

The U.S. Manufacturing Boom

Good for the Economy, Bad for Hardwood Industry Employment

t didn't take long for the effects of a tight labor market to ripple through a Mid-South mill. Fully one fourth of the mill's employees quit a few weeks ago, leaving managers to wonder how to fill the immediately vacated positions and compete for labor over the long term. We don't know the reasons those employees quit, though, given the current economy and a surging jobs market, it's likely some found jobs that offered a stronger compensation package.

Other mills have had little if any luck getting employees in the door. In upstate NewYork, a hardwood mill had 15 open positions, but couldn't find 15 employees available to be hired, so the mill invested instead in automation (*Adirondack Daily Enterprise*). Other mills that traditionally put up "help wanted" signs and placed ads in local newspapers have turned to employment agencies, and still can't find enough labor, or labor willing to stick around very long, especially when other manufacturers are also looking for labor and hiring at higher starting wages.

An Internet search of available manufacturing jobs near that Mid-South mill shows what the hardwood industry is up against. Websites list numerous available jobs, with \$16-38 hourlywages, no experience required, 8-hour shifts, healthcare and paid vacation. Even McDonald's advertises \$9 per hour wages for new crew members—who work in air conditioning and have substantially less physically strenuous jobs.

It's clear that hardwood industry labor woes have gone from bad to worse over the last year, based on the comments we've received. It's also clear that it's not going to get any better. Mills, yards, and manufacturers of furniture, cabinets and flooring are competing for a shrinking pool of available labor, and competing against other sectors like construction and transportation, which offer higher salaries for similar skillsets.

U.S. Unemployment and the "Real" Unemployment Snapshot

Job growth surged in April 2019. Employers added 263,000 net new jobs, well ahead of analyst expectations of 185,000, and the unemploy-

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Hardwood Lumber Price Indexes



Indexes represent the average published prices of 7 key hardwood items. The margin is the difference in dollars between the kiln-dried and green indexes, as read from the right-hand axis. ment rate fell to a 50-year low of 3.6%. Job gains occurred across most sectors. Combined February and March employment gains were upwardly revised by 16,000, and job gains have averaged 169,000 per month over the last three months, according to the Bureau of Labor Statistics (BLS). On paper, it would seem that anyone who wants a job can find one, as there are roughly a million more job openings than unemployed workers right now (BLS).

Beyond the usual headlines is the less-reported "real unemployment rate," which offers a broader view of the U.S. employment situation, and includes the underemployed (part-time workers who would prefer full-time jobs), the marginally attached (those who have looked for work in the last year but not in the previous four weeks), and discouraged workers (those who have given up looking for work completely). The real unemployment rate was at 7.3% for the third straight month in April. It has fallen steadily since peaking at 17% in 2010. [Note: unemployment was greater during the Great Depression, at 25%, but the BLS only started tracking the real unemployment rate in 1994.]

How Big is the Manufacturing Boom?

Analyst predictions that the U.S. manufacturing sector would remain strong in 2019 after an impressive 2018 have come true, to a degree. U.S. manufacturing expanded year-over-year in April, and the overall economy grew for the 120th consecutive month, according to the Institute for Supply Management (ISM). The pace of growth in April was the slowest since October 2016, however, and may have been impacted by President Trump's threat to close the U.S. border with Mexico. Analysts say the pace of manufacturing expansion will increase once the U.S. and China resolve trade tensions and the weak global economy starts to improve (*MarketWatch*).

Job Growth

Employers added just 4,000 net *new* manufacturing jobs in April, but the sector has added an average of 22,000 jobs per month since February 2018, according to the BLS. As of April 2019, there were approximately 13 million U.S. manufacturing jobs, 1.3 million more than in April 2010, when the U.S. economy was coming out of the Great Recession. It will take roughly six million more manufacturing jobs to break the record set in 1979, however.

A decade ago, manufacturing sector employees weren't as quick to leave because fewer greener pastures were available. According to the BLS, there were only 99,000 total manufacturing sector *job openings* in spring 2009. Openings peaked at half a million in November 2018, by comparison, and though January 2019 openings were a bit

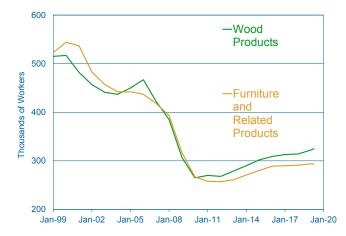


Figure 1. U.S. employment in wood products and furniture and related products manufacturing, production and nonsupervisory positions (BLS).

lower, they remained the second-strongest January total on record.

Since 1999, combined losses in the U.S. wood products and furniture and related products manufacturing sectors have totaled roughly 425,000 production and nonsupervisory employees. Employment in those sectors has risen slowly since the early 2010's, however, as the economy has recovered and demand for those products have grown (Figure 1). Unemployment rates were in the 5-9% range from 2010-2016, so there were enough unemployed workers available to take the new wood products and furniture manufacturing jobs that returned. Now, with unemployment at the lowest rate since man first stepped foot on the moon in 1969, fewer workers are available to fill open positions.

Manufacturing Wage Growth

Manufacturing wages have risen as the number of available jobs has increased. Average manufacturing sector wages for production and nonsupervisory employees were \$22 per hour in April 2019, an \$8 increase from 1999. Wages in the wood products and furniture manufacturing sectors have also risen, but continue to lag the manufacturing sector average by a couple dollars per hour (Figure 2). Wood products and furniture manufacturing wages actually flattened from 2010-2012 before picking back up. Employees in metal, machinery, and petroleum and coal products manufacturing all make higher average hourly salaries in 2019 than do employees involved in the manufacture of wood products and furniture, according to the BLS, which partially explains why employees are quick to leave.



Figure 2. Average hourly wages of production and nonsupervisory employees in the manufacturing sector and wood products and furniture manufacturing subsectors (BLS).

Labor Costs and Profitability Issues

Hardwood industry employers have increased wages in recent years, hoping to attract and retain employees, but without much success. The idea of paying still higher wages will challenge even the largest hardwood producers. Even in good years, when the U.S. hardwood industry experienced growth and strong prices, profitability was strained for most producers. In tough years, higher labor costs are almost guaranteed to keep profits minimal, at best, especially if those higher costs coincide with raw materials prices going up faster than finished goods prices, like we're experiencing in 2019.

