



Forest Resources

Market Notes • Technical Notes • Research Notes • Newsletters

June 1994

1993 Harvest of Forest Products

Mississippi's forest industry (including private landowners, independent harvesters and company harvesting crews) harvested and delivered over \$1 billion worth of forest products to mills and other processors in 1993. The total value of Mississippi's 1993 timber harvest delivered to the first point of processing (such as a pulpwood yard or sawmill) was \$1,020,830,162. This harvest value was nearly 26% higher than 1992 and is a new all time high harvest value for Mississippi forestry. It is also the first time the value of forestry has exceeded a billion dollars. Timber values have continued to increase in recent years. Since 1987, new record high timber harvest values were set 6 of the 7 years. Timber was the most valuable agricultural commodity in Mississippi in 1993. Poultry and eggs ranked second with a \$904 million value and cotton was third with \$623 million. Landowners collected more than \$670 million for their standing timber in 1993 and the logging/transportation segment of the industry was valued at \$349,561,194.

Severance tax collections on timber were 4.6% higher than in 1992. Total timber severance tax collections for 1993 were \$4,137,231.74. Twenty percent of the severance tax collections, or about \$827,446 was returned to the counties where the timber was harvested. Eighty percent, or about \$3,309,785 went to the Forest Resource Development Program (FRDP) to provide cost-share funds to private, nonindustrial forest landowners for reforestation and other forest management practices.

The value of Mississippi's harvest of forest products surged ahead again in 1993. The harvest value jumped 26% in 1993, while it moved up nearly 16% in 1992. The volume of most products increased, but the real increase came in value. The estimated value of the 1993 timber harvest is shown in Table 1. A comparison of timber harvest volume and value for 1992 and 1993 by product categories is given in Table 2. Table 3 compares major product prices by region for 1992 and 1993.

As in 1992, the trend in 1993 continued up. The rate of increase in volume was slower while prices continued to increase briskly in 1993. The harvested volumes of all the major forest products were higher in 1993. Veneer log volumes increased strongly in response to good pine plywood and hardwood panel markets in 1993. Pine and hardwood sawlog harvested volumes increased 1.5 and 4.1 percent, respectively. Prices for pine plywood logs increased more than 21 percent in 1993, while hardwood veneer log values increased 38 percent. Pine and hardwood sawlog values increased 26.5 and 30 percent, respectively.

Pulpwood harvest volumes and values were also higher in 1993. The total pulpwood harvest increased 4.5 percent from 1992 to 1993. The pine pulpwood harvest volume increased 6.7 percent while the hardwood pulpwood volume increased 1.8 percent. Higher prices, however, spurred an increase in pine pulpwood value over 18 percent, while hardwood pulpwood values increased nearly 21 percent. The increase in pulpwood volumes and values is largely due to increasing use of wood supplies in north Mississippi and increasing competition for fiber in the region. Export demand for hardwood chips also helped the increase in pulpwood harvest, but by late in 1993 export demand began to soften.

Price increases were the big story in Mississippi forestry in 1993. Stumpage and delivered prices were significantly higher for the major forest products in every area of Mississippi in 1993. Pine sawlog stumpage price increases varied from 17.9 to 40 percent depending on region in the state, while delivered price increases ranged from 22 to 25 percent. With pine pulpwood, stumpage prices increased from 6 to 28 percent with north Mississippi posting the highest increase. Pine pulpwood delivered price increases ranged from 6 to 17 percent.

On the hardwood side, pulpwood stumpage prices increased 19 to 39 percent, while delivered prices increased from 8 to 27 percent depending on region within the state.

