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Summer 2017

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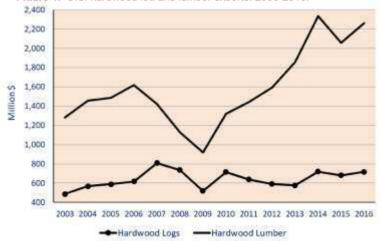
Where Do the Logs Go After Harvest? A Look at the Role of Hardwood Exports

Matt Bumgardner, Forest Products Technologist, U.S. Forest Service

If you have recently harvested timber, a question you might have is, "Where did the logs go after they left my woodland?" Most likely, they were processed somewhere in the United States. Just over 2.3% of the total hardwood log volume harvested in the U.S. was exported in 2014, the latest year for which data are available. Considering only the higher value portion of the log market (sawlogs and veneer logs), the export volume was 6.8% (UNECE/FAO 2016). By contrast, 18.6% of the total volume of hardwood lumber sawn in the U.S. was exported, and the percentage would be much higher if considering only the graded (higher value) portion of the hardwood lumber market.

As shown in **Figure 1**, hardwood lumber exports have risen much faster than hardwood log exports since 2003. Hardwood lumber exports represented a \$2.3 billion market in 2016, compared to \$717.9 million for hardwood logs (USDA Foreign Agricultural Service 2017). After adjusting for inflation, the value of hardwood log exports has increased about 9.6% in the past 14 years; the inflationadjusted value of hardwood lumber exports has increased

Figure 1. U.S. hardwood log and lumber exports. 2003-2016.



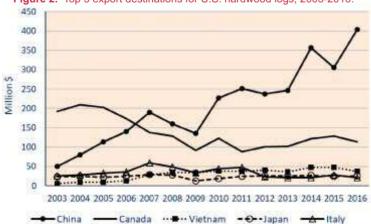
by 31.3% for the same period.

Export markets were critical to U.S. hardwood sawmills during the Great Recession and associated housing crisis, and remain quite important today. Hardwood lumber exports dipped during the recession but quickly recovered to reach a record level in 2014 (**Figure 1**). Log exports have been slower to recover and have yet to reach the prerecession peak of 2007. Although not as large as the market for hardwood lumber exports, the log export market can add value to timberland and it is important to keep abreast of changes.

Perhaps the most notable change in U.S. hardwood log exports has been a shift from Canada to China as the primary destination. As shown in **Figure 2**, China surpassed Canada in 2007, and represented a \$404.6 million market for U.S. hardwood logs in 2016. Globally, there is a sharp drop-off in market size after Canada and China and the top 10 markets represent 91.9% of total exports (**Table 1**). However, U.S. hardwood logs were exported to 84 different destinations in 2016, mostly in relatively small amounts.

Red oak, walnut, and white oak topped the list for export species in 2016, with each representing over \$100 million in export value (**Table 2**). Ash was approaching the \$100 million mark as well. As shown in **Figure 3**, ash has been growing rapidly in importance as an export species. This is likely due, in part, to increased availability as landowners

Figure 2. Top 5 export destinations for U.S. hardwood logs, 2003-2016.



harvest their ash timber in response to the emerald ash borer. It is also possible that strong demand for white oak (**Figure 3**) has contributed to the increased interest in ash, as ash and white oak are both open-grained species that offer a similar look when used in cabinets and furniture.

Table 1. Top 10 export destinations for U.S. hardwood logs, 2016.

Destination	Value (million \$)	Value (%)
1. China	404.6	56.3
2. Canada	113.5	15.8
3. Vietnam	37.0	5.2
4. Japan	26.2	3.6
5. Italy	20.5	2.9
6. Germany	15.0	2.1
7. United Kingdom	13.7	1.9
8. Spain	13.4	1.9
9. South Korea	8.7	1.2
10. Turkey	7.0	1.0
Rest of world	58.3	8.1
Total	717.9	100.0

Figure 3. Top 5 U.S. hardwood log export species, 2003-2016.

