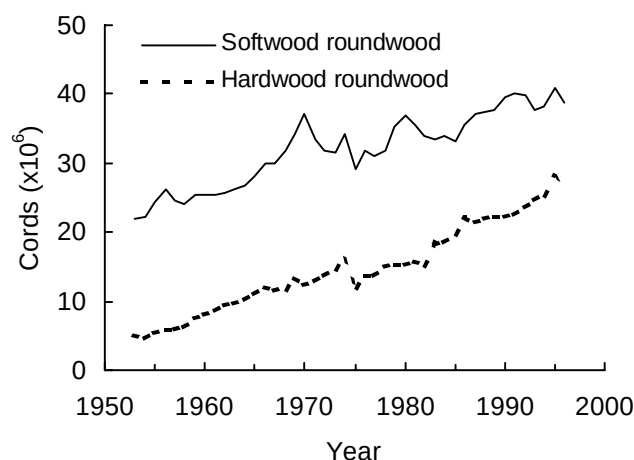


Figure 16—Total softwood and total hardwood roundwood, pulpwood receipts, for all U.S. regions.

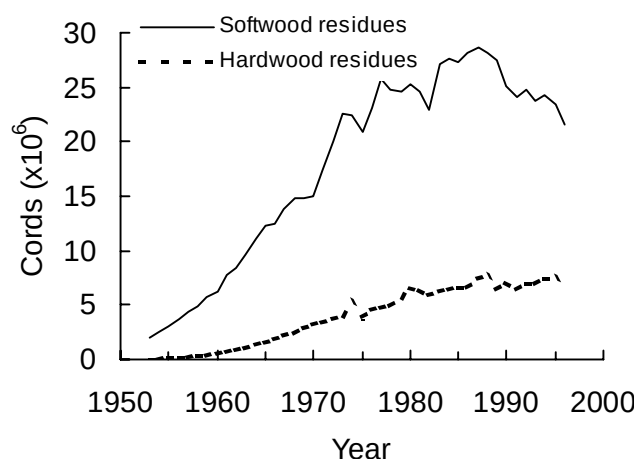


Figure 17—Total softwood and total hardwood residues, pulpwood receipts, for all U.S. regions.

Table 8—Total pulpwood receipts for all U.S. regions, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cords)			
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues
1950	—	—	—	—
1951	—	—	—	—
1952	—	—	—	—
1953	21,826.3	1,967.5	5,042.1	67.5
1954	22,134.2	2,560.4	4,600.5	67.2
1955	24,225.9	3,045.0	5,338.5	154.0
1956	26,228.5	3,645.2	5,906.4	208.5
1957	24,679.7	4,347.4	5,998.3	207.6
1958	24,097.4	4,834.2	6,215.3	269.9
1959	25,300.1	5,674.0	7,506.4	372.8
1960	25,443.4	6,272.6	8,056.1	511.2
1961	25,439.3	7,698.2	8,520.9	646.8
1962	25,718.3	8,378.6	9,277.2	837.5
1963	26,098.1	9,681.8	9,733.5	1,065.0
1964	26,778.0	11,127.6	10,064.1	1,294.9
1965	28,200.6	12,275.2	10,928.1	1,479.8
1966	29,899.5	12,553.0	11,909.9	1,931.4
1967	29,967.0	13,784.3	11,474.1	2,243.9
1968	31,690.3	14,890.8	11,844.7	2,308.5
1969	34,238.9	14,899.5	13,260.4	2,858.1
1970	37,212.0	14,981.4	12,255.1	3,128.5
1971	33,532.5	17,280.4	12,762.7	3,329.9
1972	31,783.8	20,020.7	13,527.0	3,691.7
1973	31,495.8	22,621.2	14,773.2	4,000.5
1974	34,268.3	22,343.6	16,126.0	5,218.8
1975	29,035.4	20,844.7	11,993.3	3,947.7
1976	31,855.7	23,099.7	13,670.9	4,622.1
1977	31,022.2	25,715.4	13,515.5	4,718.9
1978	31,778.4	24,818.2	14,943.4	4,913.2
1979	35,388.6	24,609.4	15,310.2	5,756.7
1980	36,941.0	25,276.7	15,165.5	6,648.1
1981	35,685.3	24,639.9	15,704.4	6,438.7
1982	33,829.4	22,922.6	15,263.7	5,845.9
1983	33,412.9	27,053.5	18,199.4	6,163.5
1984	33,945.1	27,676.3	18,378.5	6,377.3
1985	33,096.7	27,373.6	19,601.5	6,527.8
1986	35,629.8	28,187.9	22,093.6	6,590.9
1987	37,171.6	28,675.2	21,366.6	7,376.9
1988	37,358.6	28,173.0	21,983.7	7,514.4
1989	37,754.9	27,514.1	22,169.4	6,392.6
1990	39,559.1	25,086.9	22,199.0	7,091.4
1991	40,213.3	24,181.1	22,487.9	6,363.7
1992	39,918.0	24,796.2	23,571.3	6,953.0
1993	37,620.8	23,703.4	24,501.3	6,933.9
1994	38,311.9	24,288.6	25,386.5	7,340.3
1995	40,777.7	23,394.8	27,677.1	7,407.7
1996	38,738.2	21,595.1	26,013.8	6,213.2

^aData for 1950–1967 represent consumption for all north and south regions. From 1953–1993, data for Kentucky not included in South Central region. See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993); 1990–1996 from American Pulpwood Association (1996a,b, 1997), Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

Table 9—Total roundwood and residue pulpwood receipts for U.S. Northeast region, 1950–1996^a

Year	Pulpwood receipts			
	Roundwood (x10 ³ cords)	Residues (x10 ³ cords)	Percentage residues	Total (x10 ³ cords)
1950	3,752.7	0.0	0	3,752.7
1951	4,341.3	6.7	0	4,348.0
1952	4,399.0	13.0	0	4,412.0
1953	4,215.5	19.5	0	4,235.0
1954	4,144.5	26.6	1	4,171.2
1955	4,584.8	60.9	1	4,645.6
1956	4,902.2	98.7	2	5,000.9
1957	4,577.5	125.6	3	4,703.1
1958	4,324.5	149.8	3	4,474.3
1959	4,337.8	181.3	4	4,519.1
1960	4,495.3	220.7	5	4,716.0
1961	4,444.3	240.7	5	4,685.0
1962	4,514.9	273.0	6	4,788.0
1963	4,551.9	333.4	7	4,885.4
1964	4,258.5	672.6	14	4,931.1
1965	4,201.1	748.4	15	4,949.5
1966	4,497.8	893.4	17	5,391.2
1967	4,901.4	1,048.4	18	5,949.8
1968	5,058.9	946.4	16	6,005.3
1969	4,982.5	1,017.1	17	5,999.6
1970	5,380.7	969.1	15	6,349.8
1971	5,103.8	957.8	16	6,061.6
1972	4,569.9	1,248.2	21	5,818.2
1973	5,230.0	1,227.6	19	6,457.7
1974	5,287.0	1,730.1	25	7,017.1
1975	4,734.2	1,079.9	19	5,814.1
1976	4,745.2	1,396.4	23	6,141.7
1977	4,724.8	1,602.7	25	6,327.5
1978	5,304.6	1,982.2	27	7,286.8
1979	5,243.9	1,552.4	23	6,796.3
1980	5,695.7	1,913.2	25	7,608.9
1981	6,553.4	1,555.4	19	8,108.8
1982	6,100.0	1,435.7	19	7,535.7
1983	6,221.2	1,435.0	19	7,656.2
1984	5,139.3	1,244.9	19	6,384.2
1985	6,514.0	1,669.8	20	8,183.8
1986	6,630.3	1,646.0	20	8,276.3
1987	6,146.0	1,762.3	22	7,908.3
1988	6,109.2	1,817.5	23	7,926.7
1989	6,466.5	1,888.9	23	8,355.4
1990	5,787.0	1,634.0	22	7,421.0
1991	5,658.0	1,831.0	24	7,489.0
1992	5,839.0	1,985.0	25	7,824.0
1993	6,143.0	2,022.0	25	8,165.0
1994	6,225.0	2,157.0	26	8,382.0
1995	5,597.0	1,727.3	24	7,324.3
1996	5,395.0	1,506.6	22	6,901.6

^aData for 1950–1967 represent consumption.
See Appendix A for description of regions.
Sources: 1950–1989 from Ingram and others (1993);
1990–1996 from American Pulpwood Association
(1996a,b, 1997).

Table 10—Total roundwood and residue pulpwood receipts for U.S. North Central region, 1950–1996^a

Year	Pulpwood receipts			
	Roundwood (x10 ³ cords)	Residues (x10 ³ cords)	Percentage residues	Total (x10 ³ cords)
1950	2,822.6	0.0	0	2,822.6
1951	3,038.2	0.0	0	3,038.2
1952	2,994.0	0.0	0	2,994.0
1953	3,927.0	0.0	0	3,927.0
1954	3,057.8	0.0	0	3,057.8
1955	3,354.3	0.0	0	3,354.3
1956	3,528.0	0.0	0	3,528.0
1957	3,400.6	0.0	0	3,400.6
1958	3,543.8	0.0	0	3,543.8
1959	3,906.0	4.9	0	3,910.9
1960	3,906.0	21.0	1	3,927.0
1961	4,079.6	38.0	1	4,117.6
1962	4,119.7	113.0	3	4,232.6
1963	4,198.5	248.0	6	4,446.5
1964	4,152.3	289.8	7	4,442.0
1965	4,318.8	360.3	8	4,679.2
1966	4,994.4	450.5	8	5,444.9
1967	4,446.6	544.7	11	4,991.3
1968	3,739.2	527.1	12	4,266.3
1969	4,295.3	698.1	14	4,993.4
1970	3,559.2	685.4	16	4,244.6
1971	4,103.2	934.0	19	5,037.2
1972	3,969.8	965.6	20	4,935.4
1973	4,115.7	1,026.0	20	5,141.7
1974	4,982.7	1,417.9	22	6,400.7
1975	3,477.0	1,097.0	24	4,574.0
1976	3,996.1	1,445.0	27	5,441.1
1977	3,852.4	1,511.9	28	5,364.3
1978	3,995.3	1,527.0	28	5,522.3
1979	4,365.3	1,590.7	27	5,956.0
1980	3,827.6	2,141.8	36	5,969.4
1981	4,233.7	1,302.8	24	5,536.5
1982	3,738.4	1,421.4	28	5,159.8
1983	4,274.6	1,547.7	27	5,822.3
1984	4,159.5	1,112.4	21	5,271.9
1985	4,973.9	1,235.5	20	6,209.4
1986	6,094.3	1,125.8	16	7,220.2
1987	5,680.4	1,324.5	19	7,004.9
1988	5,805.7	1,357.2	19	7,162.9
1989	5,702.5	1,373.0	19	7,075.5
1990	5,766.0	1,286.0	18	7,052.0
1991	6,006.0	1,183.0	16	7,189.0
1992	6,168.0	1,137.0	16	7,305.0
1993	6,319.0	1,102.0	15	7,421.0
1994	6,594.0	1,148.0	15	7,742.0
1995	5,965.0	1,117.5	16	7,082.5
1996	5,808.0	906.7	14	6,714.7

^aData for 1950–1967 represent consumption.
See Appendix A for description of regions.
Sources: 1950–1989 from Ingram and others (1993);
1990–1996 from American Pulpwood Association
(1996a,b, 1997).

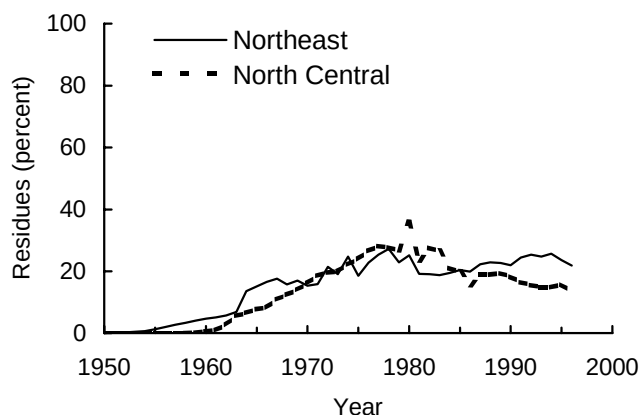


Figure 18—Percentage residues of total pulpwood receipts for Northeast and North Central regions.

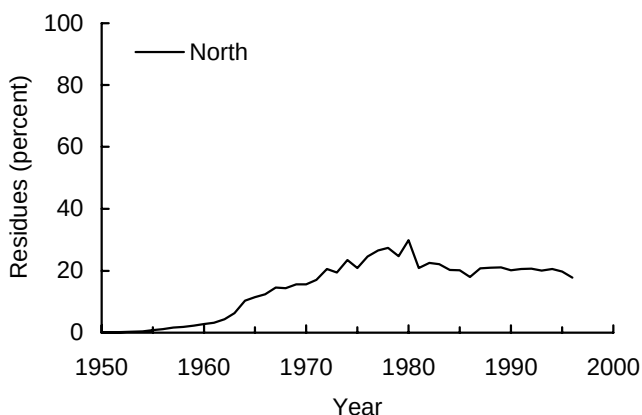


Figure 19—Percentage residues of total pulpwood receipts for all north regions.

Table 11—Total roundwood and residue pulpwood receipts for all U.S. north regions, 1950–1996^a

Year	Pulpwood receipts			
	Roundwood (x10 ³ cords)	Residues (x10 ³ cords)	Percentage residues	Total (x10 ³ cords)
1950	6,575.3	0.0	0	6,575.3
1951	7,379.5	6.7	0	7,386.2
1952	7,393.0	13.0	0	7,406.0
1953	8,142.5	19.5	0	8,162.0
1954	7,202.3	26.6	0	7,229.0
1955	7,939.0	60.9	1	7,999.9
1956	8,430.2	98.7	1	8,528.9
1957	7,978.1	125.6	2	8,103.7
1958	7,868.2	149.8	2	8,018.1
1959	8,243.8	186.2	2	8,430.1
1960	8,401.3	241.7	3	8,643.0
1961	8,523.9	278.8	3	8,802.6
1962	8,634.6	386.0	4	9,020.6
1963	8,750.5	581.4	6	9,331.9
1964	8,410.8	962.3	10	9,373.1
1965	8,519.9	1,108.8	12	9,628.7
1966	9,492.2	1,343.9	12	10,836.1
1967	9,348.0	1,593.1	15	10,941.1
1968	8,798.0	1,473.5	14	10,271.5
1969	9,277.9	1,715.1	16	10,993.0
1970	8,940.0	1,654.4	16	10,594.4
1971	9,207.0	1,891.8	17	11,098.8
1972	8,539.8	2,213.8	21	10,753.6
1973	9,345.8	2,253.6	19	11,599.4
1974	10,269.8	3,148.0	23	13,417.8
1975	8,211.3	2,176.9	21	10,388.1
1976	8,741.3	2,841.5	25	11,582.8
1977	8,577.2	3,114.6	27	11,691.8
1978	9,299.9	3,509.2	27	12,809.1
1979	9,609.2	3,143.1	25	12,752.3
1980	9,523.3	4,055.0	30	13,578.2
1981	10,787.1	2,858.2	21	13,645.3
1982	9,838.4	2,857.1	23	12,695.5
1983	10,495.7	2,982.7	22	13,478.5
1984	9,298.8	2,357.3	20	11,656.1
1985	11,487.9	2,905.3	20	14,393.2
1986	12,724.6	2,771.8	18	15,496.4
1987	11,826.5	3,086.8	21	14,913.3
1988	11,914.9	3,174.7	21	15,089.5
1989	12,169.0	3,261.9	21	15,430.9
1990	11,553.0	2,920.0	20	14,473.0
1991	11,664.0	3,014.0	21	14,678.0
1992	12,007.0	3,122.0	21	15,129.0
1993	12,462.0	3,124.0	20	15,586.0
1994	12,819.0	3,305.0	20	16,124.0
1995	11,562.0	2,844.8	20	14,406.8
1996	11,203.0	2,413.3	18	13,616.3

^aData for 1950–1967 represent consumption.

