



MTN -33C

**2017 Harvest of Forest Products¹
Forest Economics**

April 2018

The Mississippi forest industry harvested and delivered \$1.29 billion worth of forest products to mills and other processors in 2017. 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 2017 Mississippi timber harvest delivered to the point of first processing (such as a pulpwood yard or sawmill) was \$1,288,473,073. The estimated volume and value by product is presented in Table 1. The 2017 harvest value is 15.4% lower than the 2016 value of \$1.52 billion. This decrease is attributed to significant decreases in the volumes harvested of hardwood sawtimber and crossties, along with reductions in pine and hardwood chips. (Table 2) A comparison of 2017 and 2016 Mississippi timber product prices is presented in Table 3.

Timber remains the second most valuable agricultural commodity in Mississippi for 2017. Poultry and eggs were first, with a value of \$2.8 billion, and soybeans third at \$1.1 billion. Mississippi's forest landowners collected \$620.5 million for their standing timber in 2017, a decrease of 26.8% from 2016. The estimated value of the harvesting and transportation sector², which is the difference between the delivered and standing values, was \$668 million. The 2017 value of the harvesting and transportation sector accounted for 51.8% of the total harvest value as compared to 43.9% of the total harvest in 2016.

Severance tax collections on forest products were \$3,885,464 in 2017, which is 3% higher than 2016. Twenty percent of severance tax collections, or about \$777,093, is returned to counties where the timber was harvested. Eighty percent, or about \$3,108,371, 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 2017 and 2016 harvest volumes and delivered values by product category is presented in Table 2. The harvest volume of pine sawtimber increased 13.8% and the value increased 11.2%. The volume of hardwood sawtimber decreased by 66.8% while the value decreased 63%. Pine pulpwood volume increased by 38.5% and the value by 34.4%, while hardwood pulpwood volume increased by 66.5% with an associated value increase of 48.2%. Pine poles increased by 24.1% in volume and 19.1% in value. Crossties volume saw the highest decrease from 2016 with a loss of 97.3% and the value increased 97.4%. Christmas tree harvest increased only 1.6% while the value of those trees increased by 15.5%.

The demand for pine sawtimber increased in 2017 as evidenced by a 13.8% increase in harvest volume over 2016 and a corresponding increase in the value. U.S. housing starts in December of 2017 (an indicator of new home construction tracked by the U.S. Census Bureau) were down 5% from December

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

2016 levels, however the long term trend has been positive. Delivered prices of pine sawtimber decreased 3% in 2017 indicating both a slower than expected increase in housing starts and an excess of supply of standing sawtimber in Mississippi.

The demand for hardwood sawtimber dropped considerably in 2017. The volume harvested was down 67% from 2016 and the value of the harvest dropped by 63%. The crosstie market suffered more in 2017 with a 97% drop in the volume produced and a loss of 97% of the value from 2016. However, the overall value of the Mississippi harvest was only down 15%, which indicates that production shifted to other categories of materials and that there may have been reporting errors in the severance tax data that resulted in much higher than normal volumes of hardwood sawtimber and crossties reported in 2015 and 2016.

Demand for pine pulpwood increased 37.5% in 2017 while the delivered price dropped by 3%. Hardwood pulpwood demand increased 66.5% in 2017, but the delivered price decreased 11.1% over 2016 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	2,106,858	367,464,525	693,011,333
Hardwood Sawlogs⁵, MBF, D	322,217	144,406,016	208,323,709
Pine Pulpwood, Cords	4,343,270	79,128,161	296,455,641
Hardwood Pulpwood, Cords	900,444	17,899,979	68,439,961
Poles, Cunits	73,777	9,264,056	12,865,755
Crossties⁶, MBF, D	2,141	751,008	1,150,029
Pine Chips, Tons	50,671	320,163	1,308,194
Hardwood Chips⁷, Tons	175,894	1,260,934	4,593,452
Christmas Trees⁸, Tree	31,000	(***) ⁹	2,325,000
Total Value		620,494,843	1,288,473,073

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 Pine and Hardwood Chips standing and delivered values are assumed to be the same as pine and hardwood pulpwood.

⁸ Christmas trees values and volumes estimated by Mississippi State University Extension Professor, Stephen Dicke.