The hardwood sawlog price story is interesting. As is noted in footnote 2b of Table 1, the hardwood sawlog prices reported here are a composite of mixed hardwood and oak prices. Mixed hardwood sawtimber includes mostly low-grade oak, sweetgum, sycamore, beech, and other species while the oak sawtimber prices reflect the value of better grade red oak, mostly, but also white oak. The composite hardwood sawlog price shown in the price comparison in Table 3 shows hardwood sawlog stumpage prices up from 26 to 58 percent, while delivered price increases ranged from 19 to 29 percent. If we look at the price differences between the components of the composite hardwood sawlog prices for 1993 however, an interesting trend is revealed. Average standing prices for mixed hardwood sawlogs actually declined in 1993, while the prices for oak sawtimber soared. According to prices from the Mississippi Timber Price Report, standing prices for mixed hardwood sawtimber fell from 8 to 30 percent depending on region in the state. However, standing prices for oak sawtimber increased from 30 to 72 percent! This differential in stumpage prices for oak versus mixed species sawtimber reflects the variance in competition among sawmills for oak and other species. We have known for several years that oak is the preferred hardwood species in the market, but 1993 prices showed that differential. These prices also illustrate the increasing competition among hardwood sawmills for quality oak sawtimber and may influence management choices forest landowners make in managing their hardwood forests.

Markets for Mississippi forest products are diverse and continue to develop. The increasing competition for Mississippi's timber, as the Southern U.S. assumes an increasing proportion of the nation's production of forest products, is the backdrop for the upward value of our forests. In addition, several situations boosted demand in 1993. North Mississippi's forests continue to develop as an important forest production area. One evidence of this was Norbord's announcement of an oriented-strand board plant in Lee County in 1993. The flood of spring 1993 also created a large demand for building materials to repair the devastation in the Midwest. Plywood and lumber markets were boosted by the flood.

In 1993, the decline of Northwest timber harvesting continued. Northwest lumber production in 1993 was 25 percent lower than it was in 1988. This made prices for southern pine lumber high and erratic in 1993. This upward price pressure helped spur the stumpage price surge we saw in 1993. Uncertainty remains in the softwood lumber markets and will continue to impact the market in coming years until the timber harvesting controversy in the Northwest is resolved.

Table 4 shows the timber severance tax harvested volumes of forest products within the Mississippi Timber Price Report regions for 1993.

For more information on timber marketing procedures and forest product prices, contact your county Extension office or Mississippi State University Department of Forestry P.O. Box 9681, Mississippi State, MS 39762.

Sincerely,

A handwritten signature in cursive script that reads "Bob Daniels".

Bob Daniels
Extension Forester

Table 1. Estimated Value of the 1993 Timber Harvest

Product	Unit	Price/unit ¹		Volume	Value	
		Standing	Delivered		Standing	Delivered
		-----Dollars-----		-----Dollars-----		
Sawlogs-Pine	MBF,D		²	977,789	288,356,974	328,713,720
-Hardwood	MBF,D		²	418,184	91,815,082	128,827,563
Pulpwood-Pine	Cords		³	4,657,160	96,646,744	219,342,641
-Hardwood	Cords		³	3,547,150	44,428,813	152,074,740
Poles-Pine	MBF,D	419.50	470.00	35,105	14,726,548	16,499,350
Plywood Logs-Pine	MBF,D	314.50 ⁴	401.50 ⁴	382,567 ¹¹	120,317,321	153,600,651
Hardwood Veneer Logs	MBF,D	475.75 ⁵	557.50 ⁵	22,749 ¹¹	10,822,836	12,682,567
Crossties-Hardwood	MBF,D	122.25	-	13,960	1,706,610	-
Tie ⁶		-	11 ⁵	312,794	-	3,440,734
Stumpwood	Tons	5 ⁵	62 ⁵	9,608	48,040	595,696
Turpentine Gum	Barrel	-	100 ⁵	2,525	-	252,500
Christmas Trees ⁷	Tree ⁸	12 ⁹	24 ¹⁰	200,000	2,400,000	4,800,000
TOTAL VALUE					671,268,968	1,020,830,16

¹Regional product prices taken from the Mississippi Timber Price Report, except where otherwise noted.