See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993);
1990–1996 from American Pulpwood Association
(1996a,b, 1997).

Table 12—Total roundwood and residue pulpwood receipts for U.S. Southeast region, 1950–1996^a

Year	Pulpwood receipts			
	Roundwood (x10 ³ cords)	Residues (x10 ³ cords)	Percentage residues	Total (x10 ³ cords)
1950	—	—	—	—
1951	—	—	—	—
1952	—	—	—	—
1953	8,796.5	41.2	0	8,837.7
1954	8,815.8	68.2	1	8,884.0
1955	10,081.7	210.0	2	10,291.7
1956	11,079.0	193.2	2	11,272.2
1957	10,557.2	426.6	4	10,983.8
1958	10,289.1	732.4	7	11,021.5
1959	11,521.7	1,134.4	9	12,656.1
1960	11,839.0	1,464.6	11	13,303.6
1961	11,971.6	1,659.2	12	13,630.8
1962	12,436.7	1,944.2	14	14,380.9
1963	12,784.2	2,140.3	14	14,924.5
1964	13,683.6	2,288.7	14	15,972.3
1965	14,479.7	2,462.4	15	16,942.1
1966	14,850.5	2,709.8	15	17,560.3
1967	14,730.7	2,984.5	17	17,715.2
1968	15,189.4	3,398.8	18	18,588.2
1969	16,294.1	3,494.6	18	19,788.7
1970	16,954.8	3,562.6	17	20,517.4
1971	15,522.9	4,270.9	22	19,793.8
1972	16,153.5	4,591.6	22	20,745.1
1973	16,700.8	5,192.2	24	21,893.0
1974	16,660.6	5,824.8	26	22,485.4
1975	14,227.0	5,287.7	27	19,514.7
1976	15,088.2	6,690.6	31	21,778.8
1977	15,750.9	7,880.4	33	23,631.3
1978	16,357.5	7,797.0	32	24,154.5
1979	16,350.5	8,429.6	34	24,780.1
1980	16,974.9	7,830.9	32	24,805.8
1981	17,539.2	7,551.1	30	25,090.3
1982	17,441.0	7,174.9	29	24,615.9
1983	18,119.9	8,497.6	32	26,617.5
1984	18,649.9	8,919.9	32	27,569.8
1985	18,164.3	8,931.8	33	27,096.1
1986	19,467.3	8,664.8	31	28,132.1
1987	20,184.9	9,174.7	31	29,359.6
1988	20,017.4	8,681.2	30	28,698.6
1989	19,513.7	8,340.9	30	27,854.6
1990	20,886.2	7,929.5	28	28,815.7
1991	21,727.4	7,558.6	26	29,286.0
1992	22,120.1	8,280.8	27	30,400.9
1993	22,701.9	7,560.0	25	30,261.9
1994	22,540.1	8,270.4	27	30,810.5
1995	23,896.4	8,344.0	26	32,240.4
1996	21,858.3	7,528.8	26	29,387.1

^aSee Appendix A for description of regions.

Sources: Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

Table 13—Total roundwood and residue pulpwood receipts for U.S. South Central region, 1950–1996^a

Year	Pulpwood receipts			
	Roundwood (x10 ³ cords)	Residues (x10 ³ cords)	Percentage residues	Total (x10 ³ cords)
1950	—	—	—	—
1951	—	—	—	—
1952	—	—	—	—
1953	7,330.5	34.7	0	7,365.2
1954	7,453.9	58.0	1	7,511.9
1955	7,933.0	164.1	2	8,097.1
1956	8,606.7	465.9	5	9,072.6
1957	8,022.5	776.4	9	8,798.9
1958	8,158.3	1,053.0	11	9,211.3
1959	8,766.3	1,327.8	13	10,094.1
1960	8,756.5	1,490.9	15	10,247.4
1961	8,947.4	1,652.5	16	10,599.9
1962	9,300.1	1,905.3	17	11,205.4
1963	9,544.9	2,121.6	18	11,666.5
1964	10,425.1	2,428.4	19	12,853.5
1965	11,134.2	2,714.5	20	13,848.7
1966	12,449.2	3,051.7	20	15,500.9
1967	12,441.4	3,494.5	22	15,935.9
1968	14,311.3	4,175.9	23	18,487.2
1969	16,216.5	4,863.8	23	21,080.3
1970	16,592.5	5,042.5	23	21,635.0
1971	16,252.4	5,867.6	27	22,120.0
1972	17,238.2	6,296.2	27	23,534.4
1973	17,669.3	7,544.3	30	25,213.6
1974	18,955.5	7,661.2	29	26,616.7
1975	15,816.1	7,004.8	31	22,820.9
1976	16,928.4	8,704.9	34	25,633.3
1977	16,296.2	8,931.3	35	25,227.5
1978	17,408.5	9,063.7	34	26,472.2
1979	19,455.8	10,099.5	34	29,555.3
1980	19,991.6	9,723.1	33	29,714.7
1981	19,078.7	10,135.5	35	29,214.2
1982	17,972.1	9,644.5	35	27,616.6
1983	19,630.4	10,365.3	35	29,995.7
1984	20,060.2	11,099.3	36	31,159.5
1985	19,053.6	10,828.2	36	29,881.8
1986	20,972.6	11,485.1	35	32,457.7
1987	20,979.3	12,095.8	37	33,075.1
1988	21,408.6	12,023.2	36	33,431.8
1989	22,304.5	10,754.3	33	33,058.8
1990	24,735.9	11,480.8	32	36,216.7
1991	24,922.8	10,873.2	30	35,796.0
1992	25,131.2	12,407.4	33	37,538.6
1993	23,640.2	12,369.3	34	36,009.5
1994	25,302.3	12,372.5	33	37,674.8
1995	28,104.4	12,348.5	31	40,452.9
1996	27,692.7	11,443.8	29	39,136.5

^aFrom 1953–1993, data for Kentucky are not included.

See Appendix A for description of regions.

Sources: Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

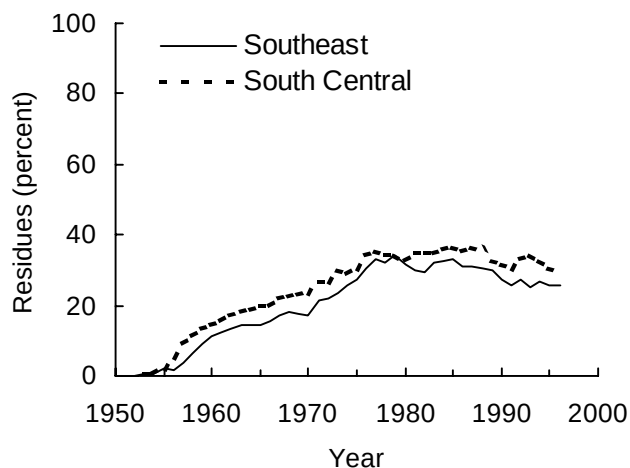


Figure 20—Percentage residues of total pulpwood receipts for Southeast and South Central regions.

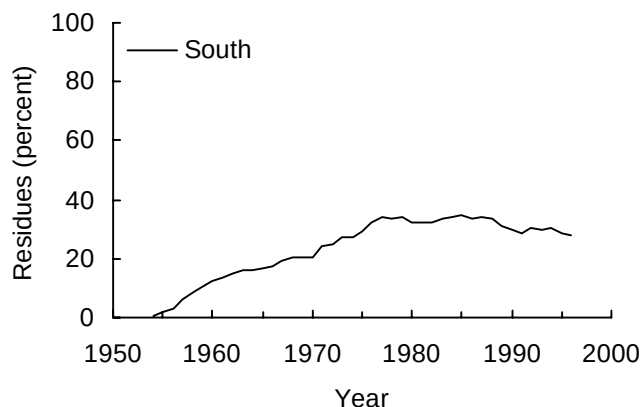


Figure 21—Percentage residues of total pulpwood receipts for all south regions.

Table 14—Total roundwood and residue pulpwood receipts for all U.S. south regions, 1950–1996^a

Year	Pulpwood receipts			
	Roundwood (x10 ³ cords)	Residues (x10 ³ cords)	Percentage residues	Total (x10 ³ cords)
1950	—	—	—	—
1951	—	—	—	—
1952	—	—	—	—
1953	16,127.0	75.9	0	16,202.9
1954	16,269.7	126.2	1	16,395.9
1955	18,014.7	374.1	2	18,388.8
1956	19,685.7	659.1	3	20,344.8
1957	18,579.7	1,203.0	6	19,782.7
1958	18,447.4	1,785.4	9	20,232.8
1959	20,288.0	2,462.2	11	22,750.2
1960	20,595.5	2,955.5	13	23,551.0
1961	20,919.0	3,311.7	14	24,230.7
1962	21,736.8	3,849.5	15	25,586.3
1963	22,329.1	4,261.9	16	26,591.0
1964	24,108.7	4,717.1	16	28,825.8
1965	25,613.9	5,176.9	17	30,790.8
1966	27,299.7	5,761.5	17	33,061.2
1967	27,172.1	6,479.0	19	33,651.1
1968	29,500.7	7,574.7	20	37,075.4
1969	32,510.6	8,358.4	20	40,869.0
1970	33,547.3	8,605.1	20	42,152.4
1971	31,775.3	10,138.5	24	41,913.8
1972	33,391.7	10,887.8	25	44,279.5
1973	34,370.1	12,736.5	27	47,106.6
1974	35,616.1	13,486.0	27	49,102.1
1975	30,043.1	12,292.5	29	42,335.6
1976	32,016.6	15,395.5	32	47,412.1
1977	32,047.1	16,811.7	34	48,858.8
1978	33,766.0	16,860.7	33	50,626.7
1979	35,806.3	18,529.1	34	54,335.4
1980	36,966.5	17,554.0	32	54,520.5
1981	36,617.9	17,686.6	33	54,304.5
1982	35,413.1	16,819.4	32	52,232.5
1983	37,750.3	18,862.9	33	56,613.2
1984	38,710.1	20,019.2	34	58,729.3
1985	37,217.9	19,760.0	35	56,977.9
1986	40,439.9	20,149.9	33	60,589.8
1987	41,164.2	21,270.5	34	62,434.7
1988	41,426.0	20,704.4	33	62,130.4
1989	41,818.2	19,095.2	31	60,913.4
1990	45,622.1	19,410.3	30	65,032.4
1991	46,650.2	18,431.8	28	65,082.0
1992	47,251.3	20,688.2	30	67,939.5
1993	46,342.1	19,929.3	30	66,271.4
1994	47,842.4	20,642.9	30	68,485.3
1995	52,000.9	20,692.5	28	72,693.3
1996	49,551.0	18,972.6	28	68,523.6

^aFrom 1953–1993, data for Kentucky are not included in the South Central region.

See Appendix A for description of regions.

Sources: Johnson (1996), Johnson and Howell (1996), Johnson and Stepleton (1996, 1997).

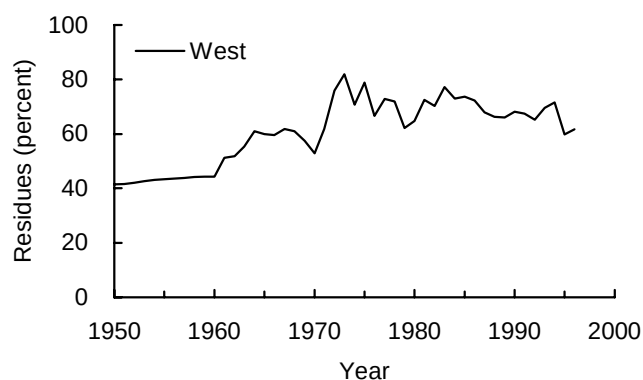


Figure 22—Percentage residues of total pulpwood receipts for all west regions.

Table 15—Total roundwood and residue pulpwood receipts for all U.S. west regions, 1950–1996^a

Year	Pulpwood receipts			
	Roundwood (x10 ³ cords)	Residues (x10 ³ cords)	Percentage residues	Total (x10 ³ cords)
1950	2,157.9	1,531.2	42	3,689.0
1951	2,527.1	1,800.1	42	4,327.2
1952	2,530.7	1,839.1	42	4,369.8
1953	2,599.0	1,939.6	43	4,538.6
1954	3,262.7	2,474.8	43	5,737.5
1955	3,610.7	2,764.1	43	6,374.8
1956	4,019.0	3,095.9	44	7,114.9
1957	4,120.2	3,226.4	44	7,346.6
1958	3,997.1	3,168.9	44	7,166.0
1959	4,274.7	3,398.4	44	7,673.1
1960	4,502.7	3,586.7	44	8,089.4
1961	4,517.3	4,754.6	51	9,271.9
1962	4,624.2	4,980.5	52	9,604.7
1963	4,752.0	5,903.5	55	10,655.5
1964	4,322.6	6,743.2	61	11,065.7
1965	4,994.9	7,469.3	60	12,464.2
1966	5,017.6	7,379.0	60	12,396.5
1967	4,921.0	7,956.1	62	12,877.1
1968	5,236.3	8,151.1	61	13,387.5
1969	5,710.9	7,684.0	57	13,394.9
1970	6,979.8	7,850.4	53	14,830.2
1971	5,312.9	8,580.0	62	13,892.9
1972	3,379.3	10,610.8	76	13,990.1
1973	2,553.2	11,631.6	82	14,184.8
1974	4,508.5	10,928.4	71	15,436.9
1975	2,774.4	10,323.0	79	13,097.4
1976	4,768.8	9,484.9	67	14,253.7
1977	3,913.4	10,507.9	73	14,421.3
1978	3,655.8	9,361.5	72	13,017.3
1979	5,283.3	8,693.8	62	13,977.1
1980	5,616.8	10,315.9	65	15,932.7
1981	3,984.6	10,533.8	73	14,518.4
1982	3,841.6	9,092.0	70	12,933.6
1983	3,366.3	11,371.4	77	14,737.6
1984	4,314.7	11,677.0	73	15,991.8
1985	3,992.4	11,236.1	74	15,228.5
1986	4,558.8	11,857.1	72	16,416.0
1987	5,547.5	11,694.7	68	17,242.2
1988	6,001.4	11,808.4	66	17,809.8
1989	5,937.2	11,549.5	66	17,486.7
1990	4,583.0	9,848.0	68	14,431.0
1991	4,387.0	9,099.0	67	13,486.0
1992	4,231.0	7,939.0	65	12,170.0
1993	3,318.0	7,584.0	70	10,902.0
1994	3,037.0	7,681.0	72	10,718.0
1995	4,892.0	7,265.3	60	12,157.3
1996	3,998.0	6,422.4	62	10,420.4

^aData for 1950–1967 represent consumption. See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993); 1990–1996 from American Pulpwood Association (1996a,b, 1997).

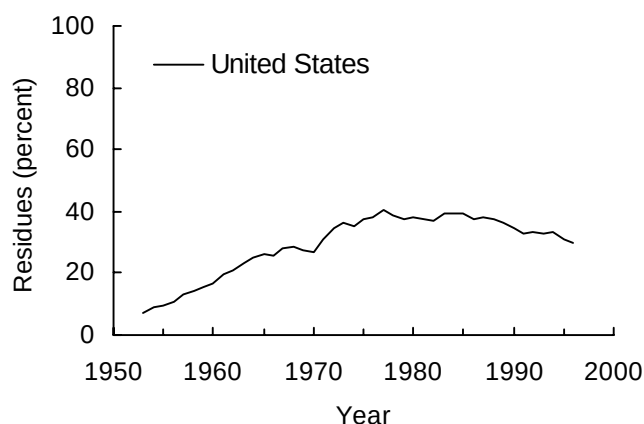


Figure 23—Percentage residues of total pulpwood receipts for all U.S. regions.

