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A Hardwood Market Report Publication

Covering the Hardwood Industry from Woods to Finished Goods.



A Hardwood Market Report Publication

Comprehensive coverage of the temperate and tropical hardwood market.



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VOLUME XCIV. NUMBER 41 HMR® October 7, 2016 **Crosstie Production and Inventory** Twelve Month Moving Average (Thousand Ties) 2,500 Production 16,000 Source: Railway Tie Association Graph: Hardwood Market Repor A2014 S O N D J F M A M J JA2015 S O N D J F M A M J JA2016

- > Sales of new homes dropped 7.6% in August from July to 609,000 units but increased 20.6% above the previous year. The median price for new single family houses was \$284,000, down 3.1% from the previous month and 5.4% from August 2015.
- > Inventories of new single family homes rose 1.7% in August over July and were 8.3% higher than prior year. At the August rate of sales, there were 4.6 months of supply.
- > Total existing home sales fell 0.9% in August from July to 5,330,000 units but edged up 0.8% from one year earlier. The median price in August was \$240,200, a 5.1% gain over August 2015. Total inventories slipped 3.3% for the month and decreased 10.1% from August 2015. Existing single family home sales declined 2.3% for the month.

July and August 30 year fixed mortgage rates were the lowest since at least 1971 at 3.44%.

Canada's CPI declined 0.2% in August from July but was 1.1% higher than the prior year.

Retails sales in Canada slipped 0.1% in July compared to June.

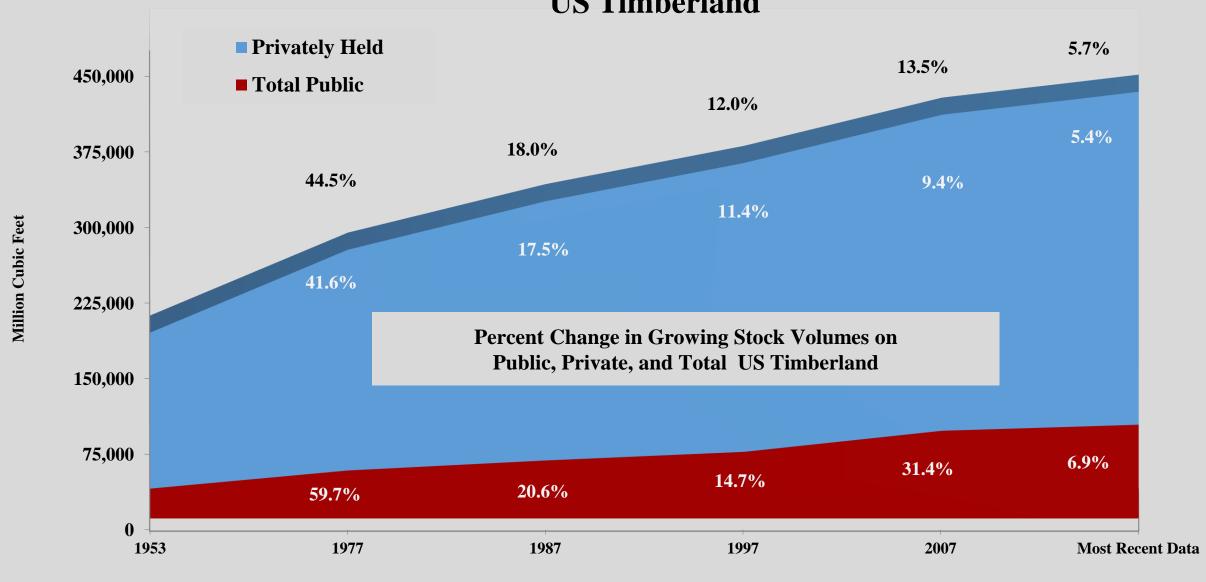
Canada's manufacturing sales climbed 0.1% in July from August but were 2.6% lower than the previous year. Inventories increased 1.0% for the month but declined 2.1% from July 2015.



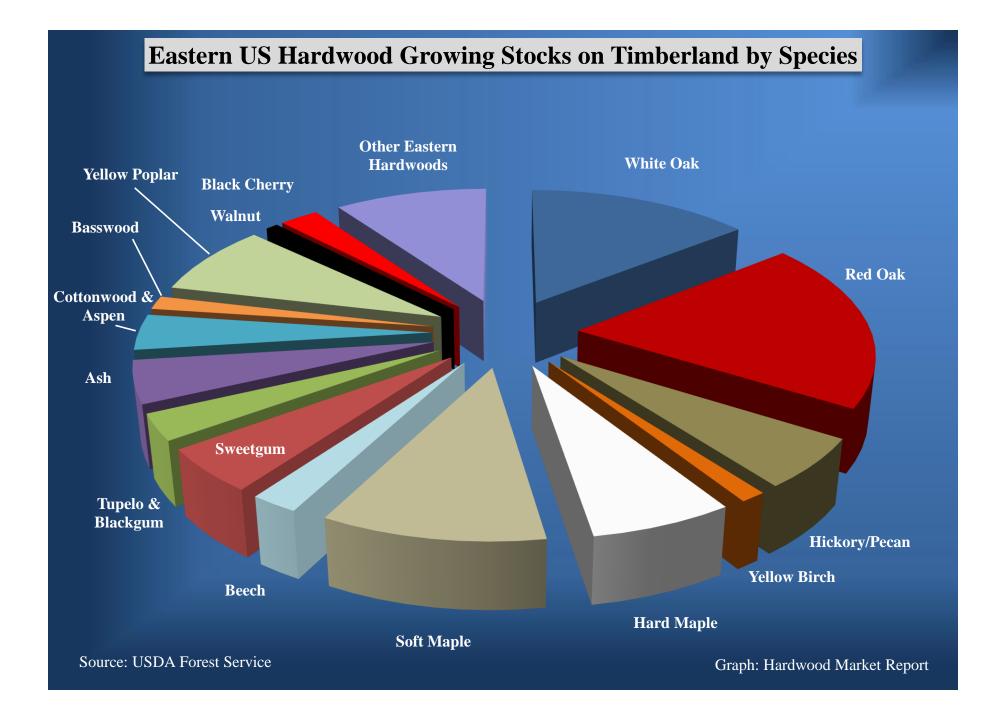
94 YEARS AUTHORITATIVE HARDWOOD MARKET REPORTING

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Source: USDA Forest Service Graph: Hardwood Market Report

