



MTN – 32C

2016 Harvest of Forest Products¹
Forest Economics

February 2017

The Mississippi forest industry harvested and delivered \$1.51 billion worth of forest products to mills and other processors in 2016. The forest industry in Mississippi and the harvest volumes in this report include all producers and harvesters of forest products paying a timber severance tax collected by the Mississippi Department of Revenue. The total estimated value of the 2016 Mississippi timber harvest delivered to the point of first processing (such as a pulpwood yard or sawmill) was \$1,513,649,911. The estimated volume and value by product is presented in Table 1. The 2016 harvest value is 9.9% lower than the 2015 value of \$1.67 billion. This decrease is attributed to decreases in the volumes harvested of hardwood sawtimber, hardwood pulpwood, pine poles, and crossties. (Table 2) A comparison of 2016 and 2015 Mississippi timber product prices is presented in Table 3.

Timber remains the second most valuable agricultural commodity in Mississippi for 2016. Poultry and eggs were first, with a value of \$2.9 billion, and soybeans third at \$1.01 billion. Mississippi's forest landowners collected \$848.1 million for their standing timber in 2016, a decrease of 13.1% from 2015. The estimated value of the harvesting and transportation sector², which is the difference between the delivered and standing values, was \$663.5 million. The 2016 value of the harvesting and transportation sector accounted for 43.9% of the total harvest value as compared to 41.4% of the total harvest in 2015.

Severance tax collections on forest products were \$3,778,900 in 2016, which is 1.1% lower than 2015. Twenty percent of severance tax collections, or about \$755,888, is returned to counties where the timber was harvested. Eighty percent, or about \$3,023,013, is allocated to the Forest Resource Development Program (FRDP) to provide cost share funds to nonindustrial private forest landowners for reforestation and other forest management activities.

A comparison between 2016 and 2015 harvest volumes and delivered values by product category is presented in Table 2. The harvest volume of pine sawtimber increased 27.9% and the value increased 20.3%. The volume of hardwood sawtimber decreased by 36.1% while the value decreased 31%. Pine pulpwood volume increased by 7.1% and the value by 6.9%, while hardwood pulpwood volume decreased by 22.1% with an associated value decrease of 19.4%. Pine poles remained relatively steady with only a decrease of 4.1% in volume and 3.6% in value. Crossties volume saw the highest decrease from 2015 with a loss of 39.7% and a value drop of 30.2%. Christmas tree harvest increased only 1.7% while the value of those trees increased by 19.8%.

¹ By John B. Auel, Assistant Extension Professor, Forestry and James E. Henderson, Professor and Head, Coastal Research and Extension Center.

² This sector includes logging firms, contractual services, contractual trucking, timber buyers, and wood dealers.

The demand for pine sawtimber increased in 2016 as evidenced by a 27.9% increase in harvest volume over 2015 and a corresponding 20.3% increase in the value. U.S. housing starts in 2016 (an indicator of new home construction tracked by the U.S. Census Bureau) was up 5.7% from 2015 levels. However, delivered prices of pine sawtimber decreased 5.9% in 2016 indicating an excess of supply of standing sawtimber in Mississippi.

The demand for hardwood sawtimber dropped considerably in 2016. The volume harvested was down 36.1% from 2015 and the value of the harvest dropped by 31%. The crosstie market suffered more in 2016 with a 39.7% drop in the volume harvested and a loss of 30.2% of the value from 2015. The steep increase in demand reported in the 2015 Harvest of Forest Products was short lived and harvest levels and values appear to be normalizing.

Demand for pine pulpwood increased 7.1% in 2016 while delivered price dropped by 3.6%. Hardwood pulpwood demand dropped by 22.1% in 2016, but the delivered price increased 3.1% over 2015 average prices.

Harvested volumes by product and by county obtained from the Mississippi Department of Revenue are presented in Table 4. For information on current Mississippi timber prices, consult the Mississippi Timber Price Report available at extension.msstate.edu. Select "Natural Resources" then "Forestry" then "Forest Economics" and then "Timber Prices". For more information on timber marketing, harvesting, or prices, contact your local County Extension office or the Mississippi State University Department of Forestry, Box 9681, Mississippi State, MS 39762. Also, please visit our blog <http://blogs.msucare.com/forestry/> and sign up for email updates to review the latest information from Forestry Extension on publications and educational programs.