Table 16—Total roundwood and residue pulpwood receipts for all U.S. regions, 1950–1996^a

Year	Pulpwood receipts			Total ($\times 10^3$ cords)
	Roundwood ($\times 10^3$ cords)	Residues ($\times 10^3$ cords)	Percentage residues	
1950	—	—	—	—
1951	—	—	—	—
1952	—	—	—	—
1953	26,868.5	2,035.0	7	28,903.5
1954	26,734.8	2,627.6	9	29,362.4
1955	29,564.4	3,199.0	10	32,763.4
1956	32,134.9	3,853.7	11	35,988.6
1957	30,678.0	4,555.0	13	35,233.0
1958	30,312.7	5,104.1	14	35,416.8
1959	32,806.5	6,046.8	16	38,853.4
1960	33,499.5	6,783.9	17	40,283.4
1961	33,960.2	8,345.0	20	42,305.3
1962	34,995.6	9,216.0	21	44,211.6
1963	35,831.6	10,746.8	23	46,578.4
1964	36,842.1	12,422.6	25	49,264.6
1965	39,128.7	13,755.0	26	52,883.7
1966	41,809.4	14,484.4	26	56,293.8
1967	41,441.1	16,028.2	28	57,469.3
1968	43,535.0	17,199.4	28	60,734.4
1969	47,499.3	17,757.6	27	65,256.9
1970	49,467.1	18,109.9	27	67,577.0
1971	46,295.2	20,610.3	31	66,905.5
1972	45,310.8	23,712.4	34	69,023.1
1973	46,269.0	26,621.7	37	72,890.7
1974	50,394.3	27,562.5	35	77,956.8
1975	41,028.8	24,792.4	38	65,821.2
1976	45,526.7	27,721.9	38	73,248.5
1977	44,537.7	30,434.2	41	74,971.9
1978	46,721.8	29,731.4	39	76,453.1
1979	50,698.8	30,366.0	37	81,064.8
1980	52,106.5	31,924.9	38	84,031.4
1981	51,389.6	31,078.6	38	82,468.3
1982	49,093.1	28,768.5	37	77,861.6
1983	51,612.3	33,217.0	39	84,829.3
1984	52,323.6	34,053.5	39	86,377.1
1985	52,698.2	33,901.4	39	86,599.6
1986	57,723.4	34,778.8	38	92,502.2
1987	58,538.1	36,052.1	38	94,590.2
1988	59,342.3	35,687.5	38	95,029.8
1989	59,924.3	33,906.6	36	93,830.9
1990	61,758.1	32,178.3	34	93,936.4
1991	62,701.2	30,544.8	33	93,246.0
1992	63,489.3	31,749.2	33	95,238.5
1993	62,122.1	30,637.3	33	92,759.4
1994	63,698.4	31,628.9	33	95,327.3
1995	68,454.9	30,802.5	31	99,257.4
1996	64,752.0	27,808.3	30	92,560.3

^aData for 1950–1967 represent consumption for all north and south regions. From 1953–1993, data for Kentucky not included in South Central region.

See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993); 1990–1996 from American Pulpwood Association (1996a,b, 1997), Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

Table 17—Total softwood and hardwood pulpwood receipts for U.S. Northeast region, 1950–1996^a

Year	Pulpwood receipts			
	Total softwood (x10 ³ cords)	Total hardwood (x10 ³ cords)	Percentage hardwood	Total (x10 ³ cords)
1950	2,978.7	774.0	21	3,752.7
1951	3,428.0	920.0	21	4,348.0
1952	3,370.0	1,042.0	24	4,412.0
1953	3,132.0	1,103.0	26	4,235.0
1954	3,045.6	1,125.5	27	4,171.2
1955	3,360.0	1,285.6	28	4,645.6
1956	3,594.9	1,406.0	28	5,000.9
1957	3,265.8	1,437.3	31	4,703.1
1958	3,029.1	1,445.2	32	4,474.3
1959	3,004.5	1,514.6	34	4,519.1
1960	3,043.0	1,673.0	35	4,716.0
1961	3,060.8	1,624.2	35	4,685.0
1962	3,050.4	1,737.6	36	4,788.0
1963	3,076.5	1,808.8	37	4,885.4
1964	3,198.0	1,733.1	35	4,931.1
1965	3,157.3	1,792.2	36	4,949.5
1966	3,340.5	2,050.6	38	5,391.2
1967	3,716.4	2,233.4	38	5,949.8
1968	3,663.2	2,342.1	39	6,005.3
1969	3,473.3	2,526.3	42	5,999.6
1970	3,716.0	2,633.8	41	6,349.8
1971	3,510.8	2,550.8	42	6,061.6
1972	3,183.7	2,634.4	45	5,818.2
1973	3,429.2	3,028.4	47	6,457.7
1974	3,775.4	3,241.7	46	7,017.1
1975	3,273.4	2,540.7	44	5,814.1
1976	3,410.3	2,731.4	44	6,141.7
1977	3,531.3	2,796.2	44	6,327.5
1978	4,163.6	3,123.3	43	7,286.8
1979	3,712.4	3,083.9	45	6,796.3
1980	4,187.6	3,421.2	45	7,608.9
1981	4,593.3	3,515.5	43	8,108.8
1982	4,189.6	3,346.1	44	7,535.7
1983	4,160.2	3,496.0	46	7,656.2
1984	3,357.7	3,026.5	47	6,384.2
1985	4,155.5	4,028.3	49	8,183.8
1986	4,056.1	4,220.1	51	8,276.3
1987	3,815.9	4,092.4	52	7,908.3
1988	3,732.0	4,194.7	53	7,926.7
1989	4,038.6	4,316.8	52	8,355.4
1990	3,574.0	3,847.0	52	7,421.0
1991	3,698.0	3,791.0	51	7,489.0
1992	3,584.0	4,240.0	54	7,824.0
1993	3,641.0	4,524.0	55	8,165.0
1994	3,569.0	4,813.0	57	8,382.0
1995	2,873.0	4,451.3	61	7,324.3
1996	2,736.0	4,165.6	60	6,901.6

^aData for 1950–1967 represent consumption.
See Appendix A for description of regions.
Sources: 1950–1989 from Ingram and others (1993);
1990–1996 from American Pulpwood Association
(1996a,b, 1997).

Table 18—Total softwood and hardwood pulpwood receipts for U.S. North Central region, 1950–1996^a

Year	Pulpwood receipts			
	Total softwood (x10 ³ cords)	Total hardwood (x10 ³ cords)	Percentage hardwood	Total (x10 ³ cords)
1950	2,035.6	787.0	28	2,822.6
1951	2,136.2	902.0	30	3,038.2
1952	2,000.0	994.0	33	2,994.0
1953	1,973.0	1,954.0	50	3,927.0
1954	1,794.1	1,263.7	41	3,057.8
1955	1,907.4	1,446.9	43	3,354.3
1956	1,913.2	1,614.8	46	3,528.0
1957	1,819.3	1,581.2	46	3,400.6
1958	1,837.5	1,706.3	48	3,543.8
1959	1,879.8	2,031.2	52	3,910.9
1960	1,902.0	2,025.0	52	3,927.0
1961	1,807.6	2,310.0	56	4,117.6
1962	1,792.7	2,440.0	58	4,232.6
1963	1,818.9	2,627.6	59	4,446.5
1964	1,672.4	2,769.7	62	4,442.0
1965	1,654.7	3,024.5	65	4,679.2
1966	1,896.5	3,548.4	65	5,444.9
1967	1,633.9	3,357.4	67	4,991.3
1968	1,491.0	2,775.3	65	4,266.3
1969	1,637.7	3,355.7	67	4,993.4
1970	1,789.1	2,455.5	58	4,244.6
1971	1,674.1	3,363.1	67	5,037.2
1972	1,595.9	3,339.5	68	4,935.4
1973	1,625.5	3,516.3	68	5,141.7
1974	1,879.2	4,521.5	71	6,400.7
1975	1,601.3	2,972.7	65	4,574.0
1976	1,934.7	3,506.5	64	5,441.1
1977	1,814.2	3,550.1	66	5,364.3
1978	2,030.1	3,492.2	63	5,522.3
1979	2,133.7	3,822.3	64	5,956.0
1980	2,104.7	3,864.7	65	5,969.4
1981	1,905.5	3,631.0	66	5,536.5
1982	1,904.4	3,255.4	63	5,159.8
1983	1,633.9	4,188.4	72	5,822.3
1984	1,393.4	3,878.5	74	5,271.9
1985	1,509.1	4,700.4	76	6,209.4
1986	1,699.4	5,520.8	76	7,220.2
1987	1,656.5	5,348.4	76	7,004.9
1988	1,855.6	5,307.3	74	7,162.9
1989	1,833.9	5,241.6	74	7,075.5
1990	1,592.0	5,460.0	77	7,052.0
1991	1,660.0	5,529.0	77	7,189.0
1992	1,895.0	5,410.0	74	7,305.0
1993	2,113.0	5,308.0	72	7,421.0
1994	2,158.0	5,584.0	72	7,742.0
1995	1,926.1	5,156.4	73	7,082.5
1996	1,901.1	4,813.6	72	6,714.7

^aData for 1950–1967 represent consumption.
See Appendix A for description of regions.
Sources: 1950–1989 from Ingram and others (1993);
1990–1996 from American Pulpwood Association
(1996a,b, 1997).

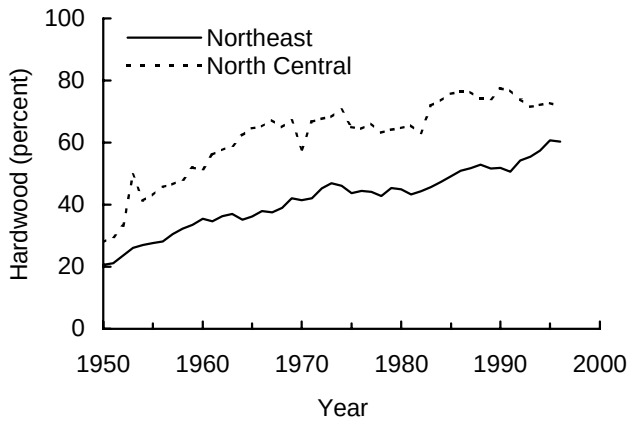


Figure 24—Percentage hardwood of total pulpwood receipts for Northeast and North Central regions.

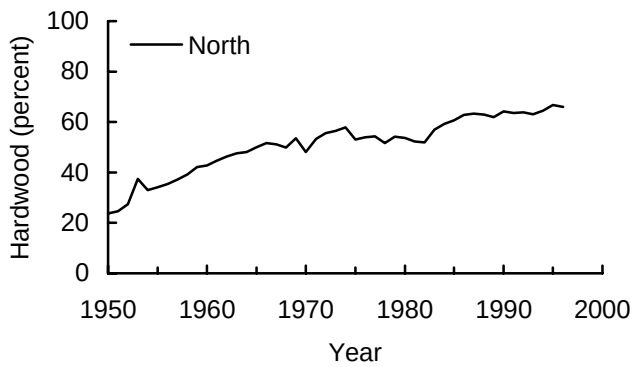


Figure 25—Percentage hardwood of total pulpwood receipts for all north regions.

Table 19—Total softwood and hardwood pulpwood receipts for all U.S. north regions, 1950–1996^a

Year	Pulpwood receipts			Total (x10 ³ cords)
	Total softwood (x10 ³ cords)	Total hardwood (x10 ³ cords)	Percentage hardwood	
1950	5,014.3	1,561.0	24	6,575.3
1951	5,564.2	1,822.0	25	7,386.2
1952	5,370.0	2,036.0	27	7,406.0
1953	5,105.0	3,057.0	37	8,162.0
1954	4,839.7	2,389.3	33	7,229.0
1955	5,267.4	2,732.5	34	7,999.9
1956	5,508.1	3,020.8	35	8,528.9
1957	5,085.2	3,018.5	37	8,103.7
1958	4,866.5	3,151.5	39	8,018.1
1959	4,884.2	3,545.8	42	8,430.1
1960	4,945.0	3,698.0	43	8,643.0
1961	4,868.4	3,934.3	45	8,802.6
1962	4,843.0	4,177.6	46	9,020.6
1963	4,895.5	4,436.4	48	9,331.9
1964	4,870.4	4,502.7	48	9,373.1
1965	4,812.0	4,816.7	50	9,628.7
1966	5,237.1	5,599.0	52	10,836.1
1967	5,350.3	5,590.8	51	10,941.1
1968	5,154.2	5,117.4	50	10,271.5
1969	5,111.0	5,882.0	54	10,993.0
1970	5,505.0	5,089.4	48	10,594.4
1971	5,184.9	5,913.9	53	11,098.8
1972	4,779.6	5,973.9	56	10,753.6
1973	5,054.7	6,544.7	56	11,599.4
1974	5,654.6	7,763.2	58	13,417.8
1975	4,874.7	5,513.5	53	10,388.1
1976	5,344.9	6,237.8	54	11,582.8
1977	5,345.5	6,346.3	54	11,691.8
1978	6,193.6	6,615.5	52	12,809.1
1979	5,846.1	6,906.2	54	12,752.3
1980	6,292.3	7,285.9	54	13,578.2
1981	6,498.9	7,146.4	52	13,645.3
1982	6,094.0	6,601.5	52	12,695.5
1983	5,794.2	7,684.3	57	13,478.5
1984	4,751.1	6,905.0	59	11,656.1
1985	5,664.5	8,728.7	61	14,393.2
1986	5,755.5	9,740.9	63	15,496.4
1987	5,472.4	9,440.8	63	14,913.3
1988	5,587.5	9,502.0	63	15,089.5
1989	5,872.4	9,558.4	62	15,430.9
1990	5,166.0	9,307.0	64	14,473.0
1991	5,358.0	9,320.0	63	14,678.0
1992	5,479.0	9,650.0	64	15,129.0
1993	5,754.0	9,832.0	63	15,586.0
1994	5,727.0	10,397.0	64	16,124.0
1995	4,799.1	9,607.7	67	14,406.8
1996	4,637.1	8,979.2	66	13,616.3

^aData for 1950–1967 represent consumption.

See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993);

1990–1996 from American Pulpwood Association (1996a,b, 1997).