Significantly raising entry-level pay also has a ripple-up effect, according to the Congressional Budget Office, which studied the topic as it relates to federal minimum wage hikes. In laymen's terms, if entry level laborers get a big bump in starting pay, it can also drive wage increases for existing employees already earning above that grade. Established employees will argue for maintaining the wage differential that existed prior. That wage differential takes on even greater weight if higher wages are paying for less-qualified employees who are negatively impacting production.

On the Horizon...

After two years of battling each other on just about everything, it appears Republicans and Democrats have found some common ground on one of President Trump's campaign promises: rebuilding America's infrastructure. If approved, it is likely hardwood industry employees would shift in even larger numbers to construction and other sectors tasked with rebuilding roads, bridges, airports and highways, adding to existing labor woes.

A cursory look at the current labor force participation rate, 63%, suggests there should be enough people able to come off the sidelines and help solve hardwood industry labor woes. After all, there were approximately 96 million Americans considered not in the labor force in April (for various reasons, including age, illness and pursuit if higher education). Our closer look at BLS employment data shows the labor participation rate among main household income earners, 25 to 64-year-olds, was 78% in April 2019, the highest since 2010, with just over one million more employed this April than last. The unemployment rate among that demographic was just 2.7% in April. In other words, there are not a lot of extra workers around, and wages may have to go even higher to pull a larger percentage back into the jobs market, or to draw good employees away from their current jobs.

Hardwood producers can't afford significantly higher labor costs, which will ultimately force the industry to become more automated than it is now. Employers who have already started that process, like the mill in upstate New York, will be ahead of the curve, while those who have waited will wish they hadn't, as it doesn't appear a break in the labor crisis is coming anytime soon.

> Tony Burbeck Editor

Appalachian Pricing

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ть	Grade		-Dried s Tally		iln-Dried Net Tally	Green	ть	Grade		-Dried s Tally	Γ
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	FAS/1F	1445	(1315-1540)	1555	(1415-1655)	1040				Sap/E	
4/4	#1 Com	1085	(1005-1180)	1165	(1080-1270)			FAS/1F	1645	(1530-1765)	_
	#2 Com	765	(705-835)	825	(760-900)	420 -10	4/4	#1 Com	1360	(1295-1450)	ĺ
	FAS/1F	1520	(1365-1615)	1635	(1470-1735)	1165		#2 Com	1070	(1010-1140)	ĺ
5/4	#1 Com	1230	(1120-1345)	1325	(1205-1445)			FAS/1F	1900	(1780-2025)	F
	#2 Com	970	(910-1055)	1045	(980-1135)	460	5/4	#1 Com	1440	(1335-1535)	ĺ
	FAS/1F	1720	(1615-1850)	1850	(1735-1990)	1180		#2 Com	1005	(940-1100)	ĺ
6/4	#1 Com	1425	(1330-1540)	1530	(1430-1655)	840	6/4	FAS/1F	2105	(1970-2290)	Γ
	#2 Com	1040	(980-1120)	1120	(1055-1205)	485	0/4	#1 Com	1450	(1345-1535)	ĺ
	FAS/1F	1835	(1700-1975)	1975	(1830-2125)	1260	8/4	FAS/1F	2205	(2050-2355)	ſ
8/4	#1 Com	1505	(1385-1620)	1620	(1490-1740)	880	0/4	#1 Com	1510	(1415-1640)	
	#2 Com	1090	(1015-1165)	1170	(1090-1255)	505				Unsele	С
			BASSW	OOD				FAS/1F	1520	(1415-1635)	ĺ
	FAS/1F	1110	(1055-1180)	1195	(1135-1270)	715	4/4	#1 Com	1055	(970-1120)	ĺ
4/4	#1 Com	730	(690-800)	785	(740-860)	385		#2 Com	780	(730-855)	ĺ
	#2 Com	490	(465-535)	525	(500-575)	205		#3 Com			
	FAS/1F	1190	(1120-1265)	1280	(1205-1360)	785			SO	FT MAPLE	•
5/4	#1 Com	745	(695-800)	800	(745-860)				Г	Sap/E	31
	#2 Com	515	(490-555)	555	(525-595)	215		FAS/1F	1675 +10	(1560-1775)	
		1010	BEE		(1100,1000)		4/4	#1 Com	1195	(1105-1270)	ĺ
	FAS/1F	1210	(1105-1265)	1300	(1190-1360)			#2 Com	815	(750-870)	Ļ
4/4	#1 Com	780	(715-850)	840	(770-915)					Unsele	
	#2 Com	550	(520-600)	590	(560-645)			FAS/1F	1525	(1400-1615)	
			HERRY - AR				4/4	#1 Com	1090	(1015-1190)	ĺ
		1			reverse face	1000 10		#2 Com	705	(650-775)	L
4/4	FAS/1F	1775	(1690-1940)	1910	(1815-2085)	1280 -10	E IA	FAS/1F	1690	(1590-1820)	ĺ
4/4	#1 Com	1210	(1155-1310)	1300	(1240-1410)		5/4	#1 Com	1170	(1105-1280)	ĺ
	#2 Com	805	(725-905)	865	(780-975)	385		#2 Com	735	(695-800)	L
		4740 00	Unselec		20 (1705 2020)		G /A	FAS/1F #1 Com	1720	(1610-1850)	ĺ
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4/4		700	(1025-1205)		· · ·			FAS/1F		(715-825)	⊢
	#2 Com FAS/1F	1865	(650-755) (1730-2010)	755	(700-810) (1860-2160)		8/4	#1 Com	1755 1285	(1625-1875) (1185-1385)	ĺ
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	FAS/1F	1945	(1800-2085)	2090	(1935-2240)			FAS/1F	1250 -15	(1180-1345)	È
6/4	#1 Com	1470	(1390-1600)	1580	(1495-1720)			#1 Com	880	(1100-1040)	ĺ
0/1	#1 Com #2 Com	950	(885-1025)	1020	(950-1100)		4/4	#1 Com	775 -15	(685-855)	ĺ
	FAS/1F	2055	(1860-2225)	2210	(2000-2390)			#2 Com #3 Com	110-10	(000-000)	ĺ
8/4	#1 Com	1530	(1445-1645)	1645	(1555-1770)			FAS/1F	1445	(1355-1540)	F
0 / 1	#1 Com	975	(910-1055)		(980-1135)			#1 Com	1100	(1020-1190)	ĺ
	#2 00m	010	CHERRY -				5/4	#2 Com	875	(825-935)	ĺ
			Unsele					#3 Com	0/0	(020 000)	ĺ
	FAS/1F					1240		FAS/1F	1710 -15	(1605-1840)	F
4/4	#1 Com					715	6/4	#1 Com	1410	(1315-1505)	ĺ
	#2 Com					365		#2 Com	1070	(990-1160)	ĺ
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4/4	#1 Com					700				RED OA	k
	#2 Com					335		FAS/1F	1315	(1230-1410)	
			HICKC	RY				#1 Com	965	(885-1040)	ĺ
	FAS/1F	1405 -5	(1335-1530)	1510	-5 (1435-1645)	870	4/4	#2 Com	800 -10	(705-865)	ĺ
4/4	#1 Com	1105	(1015-1190)	1190	(1090-1280)			#3 Com		. ,	ĺ
	#2 Com	890	(840-975)	955	(905-1050)	485		FAS/1F	1455 -15	(1335-1595)	
							E IA	#1 Com	1090 -15	(1025-1220)	ĺ
							5/4	#2 Com	870 -15	(820-955)	ĺ
How	to Read	the Pricing	Tables:		Typical range of	KD prices		#3 Com			ĺ
								FAS/1F	1710 -15	(1605-1840)	Γ
Th.	Grade	Gros	s Tally		Net Tally	Green	6/4	#1 Com	1410	(1315-1505)	l
4/4	FAS/1F	845+10	(795-895)	910		690	L	#2 Com	1070	(990-1160)	L
		1	>	_	$\overline{1}$			FAS/1F	1815 -10	(1705-1975)	ſ
					$ \rightarrow $		8/4	#1 Com	1440	(1330-1560)	l
	Prevailin	g market pri	ce (PMP)		Weekly change	e in PMP		#2 Com	1195	(1105-1270)	L
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Net Tally Green APLE Btr 1770 (1645-1900) 1340 1460 (1390-1560) 1055 1150 (1085-1225) 650 -5 (1915-2175) 1365 2045 1075 1550 (1435-1650) 1080 (1010-1185) 675 2265 (2120-2460) 1465 1560 (1445-1650) 1100 2370 (2205-2530) 1585 1625 (1520-1765) 1110 cted (1520-1760) 1185 1635 1135 (1045-1205) 965 840 (785-920) 610 -10 435 (RED LEAF) 3tr 1800 +10 (1675-1910) 1305 +5 1285 (1190-1365) 855 875 (805-935) 490 cted 1640 (1505-1735) 1175 1170 (1090-1280) 805 -10 760 (700-835) 445 -15 1815 1255 (1710-1955) 1260 (1190-1375) 855 790 (745-860) 465 1850 (1730-1990) 1310 1295 (1200-1390) 880 (770-885) 475 815 1885 (1745-2015) 1395 1380 (1275-1490) 925 875 (815-945) < - A1 1345 -15 (1270-1445) 895 - 15 945 (880-1045) 625 -10 835 - 15 (735-920) 610 545 1555 (1455-1655) 970 1185 (1095-1280) 680 940 (885-1005) 620 550 1840 -15 (1725-1980) 1020 1515 (1415-1620) 765 (1065-1245) 1150 1950 -10 (1835-2125) 1100 1550 (1430-1675) 785 1285 (1190-1365) < - A2 1415 (1325-1515) 910 -10 1040 (950-1120) 640 860 -10 (760-930) 535 495 1565 -15 (1435-1715) 980 1170 -15 (1100-1310) 670 935 -15 (880-1025) 600 545 1840 -15 (1725-1980) 1035 1515 (1415-1620) 765 1150 (1065-1245) 1950 -10 (1835-2125) 1095 1550 (1430-1675) 795