Table 1. Estimated volumes and values of the 2016 timber harvest.

Product/Unit³	Volume	Standing Value⁴ Dollars	Delivered Value Dollars
Pine Sawlogs, MBF, D	1,851,904	334,199,396	623,364,493
Hardwood Sawlogs⁵, MBF, D	970,506	400,728,744	566,909,455
Pine Pulpwood, Cords	3,158,807	62,754,878	220,619,275
Hardwood Pulpwood, Cords	540,861	13,072,734	46,184,736
Poles, Cunits	59,473	7,515,778	10,804,774
Crossties⁶, MBF, D	80,376	29,850,411	43,754,178
Christmas Trees⁷, Tree	30,500	(***) ⁸	2,013,000
Total Value		848,121,941	1,513,649,911

³ Unit abbreviations: MBF = thousand board feet, and D = Doyle Log Rule. Cunit = 100 cubic feet.

⁴ Standing and delivered values calculated using regional (north and south Mississippi) volumes reported by the Miscellaneous Tax Division of the Mississippi Department of Revenue and product prices from sources such as Timber Mart-South.

⁵ Composite price for hardwood sawlogs calculated under the assumption that hardwood sawmills cut 70% oak and 30% mixed hardwood.

⁶ Crosstie values calculated using standing and delivered values for mixed hardwood sawtimber prices by region.

⁷ Christmas trees values and volumes estimated by Mississippi State University Extension Professor, Stephen Dicke.

⁸ Not reported since most trees are sold as Choose-N-Cut.

Table 2. Comparison of 2015 and 2016 harvest volumes and delivered values by product.

Product/Unit ⁹	2015		2016			
	Volume	Value (\$)	Volume	% Change	Value (\$)	% Change
Pine Sawlogs, MBF, D	1,448,316	518,291,455	1,851,904	27.9	623,364,493	20.3
Hardwood Sawlogs, MBF, D	1,519,700	821,966,444	970,506	-36.1	566,909,455	-31.0
Pine Pulpwood, Cords	2,948,526	206,294,059	3,158,807	7.1	220,619,275	6.9
Hardwood Pulpwood, Cords	694,319	57,323,018	540,861	-22.1	46,184,736	-19.4
Poles, Cunits	62,041	11,212,604	59,473	-4.1	10,804,774	-3.6
Crossties, MBF, D	133,271	62,708,099	80,376	-39.7	43,754,178	-30.2
Christmas Trees, Tree	30,000	1,680,000	30,500	1.7	2,013,000	19.8
Total Value		1,679,475,679			1,513,649,911	-9.9

⁹ Unit abbreviations: MBF = thousand board feet, and D = Doyle Log Rule. Cunit = 100 cubic feet.

Table 3. Comparison of 2015 and 2016 Mississippi major product prices¹⁰.

		Standing Prices Per Ton ¹¹				Delivered Prices Per Ton			
			Statewide Average				Statewide Average		
Product	Region	2016 Average	2016	2015	% Change	2016 Average	2016	2015	% Change
Pine Pulpwood	North	6.07	7.65	7.88	-3.0%	26.38	26.86	27.86	-3.6%
	South	9.23				27.35			
Hardwood Pulpwood	North	8.07	8.37	9.42	-11.2%	29.06	29.50	28.62	3.1%
	South	8.67				29.93			
Pine Sawtimber	North	22.24	23.68	26.72	-11.5%	44.52	44.80	47.62	-5.9%
	South	25.03				45.08			
Mixed Hardwood Sawtimber	North	39.47	41.37	33.89	22.1%	61.37	61.91	54.03	14.6%
	South	43.28				62.45			
Oak Sawtimber	North	49.38	49.32	47.07	4.8%	68.04	68.50	65.46	4.6%
	South	49.25				68.96			
Pine Poles	North	46.57	44.39	41.10	8.0%	65.91	63.58	62.48	1.8%
	South	42.22				61.25			

¹⁰ Data source: Timber Mart-South

¹¹ Timber Mart-South started reporting price per ton only during 2016. Values from 2015 were converted to price per ton using standard conversion factors in order to make the comparison between years.

Table 4. Mississippi's 2016 harvested timber volumes by product and county.