Table 20—Total softwood and hardwood pulpwood receipts for U.S. Southeast region, 1950–1996^a

Year	Pulpwood receipts			
	Total softwood (x10 ³ cords)	Total hardwood (x10 ³ cords)	Percentage hardwood	Total (x10 ³ cords)
1950	—	—	—	—
1951	—	—	—	—
1952	—	—	—	—
1953	8,005.8	831.9	9	8,837.7
1954	8,010.5	873.5	10	8,884.0
1955	9,220.9	1,070.8	10	10,291.7
1956	10,125.1	1,147.1	10	11,272.2
1957	9,745.1	1,238.7	11	10,983.8
1958	9,612.4	1,409.1	13	11,021.5
1959	10,923.3	1,732.8	14	12,656.1
1960	11,381.6	1,922.0	14	13,303.6
1961	11,435.6	2,195.2	16	13,630.8
1962	11,924.4	2,456.5	17	14,380.9
1963	12,319.4	2,605.1	17	14,924.5
1964	13,118.6	2,853.7	18	15,972.3
1965	13,881.0	3,061.1	18	16,942.1
1966	14,227.4	3,332.9	19	17,560.3
1967	14,129.9	3,585.3	20	17,715.2
1968	14,802.2	3,786.0	20	18,588.2
1969	15,666.7	4,122.0	21	19,788.7
1970	16,340.8	4,176.6	20	20,517.4
1971	15,652.1	4,141.7	21	19,793.8
1972	16,365.5	4,379.6	21	20,745.1
1973	17,196.9	4,696.1	21	21,893.0
1974	17,565.8	4,919.6	22	22,485.4
1975	15,512.1	4,002.6	21	19,514.7
1976	17,100.8	4,678.0	21	21,778.8
1977	18,663.6	4,967.7	21	23,631.3
1978	18,711.6	5,442.9	23	24,154.5
1979	19,337.4	5,442.7	22	24,780.1
1980	19,401.0	5,404.8	22	24,805.8
1981	19,302.1	5,788.2	23	25,090.3
1982	18,980.5	5,635.4	23	24,615.9
1983	19,988.5	6,629.0	25	26,617.5
1984	20,856.7	6,713.1	24	27,569.8
1985	20,479.0	6,617.1	24	27,096.1
1986	21,206.6	6,925.5	25	28,132.1
1987	22,748.0	6,611.6	23	29,359.6
1988	21,651.8	7,046.8	25	28,698.6
1989	20,991.5	6,863.1	25	27,854.6
1990	21,903.9	6,911.8	24	28,815.7
1991	21,942.7	7,343.3	25	29,286.0
1992	22,887.1	7,513.8	25	30,400.9
1993	21,779.4	8,482.5	28	30,261.9
1994	22,565.5	8,245.0	27	30,810.5
1995	22,882.5	9,357.9	29	32,240.4
1996	21,407.7	7,979.4	27	29,387.1

^aSee Appendix A for description of regions.

Sources: Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

Table 21—Total softwood and hardwood pulpwood receipts for U.S. South Central region, 1950–1996^a

Year	Pulpwood receipts			
	Total softwood (x10 ³ cords)	Total hardwood (x10 ³ cords)	Percentage hardwood	Total (x10 ³ cords)
1950	—	—	—	—
1951	—	—	—	—
1952	—	—	—	—
1953	6,169.8	1,195.4	16	7,365.2
1954	6,183.3	1,328.6	18	7,511.9
1955	6,525.8	1,571.3	19	8,097.1
1956	7,298.1	1,774.5	20	9,072.6
1957	7,026.9	1,772.0	20	8,798.9
1958	7,479.4	1,731.9	19	9,211.3
1959	7,778.6	2,315.5	23	10,094.1
1960	7,692.9	2,554.5	25	10,247.4
1961	7,917.5	2,682.4	25	10,599.9
1962	8,069.9	3,135.5	28	11,205.4
1963	8,337.3	3,329.2	29	11,666.5
1964	9,347.4	3,506.1	27	12,853.5
1965	9,882.2	3,966.5	29	13,848.7
1966	11,179.2	4,321.7	28	15,500.9
1967	11,780.3	4,155.6	26	15,935.9
1968	13,661.5	4,825.7	26	18,487.2
1969	15,435.4	5,644.9	27	21,080.3
1970	16,054.7	5,580.3	26	21,635.0
1971	16,603.5	5,516.5	25	22,120.0
1972	17,320.5	6,213.9	26	23,534.4
1973	18,337.5	6,876.1	27	25,213.6
1974	19,019.0	7,597.7	29	26,616.7
1975	17,198.9	5,622.0	25	22,820.9
1976	19,075.5	6,557.8	26	25,633.3
1977	18,995.1	6,232.4	25	25,227.5
1978	19,245.7	7,226.5	27	26,472.2
1979	21,411.9	8,143.4	28	29,555.3
1980	21,347.3	8,367.4	28	29,714.7
1981	20,834.2	8,380.0	29	29,214.2
1982	19,614.2	8,002.4	29	27,616.6
1983	20,529.4	9,466.3	32	29,995.7
1984	21,001.3	10,158.2	33	31,159.5
1985	20,167.1	9,714.7	33	29,881.8
1986	21,476.2	10,981.5	34	32,457.7
1987	21,424.6	11,650.5	35	33,075.1
1988	21,569.9	11,861.9	35	33,431.8
1989	21,491.5	11,567.3	35	33,058.8
1990	24,121.1	12,095.6	33	36,216.7
1991	24,432.7	11,363.3	32	35,796.0
1992	24,975.1	12,563.5	33	37,538.6
1993	23,752.8	12,256.7	34	36,009.5
1994	24,514.0	13,160.8	35	37,674.8
1995	25,268.0	15,184.9	38	40,452.9
1996	24,649.1	14,487.4	37	39,136.5

^aFrom 1953–1993, data for Kentucky are not included.

See Appendix A for description of regions.

Sources: Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

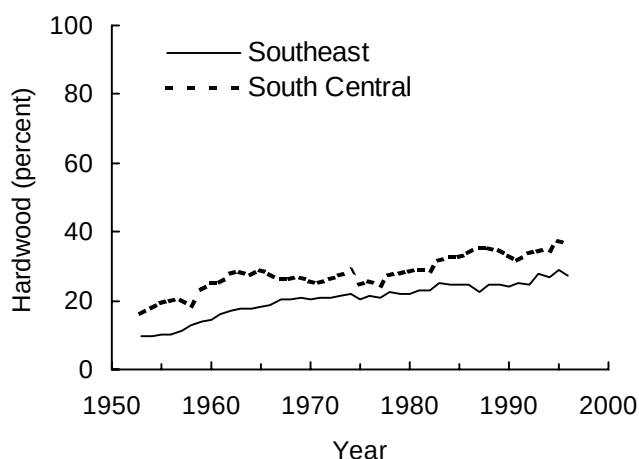


Figure 26—Percentage hardwood of total pulpwood receipts for Southeast and South Central regions.

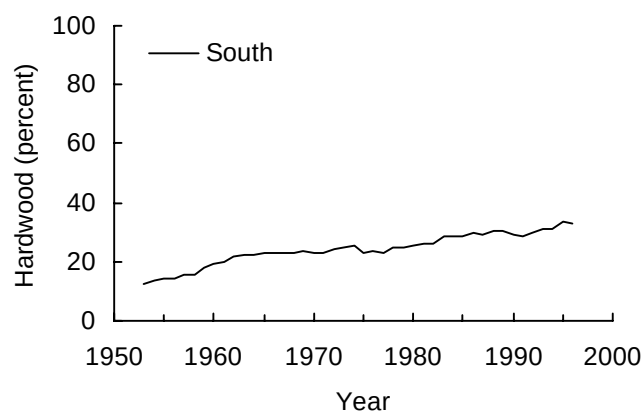


Figure 27—Percentage hardwood of total pulpwood receipts for all south regions.

Table 22—Total softwood and hardwood pulpwood receipts for all U.S. south regions, 1950–1996^a

Year	Pulpwood receipts			
	Total softwood (x10 ³ cords)	Total hardwood (x10 ³ cords)	Percentage hardwood	Total (x10 ³ cords)
1950	—	—	—	—
1951	—	—	—	—
1952	—	—	—	—
1953	14,175.6	2,027.3	13	16,202.9
1954	14,193.8	2,202.1	13	16,395.9
1955	15,746.7	2,642.1	14	18,388.8
1956	17,423.2	2,921.6	14	20,344.8
1957	16,772.0	3,010.7	15	19,782.7
1958	17,091.8	3,141.0	16	20,232.8
1959	18,701.9	4,048.3	18	22,750.2
1960	19,074.5	4,476.5	19	23,551.0
1961	19,353.1	4,877.6	20	24,230.7
1962	19,994.3	5,592.0	22	25,586.3
1963	20,656.7	5,934.3	22	26,591.0
1964	22,466.0	6,359.8	22	28,825.8
1965	23,763.2	7,027.6	23	30,790.8
1966	25,406.6	7,654.6	23	33,061.2
1967	25,910.2	7,740.9	23	33,651.1
1968	28,463.7	8,611.7	23	37,075.4
1969	31,102.1	9,766.9	24	40,869.0
1970	32,395.5	9,756.9	23	42,152.4
1971	32,255.6	9,658.2	23	41,913.8
1972	33,686.0	10,593.5	24	44,279.5
1973	35,534.4	11,572.2	25	47,106.6
1974	36,584.8	12,517.3	25	49,102.1
1975	32,711.0	9,624.6	23	42,335.6
1976	36,176.3	11,235.8	24	47,412.1
1977	37,658.7	11,200.1	23	48,858.8
1978	37,957.3	12,669.4	25	50,626.7
1979	40,749.3	13,586.1	25	54,335.4
1980	40,748.3	13,772.2	25	54,520.5
1981	40,136.3	14,168.2	26	54,304.5
1982	38,594.7	13,637.8	26	52,232.5
1983	40,517.9	16,095.3	28	56,613.2
1984	41,858.0	16,871.3	29	58,729.3
1985	40,646.1	16,331.8	29	56,977.9
1986	42,682.8	17,907.0	30	60,589.8
1987	44,172.6	18,262.1	29	62,434.7
1988	43,221.7	18,908.7	30	62,130.4
1989	42,483.0	18,430.4	30	60,913.4
1990	46,025.0	19,007.4	29	65,032.4
1991	46,375.4	18,706.6	29	65,082.0
1992	47,862.2	20,077.3	30	67,939.5
1993	45,532.2	20,739.2	31	66,271.4
1994	47,079.5	21,405.8	31	68,485.3
1995	48,150.5	24,542.8	34	72,693.3
1996	46,056.8	22,466.8	33	68,523.6

^aFrom 1953–1993, data for Kentucky are not included in South Central region.

See Appendix A for description of regions.

Sources: Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

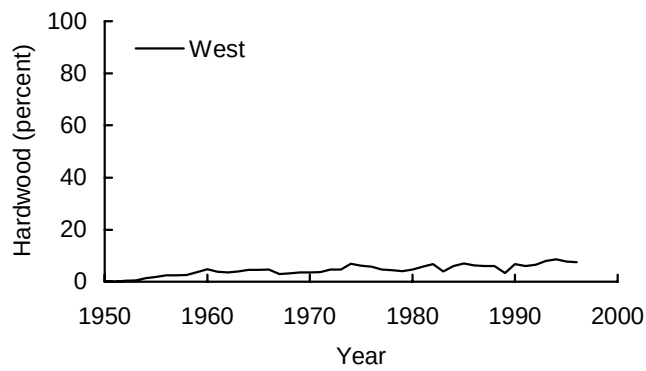


Figure 28—Percentage hardwood of total pulpwood receipts for all west regions.

Table 23—Total softwood and hardwood pulpwood receipts for all U.S. west regions, 1950–1996^a

Year	Pulpwood receipts			
	Total softwood (x10 ³ cords)	Total hardwood (x10 ³ cords)	Percentage hardwood	Total (x10 ³ cords)
1950	3,689.0	0.0	0	3,689.0
1951	4,327.2	0.0	0	4,327.2
1952	4,348.3	21.5	0	4,369.8
1953	4,513.2	25.4	1	4,538.6
1954	5,661.1	76.4	1	5,737.5
1955	6,256.8	117.9	2	6,374.8
1956	6,942.4	172.5	2	7,114.9
1957	7,169.9	176.7	2	7,346.6
1958	6,973.3	192.7	3	7,166.0
1959	7,388.0	285.1	4	7,673.1
1960	7,696.5	392.8	5	8,089.4
1961	8,916.1	355.9	4	9,271.9
1962	9,259.6	345.1	4	9,604.7
1963	10,227.7	427.7	4	10,655.5
1964	10,569.3	496.4	4	11,065.7
1965	11,900.5	563.6	5	12,464.2
1966	11,808.8	587.7	5	12,396.5
1967	12,490.7	386.3	3	12,877.1
1968	12,963.3	424.1	3	13,387.5
1969	12,925.3	469.7	4	13,394.9
1970	14,292.9	537.3	4	14,830.2
1971	13,372.4	520.5	4	13,892.9
1972	13,338.8	651.3	5	13,990.1
1973	13,527.9	656.8	5	14,184.8
1974	14,372.5	1,064.4	7	15,436.9
1975	12,294.5	802.9	6	13,097.4
1976	13,434.2	819.4	6	14,253.7
1977	13,733.4	688.0	5	14,421.3
1978	12,445.7	571.7	4	13,017.3
1979	13,402.6	574.5	4	13,977.1
1980	15,177.1	755.6	5	15,932.7
1981	13,690.0	828.4	6	14,518.4
1982	12,063.2	870.4	7	12,933.6
1983	14,154.3	583.3	4	14,737.6
1984	15,012.3	979.4	6	15,991.8
1985	14,159.7	1,068.8	7	15,228.5
1986	15,379.4	1,036.6	6	16,416.0
1987	16,201.7	1,040.5	6	17,242.2
1988	16,722.4	1,087.4	6	17,809.8
1989	16,913.6	573.1	3	17,486.7
1990	13,455.0	976.0	7	14,431.0
1991	12,661.0	825.0	6	13,486.0
1992	11,373.0	797.0	7	12,170.0
1993	10,038.0	864.0	8	10,902.0
1994	9,794.0	924.0	9	10,718.0
1995	11,222.9	934.4	8	12,157.3
1996	9,639.4	781.0	7	10,420.4

^aData for 1950–1967 represent consumption.
See Appendix A for description of regions.
Sources: 1950–1989 from Ingram and others (1993);
1990–1996 from American Pulpwood Association
(1996a,b, 1997).

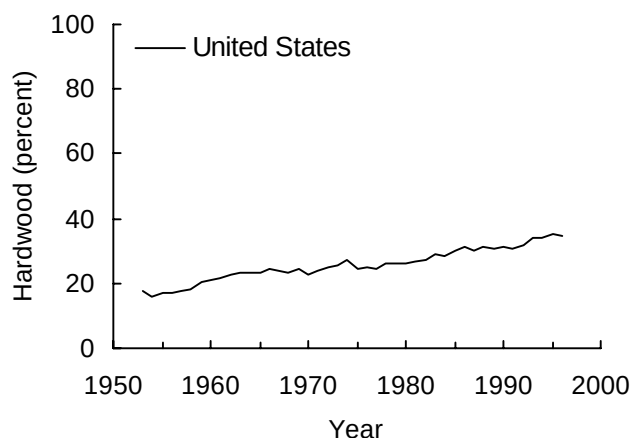


Figure 29—Percentage hardwood of total pulpwood receipts for all U.S. regions.