1285

Kiln-Dried

(1190 - 1365)

Appalachian Pricing

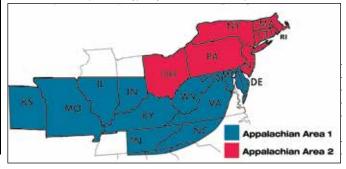
r										
			Dried		Dried	~				
Th.	Grade	Gros	s Tally		Tally	Green				
			WHITE							
	FAS/1F	2115 +20	(2010-2335)	2275 +20	(2160-2510)	1745				
4/4	#1 Com	1430 +10	(1340-1585)	1540 +10	(1440-1705)	985				
7/7	#2 Com	1000	(935-1105)	1075	(1005-1190)	615				
	#3 Com					575				
	FAS/1F	2375	(2260-2615)	2555	(2430-2810)	1815				
5/4	#1 Com	1550	(1440-1675)	1665	(1550-1800)	1000				
5/4	#2 Com	1230	(1145-1340)	1325	(1230-1440)	630				
	#3 Com					550				
	FAS/1F	2820	(2585-2985)	3030	(2780-3210)	2025				
6/4	#1 Com	1915	(1795-2065)	2060	(1930-2220)	1065				
	#2 Com	1400	(1315-1470)	1505	(1415-1580)					
	FAS/1F	3405 +40	(3200-3700)	3660 +45	(3440-3980)	2350				
8/4	#1 Com	2150	(2025-2240)	2310	(2175-2410)	1130				
	#2 Com	1565	(1490-1670)	1685	(1600-1795)					
			POPL	AR						
	FAS/1F	1150 +15	(1050-1220)	1235 +15	(1130-1310)	950				
4/4	#1 Com	730	(680-785)	785	(730-845)	525				
	#2 Com	610 +10	(550-650)	655 +10	(590-700)	450				
	FAS/1F	1160 +10	(1080-1230)	1245 +10	(1160-1325)	950				
5/4	#1 Com	775 +5	(715-830)	835 +5	(770-890)	525				
	#2 Com	650	(600-705)	700	(645-760)	450				
	FAS/1F	1165	(1080-1250)	1255	(1160-1345)	950				
6/4	#1 Com	805	(740-860)	865	(795-925)	535				
	#2 Com	665	(605-715)	715	(650-770)	450				
	FAS/1F	1220 +10	(1125-1310)	1310 +10	(1210-1410)	955				
8/4	#1 Com	885	(825-940)	950	(885-1010)	560				
	#2 Com	695	(625-755)	745	(670-810)	465 +5				
10/4	FAS/1F	1290	(1195-1360)	1385	(1285-1460)	955				
12/4	FAS/1F	1335	(1235-1430)	1435	(1330-1540)	975				