	PINE LUMBER	HARDWOOD LUMBER	PINE SAWTIMBER	HARDWOOD SAWTIMBER	PINE PULPWOOD	HARDWOOD PULPWOOD	PINE POLES	CROSSTIES	PINE CHIPS	HARDWOOD CHIPS
COUNTY	MBF	MBF	MBF,D	MBF,D	CORDS	CORDS	C CU FT	MBF,D	TONS	TONS
NORTHERN REGION										
ALCORN	0.0	0.0	2,716.0	485.9	60,877.0	6,151.0	0.0	0.0	0.0	3,158.0
ATTALA	0.0	0.0	56,224.1	12,016.5	128,268.0	6,020.0	4,234.0	426.0	0.0	0.0
BENTON	0.0	0.0	6,478.5	506.0	12,092.0	8,089.0	0.0	0.0	0.0	2,425.0
BOLIVAR	0.0	15.0	663.0	10,359.8	0.0	5,329.0	0.0	0.0	0.0	0.0
CALHOUN	0.0	0.0	39,596.4	1,927.7	48,341.0	10,355.0	437.0	0.0	0.0	0.0
CARROLL	0.0	0.0	16,183.9	10,735.7	69,238.0	7,419.0	447.0	56.0	0.0	0.0
CHICKASAW	0.0	0.0	34,039.1	553.7	29,651.0	5,181.0	1,007.0	35.0	0.0	0.0
CHOCTAW	0.0	0.0	27,545.6	4,644.0	67,730.0	31.0	2,163.0	13.0	0.0	0.0
CLAY	0.0	129.0	11,431.6	8,366.2	12,843.0	6,891.0	0.0	1,539.0	0.0	0.0
COAHOMA	0.0	0.0	68.7	2,747.7	0.0	704.0	0.0	0.0	0.0	0.0
DESOTO	0.0	0.0	334.0	2,736.9	1,253.0	912.0	0.0	0.0	0.0	0.0
GRENADA	0.0	0.0	8,017.2	5,529.3	59,487.0	414.0	190.0	0.0	0.0	0.0
HOLMES	0.0	0.0	12,972.1	9,036.7	47,903.0	14,649.0	411.0	41.0	0.0	0.0
HUMPHRIES	0.0	0.0	0.0	281.6	20.0	964.0	0.0	0.0	0.0	0.0
ISSAQUENA	0.0	174.0	0.0	6,564.1	127.0	12,497.0	0.0	0.0	0.0	0.0
ITAWAMBA	0.0	170.0	26,599.9	6,764.9	18,393.0	33,783.0	47.0	245.0	3,347.0	1,429.0
KEMPER	0.0	529.0	58,314.7	23,111.5	94,108.0	354.0	4,068.0	609.0	0.0	0.0
LAFAYETTE	0.0	0.0	13,574.1	1,422.1	34,490.0	12,345.0	0.0	4.0	0.0	0.0
LEAKE	0.0	19.0	40,266.7	15,260.8	99,412.0	3,043.0	2,302.0	3,993.0	0.0	0.0
LEE	0.0	0.0	1,368.9	833.0	1,077.0	4,971.0	0.0	0.0	0.0	129.0
LEFLORE	0.0	0.0	10.1	5,566.5	207.0	2,095.0	0.0	0.0	0.0	0.0
LOWNDES	0.0	169.0	6,172.0	2,871.0	13,389.0	639.0	99.0	1,504.0	0.0	0.0