Table 24—Total softwood and hardwood pulpwood receipts for all U.S. regions, 1950–1996^a

Year	Pulpwood receipts			
	Total softwood (x10 ³ cords)	Total hardwood (x10 ³ cords)	Percentage hardwood	Total (x10 ³ cords)
1950	—	—	—	—
1951	—	—	—	—
1952	—	—	—	—
1953	23,793.8	5,109.7	18	28,903.5
1954	24,694.6	4,667.8	16	29,362.4
1955	27,270.9	5,492.6	17	32,763.4
1956	29,873.8	6,114.9	17	35,988.6
1957	29,027.1	6,205.9	18	35,233.0
1958	28,931.6	6,485.2	18	35,416.8
1959	30,974.1	7,879.3	20	38,853.4
1960	31,716.0	8,567.3	21	40,283.4
1961	33,137.5	9,167.7	22	42,305.3
1962	34,096.9	10,114.7	23	44,211.6
1963	35,779.9	10,798.5	23	46,578.4
1964	37,905.7	11,359.0	23	49,264.6
1965	40,475.7	12,407.9	23	52,883.7
1966	42,452.5	13,841.3	25	56,293.8
1967	43,751.3	13,718.0	24	57,469.3
1968	46,581.2	14,153.2	23	60,734.4
1969	49,138.4	16,118.5	25	65,256.9
1970	52,193.4	15,383.6	23	67,577.0
1971	50,812.9	16,092.6	24	66,905.5
1972	51,804.4	17,218.7	25	69,023.1
1973	54,117.0	18,773.8	26	72,890.7
1974	56,612.0	21,344.8	27	77,956.8
1975	49,880.2	15,941.0	24	65,821.2
1976	54,955.5	18,293.1	25	73,248.5
1977	56,737.5	18,234.3	24	74,971.9
1978	56,596.6	19,856.6	26	76,453.1
1979	59,998.0	21,066.8	26	81,064.8
1980	62,217.7	21,813.7	26	84,031.4
1981	60,325.2	22,143.1	27	82,468.3
1982	56,751.9	21,109.7	27	77,861.6
1983	60,466.4	24,363.0	29	84,829.3
1984	61,621.4	24,755.7	29	86,377.1
1985	60,470.4	26,129.3	30	86,599.6
1986	63,817.7	28,684.5	31	92,502.2
1987	65,846.7	28,743.5	30	94,590.2
1988	65,531.6	29,498.1	31	95,029.8
1989	65,269.0	28,561.9	30	93,830.9
1990	64,646.0	29,290.4	31	93,936.4
1991	64,394.4	28,851.6	31	93,246.0
1992	64,714.2	30,524.3	32	95,238.5
1993	61,324.2	31,435.2	34	92,759.4
1994	62,600.5	32,726.8	34	95,327.3
1995	64,172.5	35,084.9	35	99,257.4
1996	60,333.3	32,227.0	35	92,560.3

^aData for 1950–1967 represent consumption for all north and south regions. From 1953–1993, data for Kentucky not included in South Central region.

See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993); 1990–1996 from American Pulpwood Association (1996a,b, 1997), Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

Table 25—Total pulpwood receipts for U.S. Northeast region, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cubic meters)								Total
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues	Roundwood	Residues	Softwood	Hardwood	
1950	7,169.5	0.0	1,863.0	0.0	9,032.5	0.0	7,169.5	1,863.0	9,032.5
1951	8,251.0	0.0	2,198.4	16.0	10,449.3	16.0	8,251.0	2,214.4	10,465.3
1952	8,111.4	0.0	2,476.8	31.2	10,588.1	31.2	8,111.4	2,508.0	10,619.4
1953	7,538.5	0.0	2,607.9	47.0	10,146.4	47.0	7,538.5	2,654.8	10,193.4
1954	7,328.6	2.0	2,647.0	62.1	9,975.6	64.1	7,330.6	2,709.1	10,039.7
1955	8,027.9	59.4	3,007.3	87.1	11,035.2	146.5	8,087.3	3,094.4	11,181.7
1956	8,528.0	124.7	3,271.2	112.9	11,799.2	237.6	8,652.7	3,384.1	12,036.8
1957	7,691.8	168.8	3,325.9	133.5	11,017.7	302.4	7,860.7	3,459.4	11,320.1
1958	7,082.6	208.1	3,326.1	152.5	10,408.8	360.6	7,290.7	3,478.6	10,769.3
1959	6,974.1	257.5	3,466.8	178.8	10,440.9	436.4	7,231.6	3,645.6	10,877.2
1960	7,011.7	312.6	3,808.2	218.6	10,819.9	531.2	7,324.3	4,026.8	11,351.1
1961	7,026.0	341.1	3,671.1	238.3	10,697.1	579.5	7,367.2	3,909.4	11,276.6
1962	6,934.2	407.8	3,932.9	249.4	10,867.1	657.2	7,342.0	4,182.3	11,524.3
1963	6,936.0	469.0	4,020.2	333.6	10,956.2	802.6	7,405.0	4,353.7	11,758.8
1964	6,568.7	1,128.6	3,681.2	490.1	10,249.9	1,618.8	7,697.4	4,171.4	11,868.7
1965	6,339.3	1,260.0	3,772.4	541.4	10,111.7	1,801.4	7,599.3	4,313.8	11,913.1
1966	6,671.3	1,369.1	4,154.5	781.2	10,825.8	2,150.4	8,040.4	4,935.8	12,976.2
1967	7,467.0	1,478.1	4,330.3	1,045.3	11,797.3	2,523.4	8,945.1	5,375.7	14,320.8
1968	7,694.6	1,122.4	4,481.8	1,155.5	12,176.3	2,277.9	8,817.0	5,637.3	14,454.3
1969	7,205.3	1,154.8	4,787.3	1,293.3	11,992.6	2,448.1	8,360.0	6,080.6	14,440.6
1970	7,775.8	1,168.2	5,175.2	1,164.3	12,951.0	2,332.5	8,944.1	6,339.5	15,283.5
1971	7,418.0	1,032.2	4,866.6	1,273.1	12,284.6	2,305.3	8,450.2	6,139.7	14,589.9
1972	6,392.9	1,270.2	4,606.7	1,734.3	10,999.6	3,004.4	7,663.1	6,340.9	14,004.0
1973	6,966.4	1,287.5	5,622.0	1,667.3	12,588.4	2,954.8	8,253.9	7,289.3	15,543.2
1974	6,944.4	2,142.7	5,781.1	2,021.5	12,725.5	4,164.2	9,087.2	7,802.6	16,889.7
1975	6,559.8	1,319.1	4,835.2	1,280.2	11,395.0	2,599.2	7,878.9	6,115.4	13,994.2
1976	6,664.7	1,543.7	4,756.8	1,817.4	11,421.4	3,361.1	8,208.3	6,574.2	14,782.5
1977	6,403.7	2,095.9	4,968.6	1,761.6	11,372.3	3,857.6	8,499.6	6,730.2	15,229.8
1978	7,028.4	2,993.1	5,739.4	1,778.0	12,767.9	4,771.1	10,021.5	7,517.5	17,538.9
1979	6,788.9	2,146.6	5,832.9	1,589.9	12,621.7	3,736.5	8,935.5	7,422.8	16,358.3
1980	7,580.6	2,498.8	6,128.5	2,106.2	13,709.1	4,604.9	10,079.4	8,234.7	18,314.1
1981	9,180.7	1,875.2	6,593.0	1,868.5	15,773.7	3,743.7	11,055.9	8,461.5	19,517.3
1982	8,239.2	1,844.9	6,443.0	1,610.8	14,682.3	3,455.7	10,084.1	8,053.8	18,138.0
1983	8,131.4	1,881.9	6,842.5	1,572.0	14,974.0	3,454.0	10,013.4	8,414.6	18,427.9
1984	6,433.4	1,648.3	5,936.7	1,348.0	12,370.0	2,996.3	8,081.7	7,284.7	15,366.4
1985	7,811.6	2,190.3	7,867.2	1,828.7	15,678.8	4,019.0	10,001.9	9,695.9	19,697.8
1986	7,582.5	2,180.3	8,376.1	1,781.4	15,958.7	3,961.7	9,762.9	10,157.5	19,920.4
1987	7,050.1	2,134.5	7,743.0	2,107.2	14,793.1	4,241.7	9,184.6	9,850.2	19,034.8
1988	6,794.0	2,188.6	7,910.4	2,186.0	14,704.4	4,374.6	8,982.6	10,096.4	19,078.9
1989	7,313.5	2,407.1	8,250.9	2,139.5	15,564.3	4,546.5	9,720.5	10,390.3	20,110.9
1990	6,465.0	2,137.4	7,463.9	1,795.6	13,928.9	3,932.9	8,602.4	9,259.5	17,861.8
1991	6,356.7	2,544.1	7,261.7	1,863.0	13,618.4	4,407.1	8,900.8	9,124.7	18,025.5
1992	6,027.0	2,599.5	8,027.1	2,178.3	14,054.1	4,777.8	8,626.4	10,205.4	18,831.8
1993	6,587.8	2,175.9	8,198.0	2,691.0	14,785.8	4,866.8	8,763.6	10,889.0	19,652.6
1994	6,380.8	2,209.6	8,602.4	2,982.2	14,983.2	5,191.8	8,590.3	11,584.6	20,174.9
1995	5,066.6	1,848.5	8,405.0	2,308.9	13,471.6	4,157.4	6,915.1	10,713.9	17,629.0
1996	5,112.3	1,473.0	7,873.1	2,153.2	12,985.4	3,626.3	6,585.4	10,026.3	16,611.7

^aData for 1950–1967 represent consumption. See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993); 1990–1996 from American Pulpwood Association (1996a,b, 1997).

Table 26—Total pulpwood receipts for U.S. North Central region, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cubic meters)								Total
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues	Roundwood	Residues	Softwood	Hardwood	
1950	4,553.7	0.0	1,771.7	0.0	6,325.4	0.0	4,553.7	1,771.7	6,325.4
1951	4,778.7	0.0	2,030.6	0.0	6,809.3	0.0	4,778.7	2,030.6	6,809.3
1952	4,474.1	0.0	2,237.7	0.0	6,711.7	0.0	4,474.1	2,237.7	6,711.7
1953	4,413.7	0.0	4,398.8	0.0	8,812.5	0.0	4,413.7	4,398.8	8,812.5
1954	4,013.4	0.0	2,844.9	0.0	6,858.3	0.0	4,013.4	2,844.9	6,858.3
1955	4,266.8	0.0	3,257.3	0.0	7,524.1	0.0	4,266.8	3,257.3	7,524.1
1956	4,279.9	0.0	3,635.1	0.0	7,915.1	0.0	4,279.9	3,635.1	7,915.1
1957	4,069.9	0.0	3,559.7	0.0	7,629.6	0.0	4,069.9	3,559.7	7,629.6
1958	4,110.5	0.0	3,841.1	0.0	7,951.7	0.0	4,110.5	3,841.1	7,951.7
1959	4,205.1	0.0	4,561.5	11.1	8,766.5	11.1	4,205.1	4,572.6	8,777.6
1960	4,252.6	2.2	4,513.6	45.0	8,766.2	47.3	4,254.8	4,558.7	8,813.5
1961	4,027.9	15.7	5,130.6	69.8	9,158.5	85.5	4,043.6	5,200.4	9,243.9
1962	3,909.6	100.6	5,339.8	153.1	9,249.4	253.7	4,010.2	5,492.9	9,503.1
1963	3,854.2	214.7	5,573.1	342.1	9,427.3	556.9	4,069.0	5,915.3	9,984.2
1964	3,510.6	230.5	5,814.7	420.3	9,325.4	650.8	3,741.1	6,235.1	9,976.2
1965	3,486.4	215.2	6,214.1	594.6	9,700.5	809.8	3,701.6	6,808.6	10,510.3
1966	3,955.6	287.0	7,262.7	725.3	11,218.3	1,012.3	4,242.6	7,988.0	12,230.7
1967	3,294.6	360.5	6,694.6	863.5	9,989.2	1,224.0	3,655.1	7,558.1	11,213.2
1968	2,923.0	412.4	5,476.1	771.6	8,399.1	1,184.0	3,335.4	6,247.7	9,583.1
1969	3,131.0	532.7	6,518.8	1,035.4	9,649.8	1,568.1	3,663.6	7,554.2	11,217.9
1970	3,400.4	601.8	4,590.6	937.3	7,991.0	1,539.1	4,002.2	5,527.9	9,530.1
1971	3,127.5	617.5	6,089.7	1,481.3	9,217.2	2,098.8	3,745.0	7,571.0	11,316.0
1972	2,883.9	686.1	6,034.7	1,483.2	8,918.6	2,169.3	3,570.0	7,517.9	11,087.9
1973	2,730.1	906.0	6,517.9	1,397.9	9,248.0	2,303.9	3,636.2	7,915.8	11,552.0
1974	3,085.2	1,118.6	8,112.3	2,066.3	11,197.5	3,185.0	4,203.8	10,178.7	14,382.5
1975	2,881.8	700.3	4,927.4	1,764.8	7,809.2	2,465.1	3,582.1	6,692.2	10,274.3
1976	3,238.6	1,089.2	5,736.8	2,156.9	8,975.4	3,246.2	4,327.9	7,893.7	12,221.6
1977	3,020.6	1,037.8	5,632.8	2,359.2	8,653.3	3,397.0	4,058.4	7,992.0	12,050.3
1978	3,509.7	1,031.6	5,462.3	2,399.4	8,972.0	3,431.0	4,541.3	7,861.7	12,403.0
1979	3,657.0	1,116.1	6,146.9	2,457.8	9,803.9	3,573.9	4,773.1	8,604.8	13,377.9
1980	3,428.9	1,279.4	5,166.0	3,534.1	8,594.9	4,813.5	4,708.3	8,700.1	13,408.4
1981	3,552.3	710.5	5,956.1	2,218.0	9,508.4	2,928.4	4,262.8	8,174.0	12,436.8
1982	3,508.7	751.5	4,885.0	2,443.5	8,393.7	3,195.0	4,260.2	7,328.5	11,588.7
1983	3,001.6	653.6	6,602.3	2,826.5	9,603.8	3,480.1	3,655.2	9,428.8	13,083.9
1984	2,674.6	442.5	6,672.2	2,058.9	9,346.8	2,501.4	3,117.1	8,731.1	11,848.2
1985	2,886.0	489.8	8,292.9	2,288.5	11,179.0	2,778.2	3,375.8	10,581.4	13,957.2
1986	3,310.8	490.8	10,387.8	2,040.6	13,698.5	2,531.4	3,801.5	12,428.3	16,229.9
1987	3,179.6	526.1	9,587.9	2,452.3	12,767.6	2,978.4	3,705.7	12,040.3	15,746.0
1988	3,611.7	539.3	9,435.2	2,512.6	13,046.9	3,051.9	4,151.0	11,947.7	16,098.7
1989	3,681.6	420.8	9,132.5	2,667.3	12,814.1	3,088.1	4,102.5	11,799.8	15,902.2
1990	3,102.8	458.6	9,858.0	2,433.5	12,960.7	2,892.1	3,561.4	12,291.5	15,852.8
1991	3,319.8	393.7	10,179.9	2,266.9	13,499.6	2,660.7	3,713.5	12,446.8	16,160.3
1992	3,702.3	536.9	10,159.6	2,019.3	13,861.9	2,556.2	4,239.2	12,178.9	16,418.1
1993	4,172.1	554.8	10,026.8	1,922.5	14,198.9	2,477.3	4,726.8	11,949.3	16,676.2
1994	4,304.0	523.5	10,513.1	2,057.6	14,817.1	2,581.1	4,827.5	12,570.6	17,398.2
1995	3,805.2	503.6	9,599.1	2,009.0	13,404.3	2,512.5	4,308.7	11,608.0	15,916.8
1996	3,832.0	420.8	9,218.6	1,617.7	13,050.7	2,038.5	4,252.8	10,836.3	15,089.1

^aData for 1950–1967 represent consumption. See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993); 1990–1996 from American Pulpwood Association (1996a,b, 1997).