Th.	Grade Kiln-Dried		Ne	n-Dried et Tally	Green	
			WALN	UT ²		
	FAS/1F	3650	(3295-4020)	3925	(3545-4325)	2650
4/4	#1 Com	2365	(2190-2550)	2545	(2355-2740)	1500
	#2 Com	1545	(1425-1660)	1660	(1530-1785)	800
	FAS/1F	3905	(3665-4110)	4200	(3940-4420)	
5/4	#1 Com	2805	(2625-2970)	3015	(2825-3195)	
	#2 Com	1645	(1545-1795)	1770	(1660-1930)	
	FAS/1F	3945	(3720-4300)	4240	(4000-4625)	
6/4	#1 Com	3070	(2865-3230)	3300	(3080-3475)	
	#2 Com	2040	(1920-2155)	2195	(2065-2315)	
	FAS/1F	4225	(3990-4615)	4545	(4290-4960)	
8/4	#1 Com	3190	(3000-3345)	3430	(3225-3595)	
	#2 Com	2245	(2090-2405)	2415	(2245-2585)	

*All prices are in dollars per thousand board feet (\$/MBF).

*All green FAS prices include a premium for full-load shipments.

¹5/4-8/4 "Unselected" Cherry typically meets 90/50 Red specifications. ²Kiln-dried Walnut prices include steam treatment; green prices do not. ²Green F1F Walnut prices are typically \$100 below the FAS prices.





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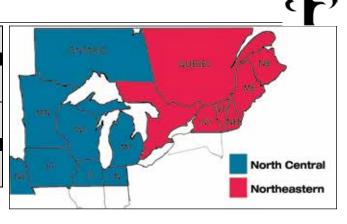
			-Dried		Dried					Dried		Dried	
Th.	Grade	Gros	s Tally		Tally	Green	Th.	Grade		s Tally		Tally	Green
			ASF						HARD N	MAPLE - NC		ITRAL	
414	Sel/Btr	1425	(1345-1545)	1530	(1445-1660)			0 - 1/D4-	4700	#1&2 W		(1705 0005)	4405 40
4/4	#1 Com #2 Com	1020 -10 750 -5	(950-1100) (690-820)	1095 -10 805 -5	(1020-1185) (740-880)	745 455	1/1	Sel/Btr #1 Com	1790 1360 -10	(1670-1940) (1270-1440)	1925 1460 -10	(1795-2085) (1365-1550)	1495 -10 1080 -10
	#2 0011	750-5	(090-820) ASPE		(740-880)	400	-/-	#1 Com #2 Com	1105 -5	(1270-1440) (1045-1165)	1400 -10	(1305-1350)	760
	Sel/Btr	940	(885-1010)	1010	(950-1085)	755		Sel/Btr	2080	(1940-2240)	2235	(2085-2410)	1615 -10
4/4	#1 Com	635	(595-690)	685	(640-740)	435	5/4	#1 Com	1450 -10	(1370-1550)	1560 -10	(1475-1665)	1135 -10
	#2 Com	475	(445-515)	510	(480-555)	300		#2 Com	1100 -5	(1020-1160)	1185 -5	(1095-1245)	780
	Sel/Btr	1020	(955-1095)	1095	(1025-1175)		6/4	Sel/Btr	2200	(2060-2360)	2365	(2215-2540)	
5/4	#1 Com	720	(670-780)	775	(720-840)		-	#1 Com	1505	(1385-1605)	1620	(1490-1725)	
	#2 Com	500	(470-540) BASSW	540	(505-580)		8/4	Sel/Btr #1 Com	2345 1640	(2165-2525) (1520-1770)	2520 1765	(2330-2715) (1635-1905)	
	Sel/Btr	1145	(1075-1215)	1230	(1155-1305)	800		#1 Com	1040	Unsele		(1035-1905)	1220
4/4	#1 Com	685	(640-740)	735	(690-795)	465		#2 Com		0110010	0100		600
	#2 Com	445	(410-480)	480	(440-515)	250	4/4	#3 Com					460
	Sel/Btr	1195	(1105-1275)	1285	(1190-1370)	835			HARD	MAPLE - NO		TERN	
5/4	#1 Com	720	(670-790)	775	(720-850)	480				Sap/E			
<u> </u>	#2 Com	475	(440-510)	510	(475-550)	250	A 14	Sel/Btr	1655	(1535-1775)	1780	(1650-1910)	1355
9/4	Sel/Btr #1 Com	1360 940	(1270-1455) (865-1000)	1460 1010	(1365-1565) (930-1075)	950 620	4/4	#1 Com #2 Com	1255 -10 960	(1185-1335) (900-1010)	1350 -10 1030	(1275-1435) (970-1085)	960 705 -10
0,4	#1 Com #2 Com	940 575	(530-620)	620	(930-1075) (570-665)	280	-	#2 Com Sel/Btr	1825	(1583-1995)	1960	(1700-2145)	1440
			BEEC		(3. 0 000)		5/4	#1 Com	1285 -10	(1175-1375)	1380 -10	(1265-1480)	975
	Sel/Btr	1155	(1070-1250)	1240	(1150-1345)	585		#2 Com	950 -10	(890-1020)	1020 -10	(955-1095)	710
4/4	#1 Com	795	(740-840)	855	(795-905)	455	6/4	Sel/Btr	1945	(1795-2085)	2090	(1930-2240)	
	#2 Com	565	(515-615)	610	(555-660)	310		#1 Com	1290	(1190-1390)	1385	(1280-1495)	990
		YELLOW	V BIRCH - N		NTRAL		8/4	Sel/Btr	2040	(1880-2210)	2195	(2020-2375)	
	Sel/Btr	1405	Sap/E (1275-1520)	1510	(1370-1635)	1300		#1 Com	1415	(1305-1535) Unsele	1520 cted	(1405-1650)	1035
4/4	#1 Com	1000	(940-1085)	1075	(1010-1165)	850		#2 Com		Unsele	Cleu		585
	#2 Com	700	(650-750)	755	(700-805)		4/4	#3 Com					460
	Sel/Btr	1655	(1525-1785)	1780	(1640-1920)				SO	FT MAPLE		F)	
5/4	#1 Com	1125	(1035-1215)	1210	(1115-1305)					Sap/E	Btr		
	#2 Com	810	(750-870)	870	(805-935)			Sel/Btr	1590	(1475-1690)	1710	(1585-1815)	
	0-1/04-		Unsele	cted		1055	4/4	#1 Com	1185	(1095-1265)	1275	(1175-1360)	930
	Sel/Btr #1 Com					1255 760		#2 Com Sel/Btr	840 1765	(790-900) (1625-1895)	905 1900	(850-970) (1745-2040)	540 1420
4/4	#1 Com #2 Com					510	5/4	#1 Com	1275	(1025-1895) (1195-1375)	1370	(1745-2040) (1285-1480)	955
	#3 Com					400		#2 Com	855	(800-920)	920	(860-990)	570
		YELLOV	V BIRCH - N	ORTHEA	STERN					Unsele	cted		
		•	Sap/E					Sel/Btr	1445	(1340-1540)	1555	(1440-1655)	
	Sel/Btr	1305	(1185-1450)	1405	(1275-1560)	1140	4/4	#1 Com	1070	(1000-1140)	1150	(1075-1225)	800
4/4	#1 Com	955	(880-1030)	1025	(945-1110)	825		#2 Com	725	(665-765)	780	(715-825)	490
	#2 Com Sel/Btr	640 1455	(570-690) (1335-1575)	690 1565	(615-740) (1435-1695)		5/4	Sel/Btr #1 Com	1605 1130	(1495-1715) (1050-1200)	1725 1215	(1610-1845) (1130-1290)	1310 870
5/4	#1 Com	1045	(965-1145)		(1040-1230)		0/1	#1 Com	750	(695-805)	805	(745-865)	
	#2 Com	805	(745-865)		(800-930)				RED	OAK - NOR	TH CENT		
			Unsele	cted				Sel/Btr	1375	(1255-1475)	1480	(1350-1585)	945
	Sel/Btr					1135	4/4	#1 Com	945	(885-1015)	1015	(950-1090)	650
4/4	#1 Com					785		#2 Com	835	(770-890)	900	(830-955)	
	#2 Com					490 415		#3 Com	1575	(1460, 1605)	1605	(1570-1825)	425
	#3 Com	l	CHER	RY		415		Sel/Btr #1 Com	1575 1140	(1460-1695) (1040-1220)	1695 1225	(1570-1825) (1120-1310)	
	Sel/Btr	1645	(1505-1755)	1770	(1620-1885)	1255	5/4	#1 Com #2 Com	885	(830-940)	950	(890-1010)	
4/4	#1 Com	1070	(1000-1150)	1150	(1075-1235)	730	L	#3 Com					450
	#2 Com	725	(670-785)	780	(720-845)	390	6/4	Sel/Btr	1780	(1630-1930)	1915	(1755-2075)	1230
	Sel/Btr	1685	(1545-1825)	1810	(1660-1960)		5/4	#1 Com	1315	(1195-1415)	1415	(1285-1520)	835
5/4	#1 Com	1180	(1095-1255)	1270	(1175-1350)		8/4	Sel/Btr	1925	(1775-2075)	2070	(1910-2230)	
L	#2 Com	765	(700-830)	825	(755-890)			#1 Com	1415 RE	(1305-1525) D OAK - NO	1520 DRTHEAS	(1405-1640)	875
								Sel/Btr	1365	(1265-1465)		(1360-1575)	930
								#1 Com	945	(1205-1405)	1015	(1300-1373) (950-1090)	635
							4/4	#2 Com	785 -10	(735-845)	845 -10	(790-910)	
								#3 Com		,			440
								Sel/Btr	1460	(1310-1570)	1570	(1410-1690)	
				Г <u>-</u> -			5/4	#1 Com	1070	(980-1150)	1150	(1055-1235)	750
How	to Read	the Pricing	l ables:	Ту	pical range of	KD prices		#2 Com	830	(770-890)	890	(830-955)	575
Th	Grado	Graa	e Tally	Not	Tally 🖌	Green		#3 Com Sel/Btr	1780	(1630-1020)	1915	(1755_2075)	505 1230
	Grade FAS/1F	845+10	s Tally (795-895)		tally ⊮ (855-960)	690	6/4	Sel/Btr #1 Com	1780	(1630-1930) (1195-1415)	1915 1415	(1755-2075) (1285-1520)	835
			(100-000)	X			0/4	Sel/Btr	1925	(1775-2075)	2070	(1203-1320)	
	Prevailing	g market prid	ce (PMP)	V	Veekly change	e in PMP	8/4	#1 Com	1415	(1305-1525)	1520	(1405-1640)	875