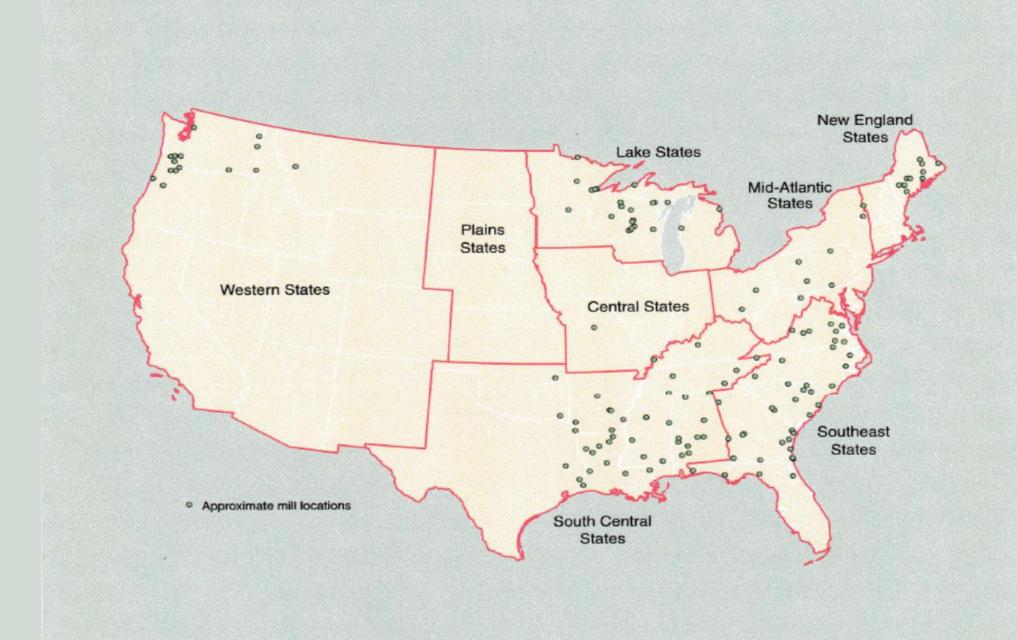


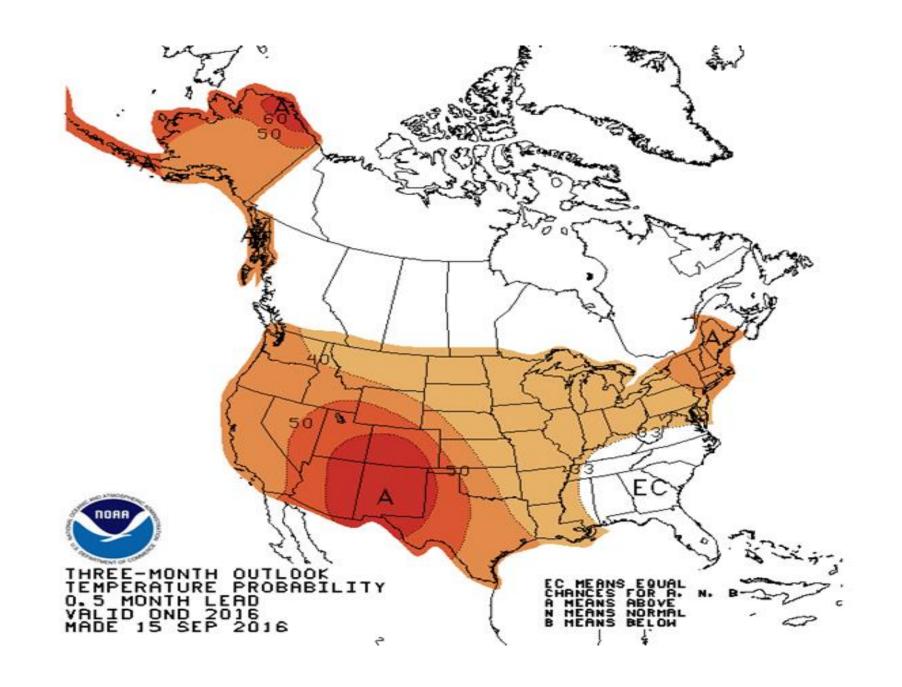
US HARDWOOD LUMBER PRODUCTION GRID

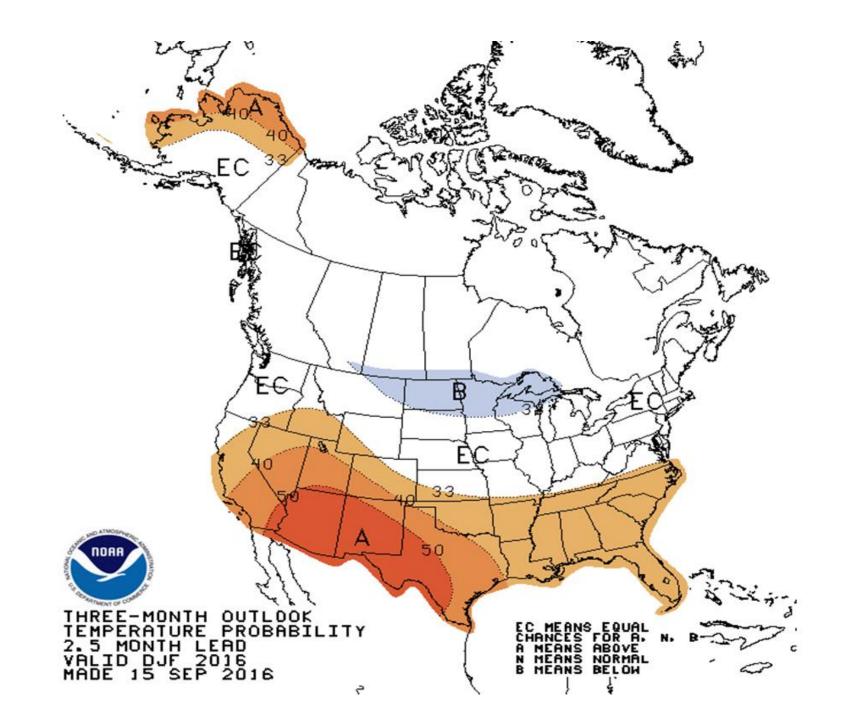
- Complex
- Influenced by anything that can materially
 - 1.Affect access to timber and logs
 - 2.Disrupt the manufacturing process
 - 3. Enhance the manufacturing process

Market Driven Supply

- 1. Hardwood lumber supplies are determined by business health for sawmills.
- 2. Business health for sawmills is determined by performance of all major market sectors for sawn hardwood products.
- 3. Performance by the major market sectors for sawn hardwood products is influenced by
 - a. Economy
 - b. US housing
 - c. Exports