⁹ 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 ¹⁰	2016		2017			
	Volume	Value (\$)	Volume	% Change	Value (\$)	% Change
Pine Sawlogs, MBF, D	1,851,904	623,364,493	2,106,858	13.8%	693,011,333	11.2%
Hardwood Sawlogs, MBF, D	970,506	566,909,455	322,217	-66.8%	208,323,709	-63.3%
Pine Pulpwood, Cords	3,158,807	220,619,275	4,343,270	37.5%	296,455,641	34.4%
Hardwood Pulpwood, Cords	540,861	46,184,736	900,444	66.5%	68,439,961	48.2%
Poles, Cunits	59,473	10,804,774	73,777	24.1%	12,865,755	19.1%
Crossties, MBF, D	80,376	43,754,178	2,141	-97.3%	1,150,029	-97.4%
Pine Chips, Tons	57,089	1,533,625	50,671	-11.2%	1,308,194	-14.7%
Hardwood Chips, Tons	242,647	7,156,873	175,894	-27.5%	4,593,452	-35.8%
Christmas Trees, Tree	30,500	2,013,000	31,000	1.6%	2,325,000	15.5%
Total Value		1,522,340,409			1,288,473,073	-15.4%

¹⁰ Unit abbreviations: MBF = thousand board feet, and D = Doyle Log Rule. Cunit = 100 cubic feet.

Table 3. Comparison of 2016 and 2017 Mississippi major product prices¹¹.

		Standing Prices Per Ton ¹²				Delivered Prices Per Ton			
			Statewide Average				Statewide Average		
Product	Region	2017 Average	2017	2016	% Change	2017 Average	2017	2016	% Change
Pine Pulpwood	North	5.20	6.70	7.65	-12.4%	25.11	26.06	26.86	-3.0%
	South	8.20				27.01			
Hardwood Pulpwood	North	6.27	6.82	8.37	-18.6%	26.39	26.22	29.50	-11.1%
	South	7.36				26.06			
Pine Sawtimber	North	21.12	22.85	23.68	-3.5%	42.53	43.60	44.80	-2.7%
	South	24.57				44.68			
Mixed Hardwood Sawtimber	North	40.13	39.17	41.37	-5.3%	61.39	61.45	61.91	-0.7%
	South	38.21				61.52			
Oak Sawtimber	North	50.68	49.48	49.32	0.3%	69.76	69.35	68.50	1.2%
	South	48.27				68.95			
Pine Poles	North	46.86	44.16	44.39	-0.5%	64.23	61.16	63.58	-3.8%
	South	41.47				58.09			

¹¹ Data source: Timber Mart-South

¹² Timber Mart-South reports price per ton only.