E|

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Northern Pricing

Th. Grade			n-Dried ss Tally	Kil Ne	Green	
			WHITE	OAK		
	Sel/Btr	2150	(2040-2300)	2310	(2195-2475)	1730 +10
4/4	#1 Com	1495	(1425-1575)	1610	(1530-1695)	1020 +5
	#2 Com	1025	(975-1085)	1100	(1050-1165)	585
	Sel/Btr	2370	(2190-2510)	2550	(2355-2700)	1850
5/4	#1 Com	1545	(1455-1645)	1660	(1565-1770)	1060
	#2 Com	1050	(985-1115)	1130	(1060-1200)	630
			WALN	UT^1		
	Sel/Btr	3900	(3675-4175)	4195	(3950-4490)	
4/4	#1 Com	2550	(2420-2700)	2740	(2600-2905)	
	#2 Com	1735	(1630-1830)	1865	(1755-1970)	



*All prices are in dollars per thousand board feet (\$/MBF).

*All green FAS prices include a premium for full-load shipments.

¹Kiln-dried Walnut prices include steam treatment.

The price information presented in this publication reflects the boundaries on these maps. These boundaries are a general interpretation of commercial hardwood sales regions and can vary by species and the quality of the lumber sold. Areas on this map do not necessarily correspond to any political or botanical boundaries.

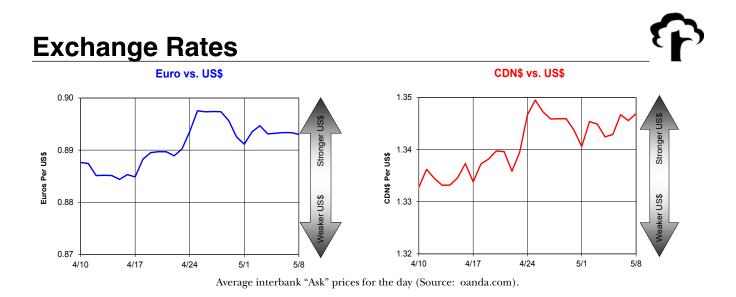
Published green and kiln-dried lumber prices reflect average estimated FOB mill prices in full truckload or carload quantities. These prices represent prior sales and are not an attempt to predict future prices. Prices are given in U.S. dollars per thousand board feet (\$/MBF).