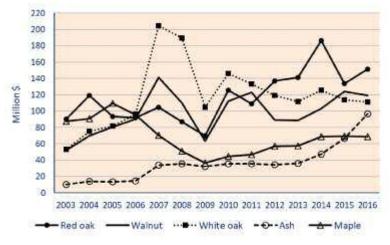


Table 2. Top 8 U.S. hardwood log export species*, 2016.

	Value	Value
Species	(million \$)	(%)
1. Red oak	151.5	21.1
2. Walnut	119.2	16.6
3. White oak	111.1	15.5
4. Ash	96.7	13.5
5. Maple	68.9	9.6
6. Yellow-poplar	27.2	3.8
7. Cherry	23.3	3.2
8. Birch	14.9	2.1
Not identified/Others	105.1	14.6
Total	717.9	100.0

^{*} Values shown for individual species likely are slightly lower than the actual values because 14% of total exports were not identified by species in the export statistics.

China is by far the leading destination for ash and represented 87.7% of U.S. ash export value in 2016. China also was the leading destination for several other U.S. log species including red oak (68.7%), cherry (65.5%), walnut (50.2%), and white oak (32.7%). Canada was the leading destination for U.S. birch logs (94.1%) and all U.S. maple logs (68.1%).

In summary, the hardwood lumber derived from U.S. timber harvests is more likely to be exported than the logs themselves. While most hardwood logs are consumed domestically, exports are important to the industry and can provide market diversity beyond fluctuations in the U.S. economy.

References:

UNECE/FAO. 2016. UNECE/FAO Forest Products Statistics, 2010-2014.

www.unece.org/fileadmin/DAM/timber/statsdata/fps10-14.pdf

USDA Foreign Agricultural Service. 2017. Global Agricultural Trade System.

https://apps.fas.usda.gov/gats/default.aspx

2017 Gwynne Conservation Area

Kathy Smith, Extension Program Director, Forestry

It is that time of year again when we are looking toward the 2017 Farm Science Review. This year's Review is

taking place September 19, 20, 21 at the Molly Caren Agricultural Center in London, Ohio. The Gwynne Conservation Area committee has worked hard to put together a series of talks that cover a broad range of topics. Check out the schedule to see what we have to offer this year.

Tickets for the 2017 Farm Science Review are now available for purchase online at fsr.osu.edu. Buying tickets online allows people to get the \$7 early discount price even though they may not live near an Ohio State University Extension county office or participating agribusiness, which are selling tickets at that price.

A new online directory is available that allows people to perform keyword searches to locate exhibitors and to organize a lineup of events they want to attend. For those who prefer paper, a map is provided in the middle of the program that you pick up at the Review.