²Sawlog Prices by Region, \$/MBF, Doyle

³Pulpwood Prices by Region, \$/Cord

Region ^a	Standing		Delivered		Region ^a	Standing		Delivered	
	Pine	Hardwood ^b	Pine	Hardwood ^b		Pine	Hardwood	Pine	Hardwood
North	289.50	185.25	338.50	299.75	North	25.75	15	55	48.50
Central	304.25	204.50	360	302.50	Central	21.50	14	46.25	43
South	305.75	239	360.75	309.25	South	17.75	9.25	43.5	36
Delta/River	305.75 ^c	254.25	360.75 ^c	321	Delta/River	16	8.50	48.25	43.25

^aRegions are those defined in the Mississippi Timber Price Report.

^bHardwood sawlog average prices were calculated using mixed hardwood and oak sawtimber prices from the MCES Timber Price Report. The hardwood sawlog average prices are based on the assumption that Mississippi's hardwood sawmills cut 70% oak and 30% other species primarily yellow poplar, and sweetgum in 1992. Therefore, the hardwood sawlog average price for each region was calculated using the following formula:

Regional hardwood sawlog prices = .7 (average regional oak price) + .3 (average regional mixed hardwood price)

^cSouthern region pine price used. Most pine in Delta/River region comes from southwestern counties.

^dPrices from Timber Mart South.

^ePrice estimates by consultation with industry contacts.

^fCalculated as 44.63 board feet per 7" x 9" x 8.5' tie.

^gEstimate in cooperation with the LA-MS Christmas Tree Association and individual growers.

^hThe average Christmas tree is assumed to be 6 to 8 feet tall.

ⁱStanding price is the estimated average wholesale Christmas tree price to growers.

^jDelivered price is the estimated average price paid for a "choose and cut" Christmas tree.

^kPlywood and hardwood veneer log volumes estimated by veneer mill survey and consultation with industry contacts.

Table 2. Comparison of 1992 and 1993 Harvest Volume and Value by Product

Product/Unit	1992		1993			
	Volume	Value*	Volume	% Change	Value*	% Change
Pine Sawlogs MBF,D	963,219	\$259,863,936	977,789	1.5	\$328,713,720	26.5
Hardwood Sawlogs,MBF,D	401,698	\$99,070,089	418,184	4.1	\$128,827,563	30.0
Pine Pulpwood, Cords	4,363,526	\$185,463,423	4,657,160	6.7	\$219,342,641	18.3
Hardwood Pulpwood, Cords	3,486,074	\$126,113,474	3,547,150	1.8	\$152,074,740	20.6
Plywood Logs, MBF,D	314,450	\$106,913,000	382,567	21.7	\$153,600,651	43.7
Poles, MBF,D	35,645	\$13,995,017	35,105	-1.5	\$16,499,350	17.9
Hardwood Veneer Logs, MBF,D	19,062	\$9,149,760	22,749	19.3	\$12,682,567	38.6
Crossties Delivered, Ties	414,363	\$4,557,993	312,794	-24.5	\$3,440,734	-24.5
Stumpwood, Tons	5,970	\$370,140	9,608	60.9	\$595,696	60.9
Turpentine Gum, Barrels	315	\$31,500	2,525	701.6	\$252,500	701.6
Christmas Trees, Tree	200,000	\$4,800,000	200,000	0.00	\$4,800,000	0.0
TOTAL		\$810,328,332			\$1,020,830,162	26.0

*Value delivered to the first point of processing.