Kiln-Dried Gross Tally prices represent sales of kiln-dried lumber sold gross tally, graded and inspected after kiln drying. Kiln-Dried Net Tally prices represent sales of kiln-dried lumber sold net tally, also graded and inspected after kiln drying.

Prices that have changed from the preceding week are indicated by bold type, immediately followed by the dollar amount of the increase or decrease.

All hardwood and Cypress lumber prices are representative of lumber sold based on National Hardwood Lumber Association grading rules.

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Southern Pricing

Th. Grade

4/4 #1 Com

5/4 #1 Com

6/4 #1 Com

8/4 #1 Com

4/4 #1 Com #2 Com FAS/1F 5/4 #1 Com #2 Com

FAS/1F

FAS/1F

#1 Com

FAS/1F

#1 Com FAS/1F #1 Com

#2 Com

#3 Com

FAS/1F

#1 Com

#2 Com

#3 Com

FAS/1F

#1 Com

#2 Com

#3 Com

FAS/1F

#1 Com

#2 Com

#3 Com

765

1395

1050

840

2060

1320

940

2385

1505

1110

-20

(700-835)

(1300-1515)

(970-1120)

(780-935)

(1935-2185)

(1210 - 1430)

(2220-2540)

(1405-1620)

(1040-1205)

(870-1020)

WHITE OAK

825

1130

905

2215

1420

1010

2565

1620

1195

1500 -20

(755-900)

(1400 - 1630)

(1045 - 1205)

(840-1005)

(1300-1540)

(935-1095)

(2385 - 2730)

(1510-1740)

(1120-1295)

(2080-2350) 1705

615

555

1015

795

645

585

945

625

575

1770

1010

630

575

4/4

4/4

4/4

5/4

4/4

5/4

Ki	Kiln-Dried Kiln-Dried					K	(iln-Dried		Ki	In-Dried	
Gro	oss Tally	N	et Tally	Green	Th.	n. Grade Gross Tally		y	Net Tally		
	ASH	1						PECA	N/HI	CKOR	Y
1440	(1345-1545)	1550	(1445-1660)	1120 -10		FAS/1F	1280	(1180-	1370)	1375	(1270-1475)
990	(925-1105)	1065	(995-1190)	780	4/4	#1 Com	880	(815	-950)	945	(875-1020)
725	(675-790)	780	(725-850)	440		#2 Com	725	(-770)	780	(735-830)
1565	(1460-1670)	1685	(1570-1795)	1135					OPL	AR	
1125	(1025-1235)	1210	(1100-1330)	815		FAS/1F	1110	+10 (1030-	1185)	1195 +	10 (1110-1275)
805	(745-850)	865	(800-915)	440	4/4	#1 Com	715	(655	-755)	770	(705-810)
1625	(1500-1710)	1745	(1615-1840)	1280		#2 Com	570	(520	-610)	615	(560-655)
1130	(1055-1245)	1215	(1135-1340)	840		FAS/1F	1115	+10 (1040-	1170)	1200 +	10 (1120-1260)
810	(755-855)	870	(810-920)	470	5/4	#1 Com	720	(660	-760)	775	(710-815)
1785	(1675-1905)	1920	(1800-2050)	1290		#2 Com	575	(525	-615)	620	(565-660)
1315	(1225-1375)	1415	(1315-1480)	895	6/4	FAS/1F	1120	+10 (1045-	1195)	1205 +	10 (1125-1285)
865	(815-905)	930	(875-975)	495	0/4	#1 Com	765	(715	-835)	825	(770-900)
	COTTON	WOOD			8/4	FAS/1F	1140	(1060-	1220)	1225	(1140-1310)
955	(905-990)	1025	(975-1065)	780	0/4	#1 Com	845	(755	-915)	910	(810-985)
710	(675-735)	765	(725-790)	575							
460	(430-490)	495	(460-525)	260							
960	(905-1000)	1030	(975-1075)	830			ł	(iln-Dried	Net T	ally	
715	(665-745)	770	(715-800)	595				CYPR	ESS		
470	(440-510)	505	(475-550)	285		Size		Sel/Btr			#2 Com
	SAP G	UM				1 x 4	1325	(1250-	1390)	565 -	. ()
760	(710-820)	815	(765-880)	365		1 x 6	2380	(2300-2	2465)	1065	(980-1145)
605	(565-655)	650	(610-705)	330		1 x 8	2295	(2155-2	2415)	1065	(1005-1145)
	HACKB	ERRY				1 x 10	2310	(2200-2	2450)	1255	(1170-1345)
885	(845-945)	950	(910-1015)	520		1 x 12	2395	(2300-2	2470)	1700	(1625-1815)
660	(620-710)	710	(665-765)	480		2 x 4	1735	(1605-	1845)	870	(815-930)
	RED C	DAK				2 x 6	2550	(2370-2	2710)	1270	(1195-1380)
1180	(1105-1300)	1270	(1190-1400)	890		2 x 8	2550	(2360-2	2680)	1285	(1195-1370)
870	(790-945)	935	(850-1015)	675		2 x 10	2675	(2495-2	2885)	1350	(1270-1420)

2 x 12

2950

*All prices are in dollars per thousand board feet (\$/MBF). *All green FAS prices include a premium for full-load shipments.

(2745-3185)

1895





Green

780

550

365

540

395

550

420

555 935

560

(1815-2025)

920 +5

925 +5

930 +5

Miscellaneous Pricing

LOW-GRADE LUMBER	Nor	thern	Sou	thern	Appal	achian
LOW-GRADE LOWBER	PMP +/-	\$/MBF	PMP +/-	\$/MBF	PMP +/-	\$/MBF
PALLET LUMBER						
4/4 x 4"-6"-8"	420	(380-450)	430 +5	(400-465)	450	(400-490)
PALLET CANTS						
4 x 4 and 4 x 6 cants	455	(410-500)	475	(425-530)	490	(405-550)
RAILROAD TIES						
7 x 9 Crossties	660	(600-720)	730	(675-790)	730	(675-785)
7 x 9 Switchties	750	(700-795)	790	(710-860)	785	(730-860)
FRAME STOCK (AIR-DRIED)						
4/4 Oak/Hickory Frame S2S	450	(400-490)	525	(475-570)	545	(500-580)
4/4 Mixed Frame S2S	445	(400-490)	520	(460-555)	585	(465-640)

*All low-grade lumber prices are \$/MBF, gross tally, FOB origin.