2017 Gwynne Conservation Area Schedule of Events

	Cabin	Wildlife & Aquatics	Forages and Grazing	Woodland	Woodland Demo Area
	uesday - Sept 19 th		<u> </u>		
 10:30 					
	Prairie Destaration Dista	M			Forestry Students
 11:00	Prairie Restoration Plots Speaker: Mike Retterer	Managing Aquatic Vegetation Speaker: Perry Orndorff	Warm season bunch grasses		
 11:30			Speaker: Christine Gelley		Chainsaw maintenance, sharpening
11.30		Creating and enhancing pollinator habitat		Low-Impact Logging Speaker: Lee Beers	and safety demonstration
 12:00		Speaker: Denise Ellsworth		Speaker. Lee Deers	
	Common Ohio Woodland Fungi Speaker: Curtis Young	Bee Identification Speaker: Denise Ellsworth	Managing Native Warm Season Grasses for Grazing, Haying and Wildlife, Speaker: Bob Hendershot	Fall Mushroom Hunting	
 12:30 -	,	The Exclusion Solution: How to Build a Deer		Speaker: Erika Lyon	
 1:00 -	Ourdoor Photography	Exclusion Fence, Speaker: Lenny Farlee			Chainsaw cutting techniques
1.00	Speaker: Erika Lyon		Winter stock piled forages		demonstration
 1:30 -		Deer Food Plots	Speaker, Dave Libben		
	Attracting and utilizing pollinators on your farm Speaker: Amanda Bennett	Speaker: Tim McDermott			
2:00 -		Attracting Hummingbirds to Your Backyard	Warm season annuals	When is it time to harvest your trees?	
 2:30 - -	New Herbicides for the Management of Aquatic Plants in Ponds	Speaker, Marne Titchenell	Speaker: Mike Estadt	Speakers: Dave Apsley and Bob Mulligan	
2.30	Speaker Eugene Braig			Trees and Taxes	
 3:00 -	-			Speaker: Lenny Farlee	
	Wednesday - Sept 20 th				
10:00					
10:30_	Electroshocking demonstration				Forestry Students
	Speaker: Nick Radabaugh				r drestry claderite
11:00-		Hadamarka.			
	Prairie Restoration Plots Speaker: Mike Retterer	Hydroponics Speaker: Brian Kleinke	Versatility of warm-season annual grasses Speaker: Christine Gelley		Chainsaw maintenance, sharpening
 11:30-	Attracting Bluebirds and Purple Martins to Your	Aquaponics		Fall Mushroom Hunting Speaker: Erika Lyon	and safety demonstration
 12:00-	Farm, Speaker: Marne Titchenell	Speaker: Matt Smith			
12.00	Electroshocking demonstration Speaker: Nick Radabaugh		Legume options	Trees and Taxes	
 12:30-	· · · · · · · · · · · · · · · · · · ·	Recreational Fisheries Basics for Farm Ponds	Speakers: Dan Lima and Clifton Martin	Speaker: Lenny Farlee	
	Worm Composting Speaker: Carri Jagger	Speaker: Eugene Braig			Chainsaw cutting techniques
 1:00 -	opeanor. Garri bagger		To renovate or not to renovate the pasture?		demonstration
——1:30 —	Electroshocking demonstration	Basics of Pond Aeration	Speaker: Clif Little	Is it a pine? Conifer ID	
1.30 _	Speaker: Nick Radabaugh	Speaker: Perry Orndorff		Speaker: Clifton Martin	
2:00 -		Attracting Hummingbirds to Your Backyard	Warm accord graces?	Community Too Block	
	New Herbicides for the Management of Aquatic	Speaker, Marne Titchenell	Warm season grasses? Speaker: Carri Jagger	Conservation Tree Planting Speaker: Lenny Farlee	
 2:30 -	Plants in Ponds Speaker Eugene Braig			Own woodlands? Overview of Ohio's Property Tax	
3:00 _	· ·			Programs for woodlands, Speaker: Cotton Randall	
	Thursday - Sept 21 st				
 10:30		E LUI L CAMBUS E LO		Notes and the second se	
	Prairie Restoration Plots Speaker: Mike Retterer	Establishment of Wildlife Food Plots Speaker: Mark Landefeld		When is it time to harvest your trees? Speaker: Dave Apsley and Bob Mulligan	Forestry Students
 11:00 			Year-round grazing	Own woodlands? Overview of Ohio's Property Tax	
 11:30 - -		Putting Pollinator Habitat to Work	Speaker: Tim McDermott	Programs for woodlands, Speaker: Cotton Randall	Chainsaw maintenance, sharpening
		Speaker: Colleen Sharkey			and safety demonstration
 12:00 	How to Build the Best Bat Houses Speaker: Marne Titchenell	Controlling Wildlife Powers and the Ide	5	The Coards of Tree ID	
12.20		Controlling Wildlife Damage around the Home and Yard, Speaker: Brian MacGowan	Pasture Walk Speakers: Mark Landefeld	The Secrets of Tree ID Speaker: Kathy Smith	
 12:30 - -					Chainsaw cutting techniques

Spicebush - Lindera benzoin

Amy Stone, Extension Educator, Lucas County

There are two reasons we have included this article in the newsletter. The first is to be sure everyone knows about spicebush. If this is a new shrub to you – maybe you have