Table 3. 1992 Versus 1993 Major Product Price Comparison by Region¹

Product/Unit	Region	1992		1993			
		Standing	Delivered	Standing	% Change	Delivered	% Change
Pine Sawtimber, MBF,D	North	231.75	277.50	289.50	24.9	338.50	22.0
	Central	258.00	287.50	304.25	17.9	360.00	25.2
	South	256.50	295.25	305.75	19.2	360.75	22.2
	Delta/River	217.00	²	305.75	40.9	360.75	²
Hardwood Sawtimber,MBF,D ³	North	137.75	232.00	185.25	34.5	299.75	29.2
	Central	161.25	249.50	204.50	26.8	302.50	21.2
	South	151.00	259.75	239.00	58.3	309.25	19.1
	Delta/River	162.75	247.50	254.25	56.2	321.00	29.7
Pine Pulpwood, Cords	North	20.00	47.00	25.75	28.8	55.00	17.0
	Central	19.00	43.00	21.50	13.2	46.25	7.6
	South	15.00	39.00	17.75	18.3	43.50	11.5
	Delta/River	15.00	45.25	16.00	6.7	48.25	6.6
Hardwood Pulpwood, Cords	North	10.75	38.00	15.00	39.5	48.50	27.6
	Central	11.00	35.50	14.00	27.3	43.00	21.1
	South	7.75	33.25	9.25	19.4	36.00	8.3
	Delta/River	6.75	40.00	8.50	25.9	43.25	8.1

¹Product prices and price regions taken from the MCES Timber Price Report.

²Insufficient data.

³Hardwood sawtimber prices are as defined in Table 1, footnote 2.

Table 4. Harvest of Forest Products Summary Data¹

County	Pine Lumber MBM ²	Hardwood Lumber MBM ²	Pine Sawlogs MBF,D	Hardwood Sawlogs MBF,D	Pine Pulpwood Cords	Hardwood Pulpwood Cords	Pine Poles C Cu Ft	Stumpwood Tons	Turpentine Gum Barrels	Cross-ties MBF,D	Other MBF/Cords
NORTH REGION											
Alcorn	2,049.84	699.89	4,439.76	3,735.65	32,162.40	45,605.15	43.72			302.86	
Benton	1,988.01	491.33	3,513.77	1,414.50	14,713.10	24,564.57				6.94	
Calhoun		239.64	6,170.26	3,113.38	38,122.70	30,420.22	253.37			810.64	
Carroll	1,519.68	939.48	8,580.97	6,357.70	81,329.13	52,276.31	377.48	1,580.48		165.01	15.09
Chickasaw		240.46	10,854.03	4,542.09	38,598.13	32,623.68				128.10	
Clay		254.76	5,518.82	5,748.30	12,626.90	36,854.88		2,484.60		291.76	91.41
Desoto	30.90	174.44	128.64	3,436.96	4,416.43	2,448.48					
Grenada		26.33	8,431.40	7,513.14	46,654.23	88,177.11	23.59				
Itawamba	144.36	79.50	10,234.03	6,689.25	69,388.60	90,959.42					254.72
Lafayette		65.82	11,435.22	6,614.21	106,328.00	48,295.77	40.98				
Lee	976.54	0.00	6,281.58	2,167.77	11,307.33	13,600.80	10.45			54.94	12.04
Marshall	388.33		6,397.74	4,477.40	64,853.33	59,850.44	13.94			1.80	
Monroe		895.38	14,451.57	5,048.37	52,268.80	76,038.80				1,030.45	95.33
Montgomery	2,236.74	4,334.88	7,073.69	1,669.49	57,224.90	53,423.11	332.43			1,263.02	
Panola		121.36	3,006.25	3,071.10	16,071.36	19,743.77					
Pontotoc	208.81	319.88	9,150.30	7,311.00	23,109.43	30,278.75	6.68			57.29	12.82
Prentiss	2,286.60	115.92	5,841.75	4,162.16	30,256.03	52,068.13	26.41			2,539.04	18.62
Tate	685.40		854.95	2,041.89	9,461.56	5,475.28					
Tippah	4,276.04	1,910.45	6,806.98	3,251.86	73,311.30	52,442.48	5.70	1,034.72		1,516.68	
Tishomingo	2,051.96	4,213.41	6,928.86	2,846.88	53,721.00	50,799.15				238.16	
Union	2,084.21	830.40	4,916.37	5,213.56	21,917.23	22,748.84	33.12			9.60	37.80
Webster		112.60	7,624.76	1,447.92	45,507.63	36,674.48		244.80		492.96	
Yalobusha		341.74	8,787.50	5,590.10	53,347.03	25,455.86	171.82	557.92			
Total	20,927.42	16,407.67	157,429.20	98,364.68	956,696.55	950,825.48	1,339.69	3,417.92	2,484.60	8,909.25	537.83