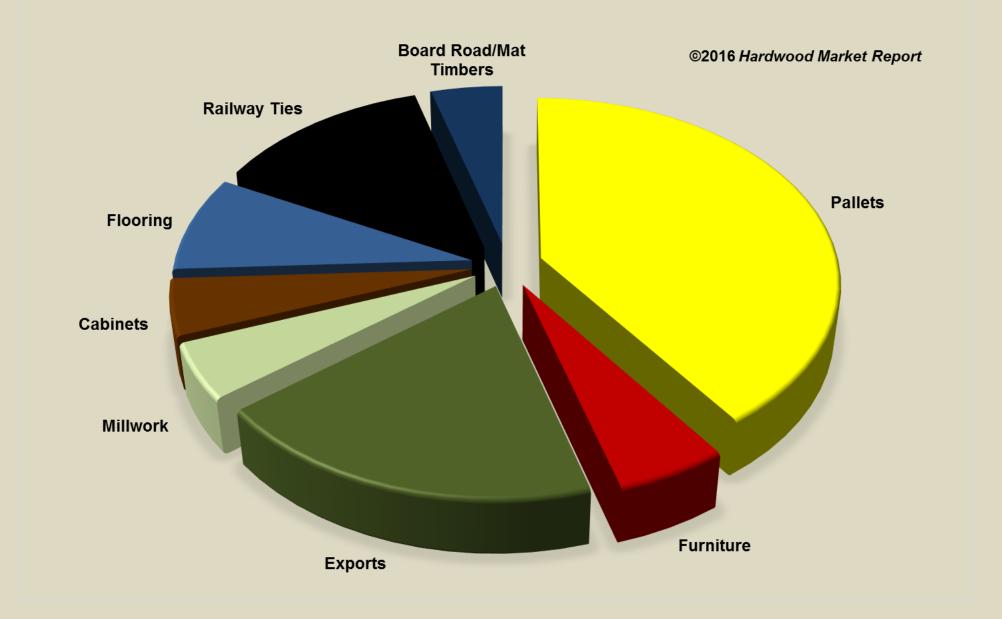


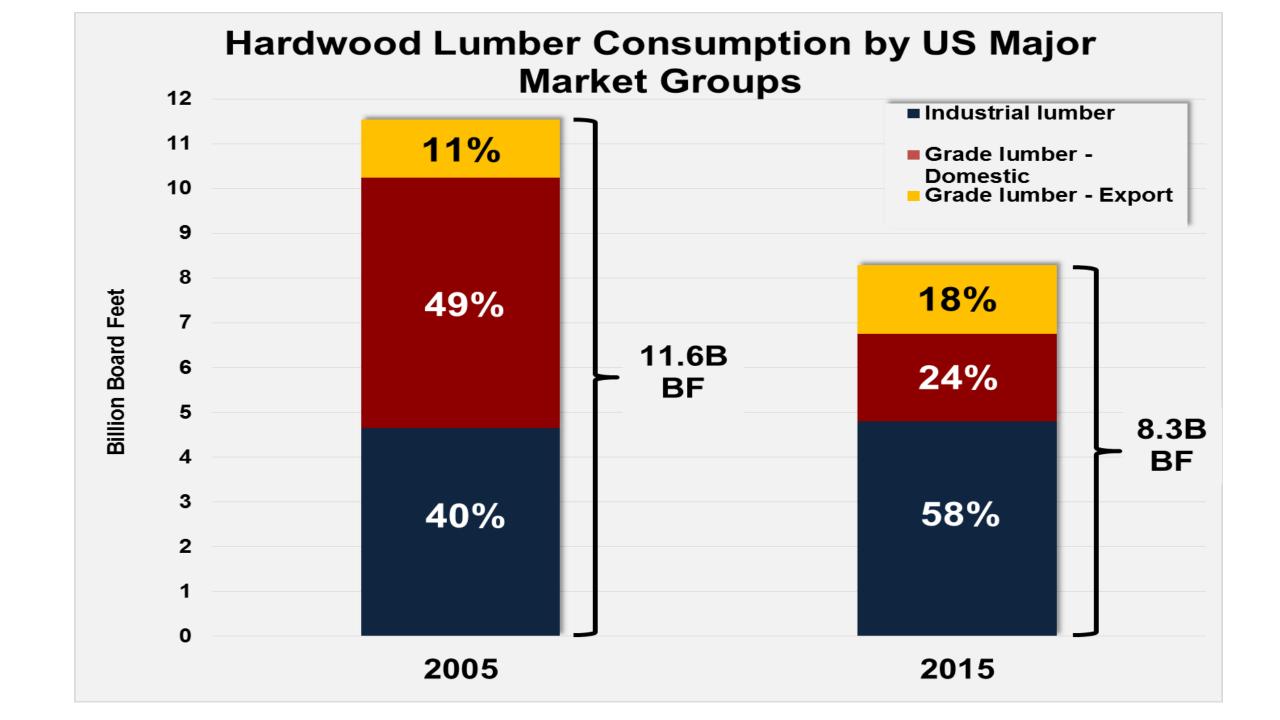




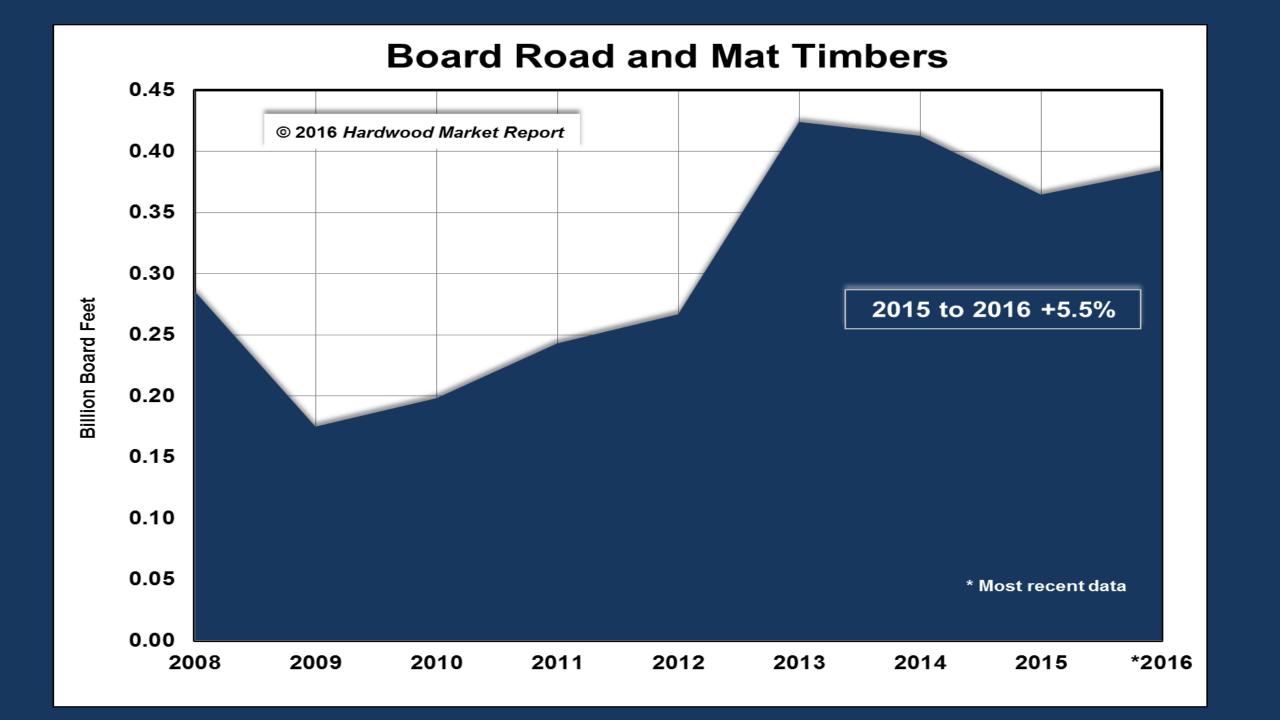
Seasonal Temperature (T2m) Anomalies valid for month: January 2017 based on ECMWF Seasonal Forecast System (S4) initiated on 01 October 2016 Estimated deviation (anomaly) of the mean from model climate in Celsius degrees -6.00 -5.00 -4.00 -3.00 -2.00 -1.50 -1.00 -0.50 -0.25 2.00 3.00 4.00 5.00 6.00 0.25 1.00 1.50 40°E

US MAJOR MARKET SECTORS FOR HARDWOOD LUMBER

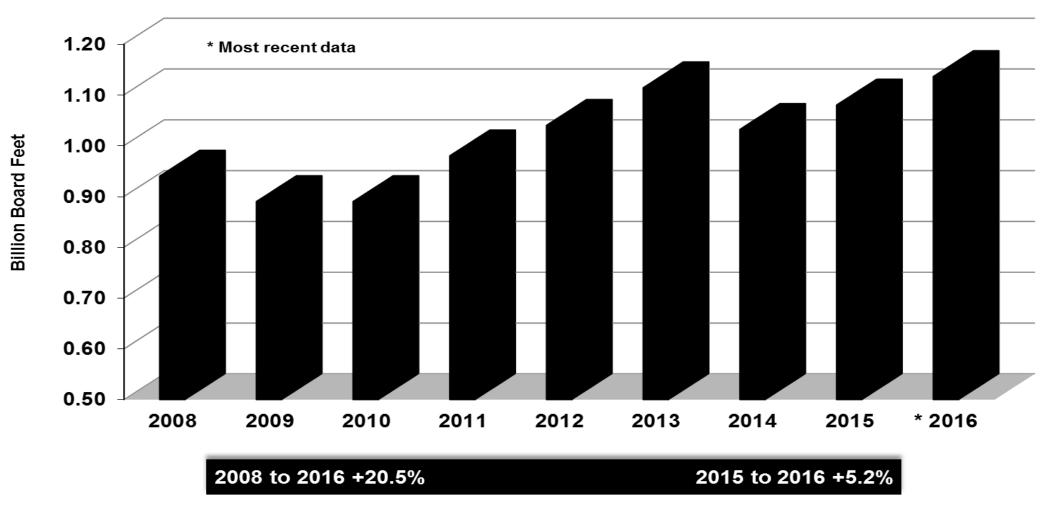




US GDP Percent Change from the Previous Period 3 2.6 2.5 2.4 2.2 2.0 2 1.7 1.6 1.1 1.0 0.9 8.0 1 0 -1 -2 -3 **Source: US Department of Commerce** -3.1 **Graph: Hardwood Market Report** -4 2009 2012 2013 * 2016 2015 3Q 2015 4Q 2016 1Q 2016 2Q 2010 2011 2014 2015