Shrub Highlights

Common Name: spicebush

Plant Type: Deciduous shrub

Native Range: North America,

Plant Family: Lauraceae

Hardiness Zone: 4 to 9

Height: 6 to 12 feet

Spread: 6 to 15 feet

Scientific Name: Lindera benzoin

the perfect spot or spots that are ideal for this plant. The intention of this article is to introduce you to the shrub and see if anyone is seeing any wilting and/or dieback in existing plants. Several Extension professionals have had reports of wilting and/or dieback and we want to see how widespread (if at all) this phenomenon is. If you have noticed these before, please let us know. The information that we are seeking is included at the end of this article. Enjoy the read and hopefully healthy spicebush too!

Spicebush is a deciduous shrub hardy from zone 4 to 9. Its height can range from 6-12 feet, with a similar spread, usually between 6-15 feet wide. This shrub prefers permanently moist to wet soils and thrives in full shade to part shade. You can observe this plant growing in the understory of many Ohio woodlands in moist to wet sites. With that said, once established, spicebush can adapt to sites on the drier side with more sun. In these scenarios spicebush may grow denser and produce more flowers and fruit. Because of this, spicebush can be incorporated into rain gardens in addition to its favorite spots in the landscape and woodlot.

Pruning is typically not needed, unless you are trying to maintain the shrub within a smaller site. This shrub is one of the first to bloom in the spring. Its twigs, branches and leaves emit a spicy fragrance when scratched or crushed. If plants have reached an unmanageable look and have outgrown their space, they can be cut back to rejuvenate or revitalize.

Spicebush flowers are yellow and appear in late winter to early spring. These blooms result in bright red fruits in late summer to early autumn on female shrubs. They are highly preferred by wildlife and serve as the larval host for the Spicebush Swallowtail (*Papilio troilus*), the Promethea silkmoth (*Callosamia promethea*) and the Eastern Tiger Swallowtail (*Papilio glaucus*).

Many of the references indicate that spicebush has no serious insect or disease problems. This is great news when considering incorporating new plants into the landscape. As with any additions, diversity is always key. We urge you to avoid monocultures, or a planting of all the same plant. While many of our favorite plants can be exciting and something that we may love – it won't provide the same feeling if a pest wipes it out all at once. We don't have to go too far back in our memory to feel that. Does emerald ash borer rekindle some sad and depressing memories of what

a single pest can do to single genus? Lessons learned I hope – avoid monocultures!

Back to the pest problems. While no one lists any serious problems, we have recently had a couple phone calls from different parts of the state describing what sounds like the same situation. While some texts state that occasional tip dieback on spicebush is common, these phone calls describe a more concentrated

wilting and dieback. The sites appear to fit the needs of the plants, and spicebush had been present for quite some time. Callers described some of the plants wilting, not as vigorous and having some dieback. While we don't want to cause alarm, we do want to see what everyone is seeing







Spicebush images: Flower – Fruit – Kathy Smith, OSU Extension Leaves – Ansel Oommen, Bugwood.org

across the state. If you could be so kind to look at existing stands of spicebush and let us know what you are seeing, we would appreciate all input. Email messages and photos are encouraged. Included in your feet on the ground and eyes on the shrub report, we would like to know the age of the plants (if you know that), overall health, and a description of the site –soil conditions, exposure to sun or

shade, and moisture levels, city and county location, and your name. We thank you in advanced and will be sharing any feedback that we receive.

Reports can be made by emailing stone.91@osu.edu or calling 419-578-6783. Please leave a message if there is no one available.

Calendar of Events				
September 15	Fascinating Woodland Fungi	OSU Mansfield		
September 19-21	Farm Science Review	London, OH		
October 14	Capturing Nature's Wonders	OSU Mansfield		
October 18	Forest Health: Invasive Species	Medina County		



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woodlandstewards.osu.edu Kathy L. Smith Program Director - Forestry Ohio Woodland Stewards Program Coordinator

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