Table 4. Harvest of For Products Summary Data¹

County	Pine Lumber MBM ²	Hardwood Lumber MBM ²	Pine Sawlogs MBF,D	Hardwood Sawlogs MBF,D	Pine Pulpwood Cords	Hardwood Pulpwood Cords	Pine Poles C Cu Ft	Stumpwood Tons	Turpentine Gum Barrels	Crossies MBF,D	Other MBF/Cords
CENTRAL REGION											
Attala		289.61	17,520.10	8,737.65	116,967.30	79,198.93	65.56			7.49	102.89
Choctaw		29.38	20,985.09	3,418.10	111,600.66	65,923.46	67.86			13.33	105.53
Clarke	1,221.04	1,375.80	36,826.63	6,014.36	181,139.73	124,623.73	508.14				
Hinds	5.54		16,310.80	11,708.90	36,349.66	63,452.84					
Holmes		81.96	9,932.59	8,098.56	59,428.46	93,180.04				148.34	
Jasper	147.81	1,450.89	39,218.29	8,059.21	126,602.26	68,618.57	1,115.36				
Kemper	7.32	3,477.81	51,772.43	4,709.88	217,074.96	119,417.06	1,058.94				35.36
Lauderdale	977.45	1,208.78	45,017.69	3,007.46	130,115.36	118,552.84	2,802.02				
Leake		28.52	22,834.76	6,460.18	78,417.10	52,785.15	31.77				
Lowndes		1,038.50	4,695.50	3,742.73	11,790.50	52,360.93	3.71			127.25	
Madison		6.97	26,407.59	7,414.97	45,360.10	39,743.95	12.93				
Neshoba		2,820.80	34,579.57	4,376.46	83,306.50	93,586.44	581.13			245.36	21.12
Newton	181.65	1,656.13	24,893.00	4,563.21	74,220.86	66,085.24	1,175.15			0.66	
Noxubee		124.02	24,329.98	5,470.58	59,740.96	28,554.48	596.78			1.33	
Okitbeha		47.61	10,469.73	2,099.10	36,715.00	30,726.62				2,283.68	226.02
Rankin	3.77	8.06	41,467.38	10,009.49	89,854.96	63,435.00	352.60			57.34	
Scott	61.29	1,723.50	41,278.54	3,099.54	55,624.53	37,478.80	76.55				
Simpson		21.37	30,819.28	4,375.50	78,880.70	56,662.80	16.71			2.00	
Smith	19.05	746.60	39,359.88	5,627.60	107,152.86	61,157.33	83.60				
Winston		329.80	29,177.39	8,224.28	71,473.06	60,231.68	106.20				18.54
Total	2,624.92	16,466.45	567,896.22	119,217.76	1,771,815.52	1,375,775.89	8,655.01	0.00	0.00	2,886.78	509.46