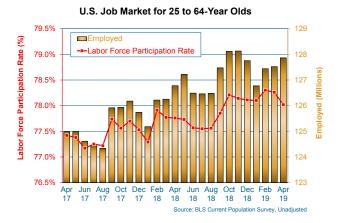
IMPORTS		Sel/Btr
INFORTS	PMP +	- RANGE
J	ATOBA	
4/4	3045	(2945-3120)
5/4	3140	(3050-3215)
AFRICA	N MAHC	DGANY
4/4	2810 -10	(2695-2950)
5/4	2840 -20	(2735-2990)
6/4	2870 -20	(2770-3020)
8/4	2920 -20	(2785-3060)
Prices are for Car	meroon &	Ghana stock;
Ivory Coast typica		
GENUIN		DGANY
4/4	5510	(5290-5800)
5/4	5840	(5570-6140)
6/4	5870	(5600-6130)
8/4	5890	(5620-6150)
	SAPELE	
4/4	3110	(2865-3300)
5/4	3140	(2995-3305)
6/4	3160	(3025-3335)
8/4	3195	(3050-3360)
SPAN	IISH CE	DAR
4/4	3635	(3510-3720)
5/4	3650	(3515-3735)
6/4	3670	(3515-3755)
8/4	3685	(3515-3845)

3/4"	UNFINISHED	Plain Sawn					
STR	IP FLOORING	PMP	+/-	RANGE			
	RED	OAK					
	Sel/Btr	2.29		(2.18-2.41)			
2-1/4"	#1 Common	1.82		(1.70-1.90)			
	#2 Common	1.24		(1.13-1.34)			
	Sel/Btr	2.27		(2.17-2.37)			
3-1/4"	#1 Common	1.83		(1.68-1.94)			
	#2 Common	1.32		(1.25-1.44)			
	WHITE	E OAK					
	Sel/Btr	2.58	+0.04	(2.47-2.68)			
2-1/4"	#1 Common	1.87	+0.04	(1.78-1.96)			
	#2 Common	1.37		(1.30-1.48)			
	Sel/Btr	2.65		(2.52-2.76)			
3-1/4"		2.25		(2.15-2.34)			
* • 11 61	#2 Common	1.74	+0.03	(1.63-1.86)			

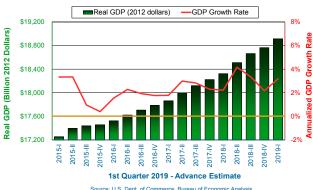
*All flooring prices are \$/square foot, net tally after 5% distributors discount.

*Kiln-dried lumber, in \$/MBF, net tally.

Economic Indicators



U.S. Gross Domestic Product



GENERAL OBSERVATIONS -

Reports continue to indicate that sales were slow to export markets. There's substantial concern that if tariff rates rise to 25% on Friday-which President Trump said they will in the absence of a trade deal resolution with China-Chinese purchasing of U.S. hardwoods would slow to a crawl. One exporter with containers on the water said, "China is already asking us to split the additional tariff rate increase, and we're going to have to figure out where that extra 7.5% (half of the expected tariff rate increase) comes from." A different exporter said, "China will go dead for a few months and they will use up all their existing inventory before they return. I've already had one buyer tell me he's cancelling orders."

Contacts described domestic hardwood lumber demand as fair, but below expectations for this time of year. Logging conditions have improved with better weather, but some mills have continued to run less than full-time hours. Kiln-dried inventories were generally in check, though one yard said green supplies "cut loose" in mid-March; "We now have 20 truckloads ahead of the inspection line." Another said it expects lower green prices in summer. A green mill in Appalachia said prices are already moving down and won't level out until early July.

Poplar, White Oak and **Soft Maple** remained decent sellers. Sawmills don't have enough **Poplar** logs to meet demand, though contacts expect a stronger supply in summer. Contacts generally reported weaker demand for **Red Oak, Cherry, Walnut, Ash** and **Hickory**.

NORTHERN REGION -

Log reports were mixed last week, with some areas of the North still dealing with road restrictions and some with wet logging conditions. The majority of sawmills were running at 40 hours per week, however, with some running more and a few less. **Ash** suppliers faced weak markets for most items, though a few contacts noted better demand for upper-grade stock. The prevailing

prices for KD 4/4 #1 and #2 Common Ash fell \$10 and \$5, respectively. Aspen prices held firm despite a few reports of tightening green and KD inventories. Continued decent demand kept Basswood inventory levels quite manageable. Yellow Birch reports were mixed, and one supplier of 4/4 through 12/4said the market was just "so-so." Sap/ Btr Yellow Birch in long lengths moved at a steady pace, according to contacts. The Cherry market remains quite difficult with many companies shying away from the species altogether. There were no additional declines in prevailing Cherry prices following the widespread declines of the week prior. Even with decent interest in Hard Maple, inventories have been creeping higher due to increased output at Northern mills. This inventory growth has put downward pressure on KD 4/4 and 5/4 #1 and #2 Common prices for both Sap/ Btr and #1&2 White. Green 4/4 and 5/4 #1/Btr #1&2 White Hard Maple prices also moved lower in the North Central sub-region. With painted finishes being so popular, interest is growing for Brown and Unselected Hard Maple, as well as for Unselected Soft Maple. Reported Soft Maple prices were consistent with published prevailing rates and ranges. Red Oak interest remained muted, but a few contacts noted better sales of #1/Btr stock. Even with good demand for #2&3A Common Red Oak from the industrial sector, the prevailing price for Northeastern KD 4/4 #2 Common slid \$10. White Oak prices have been under some upward pressure due to limited availability, and prevailing green 4/4 # 1/Btr prices moved higher last week. The market for Walnut remained quite weak domestically and overseas.