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

	PINE	HARDWOOD	PINE	HARDWOOD	PINE		PINE	HARDWOOD
COUNTY	SAWTIMBER	SAWTIMBER	PULPWOOD	PULPWOOD	POLES	CROSSTIES	CHIPS	CHIPS
NORTHERN REGION	MBF,D	MBF,D	CORDS	CORDS	C CU FT	MBF,D	TONS	TONS
ALCORN	4,409.6	652.4	78,119.0	5,754.0	0.0	0.0	0.0	3,590.0
ATTALA	74,194.5	5,916.8	152,663.0	21,552.0	4,273.0	0.0	0.0	0.0
BENTON	4,520.6	442.5	6,088.0	4,662.0	0.0	0.0	0.0	4,089.0
BOLIVAR	381.3	2,872.5	0.0	14,626.0	186.0	0.0	0.0	0.0
CALHOUN	50,016.7	984.1	59,959.0	10,753.0	940.0	0.0	0.0	0.0
CARROLL	18,845.5	12,650.9	69,868.0	5,787.0	567.0	2.0	0.0	0.0
CHICKASAW	20,449.6	306.7	23,879.0	6,654.0	525.0	0.0	0.0	0.0
CHOCTAW	34,955.7	3,169.5	49,685.0	10,100.0	2,151.0	0.0	0.0	0.0
CLAY	15,662.2	5,103.1	11,822.0	5,012.0	299.0	0.0	0.0	0.0
COAHOMA	445.6	3,398.1	33.0	1,697.0	0.0	0.0	0.0	0.0
DESOTO	1,064.4	1,827.8	1,194.0	589.0	272.0	0.0	0.0	0.0
GRENADA	12,301.7	2,291.3	82,562.0	4,155.0	176.0	0.0	0.0	0.0
HOLMES	13,929.9	10,557.1	43,333.0	17,705.0	168.0	0.0	0.0	0.0
HUMPHREYS	0.0	43.9	25.0	1,244.0	0.0	0.0	0.0	0.0
ISSAQUENA	18.9	7,124.2	74.0	21,150.0	0.0	0.0	0.0	0.0
ITAWAMBA	32,377.2	1,688.5	40,636.0	15,710.0	23.0	0.0	0.0	578.0
KEMPER	78,856.4	15,111.8	92,933.0	6,750.0	4,477.0	0.0	0.0	0.0
LAFAYETTE	15,699.5	915.5	34,720.0	6,901.0	0.0	0.0	0.0	0.0
LEAKE	56,569.7	3,307.9	80,543.0	11,456.0	1,818.0	0.0	0.0	0.0
LEE	7,503.6	716.2	6,116.0	6,165.0	0.0	0.0	0.0	0.0
LEFLORE	24.8	772.3	126.0	862.0	67.0	0.0	0.0	0.0
LOWNDES	7,563.1	644.9	22,410.0	2,875.0	164.0	271.0	0.0	0.0
MADISON	23,296.5	4,941.4	78,874.0	13,227.0	1,056.0	0.0	178.0	1,035.0
MARSHALL	4,984.0	713.0	13,548.0	8,118.0	30.0	0.0	0.0	27.0
MONROE	33,917.5	1,810.5	26,488.0	29,007.0	383.0	0.0	31,644.0	158.0
MONTGOMERY	17,393.9	7,789.9	72,597.0	3,194.0	436.0	0.0	0.0	0.0
NESHOBA	54,888.5	9,443.8	44,021.0	8,617.0	2,383.0	132.0	0.0	0.0
NOXUBEE	42,266.4	3,843.9	121,087.0	9,421.0	1,483.0	0.0	0.0	0.0
OKTIBBEHA	20,952.7	2,541.9	38,214.0	7,155.0	511.0	1,687.0	0.0	0.0
PANOLA	3,005.3	2,623.0	20,083.0	28,407.0	86.0	0.0	0.0	0.0
PONTOTOC	18,556.4	1,174.6	12,543.0	14,832.0	0.0	0.0	0.0	0.0
PRENTISS	10,322.9	2,497.4	51,762.0	29,362.0	0.0	0.0	0.0	4,333.0
QUITMAN	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARKEY	0.0	246.3	461.0	2,841.0	0.0	0.0	0.0	0.0
SUNFLOWER	0.0	0.0	0.0	0.0	171.0	0.0	0.0	0.0
TALLAHATCHIE	721.8	2,815.4	5,115.0	560.0	0.0	0.0	0.0	0.0
TATE	853.7	1,108.8	6,138.0	31.0	0.0	0.0	0.0	0.0
TIPPAH	2,594.3	1,333.5	48,945.0	12,106.0	519.0	0.0	0.0	8,910.0
TISHOMINGO	9,169.7	1,196.6	100,363.0	18,998.0	0.0	0.0	0.0	6,328.0
TUNICA	0.0	337.3	0.0	597.0	0.0	0.0	0.0	0.0
UNION	13,974.7	1,204.3	14,161.0	10,814.0	0.0	0.0	0.0	1,774.0
WASHINGTON	3.3	1,246.5	3,609.0	1,528.0	0.0	0.0	0.0	0.0
WEBSTER	39,614.4	3,580.7	64,974.0	5,514.0	3,025.0	0.0	0.0	0.0
WINSTON	43,977.7	5,301.0	103,948.0	11,786.0	1,144.0	0.0	0.0	0.0
YALOBUSHA	11,334.8	1,664.1	24,341.0	2,994.0	0.0	0.0	0.0	0.0
YAZOO	2,872.0	8,697.9	22,528.0	16,036.0	0.0	0.0	0.0	0.0
NORTHERN TOTAL	804,494.6	146,609.8	1,730,588.0	417,304.0	27,333.0	2,092.0	31,822.0	30,822.0