Table 27—Total pulpwood receipts for all U.S. north regions, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cubic meters)								Total
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues	Roundwood	Residues	Softwood	Hardwood	
1950	11,723.2	0.0	3,634.7	0.0	15,357.9	0.0	11,723.2	3,634.7	15,357.9
1951	13,029.7	0.0	4,228.9	16.0	17,258.6	16.0	13,029.7	4,245.0	17,274.7
1952	12,585.4	0.0	4,714.5	31.2	17,299.9	31.2	12,585.4	4,745.7	17,331.1
1953	11,952.2	0.0	7,006.7	47.0	18,958.9	47.0	11,952.2	7,053.7	19,005.8
1954	11,342.0	2.0	5,491.9	62.1	16,833.9	64.1	11,344.0	5,554.0	16,898.0
1955	12,294.7	59.4	6,264.6	87.1	18,559.3	146.5	12,354.1	6,351.7	18,705.7
1956	12,807.9	124.7	6,906.3	112.9	19,714.3	237.6	12,932.6	7,019.3	19,951.9
1957	11,761.7	168.8	6,885.5	133.5	18,647.3	302.4	11,930.6	7,019.1	18,949.6
1958	11,193.2	208.1	7,167.3	152.5	18,360.4	360.6	11,401.3	7,319.7	18,721.0
1959	11,179.1	257.5	8,028.3	189.9	19,207.4	447.4	11,436.7	8,218.2	19,654.9
1960	11,264.3	314.8	8,321.8	263.6	19,586.1	578.4	11,579.1	8,585.5	20,164.6
1961	11,053.9	356.8	8,801.7	308.1	19,855.6	664.9	11,410.7	9,109.8	20,520.5
1962	10,843.8	508.4	9,272.8	402.4	20,116.5	910.9	11,352.2	9,675.2	21,027.4
1963	10,790.2	683.8	9,593.3	675.7	20,383.5	1,359.4	11,474.0	10,269.0	21,743.0
1964	10,079.3	1,359.1	9,496.0	910.5	19,575.3	2,269.6	11,438.5	10,406.4	21,844.9
1965	9,825.7	1,475.2	9,986.4	1,136.0	19,812.2	2,611.2	11,301.0	11,122.4	22,423.4
1966	10,626.9	1,656.1	11,417.2	1,506.6	22,044.2	3,162.7	12,283.0	12,923.8	25,206.8
1967	10,761.6	1,838.6	11,024.9	1,908.8	21,786.5	3,747.4	12,600.2	12,933.7	25,534.0
1968	10,617.5	1,534.8	9,957.9	1,927.1	20,575.4	3,462.0	12,152.4	11,885.0	24,037.4
1969	10,336.3	1,687.4	11,306.1	2,328.7	21,642.4	4,016.2	12,023.7	13,634.9	25,658.5
1970	11,176.3	1,770.0	9,765.8	2,101.6	20,942.0	3,871.6	12,946.3	11,867.4	24,813.6
1971	10,545.5	1,649.7	10,956.3	2,754.4	21,501.8	4,404.1	12,195.2	13,710.7	25,905.9
1972	9,276.8	1,956.3	10,641.3	3,217.4	19,918.1	5,173.7	11,233.1	13,858.8	25,091.8
1973	9,696.5	2,193.6	12,139.8	3,065.2	21,836.4	5,258.8	11,890.1	15,205.0	27,095.1
1974	10,029.6	3,261.4	13,893.4	4,087.8	23,923.1	7,349.2	13,291.0	17,981.2	31,272.3
1975	9,441.6	2,019.4	9,762.6	3,044.9	19,204.2	5,064.3	11,461.0	12,807.6	24,268.5
1976	9,903.3	2,632.9	10,493.6	3,974.4	20,396.9	6,607.3	12,536.2	14,467.9	27,004.1
1977	9,424.2	3,133.7	10,601.4	4,120.8	20,025.6	7,254.6	12,558.0	14,722.2	27,280.2
1978	10,538.1	4,024.6	11,201.7	4,177.4	21,739.9	8,202.1	14,562.8	15,379.2	29,941.9
1979	10,445.8	3,262.7	11,979.8	4,047.7	22,425.6	7,310.5	13,708.6	16,027.6	29,736.1
1980	11,009.5	3,778.2	11,294.5	5,640.2	22,304.0	9,418.4	14,787.7	16,934.8	31,722.4
1981	12,733.0	2,585.6	12,549.0	4,086.5	25,282.0	6,672.1	15,318.6	16,635.5	31,954.1
1982	11,747.9	2,596.4	11,328.0	4,054.3	23,075.9	6,650.7	14,344.3	15,382.3	29,726.6
1983	11,133.0	2,535.5	13,444.8	4,398.5	24,577.8	6,934.1	13,668.5	17,843.4	31,511.9
1984	9,108.0	2,090.8	12,608.8	3,407.0	21,716.8	5,497.8	11,198.8	16,015.8	27,214.6
1985	10,697.6	2,680.1	16,160.1	4,117.2	26,857.8	6,797.3	13,377.7	20,277.3	33,655.0
1986	10,893.3	2,671.1	18,763.9	3,822.0	29,657.2	6,493.1	13,564.4	22,585.9	36,150.3
1987	10,229.8	2,660.6	17,330.9	4,559.6	27,560.7	7,220.1	12,890.3	21,890.5	34,780.8
1988	10,405.7	2,727.9	17,345.5	4,698.6	27,751.2	7,426.4	13,133.6	22,044.1	35,177.6
1989	10,995.1	2,827.9	17,383.3	4,806.8	28,378.4	7,634.7	13,823.0	22,190.1	36,013.1
1990	9,567.8	2,595.9	17,321.9	4,229.1	26,889.6	6,825.1	12,163.7	21,551.0	33,714.7
1991	9,676.5	2,937.8	17,441.6	4,129.9	27,118.1	7,067.8	12,614.3	21,571.5	34,185.8
1992	9,729.2	3,136.4	18,186.7	4,197.6	27,916.0	7,334.0	12,865.6	22,384.3	35,249.9
1993	10,759.8	2,730.7	18,224.8	4,613.5	28,984.6	7,344.1	13,490.5	22,838.3	36,328.8
1994	10,684.8	2,733.0	19,115.4	5,039.8	29,800.3	7,772.8	13,417.9	24,155.2	37,573.1
1995	8,871.8	2,352.1	18,004.1	4,317.9	26,875.9	6,670.0	11,223.9	22,322.0	33,545.8
1996	8,944.4	1,893.8	17,091.7	3,770.9	26,036.1	5,664.8	10,838.2	20,862.6	31,700.8

^aData for 1950–1967 represent consumption. See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993); 1990–1996 from American Pulpwood Association (1996a,b, 1997).

Table 28—Total pulpwood receipts for U.S. Southeast region, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cubic meters)								Total
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues	Roundwood	Residues	Softwood	Hardwood	
1950	—	—	—	—	—	—	—	—	—
1951	—	—	—	—	—	—	—	—	—
1952	—	—	—	—	—	—	—	—	—
1953	16,878.8	33.0	1,717.0	54.5	18,595.8	87.5	16,911.7	1,771.5	18,683.2
1954	16,823.9	97.8	1,813.4	46.6	18,637.3	144.4	16,921.7	1,860.1	18,781.7
1955	19,172.3	306.3	2,141.8	138.4	21,314.0	444.7	19,478.6	2,280.2	21,758.8
1956	21,088.7	300.0	2,333.6	109.0	23,422.3	409.0	21,388.6	2,442.7	23,831.3
1957	19,786.6	799.3	2,535.1	102.6	22,321.6	902.0	20,585.9	2,637.7	23,223.6
1958	18,895.7	1,409.8	2,862.2	138.4	21,757.9	1,548.3	20,305.6	3,000.6	23,306.2
1959	20,923.7	2,151.1	3,442.6	247.2	24,366.3	2,398.3	23,074.8	3,689.9	26,764.7
1960	21,354.4	2,688.5	3,684.1	408.6	25,038.5	3,097.1	24,042.9	4,092.8	28,135.7
1961	21,197.0	2,959.9	4,125.1	549.4	25,322.2	3,509.3	24,157.0	4,674.5	28,831.5
1962	21,829.5	3,360.0	4,478.0	753.0	26,307.5	4,113.0	25,189.5	5,230.9	30,420.5
1963	22,339.7	3,684.3	4,703.7	843.7	27,043.3	4,528.0	26,024.0	5,547.4	31,571.3
1964	23,773.6	3,938.6	5,173.4	903.3	28,947.0	4,841.9	27,712.2	6,076.7	33,789.0
1965	25,192.1	4,130.7	5,438.8	1,079.6	30,630.8	5,210.3	29,322.7	6,518.4	35,841.1
1966	25,690.0	4,364.5	5,726.5	1,370.7	31,416.4	5,735.2	30,054.5	7,097.2	37,151.7
1967	25,178.6	4,670.0	5,986.9	1,647.8	31,165.4	6,317.7	29,848.5	7,634.6	37,483.2
1968	25,625.3	5,643.4	6,513.3	1,548.7	32,138.6	7,192.1	31,268.7	8,062.0	39,330.7
1969	27,310.2	5,784.7	7,167.2	1,610.3	34,477.4	7,395.0	33,094.9	8,777.5	41,872.4
1970	28,825.7	5,693.2	7,046.5	1,847.3	35,872.2	7,540.5	34,518.9	8,893.8	43,412.7
1971	25,999.5	7,064.6	6,846.3	1,973.1	32,845.8	9,037.8	33,064.1	8,819.4	41,883.5
1972	26,861.3	7,709.8	7,320.3	2,005.7	34,181.7	9,715.5	34,571.1	9,326.0	43,897.1
1973	27,621.6	8,705.8	7,719.4	2,280.6	35,341.0	10,986.4	36,327.4	10,000.0	46,327.4
1974	27,873.4	9,233.3	7,380.0	3,096.0	35,253.4	12,329.2	37,106.6	10,475.9	47,582.6
1975	23,925.9	8,842.5	6,177.0	2,346.2	30,102.9	11,188.7	32,768.3	8,523.2	41,291.6
1976	24,693.5	11,430.8	7,237.1	2,724.4	31,930.6	14,155.2	36,124.4	9,961.5	46,085.8
1977	25,594.7	13,831.0	7,739.8	2,838.5	33,334.5	16,669.5	39,425.7	10,578.4	50,004.0
1978	26,187.7	13,339.4	8,433.8	3,156.4	34,621.5	16,495.9	39,527.1	11,590.3	51,117.3
1979	27,043.6	13,805.4	7,556.1	4,033.8	34,599.7	17,839.2	40,849.0	11,589.8	52,438.9
1980	28,003.3	12,980.1	7,918.3	3,590.9	35,921.6	16,570.9	40,983.4	11,509.1	52,492.5
1981	28,200.6	12,573.9	8,921.0	3,404.5	37,121.6	15,978.4	40,774.5	12,325.6	53,100.0
1982	27,929.6	12,165.5	8,985.1	3,015.1	36,914.7	15,180.6	40,095.1	12,000.2	52,095.3
1983	28,219.6	14,004.8	10,138.4	3,977.6	38,358.0	17,982.4	42,224.4	14,116.0	56,340.4
1984	29,144.2	14,914.2	10,335.0	3,960.1	39,479.2	18,874.3	44,058.5	14,295.1	58,353.5
1985	28,016.2	15,244.4	10,438.0	3,652.6	38,454.2	18,897.0	43,260.6	14,090.6	57,351.2
1986	29,710.8	15,086.8	11,504.4	3,242.9	41,215.2	18,329.7	44,797.6	14,747.3	59,545.0
1987	31,681.7	16,372.0	11,045.8	3,033.2	42,727.5	19,405.2	48,053.7	14,078.9	62,132.6
1988	30,581.8	15,156.3	11,797.9	3,207.8	42,379.6	18,364.1	45,738.1	15,005.6	60,743.7
1989	29,991.5	14,351.7	11,320.2	3,294.2	41,311.8	17,645.9	44,343.2	14,614.5	58,957.7
1990	32,549.9	13,720.7	11,663.9	3,054.2	44,213.8	16,774.9	46,270.6	14,718.2	60,988.8
1991	33,834.9	12,517.7	12,159.9	3,477.1	45,994.8	15,994.8	46,352.6	15,637.0	61,989.6
1992	34,338.7	14,008.8	12,488.2	3,511.9	46,827.0	17,520.7	48,347.6	16,000.1	64,347.6
1993	33,057.5	12,950.1	15,018.6	3,044.2	48,076.2	15,994.3	46,007.6	18,062.9	64,070.5
1994	33,436.5	14,231.7	14,292.1	3,265.0	47,728.6	17,496.7	47,668.2	17,557.1	65,225.3
1995	34,717.2	13,620.6	15,889.2	4,037.7	50,606.5	17,658.4	48,337.9	19,927.0	68,264.8
1996	32,394.9	12,827.7	13,890.2	3,101.3	46,285.1	15,928.9	45,222.5	16,991.5	62,214.0

^aSee Appendix A for description of regions.

Sources: Johnson (1996), Johnson and Howell (1996), Johnson and Stepleton (1996, 1997).

Table 29—Total pulpwood receipts for U.S. South Central region, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cubic meters)								Total
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues	Roundwood	Residues	Softwood	Hardwood	
1950	—	—	—	—	—	—	—	—	—
1951	—	—	—	—	—	—	—	—	—
1952	—	—	—	—	—	—	—	—	—
1953	14,123.0	28.4	2,660.8	50.6	16,783.8	79.0	14,151.5	2,711.4	16,862.9
1954	14,091.8	90.6	2,971.5	42.0	17,063.4	132.6	14,182.4	3,013.5	17,196.0
1955	14,706.5	261.5	3,450.4	113.6	18,156.9	375.1	14,968.0	3,564.0	18,532.1
1956	15,910.9	828.5	3,787.4	237.5	19,698.3	1,066.0	16,739.4	4,024.9	20,764.4
1957	14,557.7	1,559.7	3,800.6	218.7	18,358.2	1,778.3	16,117.4	4,019.2	20,136.7
1958	15,041.4	2,113.8	3,630.2	298.0	18,671.6	2,411.9	17,155.2	3,928.3	21,083.6
1959	15,162.3	2,679.2	4,889.7	362.2	20,052.0	3,041.5	17,841.5	5,252.0	23,093.6
1960	14,638.2	3,006.8	5,385.8	408.3	20,024.0	3,415.0	17,644.9	5,794.1	23,439.1
1961	14,877.9	3,282.2	5,581.8	502.4	20,459.6	3,784.6	18,160.1	6,084.2	24,244.4
1962	14,755.8	3,753.8	6,502.4	609.5	21,258.3	4,363.3	18,509.6	7,111.9	25,621.7
1963	15,000.1	4,122.9	6,816.1	735.1	21,816.2	4,858.0	19,123.0	7,551.2	26,674.3
1964	16,666.0	4,773.8	7,165.2	787.3	23,831.2	5,561.1	21,439.8	7,952.5	29,392.4
1965	17,341.0	5,325.4	8,106.0	890.7	25,447.0	6,216.1	22,666.5	8,996.7	31,663.4
1966	19,763.4	5,878.0	8,693.3	1,109.1	28,456.6	6,987.1	25,641.3	9,802.4	35,443.9
1967	20,288.4	6,731.7	8,156.4	1,269.3	28,444.8	8,001.0	27,020.1	9,425.6	36,445.9
1968	23,375.7	7,959.2	9,344.7	1,600.9	32,720.3	9,560.1	31,334.9	10,945.6	42,280.7
1969	26,439.5	8,964.1	10,636.2	2,167.5	37,075.7	11,131.6	35,403.6	12,803.6	48,207.5
1970	27,937.3	8,886.8	10,007.9	2,649.2	37,945.2	11,536.0	36,824.1	12,657.1	49,481.5
1971	27,003.1	11,079.8	10,160.3	2,352.1	37,163.4	13,431.9	38,082.9	12,512.4	50,595.5
1972	27,728.3	11,999.1	11,679.1	2,415.2	39,407.4	14,414.2	39,727.4	14,094.2	53,821.9
1973	27,945.3	14,114.8	12,442.3	3,153.9	40,387.7	17,268.7	42,060.1	15,596.2	57,656.6
1974	29,807.6	13,815.7	13,518.1	3,714.8	43,325.7	17,530.5	43,623.2	17,232.9	60,856.5
1975	26,201.7	13,246.8	9,963.2	2,788.5	36,164.9	16,035.3	39,448.5	12,751.7	52,200.5
1976	27,278.6	16,474.2	11,421.2	3,453.1	38,699.7	19,927.3	43,752.8	14,874.3	58,627.4
1977	26,471.4	17,097.0	10,785.4	3,350.8	37,256.8	20,447.8	43,568.4	14,136.2	57,704.9
1978	26,869.4	17,273.8	12,914.8	3,476.2	39,784.2	20,750.0	44,143.2	16,391.0	60,534.5
1979	30,591.8	18,520.0	13,877.4	4,593.3	44,469.2	23,113.3	49,111.7	18,470.7	67,582.8
1980	32,143.0	16,820.6	13,558.7	5,420.0	45,701.7	22,240.6	48,963.6	18,978.8	67,942.7
1981	31,162.6	16,624.0	12,457.5	6,549.8	43,620.2	23,173.8	47,786.7	19,007.3	66,794.4
1982	28,414.1	16,574.3	12,665.5	5,485.4	41,079.7	22,059.6	44,988.4	18,150.9	63,139.6
1983	28,444.9	18,642.7	16,396.4	5,074.8	44,841.3	23,717.5	47,087.6	21,471.3	68,559.2
1984	29,029.8	19,140.2	16,792.9	6,247.7	45,822.7	25,387.9	48,169.9	23,040.6	71,210.9
1985	27,451.3	18,805.3	16,070.7	5,964.0	43,522.0	24,769.3	46,256.6	22,034.7	68,291.6
1986	29,933.2	19,326.0	17,969.0	6,939.0	47,902.2	26,265.0	49,259.2	24,908.0	74,167.6
1987	29,781.6	19,359.2	18,134.1	8,291.3	47,915.7	27,650.6	49,140.9	26,425.4	75,566.7
1988	30,189.9	19,284.2	18,704.1	8,200.8	48,894.0	27,485.0	49,474.1	26,904.9	76,379.4
1989	30,463.5	18,830.8	20,465.6	5,771.2	50,929.1	24,601.9	49,294.3	26,236.7	75,531.4
1990	36,695.0	18,630.8	19,818.2	7,616.8	56,513.2	26,247.5	55,325.7	27,435.0	82,761.2
1991	36,685.6	19,354.9	20,251.4	5,522.6	56,937.0	24,877.4	56,040.4	25,774.0	81,814.9
1992	36,089.7	21,194.8	21,313.4	7,182.9	57,403.1	28,377.7	57,284.5	28,496.3	85,781.2
1993	33,204.9	21,276.0	20,784.2	7,016.2	53,989.2	28,292.2	54,481.0	27,800.4	82,281.8
1994	35,137.8	21,089.0	22,642.7	7,208.4	57,780.5	28,297.5	56,226.9	29,851.1	86,078.4
1995	37,224.0	20,732.3	26,935.5	7,506.6	64,159.5	28,238.9	57,956.4	34,442.0	92,398.9
1996	36,801.7	19,735.1	26,419.3	6,440.7	63,221.0	26,175.8	56,536.7	32,860.0	89,397.2