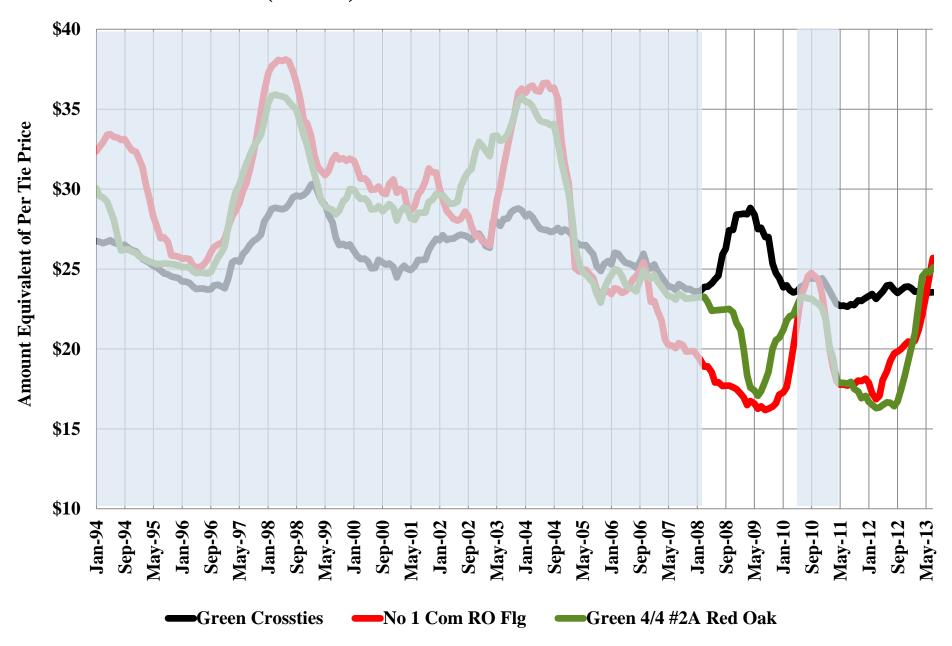
Ties

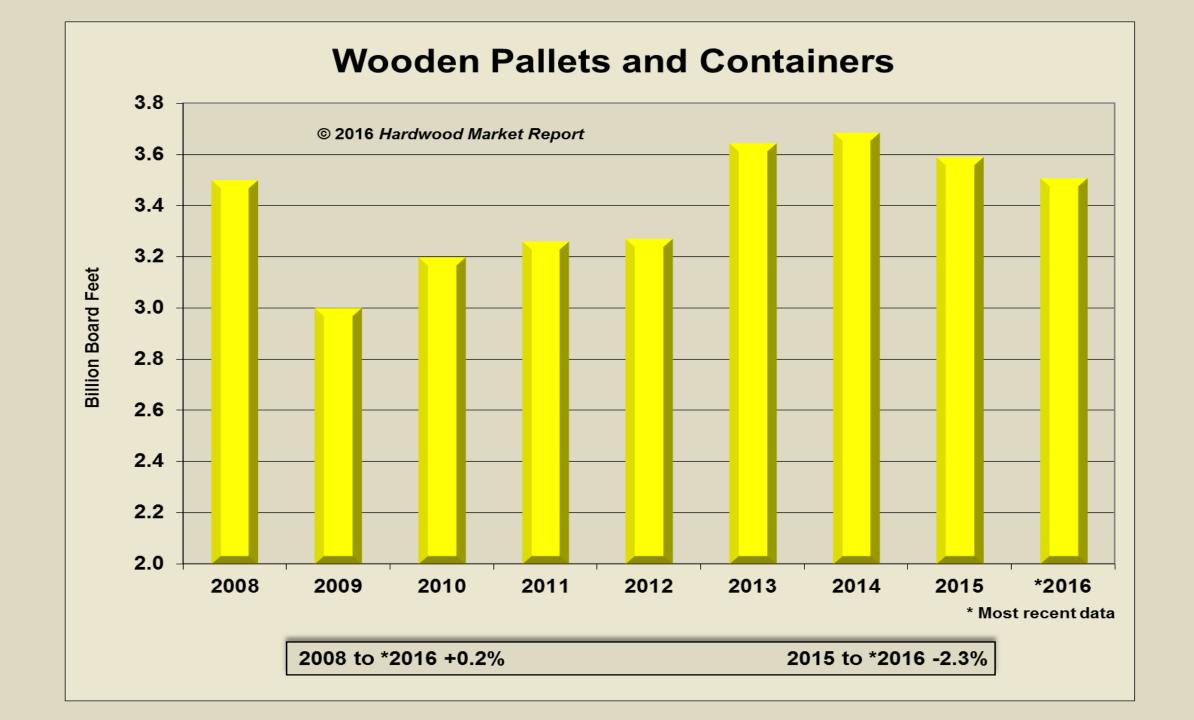


Source: Railway Tie Association

Graph: Hardwood Market Report

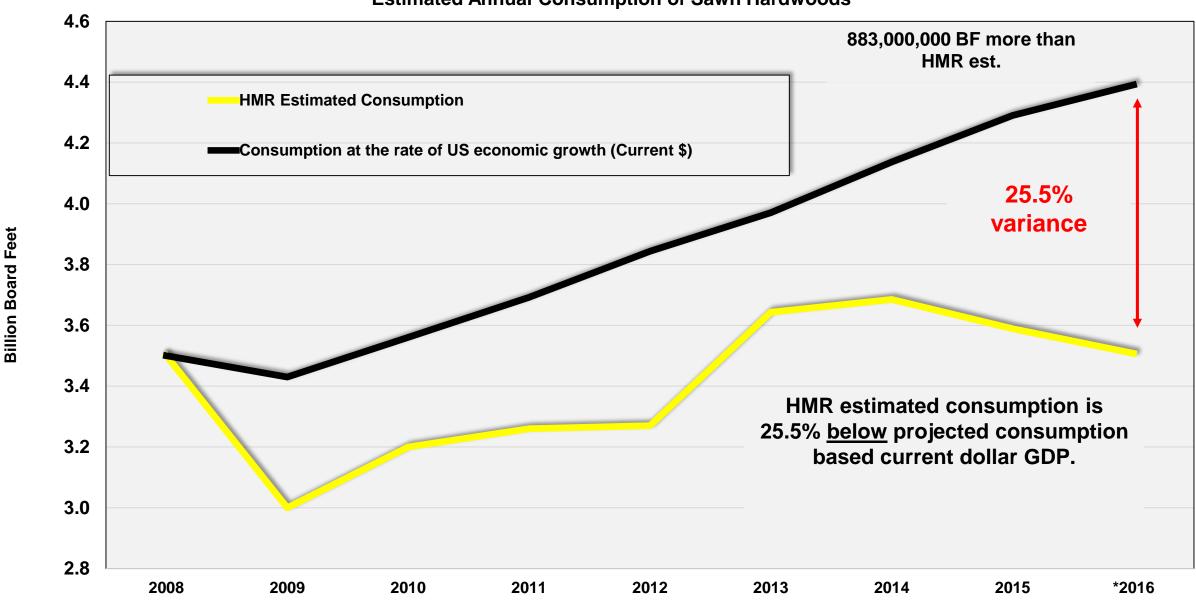
Real (2013) Prices of Wood Products

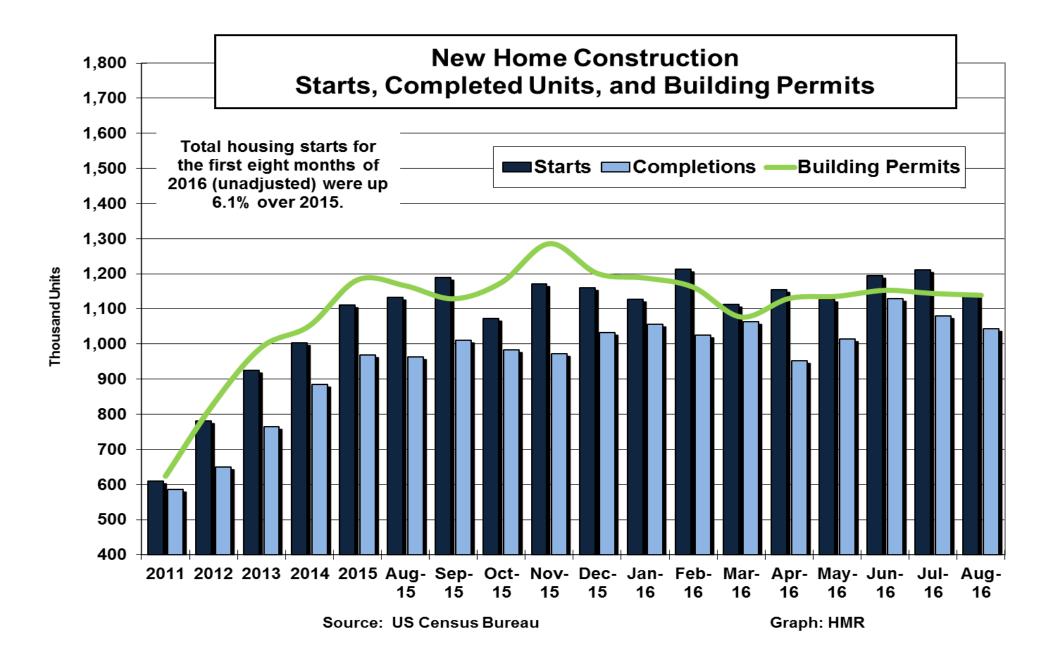




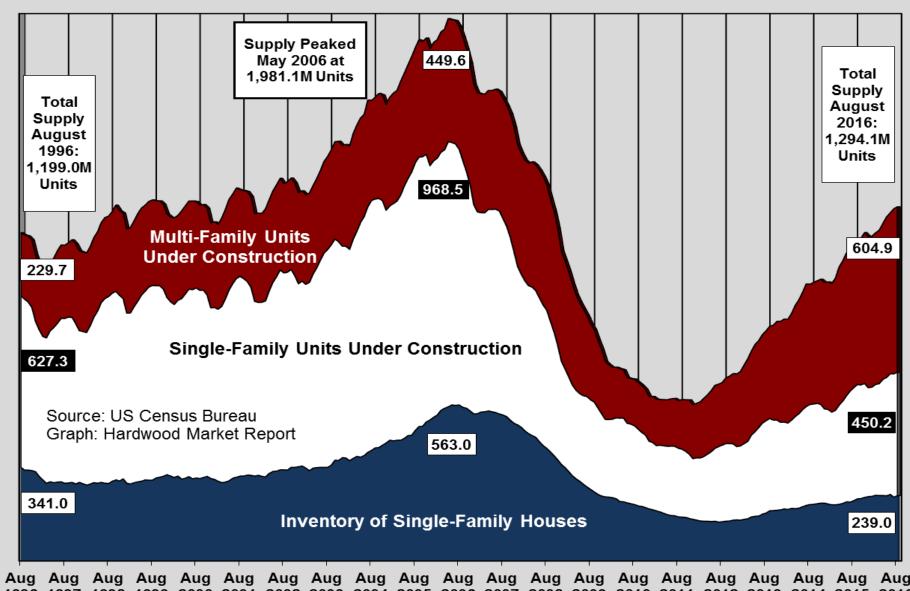
US Wooden Packaging and Container Industry