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

	PINE	HARDWOOD	PINE	HARDWOOD	PINE		PINE	HARDWOOD
COUNTY	SAWTIMBER	SAWTIMBER	PULPWOOD	PULPWOOD	POLES	CROSSTIES	CHIPS	CHIPS
SOUTHERN REGION	MBF,D	MBF,D	CORDS	CORDS	C CU FT	MBF,D	TONS	TONS
ADAMS	8,835.6	4,905.0	3,856.0	6,450.0	0.0	0.0	0.0	0.0
AMITE	145,761.7	15,146.0	143,658.0	20,189.0	330.0	0.0	0.0	0.0
CLAIBORNE	13,196.3	12,750.8	48,579.0	38,026.0	470.0	0.0	0.0	389.0
CLARKE	75,721.5	5,064.3	186,753.0	31,340.0	6,936.0	0.0	0.0	0.0
COPIAH	63,087.5	8,201.6	105,704.0	36,374.0	1,089.0	0.0	134.0	4,909.0
COVINGTON	26,070.9	2,057.1	58,424.0	3,830.0	1,750.0	0.0	867.0	8,751.0
FORREST	16,411.3	711.3	53,978.0	3,469.0	490.0	0.0	413.0	2,300.0
FRANKLIN	62,881.8	6,094.2	111,750.0	19,474.0	1,106.0	0.0	0.0	0.0
GEORGE	7,770.9	94.2	23,003.0	2,063.0	422.0	0.0	0.0	0.0
GREENE	45,245.1	1,310.2	123,682.0	12,094.0	1,804.0	0.0	0.0	29.0
HANCOCK	3,530.5	51.1	19,664.0	96.0	54.0	0.0	0.0	76.0
HARRISON	5,936.2	43.6	23,503.0	476.0	71.0	0.0	0.0	21.0
HINDS	10,947.1	6,670.2	50,570.0	18,737.0	0.0	0.0	271.0	4,476.0
JACKSON	5,298.8	30.4	19,799.0	110.0	310.0	0.0	617.0	1,805.0
JASPER	52,623.7	3,968.3	62,689.0	11,673.0	973.0	0.0	5,148.0	37,162.0
JEFFERSON	32,604.7	8,047.5	88,668.0	20,569.0	1,479.0	0.0	103.0	1,502.0
JEFFERSON DAVIS	28,778.9	1,162.5	84,395.0	3,926.0	1,260.0	0.0	0.0	0.0
JONES	28,680.5	8,988.4	54,784.0	19,304.0	1,110.0	49.0	935.0	4,303.0
LAMAR	19,189.3	1,079.1	77,717.0	2,355.0	764.0	0.0	0.0	1,084.0
LAUDERDALE	50,128.1	10,506.2	71,486.0	22,607.0	1,923.0	0.0	0.0	31.0
LAWRENCE	51,983.2	3,233.7	73,708.0	5,136.0	1,445.0	0.0	0.0	0.0
LINCOLN	54,537.9	5,454.4	88,082.0	13,509.0	1,471.0	0.0	0.0	0.0
MARION	27,321.8	2,233.9	105,639.0	5,136.0	1,104.0	0.0	0.0	0.0
NEWTON	46,066.2	3,990.3	56,909.0	24,251.0	1,892.0	0.0	1,397.0	10,464.0
PEARL RIVER	19,747.7	315.6	84,394.0	2,400.0	744.0	0.0	29.0	349.0
PERRY	39,785.5	472.3	81,743.0	13,297.0	1,855.0	0.0	28.0	26.0
PIKE	27,023.7	4,071.6	59,914.0	7,024.0	150.0	0.0	0.0	0.0
RANKIN	45,220.1	6,354.8	99,047.0	7,883.0	3,228.0	0.0	77.0	606.0
SCOTT	51,009.6	12,427.4	81,631.0	16,211.0	4,736.0	0.0	2,236.0	22,071.0
SIMPSON	34,884.5	7,483.4	58,938.0	12,536.0	1,247.0	0.0	917.0	12,380.0
SMITH	59,138.9	6,684.3	72,107.0	3,835.0	507.0	0.0	5,230.0	28,727.0
STONE	12,903.3	72.2	58,260.0	1,320.0	286.0	0.0	0.0	1,759.0
WALTHALL	14,167.0	1,238.0	115,166.0	3,667.0	330.0	0.0	0.0	0.0
WARREN	486.8	14,567.5	2,728.0	49,121.0	0.0	0.0	0.0	0.0
WAYNE	59,181.9	1,249.5	109,553.0	29,989.0	4,533.0	0.0	447.0	1,852.0
WILKINSON	56,205.3	8,876.9	52,201.0	14,663.0	575.0	0.0	0.0	0.0
SOUTHERN TOTAL	1,302,363.7	175,607.5	2,612,682.0	483,140.0	46,444.0	49.0	18,849.0	145,072.0
GRAND TOTAL	2,106,858.3	322,217.4	4,343,270.0	900,444.0	73,777.0	2,141.0	50,671.0	175,894.0