Table 4. Harvest of Fore Products Summary Data

County	Pine Lumber MBM	Hardwood Lumber MBM	Pine Sawlogs MBF,D	Hardwood Sawlogs MBF,D	Pine Pulpwood Cords	Hardwood Pulpwood Cords	Pine Poles C Cu Ft	Stumpwood Tons	Turpentine Gum Barrels	Crossities MBF,D	Other MBF,D
SOUTH REGION											
Amite			67,881.57	6,101.38	125,564.76	63,315.91					
Copiah	97.00	1.97	37,944.83	7,401.00	97,395.56	73,141.82	58.40				
Covington	196.48		13,281.80	3,155.09	38,845.40	31,116.26	96.04				
Forrest			19,933.27	1,929.40	67,988.16	18,846.97	8,137.39	541.28			
Franklin	12.14		51,618.21	5,889.04	63,507.93	66,656.40	30.16				
George			6,321.58	95.25	30,305.83	14,340.71	2,538.99				
Greene		175.29	29,376.18	2,200.60	151,829.46	58,909.33	6,532.85	85.60		12.32	945.60
Hancock		18.88	10,806.55	2,728.56	59,945.50	7,524.04	407.95				
Harrison			15,610.43	3.24	77,964.80	6,989.82	6,398.19	5.53			
Jackson		16.81	9,025.08	328.64	55,644.40	12,643.55	1,598.68	691.32			
Jeff Davis			14,027.02	2,371.14	45,521.26	22,070.80					
Jones		187.26	29,836.05	5,927.96	70,849.13	50,233.13	1,984.13	51.84			
Lamar			13,426.97	1,224.68	54,438.80	9,513.78	3,258.80	1,041.88			
Lawrence		7.86	22,807.77	5,846.92	95,915.43	60,517.64	1,255.65				
Lincoln		933.96	39,694.52	4,542.62	125,855.13	88,250.04	19.83				
Marion			17,711.85	6,974.94	84,751.93	44,012.84	1,974.15			13.33	
Pearl River			23,192.90	1,693.76	106,102.40	31,848.93	2,307.98	2,533.76			3.08
Perry			18,069.27	737.37	50,887.20	11,705.00	8,772.55	179.12			
Pike		36.73	20,959.38	2,606.08	64,989.23	33,047.37	108.22				
Stone			16,026.05	178.22	82,658.83	15,072.93	7,478.11	898.80			
Walthall			14,221.35	3,233.20	50,698.80	29,459.11	131.27				
Wayne		24.72	31,238.64	2,606.45	141,366.90	76,636.22	637.18	22.64			
Total	305.62	1,403.48	523,011.27	67,775.54	1,743,026.84	825,848.60	53,727.52	6,046.24	5.53	25.65	948.68

Table 4. Harvest of Forest Products Summary Data¹

County	Pine Lumber MBM ²	Hardwood Lumber MBM ²	Pine Sawlogs MBF,D	Hardwood Sawlogs MBF,D	Pine Pulpwood Cords	Hardwood Pulpwood Cords	Pine Poles C Cu Ft	Stumpwood Tons	Turpentine Gum Barrels	Crossities MBF,D	Other MBF,D
<i>DELTA/RIVER REGION</i>											
Adams	88.81		13,855.64	13,869.80	11,995.63	57,319.46					
Bolivar			19.88	8,371.21	135.70	2,784.88		144.24			
Claborn			9,047.90	18,020.90	16,740.00	47,914.62					
Coahoma			98.44	2,294.61		4,784.40			7.60		
Humphreys		678.66		651.36	7,912.13	3,148.53					
Issaquena			328.46	6,852.32	646.33	26,789.68					
Jefferson	3.41		20,962.83	9,231.89	44,422.86	55,422.97					
LeFlore		790.38	7.60	1,643.36	1,414.60	1,407.86					
Quitman					1,067.36	1,957.73	104.44				
Sharkey			499.64	3,777.53	1,725.80	3,444.93					
Sunflower				19.16		117.02					
Tallahatchie		219.37	2,074.24	5,943.34	12,471.86	9,863.95					
Tunica		5.11	1,577.89		4,263.46						
Warren			3,797.46	22,469.96	3,525.03	32,531.77					
Washington				2,327.93	3.10	2,360.93					
Wilkinson	17.62	300.88	33,407.90	11,958.38	70,329.70	87,557.64					
Yazoo	364.61		2,009.32	20,939.69	8,967.06	57,294.00			27.10	142.68	
Total	474.45	1,994.40	87,687.20	128,371.44	185,620.62	394,700.37	104.44	144.24	34.70	142.68	0.00
Grand Total	24,332.41	36,272.00	1,336,023.89	413,729.42	4,657,159.53	3,547,150.34	63,826.66	9,608.40	2,524.83	11,964.36	1,995.97

¹These data are from the Timber Severance Tax records provided by the Mississippi State Tax Commission. Timber Severance Tax is paid on the 11 categories of products listed in this table. ²MBM is lumber tally in "Thousand Board Measure".