Estimated Annual Consumption of Sawn Hardwoods



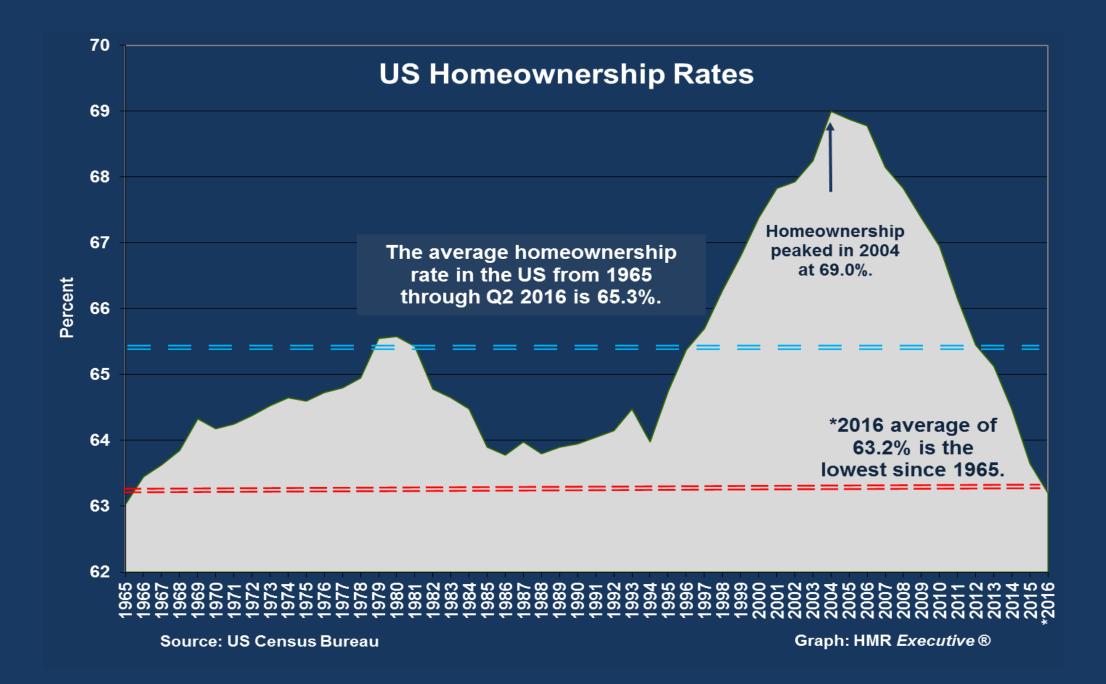


US New Home Supply Pipeline



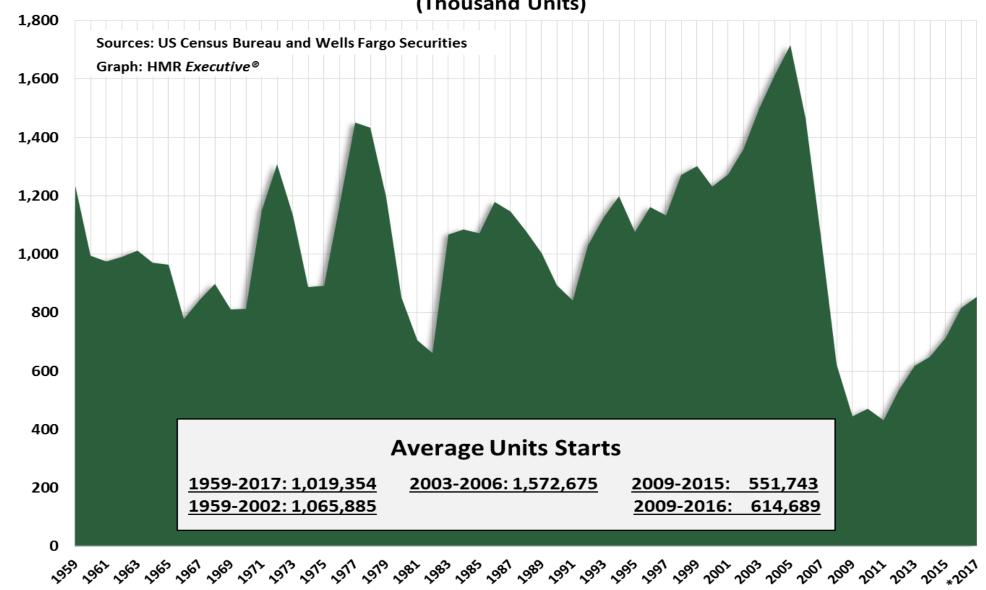
Thousand Units

1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016

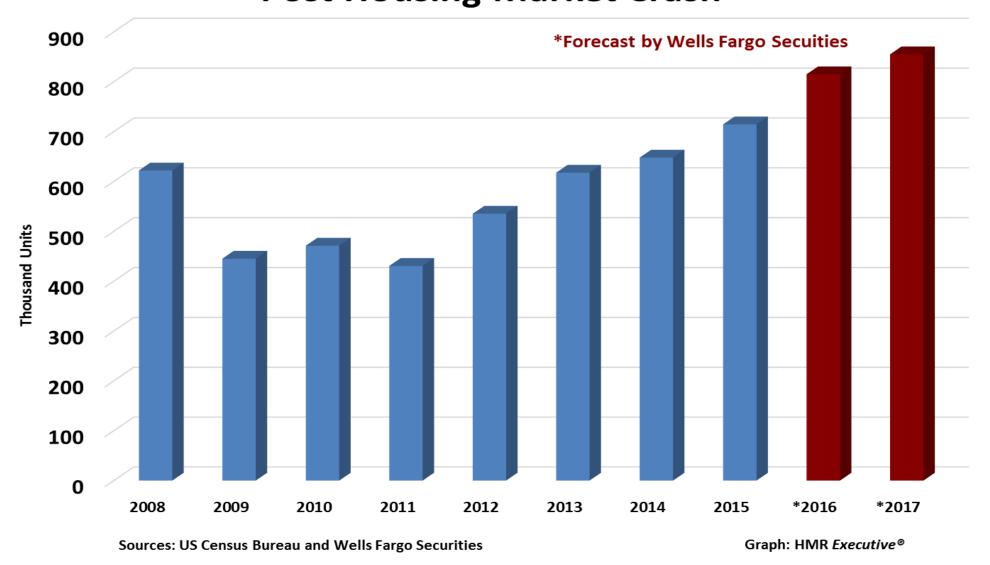


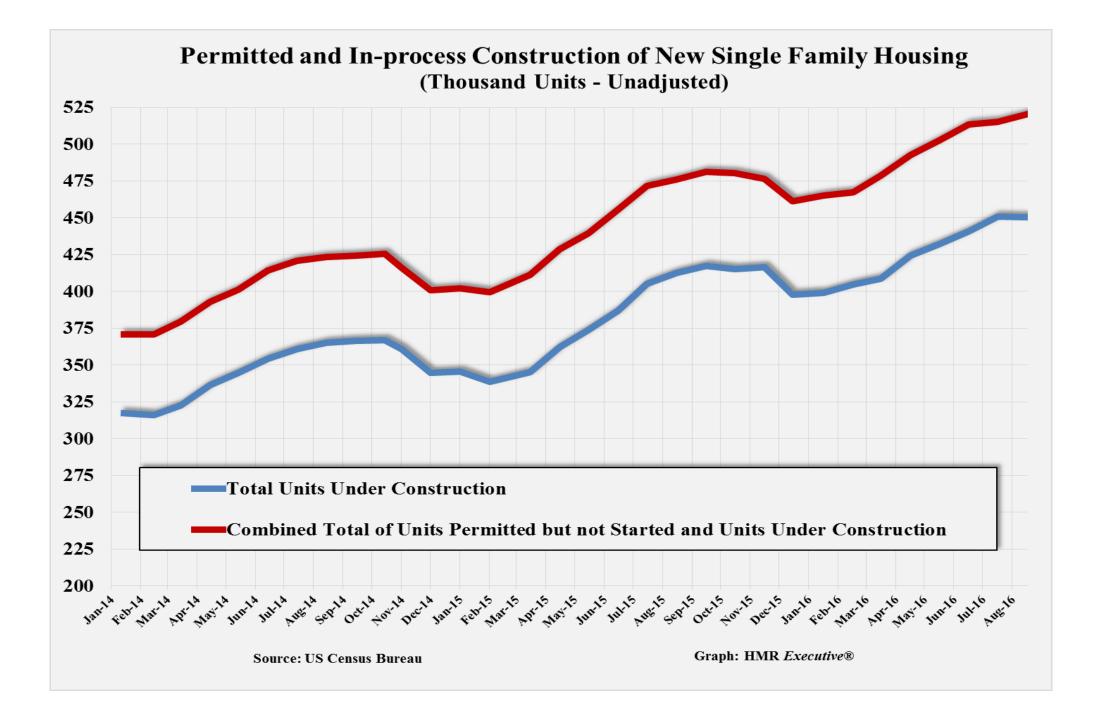
Single Family Housing Starts

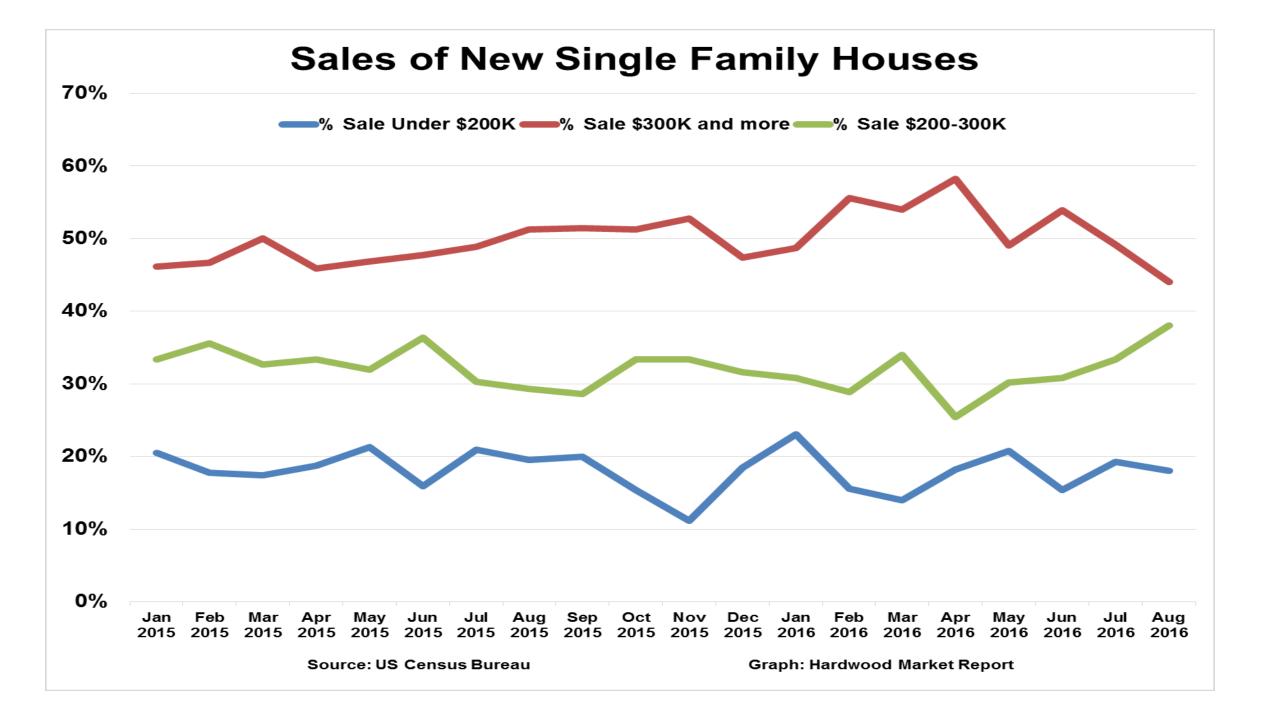




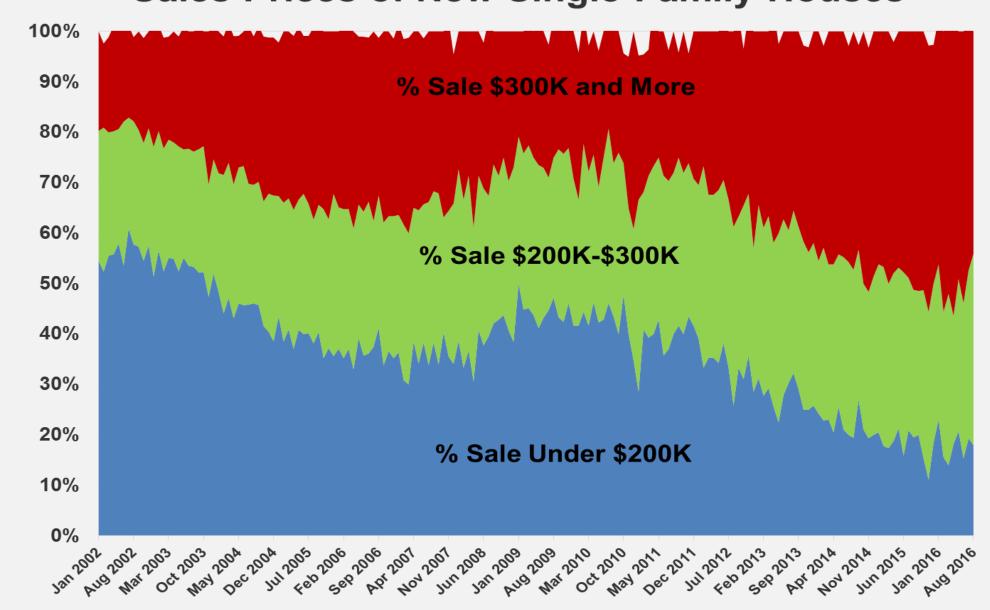
Single Family Housing Starts Post Housing Market Crash