^aFrom 1953–1993, data for Kentucky are not included. See Appendix A for description of regions.

Sources: Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

Table 30—Total pulpwood receipts for all U.S. south regions, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cubic meters)								Total
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues	Roundwood	Residues	Softwood	Hardwood	
1950	—	—	—	—	—	—	—	—	—
1951	—	—	—	—	—	—	—	—	—
1952	—	—	—	—	—	—	—	—	—
1953	31,001.8	61.4	4,377.8	105.1	35,379.6	166.5	31,063.2	4,482.9	35,546.1
1954	30,915.7	188.4	4,785.0	88.6	35,700.7	277.0	31,104.1	4,873.6	35,977.7
1955	33,878.8	567.8	5,592.1	252.0	39,470.9	819.8	34,446.6	5,844.2	40,290.7
1956	36,999.6	1,128.4	6,121.0	346.5	43,120.6	1,474.9	38,128.0	6,467.6	44,595.6
1957	34,344.2	2,359.0	6,335.6	321.3	40,679.9	2,680.3	36,703.3	6,656.9	43,360.2
1958	33,937.1	3,523.7	6,492.4	436.5	40,429.5	3,960.1	37,460.8	6,928.8	44,389.7
1959	36,086.0	4,830.3	8,332.4	609.5	44,418.3	5,439.8	40,916.3	8,941.8	49,858.1
1960	35,992.6	5,695.3	9,069.9	816.9	45,062.5	6,512.2	41,687.8	9,886.8	51,574.7
1961	36,074.9	6,242.2	9,706.9	1,051.8	45,781.8	7,294.0	42,317.1	10,758.7	53,075.8
1962	36,585.3	7,113.9	10,980.4	1,362.4	47,565.7	8,476.3	43,699.2	12,342.8	56,042.0
1963	37,339.8	7,807.2	11,519.8	1,578.8	48,859.6	9,386.0	45,146.9	13,098.6	58,245.5
1964	40,439.6	8,712.4	12,338.6	1,690.6	52,778.2	10,403.0	49,152.0	14,029.2	63,181.2
1965	42,533.1	9,456.1	13,544.8	1,970.3	56,077.9	11,426.4	51,989.2	15,515.1	67,504.3
1966	45,453.3	10,242.5	14,419.7	2,479.9	59,873.1	12,722.3	55,695.8	16,899.6	72,595.4
1967	45,466.9	11,401.6	14,143.3	2,917.0	59,610.2	14,318.7	56,868.6	17,060.3	73,928.9
1968	49,001.0	13,602.6	15,858.0	3,149.6	64,858.9	16,752.2	62,603.6	19,007.6	81,611.2
1969	53,749.8	14,748.8	17,803.4	3,777.7	71,553.2	18,526.5	68,498.6	21,581.1	90,079.7
1970	56,763.0	14,580.0	17,054.4	4,496.5	73,817.4	19,076.5	71,343.0	21,550.9	92,893.9
1971	53,002.5	18,144.4	17,006.6	4,325.2	70,009.2	22,469.6	71,146.9	21,331.9	92,478.8
1972	54,589.7	19,708.8	18,999.4	4,420.9	73,589.1	24,129.7	74,298.5	23,420.3	97,718.8
1973	55,566.9	22,820.5	20,161.7	5,434.5	75,728.6	28,255.1	78,387.4	25,596.2	103,983.7
1974	57,680.9	23,048.9	20,898.1	6,810.8	78,579.0	29,859.7	80,729.9	27,708.9	108,438.7
1975	50,127.6	22,089.3	16,140.2	5,134.7	66,267.8	27,224.0	72,216.8	21,275.0	93,491.8
1976	51,972.1	27,905.1	18,658.3	6,177.5	70,630.4	34,082.5	79,877.2	24,835.7	104,712.9
1977	52,066.1	30,927.9	18,525.2	6,189.3	70,591.4	37,117.3	82,994.1	24,714.6	107,708.6
1978	53,057.0	30,613.2	21,348.6	6,632.7	74,405.6	37,245.9	83,670.3	27,981.3	111,651.5
1979	57,635.4	32,325.4	21,433.5	8,627.1	79,068.8	40,952.4	89,960.8	30,060.5	120,021.3
1980	60,146.3	29,800.7	21,477.0	9,010.9	81,623.3	38,811.6	89,946.9	30,487.9	120,434.8
1981	59,363.3	29,197.9	21,378.5	9,954.4	80,741.8	39,152.2	88,561.1	31,332.9	119,894.0
1982	56,343.7	28,739.8	21,650.6	8,500.4	77,994.4	37,240.2	85,083.5	30,151.1	115,234.6
1983	56,664.5	32,647.5	26,534.9	9,052.4	83,199.4	41,699.9	89,312.0	35,587.2	124,899.3
1984	58,174.0	34,054.4	27,127.9	10,207.8	85,301.9	44,262.2	92,228.4	37,335.7	129,564.1
1985	55,467.5	34,049.7	26,508.8	9,616.6	81,976.2	43,666.3	89,517.2	36,125.3	125,642.5
1986	59,644.0	34,412.8	29,473.4	10,181.9	89,117.5	44,594.7	94,056.8	39,655.4	133,712.2
1987	61,463.3	35,731.2	29,179.9	11,324.5	90,643.2	47,055.7	97,194.6	40,504.3	137,698.9
1988	60,771.7	34,440.5	30,502.0	11,408.6	91,273.6	45,849.1	95,212.2	41,910.6	137,122.8
1989	60,455.1	33,182.4	31,785.8	9,065.4	92,240.9	42,247.8	93,637.5	40,851.2	134,488.7
1990	69,244.9	32,351.5	31,482.2	10,671.0	100,727.0	43,022.5	101,596.3	42,153.2	143,749.5
1991	70,520.5	31,872.5	32,411.3	8,999.7	102,931.8	40,872.2	102,393.0	41,411.0	143,804.0
1992	70,428.4	35,203.7	33,801.6	10,694.7	104,230.0	45,898.4	105,632.1	44,496.4	150,128.4
1993	66,262.5	34,226.1	35,802.9	10,060.4	102,065.3	44,286.5	100,488.6	45,863.3	146,351.8
1994	68,574.3	35,320.7	36,934.8	10,473.4	105,509.1	45,794.1	103,895.1	47,408.1	151,303.2
1995	71,941.2	34,353.0	42,824.7	11,544.3	114,766.0	45,897.3	106,294.2	54,369.0	160,663.2
1996	69,196.5	32,562.7	40,309.6	9,542.0	109,506.1	42,104.7	101,759.3	49,851.5	151,610.8

^aFrom 1953–1993, data for Kentucky are not included in the South Central region. See Appendix A for description of regions.

Sources: Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

Table 31—Total pulpwood receipts for all U.S. west regions, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cubic meters)								Total
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues	Roundwood	Residues	Softwood	Hardwood	
1950	5,255.0	3,728.7	0.0	0.0	5,255.0	3,728.7	8,983.7	0.0	8,983.7
1951	6,154.1	4,383.8	0.0	0.0	6,154.1	4,383.8	10,537.9	0.0	10,537.9
1952	6,110.4	4,478.7	47.5	0.0	6,157.9	4,478.7	10,589.2	47.5	10,636.7
1953	6,267.6	4,723.1	55.8	0.3	6,323.4	4,723.4	10,990.8	56.0	11,046.8
1954	7,762.1	6,024.2	166.4	2.3	7,928.5	6,026.5	13,786.2	168.7	13,955.0
1955	8,512.4	6,724.5	254.4	6.1	8,766.8	6,730.6	15,236.9	260.5	15,497.4
1956	9,381.0	7,525.5	368.5	12.5	9,749.6	7,538.0	16,906.5	381.0	17,287.6
1957	9,621.9	7,838.7	373.6	16.6	9,995.5	7,855.3	17,460.6	390.2	17,850.8
1958	9,289.3	7,692.3	403.2	22.3	9,692.5	7,714.7	16,981.7	425.6	17,407.2
1959	9,759.0	8,232.6	590.4	39.3	10,349.4	8,272.0	17,991.6	629.8	18,621.4
1960	10,077.9	8,665.0	804.7	63.0	10,882.6	8,728.0	18,743.0	867.7	19,610.7
1961	10,225.1	11,487.7	703.6	82.4	10,928.7	11,570.1	21,712.8	786.0	22,498.8
1962	10,526.7	12,022.7	666.0	96.2	11,192.7	12,118.9	22,549.4	762.2	23,311.6
1963	10,662.5	14,244.6	825.2	119.5	11,487.7	14,364.2	24,907.1	944.8	25,851.9
1964	9,642.2	16,096.7	802.1	294.3	10,444.3	16,391.1	25,738.9	1,096.5	26,835.4
1965	11,012.9	17,967.9	1,043.8	201.1	12,056.7	18,169.0	28,980.8	1,244.9	30,225.7
1966	11,157.7	17,599.7	962.6	335.5	12,120.3	17,935.2	28,757.5	1,298.0	30,055.5
1967	11,268.7	19,149.4	648.7	204.6	11,917.3	19,354.0	30,418.1	853.3	31,271.3
1968	11,846.9	19,722.0	820.6	116.2	12,667.6	19,838.2	31,568.9	936.8	32,505.7
1969	13,126.6	18,349.6	708.2	329.2	13,834.8	18,678.8	31,476.2	1,037.3	32,513.5
1970	16,158.9	18,647.8	760.8	426.1	16,919.6	19,073.9	34,806.7	1,186.8	35,993.5
1971	12,107.5	20,457.7	753.4	396.1	12,860.9	20,853.8	32,565.2	1,149.5	33,714.8
1972	7,387.8	25,095.6	763.4	675.1	8,151.2	25,770.6	32,483.3	1,438.5	33,921.8
1973	5,166.8	27,777.0	953.0	497.7	6,119.8	28,274.8	32,943.8	1,450.8	34,394.6
1974	9,286.8	25,713.9	1,535.0	815.9	10,821.8	26,529.8	35,000.7	2,350.9	37,351.6
1975	5,533.3	24,406.9	1,109.4	664.1	6,642.6	25,070.9	29,940.1	1,773.4	31,713.6
1976	9,878.5	22,837.3	1,573.3	236.6	11,451.8	23,073.8	32,715.7	1,809.9	34,525.6
1977	8,168.1	25,276.1	1,235.3	284.2	9,403.4	25,560.3	33,444.2	1,519.5	34,963.7
1978	7,739.0	22,569.3	1,055.6	207.0	8,794.6	22,776.3	30,308.3	1,262.6	31,570.9
1979	11,673.9	20,964.8	1,081.3	187.5	12,755.2	21,152.3	32,638.7	1,268.9	33,907.6
1980	12,148.3	24,811.7	1,387.6	281.2	13,535.9	25,092.9	36,960.0	1,668.8	38,628.8
1981	8,150.4	25,188.1	1,408.7	421.1	9,559.1	25,609.2	33,338.5	1,829.8	35,168.3
1982	7,861.4	21,515.5	1,354.9	567.6	9,216.3	22,083.1	29,376.9	1,922.5	31,299.5
1983	7,141.3	27,328.0	958.1	330.3	8,099.4	27,658.3	34,469.3	1,288.4	35,757.7
1984	8,824.6	27,734.2	1,526.3	637.0	10,350.9	28,371.2	36,558.7	2,163.3	38,722.0
1985	8,110.2	26,372.2	1,462.3	898.4	9,572.5	27,270.6	34,482.5	2,360.7	36,843.1
1986	9,459.6	27,993.1	1,489.6	799.9	10,949.1	28,793.0	37,452.7	2,289.5	39,742.1
1987	11,784.4	27,670.7	1,564.6	733.6	13,349.0	28,404.4	39,455.2	2,298.2	41,753.4
1988	12,863.2	27,859.9	1,588.7	813.1	14,452.0	28,673.0	40,723.2	2,401.8	43,125.0
1989	13,616.6	27,572.1	763.5	502.4	14,380.1	28,074.5	41,188.7	1,265.9	42,454.6
1990	9,933.4	22,832.9	1,113.2	1,042.5	11,046.6	23,875.4	32,766.3	2,155.7	34,922.0
1991	9,928.5	20,904.2	684.7	1,137.5	10,613.2	22,041.7	30,832.7	1,822.2	32,654.9
1992	9,178.5	18,517.6	1,020.4	739.9	10,198.9	19,257.6	27,696.1	1,760.3	29,456.4
1993	7,045.2	17,399.9	938.7	969.6	7,983.9	18,369.5	24,445.0	1,908.3	26,353.4
1994	6,304.9	17,546.0	989.5	1,051.3	7,294.4	18,597.3	23,850.8	2,040.9	25,891.7
1995	10,491.1	16,839.5	1,289.9	773.9	11,780.9	17,613.4	27,330.6	2,063.8	29,394.4
1996	8,574.5	14,899.8	1,053.6	671.4	9,628.1	15,571.3	23,474.3	1,725.0	25,199.3

^aData for 1950–1967 represent consumption. See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993); 1990–1996 from American Pulpwood Association (1996a,b, 1997).