SOUTHERN REGION -

Log decks were strained again last week. Ayard manager said, "Some of the supplying mills around us are running just one to three days, and there's not a lot of **Ash** logs due to flooding in low-lying areas." A sawmill said, "We get calls daily for **Ash**, and China is paying decent prices. Some people say **Ash** prices are dropping, but I'm not seeing it." Prevailing KD Ash prices were unchanged, and only the green 4/4 FAS Ash price edged lower. There were no changes noted in prevailing Cottonwood and Pecan/Hickory prices. A Cypress producer noted steady demand and sales at stable prices, though the prevailing 1x4 #2 Common price fell \$5 for the second consecutive week. In one-inch Cypress, today's prevailing 4", 10" and 12" #2 Common prices are lower than a year ago, but by less than 2% each. The majority of two-inch Cypress prices have also been steady over the last year. Contacts said KD 4/4 FAS/1F Red Oak moves to domestic markets, and is better than #1 and #2 Common. "Overall, Red Oak has been bad, and unfortunately it's getting worse," a mill sales manager stated. Only the prevailing KD 5/4 FAS/1F Red Oak price fell, however, and is now down \$50 since February. A strip flooring manufacturer said, "Business is definitely better now than it was during winter, but it is still not typical for this time of year. White Oak flooring is still very much in high demand, but Red Oak demand has been lackluster, at best." Prevailing White Oak strip flooring prices rose last week. Southern suppliers were not as upbeat about White Oak as Appalachian suppliers, but one Southern mill manager said, "At least White Oak is better than Red Oak." A yard manager who had stopped incoming receipts of White Oak earlier in the year said, "I'm still not ready to purchase additional White Oak." Average reported KD and green 4/4 White Oak prices were in line with published prevailing prices, however. A Poplar producer said, "I wish all markets were as good as Poplar, though I think prices will fall later in summer as more logs start coming in." Prevailing KD and green 4/4-6/4 upper-grade **Poplar** prices rose \$5-10, and have strengthened over the last month. Low-grade markets stayed strong, though only the prevailing pallet lumber price rose.

APPALACHIAN REGION –

An Area 1 sawmill said KD 4/4

P

FAS/1F Ash was good, but that #1 Common moves at \$50-60 under the published rates. A second producer, however, included Ash among the species that are "not good and contracting quickly," along with Red Oak, Cherry, Walnut and Hickory. Several Area 2 yards continue to report significantly higher prices for KD 4/4 Ash than the prevailing rates, and than neighboring sawmills. No improvements were noted in Cherry markets, though it looks like KD 4/4 FAS/1F 90/50 Red prices have stabilized. A distributor said Unselected #1 and #2 Common Cherry were "slow to move out," and a yard said it wasn't buying any green #2 Common Cherry, "because it sells KD for the same price as blocking." Another yard said it had some "high-priced" 8/4 Cherry in inventory that does not move. A producer said 5/4-7/4 Hickory still moves to Germany, but that volumes are down 60% from 10 years

ago. A green mill owner said, "I purchase Hickory logs from another mill and saw ties, which remain good." Contacts said Hard Maple markets were up, and a producer in the Virginias said 8' through 10' **Sap**/**Btr** uppers moved the best. Another mill, however, said it was moving its Hard Maple green because it worried about KD #1 Common not moving. Prevailing KD and green #2 Common Hard Maple prices edged slightly lower. Likewise, contacts said Soft Maple was still pretty good, but one yard noted that KD 4/4 #1 Common had slowed. "In most cases," said one exporter, "export prices are somewhat under the market averages. Poplar and Soft Maple are the exceptions, and are selling closer to market averages." One yard said it was buying in very little Red Oak and another reported green 4/4 #1/Btr buy prices more than \$100 under the prevailing rates; "We would have to raise our Red Oak prices \$50 to get more wood, but we are being cautious about how much lumber we bring in." An Area 1 sawmill said its KD 4/4 Red Oak production was moving at \$25 to \$100 below the prevailing rates. Another said Red Oak was one of the reasons the "industry is in trouble." Exporting yards reported some very strong prices for KD 4/4 #1/Btr White Oak. One contact said, "White Oak exports are strong and pricing is up." One producer said, "Demand is falling for just about everything, but it is rising for KD White Oak and Poplar." Prevailing prices turned higher for KD 4/4#1/Btr White Oak and continued to climb for 8/4 uppers. Poplar comments were universally positive, with many yards and mills reporting upper-grade prices \$20 to \$50 above published prevailing rates, even those that are taking losses on other species. "Poplar is very strong with increased pricing," said one Kentucky producer. At the same time,



"Demand is rising for kiln-dried White Oak and Poplar, but falling for everything else."

yards seem to have dropped their green 4/4 #2/Btr Poplar buy prices, likely in response to increased availability rather than uncertainty about continued KD market strength. The divide seems to be widening again between the "two" Walnut markets: Area 2 yards continue to report KD 4/4 FAS/1F prices in the \$4,100-4,500 range (gross tally), while producers and yards in the central parts of Area 1 typically report prices in the \$3,400-3,700 range-though it's not a hard and fast divide. One distributor in the Virginias, for example, said its KD Walnut supplier dropped its 4/4 and 5/4 FAS/1F prices \$100 since its last purchase, but that still left the 4/4

price almost \$500 above the published prevailing rate.

IMPORTS –

Through February, U.S. imports of solid flooring were down 51% from China, but up 39% from Canada and 26% from Brazil.. Receipts from China were strong in December, but have generally been declining since last July, with this February's receipts the lowest in more than three years. By comparison, solid flooring receipts from Canada have been strong and steady for the last year.

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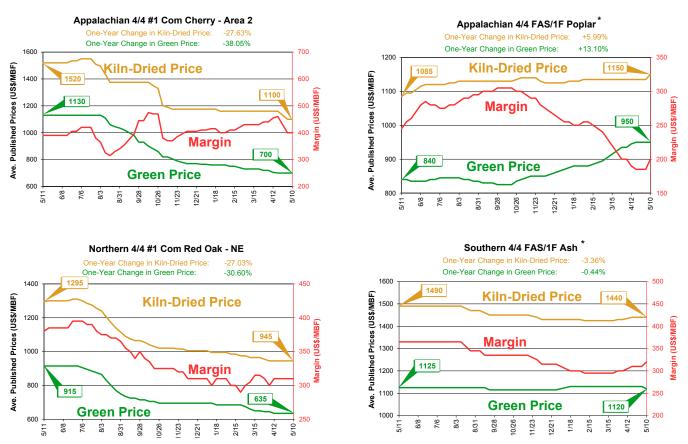
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Hardwood Statistics



In the charts above, the margin is the difference in dollars between the published kiln-dried (gross tally) and green prices, as read from the right-hand axis. Those items marked with an asterisk (*) are among the items incorporated in the Price Indexes on the page 1.