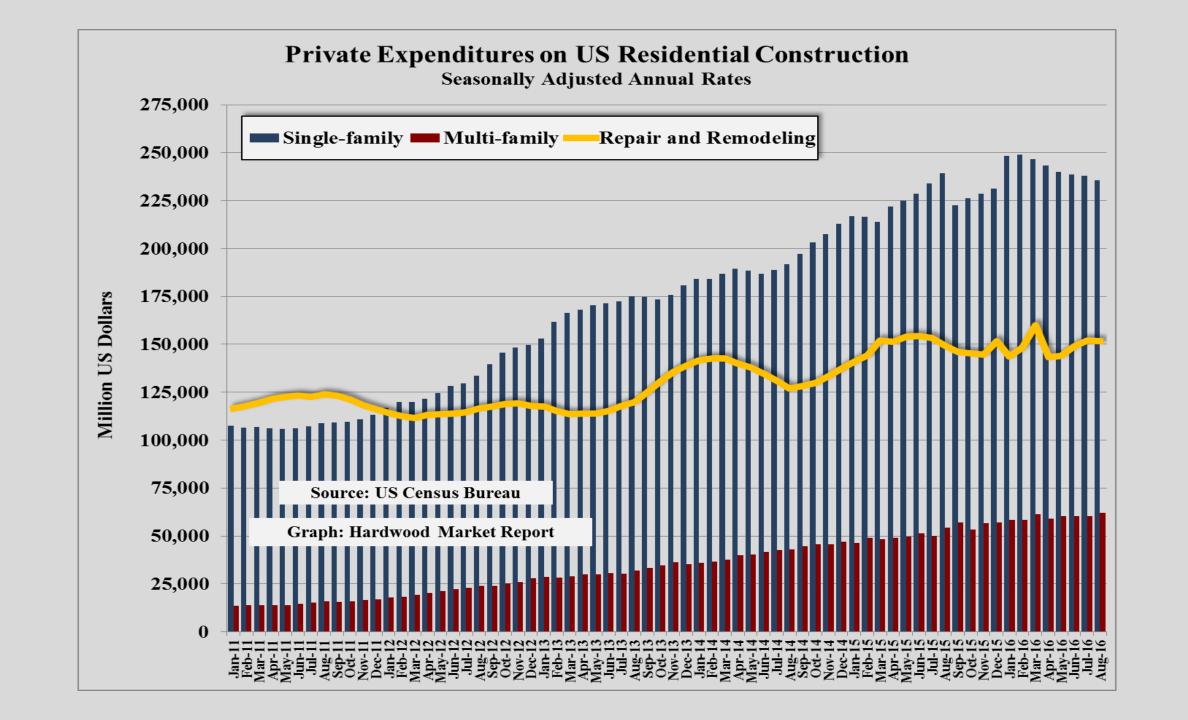




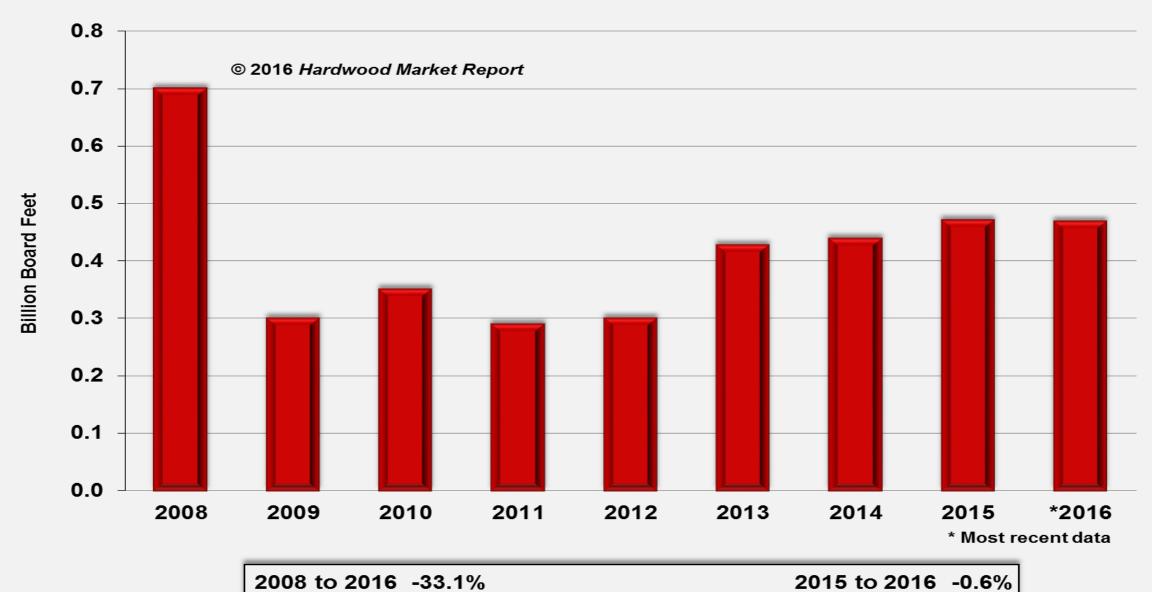


Sales Prices of New Single-Family Houses

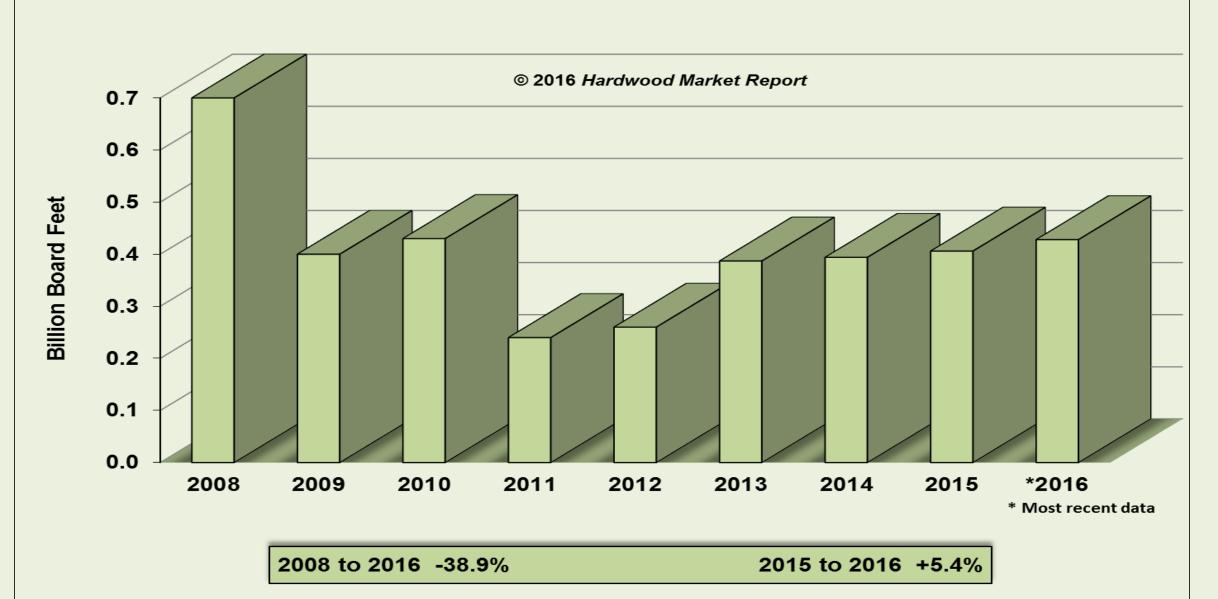




Furniture



Moulding and Millwork



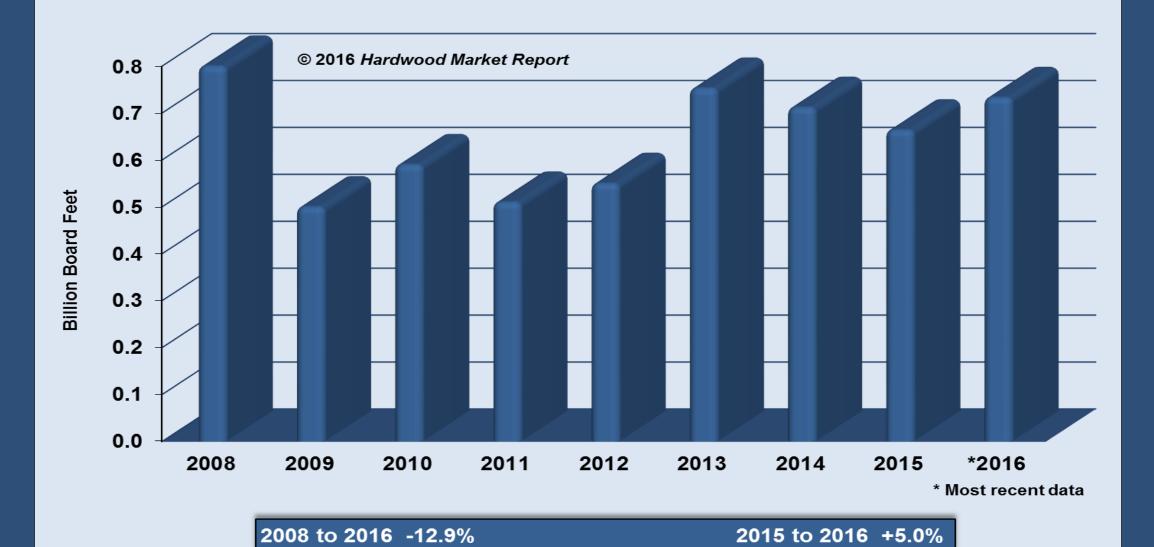
Cabinets

(Billion Board Feet)