Table 32—Total pulpwood receipts for all U.S. regions, 1950–1996^a

Year	Pulpwood receipts (x10 ³ cubic meters)								Total
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues	Roundwood	Residues	Softwood	Hardwood	
1950	—	—	—	—	—	—	—	—	—
1951	—	—	—	—	—	—	—	—	—
1952	—	—	—	—	—	—	—	—	—
1953	49,221.6	4,784.5	11,440.2	152.3	60,661.9	4,936.9	54,006.2	11,592.6	65,598.7
1954	50,019.8	6,214.6	10,443.3	153.0	60,463.0	6,367.6	56,234.3	10,596.3	66,830.6
1955	54,685.9	7,351.7	12,111.1	345.2	66,797.0	7,696.9	62,037.6	12,456.3	74,493.9
1956	59,188.6	8,778.6	13,395.9	471.9	72,584.5	9,250.6	67,967.2	13,867.8	81,835.0
1957	55,727.9	10,366.5	13,594.8	471.4	69,322.7	10,838.0	66,094.4	14,066.2	80,160.6
1958	54,419.6	11,424.1	14,062.9	611.3	68,482.5	12,035.4	65,843.7	14,674.1	80,517.9
1959	57,024.1	13,320.5	16,951.1	838.7	73,975.2	14,159.2	70,344.6	17,789.8	88,134.4
1960	57,334.8	14,675.1	18,196.4	1,143.5	75,531.3	15,818.7	72,010.0	19,340.0	91,349.9
1961	57,353.9	18,086.7	19,212.2	1,442.3	76,566.1	19,529.0	75,440.6	20,654.5	96,095.1
1962	57,955.8	19,645.0	20,919.1	1,861.1	78,875.0	21,506.0	77,600.8	22,780.2	100,381.0
1963	58,792.5	22,735.5	21,938.3	2,374.0	80,730.8	25,109.6	81,528.0	24,312.3	105,840.4
1964	60,161.1	26,168.3	22,636.7	2,895.4	82,797.8	29,063.7	86,329.4	25,532.1	111,861.5
1965	63,371.7	28,899.2	24,575.0	3,307.4	87,946.8	32,206.7	92,270.9	27,882.5	120,153.4
1966	67,238.0	29,498.3	26,799.5	4,321.9	94,037.5	33,820.2	96,736.3	31,121.4	127,857.7
1967	67,497.2	32,389.7	25,816.8	5,030.4	93,314.1	37,420.1	99,886.9	30,847.3	130,734.2
1968	71,465.5	34,859.4	26,636.4	5,192.9	98,101.9	40,052.4	106,324.9	31,829.4	138,154.3
1969	77,212.6	34,785.8	29,817.7	6,435.6	107,030.3	41,221.5	111,998.5	36,253.3	148,251.8
1970	84,098.1	34,997.9	27,580.9	7,024.2	111,679.0	42,022.0	119,096.0	34,605.1	153,701.1
1971	75,655.6	40,251.8	28,716.4	7,475.7	104,371.9	47,727.5	115,907.4	36,192.1	152,099.5
1972	71,254.2	46,760.7	30,404.2	8,313.4	101,658.4	55,074.1	118,014.9	38,717.5	156,732.4
1973	70,430.3	52,791.1	33,254.6	8,997.5	103,684.8	61,788.6	123,221.4	42,252.1	165,473.4
1974	76,997.4	52,024.2	36,326.5	11,714.5	113,323.9	63,738.7	129,021.6	48,041.0	177,062.6
1975	65,102.4	48,515.5	27,012.2	8,843.7	92,114.6	57,359.2	113,617.9	35,855.9	149,473.9
1976	71,753.9	53,375.2	30,725.1	10,388.4	102,479.0	63,763.6	125,129.1	41,113.5	166,242.7
1977	69,658.4	59,337.8	30,361.9	10,594.3	100,020.3	69,932.1	128,996.2	40,956.3	169,952.5
1978	71,334.2	57,207.1	33,605.9	11,017.1	104,940.1	68,224.2	128,541.3	44,623.1	173,164.3
1979	79,755.1	56,552.9	34,494.6	12,862.4	114,249.7	69,415.3	136,308.1	47,356.9	183,665.0
1980	83,304.1	58,390.5	34,159.2	14,932.3	117,463.2	73,322.9	141,694.6	49,091.5	190,786.1
1981	80,246.7	56,971.6	35,336.2	14,462.0	115,582.9	71,433.6	137,218.3	49,798.2	187,016.5
1982	75,953.1	52,851.7	34,333.5	13,122.3	110,286.6	65,974.0	128,804.8	47,455.9	176,260.7
1983	74,938.8	62,511.0	40,937.8	13,781.2	115,876.6	76,292.2	137,449.8	54,719.0	192,168.8
1984	76,106.5	63,879.4	41,263.0	14,251.8	117,369.6	78,131.2	139,985.9	55,514.8	195,500.7
1985	74,275.4	63,102.0	44,131.1	14,632.2	118,406.5	77,734.2	137,377.4	58,763.3	196,140.7
1986	79,996.9	65,077.0	49,726.9	14,803.8	129,723.8	79,880.8	145,073.9	64,530.7	209,604.6
1987	83,477.5	66,062.6	48,075.4	16,617.7	131,552.9	82,680.2	149,540.1	64,693.0	214,233.1
1988	84,040.6	65,028.3	49,436.2	16,920.3	133,476.8	81,948.6	149,068.9	66,356.5	215,425.4
1989	85,066.8	63,582.5	49,932.6	14,374.5	134,999.4	77,957.0	148,649.2	64,307.2	212,956.4
1990	88,746.0	57,780.3	49,917.2	15,942.6	138,663.2	73,722.9	146,526.3	65,859.8	212,386.2
1991	90,125.4	55,714.6	50,537.6	14,267.1	140,663.1	69,981.7	145,840.0	64,804.7	210,644.7
1992	89,336.1	56,857.7	53,008.8	15,632.2	142,344.9	72,489.9	146,193.8	68,641.0	214,834.8
1993	84,067.5	54,356.6	54,966.4	15,643.5	139,033.9	70,000.1	138,424.1	70,609.9	209,034.0
1994	85,564.0	55,599.7	57,039.7	16,564.5	142,603.7	72,164.2	141,163.8	73,604.2	214,768.0
1995	91,304.1	53,544.5	62,118.7	16,636.1	153,422.8	70,180.7	144,848.6	78,754.8	223,603.4
1996	86,715.4	49,356.4	58,454.8	13,984.4	145,170.2	63,340.8	136,071.8	72,439.2	208,511.0

^aData for 1950–1967 represent consumption for all north and south regions. From 1953–1993, data for Kentucky not included in South Central region. See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993); 1990–1996 from American Pulpwood Association (1996a,b, 1997), Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).

Appendix A
Definition of U.S. Forestry Regions By Source

USDA Forest Service RPA Assessment Regions	American Pulpwood Association	USDA Forest Service Southern Pulpwood Reports
Northeast	Northeast	
Connecticut	Connecticut	
Delaware	ni ^a	
Maine	ni	
Maryland		
Massachusetts	ni	
New Hampshire	New Hampshire	
New Jersey	New Jersey	
New York	New York	
Pennsylvania	Pennsylvania	
Rhode Island	Rhode Island	
Vermont	Vermont	
West Virginia	ni	
North Central	North Central	
Illinois	Illinois	
Indiana	Indiana	
Iowa	Iowa	
Kansas	ni	
Michigan	Michigan	
Minnesota	Minnesota	
Missouri	Missouri	
Nebraska	ni	
North Dakota	ni	
Ohio	Ohio	
South Dakota	ni	
Wisconsin	Wisconsin	
Southeast	South Atlantic	Southeast
Florida	Florida	Florida
Georgia	Georgia	Georgia
North Carolina	North Carolina	North Carolina
South Carolina	South Carolina	South Carolina
Virginia	Virginia/Maryland	Virginia
South Central	South Central	South Central
Alabama	Alabama	Alabama
Arkansas	Arkansas	Arkansas
Kentucky		Kentucky
Louisiana	Louisiana	Louisiana
Mississippi	Mississippi	Mississippi
Oklahoma		Oklahoma
Tennessee	Tennessee/Kentucky	Tennessee
Texas	Texas/Oklahoma	Texas
West	West	
Idaho	Idaho	
Montana	Montana	
Arizona	Arizona	
Colorado	ni	
Nevada	ni	
New Mexico	ni	
Utah	ni	
Wyoming	ni	
California	California	
Oregon	Oregon	
Washington	Washington	

^ani, no indication.

Appendix B
Conversion Factors

Region	Pulpwood (cubic feet per standard cord)	
	Softwood	Hardwood
Northeast	85.0	85.0
North Central	79.0	79.5
Southeast (South Atlantic)	74.6	75.2
South Central	81.0	80.1
West	86.0	78.0

1 m³ = 35.314662 ft³.

Source: Rocky Mountain Forest and Range Experiment
Station (1990); ASTM (1991).

Appendix C
Effect of Choice of Conversion Factor on Calculation of Total U.S. Pulpwood Receipts
(One cord = 85 ft³ for all regions)^a

Year	Pulpwood receipts (x10 ³ cubic meters)								Total
	Softwood roundwood	Softwood residues	Hardwood roundwood	Hardwood residues	Roundwood	Residues	Softwood	Hardwood	
1953	52,534.5	4,735.6	12,136.1	162.5	64,670.6	4,898.2	57,270.1	12,298.6	69,568.7
1954	53,275.6	6,162.6	11,073.1	161.9	64,348.7	6,324.5	59,438.3	11,235.0	70,673.2
1955	58,310.1	7,329.1	12,849.5	370.7	71,159.5	7,699.8	65,639.1	13,220.2	78,859.3
1956	63,130.2	8,773.8	14,216.3	501.8	77,346.5	9,275.7	71,904.1	14,718.1	86,622.2
1957	59,402.4	10,463.8	14,437.4	499.7	73,839.9	10,963.5	69,866.3	14,937.1	84,803.4
1958	58,000.8	11,635.6	14,959.9	649.5	72,960.7	12,285.1	69,636.4	15,609.4	85,245.8
1959	60,895.7	13,657.0	18,067.4	897.4	78,963.1	14,554.4	74,552.7	18,964.8	93,517.5
1960	61,240.5	15,097.8	19,390.5	1,230.5	80,631.0	16,328.3	76,338.3	20,621.0	96,959.4
1961	61,230.7	18,529.1	20,509.3	1,556.9	81,740.0	20,085.9	79,759.8	22,066.1	101,825.9
1962	61,902.3	20,166.6	22,329.7	2,015.7	84,232.0	22,182.3	82,068.9	24,345.4	106,414.3
1963	62,816.3	23,303.4	23,427.9	2,563.3	86,244.2	25,866.8	86,119.8	25,991.2	112,111.0
1964	64,452.9	26,783.5	24,223.5	3,116.8	88,676.4	29,900.3	91,236.4	27,340.3	118,576.7
1965	67,876.8	29,545.5	26,303.3	3,561.8	94,180.1	33,107.3	97,422.3	29,865.1	127,287.4
1966	71,966.1	30,214.2	28,666.4	4,648.7	100,632.5	34,862.9	102,180.3	33,315.1	135,495.4
1967	72,128.5	33,177.9	27,617.4	5,400.9	99,745.8	38,578.8	105,306.3	33,018.3	138,324.6
1968	76,276.5	35,841.2	28,509.4	5,556.5	104,785.9	41,397.7	112,117.7	34,065.9	146,183.6
1969	82,410.8	35,862.0	31,916.9	6,879.3	114,327.7	42,741.3	118,272.8	38,796.2	157,069.0
1970	89,566.7	36,059.3	29,497.3	7,530.0	119,064.0	43,589.3	125,626.0	37,027.3	162,653.3
1971	80,710.4	41,592.9	30,719.0	8,014.8	111,429.4	49,607.6	122,303.3	38,733.8	161,037.1
1972	76,501.4	48,188.4	32,558.6	8,885.7	109,060.0	57,074.1	124,689.7	41,444.3	166,134.0
1973	75,808.3	54,447.6	35,558.2	9,629.0	111,366.4	64,076.6	130,255.9	45,187.2	175,443.1
1974	82,481.5	53,779.6	38,814.2	12,561.4	121,295.7	66,341.0	136,261.1	51,375.6	187,636.7
1975	69,886.4	50,171.8	28,867.2	9,501.7	98,753.5	59,673.5	120,058.2	38,368.9	158,427.1
1976	76,674.6	55,599.5	32,905.0	11,125.1	109,579.6	66,724.7	132,274.1	44,030.2	176,304.3
1977	74,668.3	61,895.2	32,530.9	11,358.0	107,199.1	73,253.1	136,563.4	43,888.8	180,452.3
1978	76,488.5	59,735.7	35,967.7	11,825.7	112,456.2	71,561.4	136,224.2	47,793.4	184,017.5
1979	85,178.0	59,233.1	36,850.5	13,855.9	122,028.5	73,089.0	144,411.1	50,706.4	195,117.5
1980	88,914.5	60,839.4	36,502.4	16,001.6	125,416.9	76,841.0	149,753.9	52,504.0	202,257.9
1981	85,892.0	59,306.6	37,799.4	15,497.6	123,691.4	74,804.1	145,198.6	53,296.9	198,495.5
1982	81,425.0	55,173.1	36,738.8	14,070.8	118,163.8	69,243.9	136,598.1	50,809.6	187,407.7
1983	80,422.5	65,115.9	43,804.8	14,835.2	124,227.3	79,951.1	145,538.4	58,640.0	204,178.4
1984	81,703.6	66,614.9	44,235.7	15,349.7	125,939.4	81,964.5	148,318.5	59,585.4	207,903.9
1985	79,661.6	65,886.4	47,179.5	15,712.0	126,841.1	81,598.4	145,548.0	62,891.4	208,439.5
1986	85,758.5	67,846.4	53,177.7	15,863.9	138,936.2	83,710.2	153,604.9	69,041.6	222,646.5
1987	89,469.5	69,019.2	51,427.9	17,755.7	140,897.4	86,774.9	158,488.6	69,183.6	227,672.2
1988	89,919.6	67,810.6	52,913.2	18,086.8	142,832.8	85,897.4	157,730.2	71,000.0	228,730.2
1989	90,873.6	66,224.5	53,360.2	15,386.5	144,233.7	81,611.0	157,098.1	68,746.7	225,844.7
1990	95,216.1	60,382.5	53,431.5	17,068.5	148,647.6	77,451.0	155,598.5	70,500.0	226,098.6
1991	96,790.7	58,202.3	54,126.9	15,317.0	150,917.5	73,519.3	154,993.0	69,443.8	224,436.8
1992	96,079.9	59,682.8	56,734.5	16,735.4	152,814.4	76,418.2	155,762.7	73,469.9	229,232.6
1993	90,550.7	57,052.5	58,973.0	16,689.4	149,523.7	73,741.9	147,603.2	75,662.4	223,265.6
1994	92,214.2	58,460.9	61,103.5	17,667.7	153,317.7	76,128.6	150,675.1	78,771.1	229,446.3
1995	98,149.2	56,309.7	66,616.9	17,829.9	164,766.2	74,139.6	154,458.9	84,446.9	238,905.8
1996	93,240.3	51,978.0	62,613.5	14,954.7	155,853.7	66,932.7	145,218.2	77,568.2	222,786.4

^aData for 1950 to 1967 represent consumption for all north and south regions. From 1953 to 1993, data for Kentucky not included in South Central region. See Appendix A for description of regions.

Sources: 1950–1989 from Ingram and others (1993), 1990–1996 from American Pulpwood Association (1996a,b, 1997), Johnson (1996), Johnson and Howell (1996), Johnson and Steppleton (1996, 1997).