MADISON	0.0	12.0	20,142.8	10,049.0	87,640.0	12,338.0	843.0	926.0	0.0	0.0
MARSHALL	0.0	0.0	4,864.8	582.7	17,219.0	7,982.0	0.0	0.0	0.0	989.0
MONROE	0.0	0.0	19,397.9	6,837.2	25,705.0	27,748.0	11.0	1,353.0	4,416.0	0.0
MONTGOMERY	0.0	0.0	25,116.9	7,722.9	75,981.0	754.0	735.0	4.0	0.0	0.0
NESHOBA	0.0	91.0	44,074.2	25,177.4	39,027.0	278.0	2,214.0	4,410.0	3,508.0	0.0
NOXUBEE	0.0	261.0	24,905.5	8,124.1	87,396.0	0.0	417.0	416.0	0.0	0.0
OKTIBBEHA	0.0	21.0	14,831.7	3,266.5	23,930.0	576.0	156.0	1,833.0	0.0	0.0
PANOLA	0.0	0.0	3,385.5	5,348.1	23,890.0	219.0	11.0	0.0	0.0	0.0
PONTOTOC	0.0	157.0	15,915.9	433.7	20,727.0	11,991.0	7.0	0.0	0.0	0.0
PRENTISS	0.0	0.0	7,352.9	1,181.7	61,740.0	19,916.0	0.0	0.0	0.0	1,759.0
QUITMAN	0.0	0.0	0.0	1,021.4	0.0	51.0	0.0	0.0	0.0	0.0
SHARKEY	0.0	231.0	0.0	1,088.3	11.0	4,741.0	0.0	0.0	0.0	0.0
SUNFLOWER	0.0	0.0	0.0	24.9	0.0	0.0	0.0	0.0	0.0	0.0
TALLAHATCHIE	0.0	0.0	751.7	5,827.6	4,583.0	229.0	0.0	0.0	0.0	0.0
TATE	0.0	0.0	772.8	1,565.6	1,289.0	553.0	95.0	0.0	0.0	0.0
TIPPAH	0.0	0.0	2,772.1	1,374.5	48,646.0	11,575.0	95.0	0.0	0.0	3,733.0
TISHOMINGO	0.0	0.0	6,191.1	1,257.1	43,014.0	15,943.0	0.0	0.0	0.0	2,239.0
TUNICA	0.0	0.0	0.0	979.4	0.0	0.0	0.0	0.0	0.0	47.0
UNION	0.0	0.0	5,813.7	1,992.3	13,322.0	11,311.0	0.0	0.0	0.0	1,079.0
WASHINGTON	0.0	0.0	23.7	2,446.9	593.0	2,052.0	0.0	0.0	0.0	248.0
WEBSTER	0.0	0.0	36,002.4	4,940.1	53,574.0	769.0	183.0	9.0	0.0	0.0
WINSTON	0.0	28.0	31,321.3	11,269.1	106,617.0	156.0	739.0	180.0	0.0	0.0
YALOBUSHA	0.0	0.0	14,336.1	2,554.1	39,158.0	754.0	0.0	0.0	0.0	0.0
YAZOO	0.0	52.0	1,107.5	12,059.1	10,419.0	28,606.0	0.0	0.0	0.0	0.0
NORTHERN TOTAL	0.0	2,058.0	641,657.3	249,445.2	1,583,387.0	301,378.0	20,911.0	17,596.0	11,271.0	17,235.0