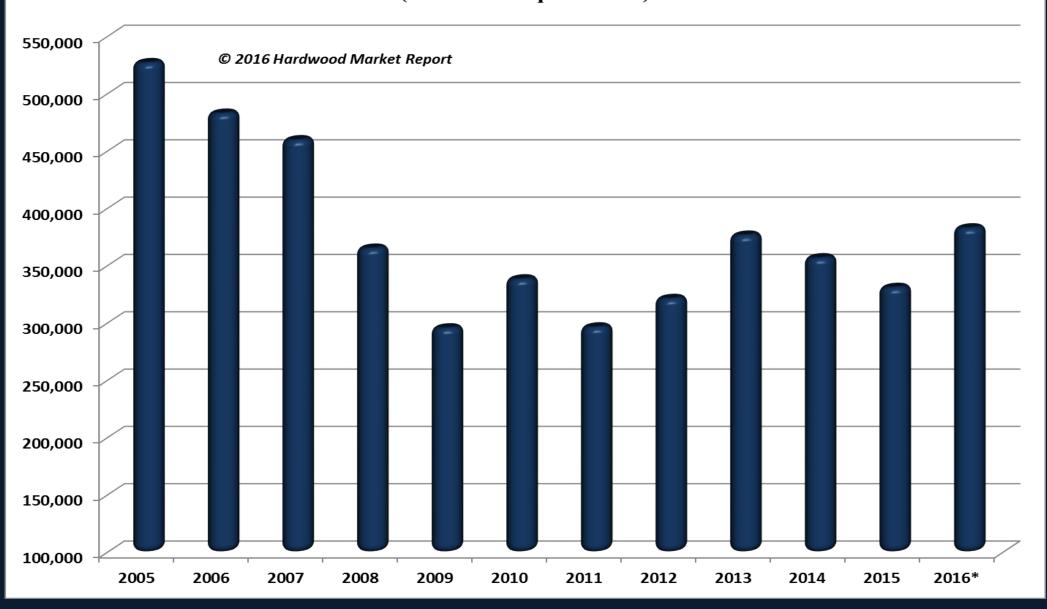
* Most recent data



Flooring



US Manufacturers' Shipments of Solid Wood Flooring (Thousand Square Feet)



2016 (annualized) Compared to 2011

US single-family housing starts increased 81%

US single-family housing completions increased 66%

US manufacturers' shipments of solid wood flooring increased 29%

Year to Date 2016 Vs. 2015

US single-family housing starts increased 9.1%

US single-family housing completions increased 14.3%

US manufacturers' shipments of solid wood flooring increased 14.4%

Year to Date 2016 Vs. 2015

US single-family housing starts increased 9.1%

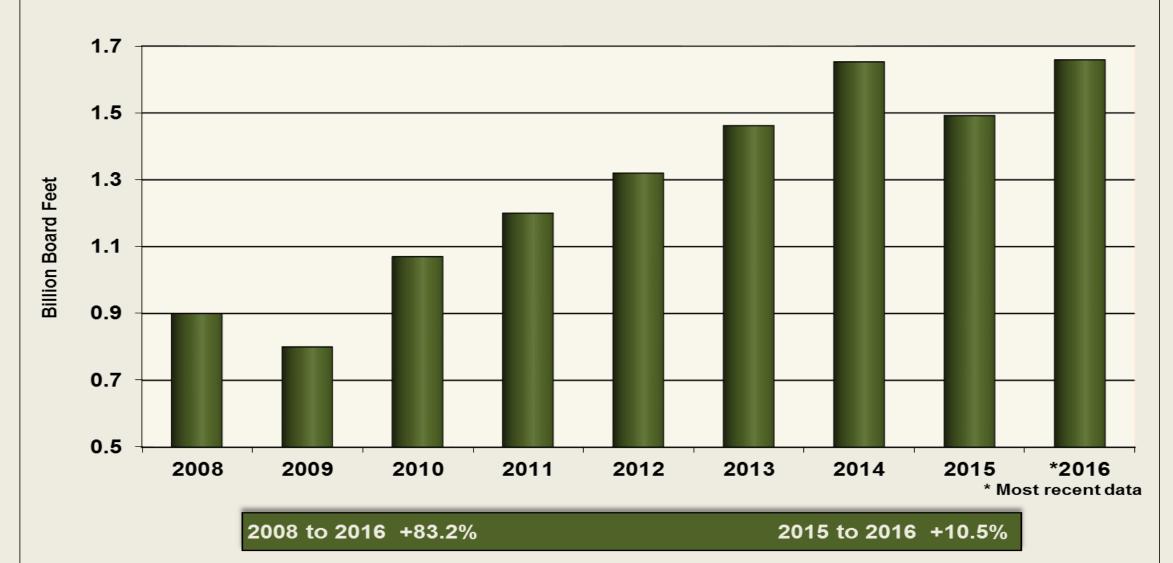
US single-family housing completions increased 14.3%

The volume of grade hardwood lumber consumed by the US domestic marketplace increased <u>5.5%</u>

Grade Hardwood Lumber Consumed by US Domestic Markets Compared to Single-family Housing Starts:

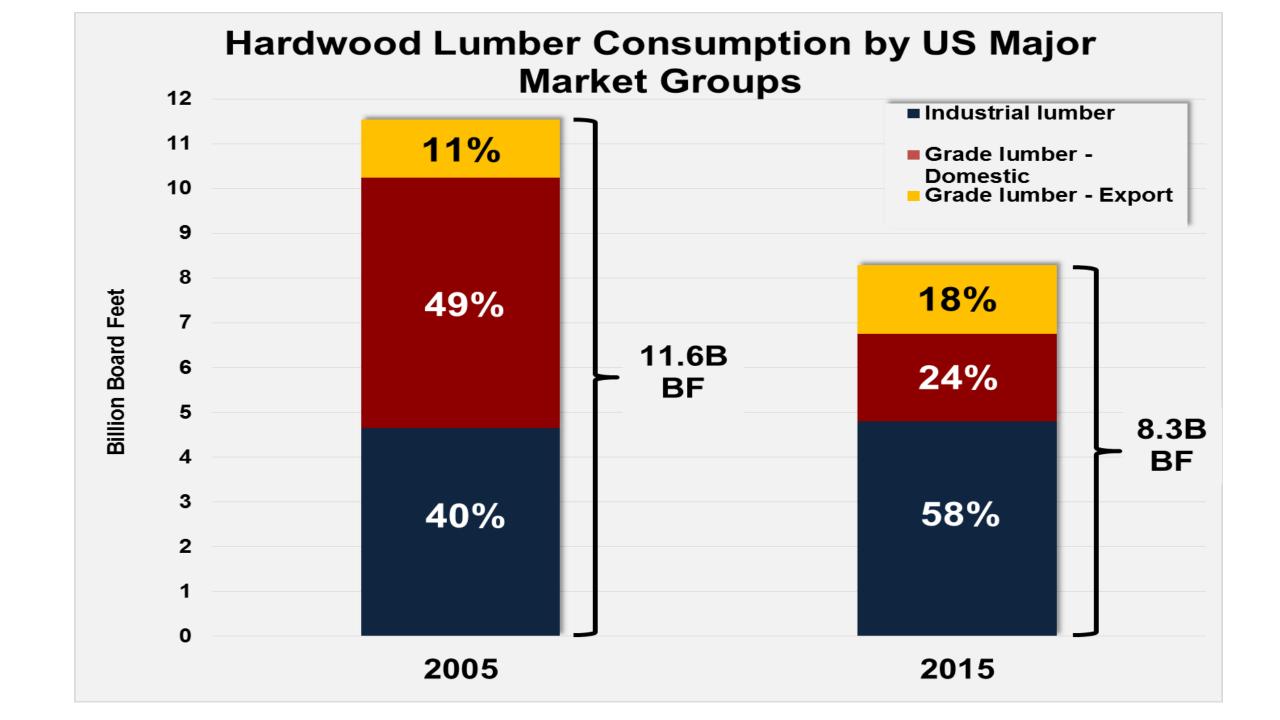
	Percent Chg.	Percent Chg.
Market Sector	2016 Vs. 2011	2016 Vs. 2015
Furniture	-12%	+1%
Moulding & Millwork	-3%	-5%
Cabinet	-31%	-6%
Flooring	-22%	-1%
Combined	-19%	-5%