Table 4. Mississippi's 2016 harvested timber volumes by product and county.

	PINE	HARDWOOD	PINE	HARDWOOD	PINE	HARDWOOD	PINE		PINE	HARDWOOD
	LUMBER	LUMBER	SAWTIMBER	SAWTIMBER	PULPWOOD	PULPWOOD	POLES	CROSSTIES	PINE	HARDWOOD
COUNTY	MBF	MBF	MBF,D	MBF,D	CORDS	CORDS	C CU FT	MBF,D	TONS	TONS
SOUTHERN REGION										
ADAMS	0.0	114.0	11,046.1	15,469.5	5,390.0	837.0	0.0	0.0	0.0	0.0
AMITE	0.0	157.0	97,102.0	20,464.4	108,869.0	252.0	651.0	441.0	0.0	0.0
CLAIBORNE	0.0	1,749.0	23,337.7	26,741.1	23,994.0	16,209.0	842.0	43.0	0.0	0.0
CLARKE	0.0	0.0	47,890.4	41,163.4	80,753.0	18,200.0	5,089.0	5,357.0	24,988.0	12,326.0
COPIAH	0.0	57.0	94,582.3	60,664.1	41,652.0	9,622.0	3,148.0	2,094.0	0.0	406.0
COVINGTON	0.0	0.0	22,924.2	15,698.4	28,332.0	334.0	429.0	1,896.0	30.0	3,642.0
FORREST	0.0	0.0	21,874.4	10,141.7	44,499.0	97.0	1,083.0	467.0	0.0	2,121.0
FRANKLIN	0.0	0.0	55,745.7	21,316.3	64,027.0	892.0	972.0	12.0	0.0	0.0
GEORGE	0.0	0.0	11,582.1	7,344.3	14,720.0	2,945.0	204.0	1,694.0	0.0	1,431.0
GREENE	0.0	0.0	41,930.0	27,799.8	45,418.0	21,762.0	2,556.0	5,968.0	0.0	9,158.0
HANCOCK	0.0	0.0	8,683.8	774.3	37,718.0	27.0	25.0	9.0	0.0	1,788.0
HARRISON	0.0	0.0	8,095.5	420.2	31,434.0	175.0	55.0	4.0	0.0	205.0
HINDS	0.0	1,953.0	11,928.7	22,244.8	57,104.0	24,156.0	9.0	63.0	0.0	4,736.0
JACKSON	0.0	0.0	7,521.7	4,562.3	5,367.0	480.0	93.0	184.0	0.0	89.0
JASPER	0.0	0.0	49,482.5	32,227.3	16,392.0	3,818.0	1,613.0	6,878.0	6,721.0	47,131.0
JEFF DAVIS	0.0	0.0	20,757.7	9,512.5	40,045.0	552.0	125.0	271.0	477.0	3,296.0
JEFFERSON	0.0	623.0	39,708.9	22,110.3	56,225.0	4,647.0	1,187.0	1,034.0	343.0	333.0
JONES	0.0	0.0	32,801.9	28,495.7	13,450.0	10,846.0	781.0	2,713.0	782.0	4,981.0
LAMAR	0.0	0.0	32,852.9	5,643.1	108,338.0	1,210.0	1,692.0	510.0	45.0	2,857.0
LAUDERDALE	0.0	213.0	39,284.9	27,336.6	52,212.0	2,405.0	1,727.0	2,996.0	0.0	0.0
LAWRENCE	0.0	11.0	36,118.5	16,601.9	24,635.0	611.0	1,433.0	427.0	0.0	0.0
LINCOLN	0.0	0.0	56,047.9	32,339.1	23,520.0	1,798.0	495.0	609.0	0.0	0.0
MARION	2.0	3.0	27,342.5	5,682.1	105,949.0	2,352.0	990.0	19.0	0.0	6,382.0
NEWTON	0.0	87.0	48,199.3	34,343.0	13,109.0	10,161.0	1,729.0	6,227.0	3,700.0	24,383.0
PEARL RIVER	0.0	0.0	15,823.2	3,332.2	139,819.0	25.0	1,026.0	4.0	0.0	7,738.0
PERRY	0.0	0.0	32,011.4	28,084.7	13,275.0	8,854.0	543.0	4,752.0	0.0	3,077.0
PIKE	0.0	0.0	23,787.9	7,652.9	56,066.0	1,161.0	386.0	0.0	0.0	0.0
RANKIN	0.0	2.0	69,179.3	32,545.5	48,356.0	7,505.0	4,549.0	5,779.0	275.0	8,011.0
SCOTT	0.0	42.0	35,914.1	33,317.1	36,750.0	15,998.0	722.0	3,388.0	2,452.0	35,935.0
SIMPSON	0.0	12.0	34,405.9	21,508.6	11,450.0	945.0	414.0	1,090.0	163.0	13,167.0
SMITH	0.0	0.0	45,562.9	29,471.9	16,070.0	21.0	926.0	3,685.0	5,426.0	26,142.0
STONE	0.0	0.0	12,493.3	1,538.6	24,566.0	310.0	177.0	274.0	0.0	6,020.0
WALTHALL	0.0	0.0	19,752.5	7,027.6	86,863.0	2,199.0	558.0	110.0	0.0	0.0
WARREN	0.0	1,831.0	434.2	26,213.9	3,105.0	41,589.0	0.0	0.0	0.0	0.0
WAYNE	0.0	0.0	36,730.1	21,745.2	56,229.0	26,395.0	1,776.0	3,779.0	416.0	57.0
WILKINSON	0.0	414.0	37,310.8	19,526.8	39,719.0	93.0	557.0	3.0	0.0	0.0
SOUTHERN TOTAL	2.0	7,268.0	1,210,247.2	721,061.3	1,575,420.0	239,483.0	38,562.0	62,780.0	45,818.0	225,412.0
GRAND TOTAL	2.0	9,326.0	1,851,904.5	970,506.5	3,158,807.0	540,861.0	59,473.0	80,376.0	57,089.0	242,647.0