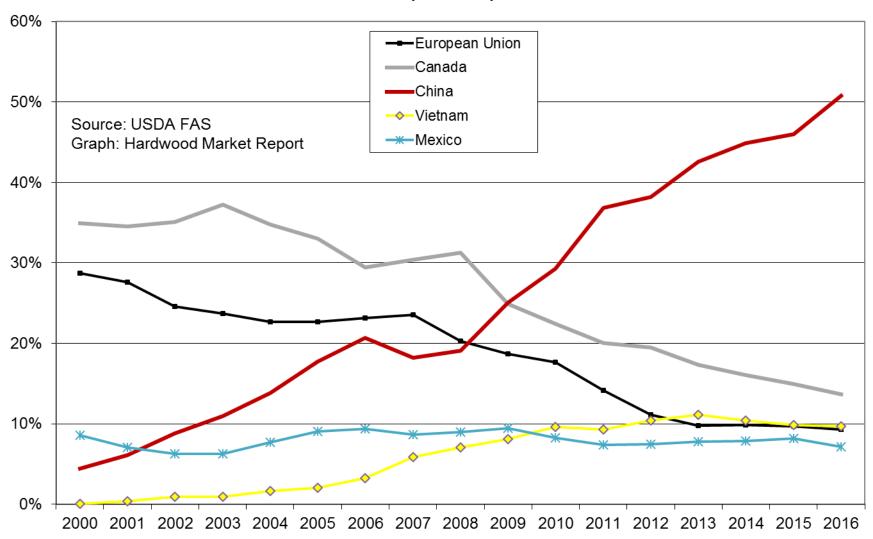


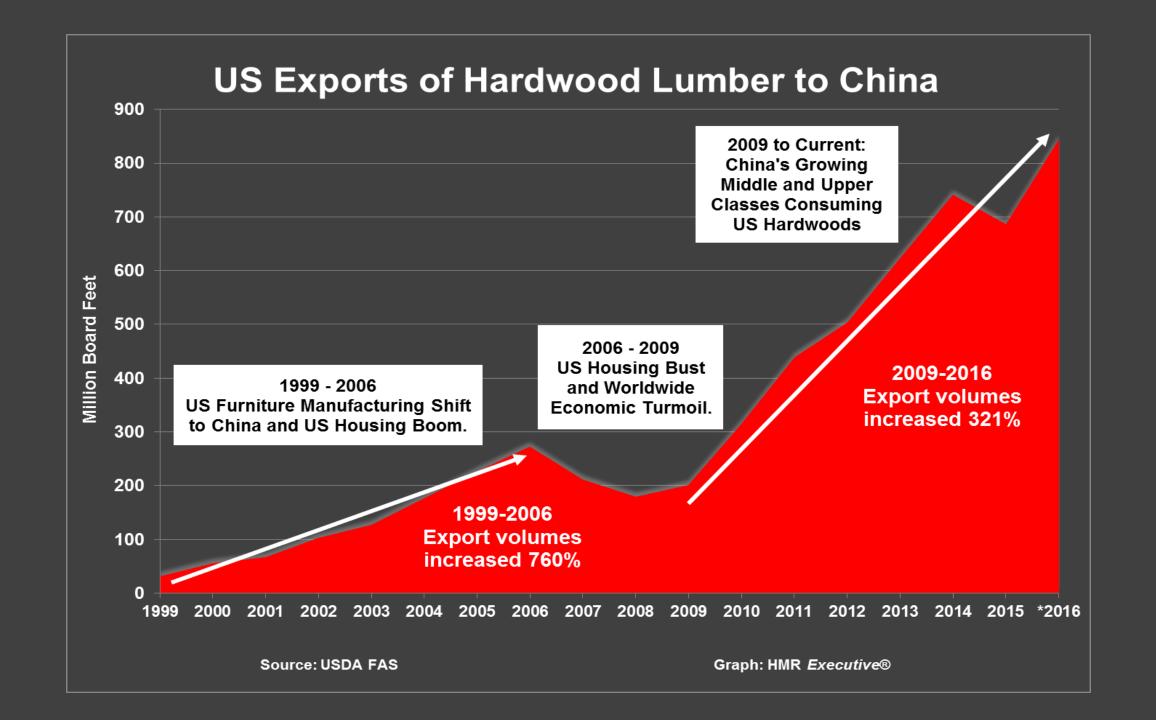
Source: USDA FAS

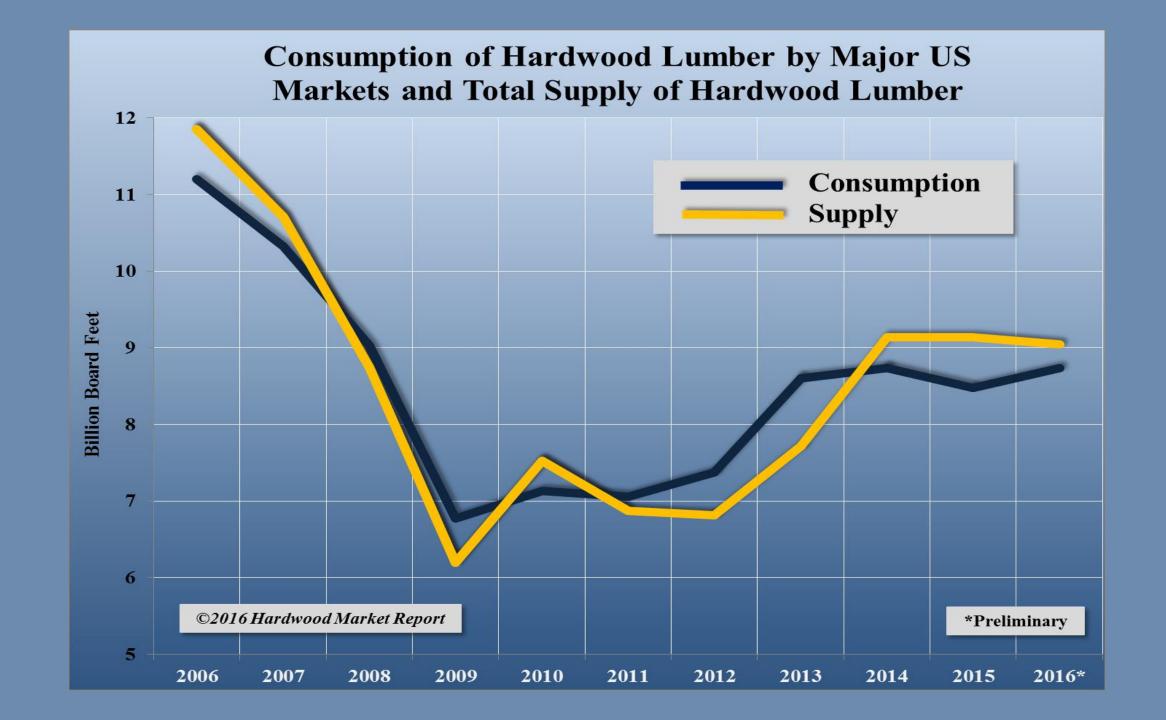
Graph: Hardwood Market Report

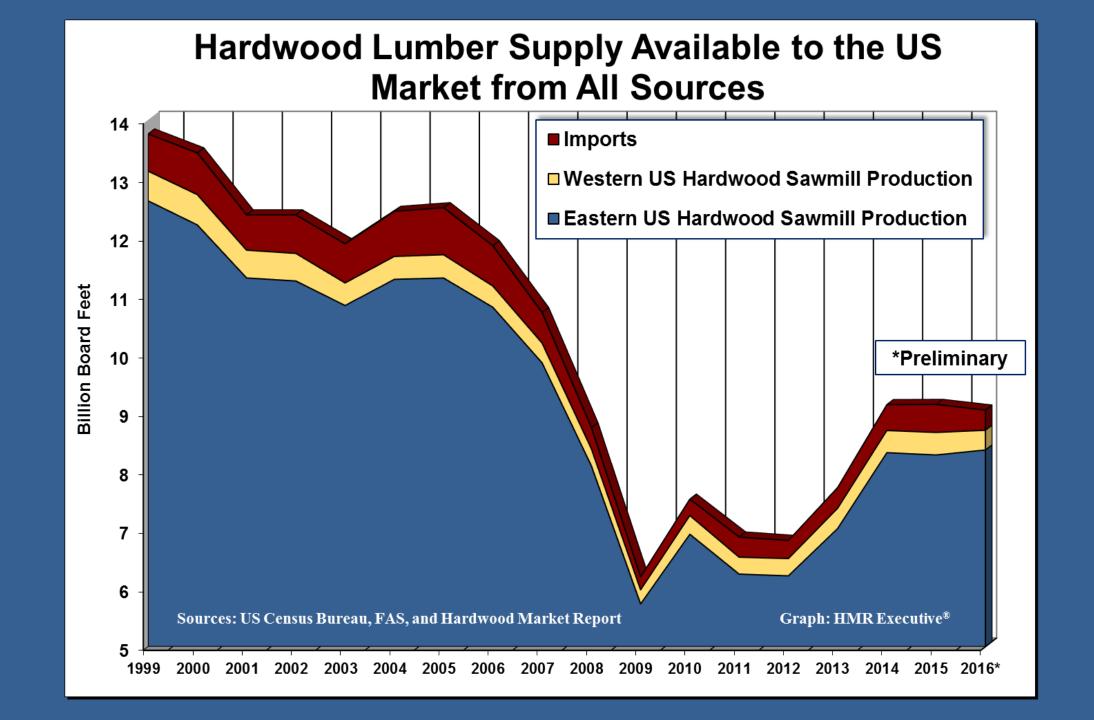


Percentage of Total US Hardwood Lumber Exports (Volume)

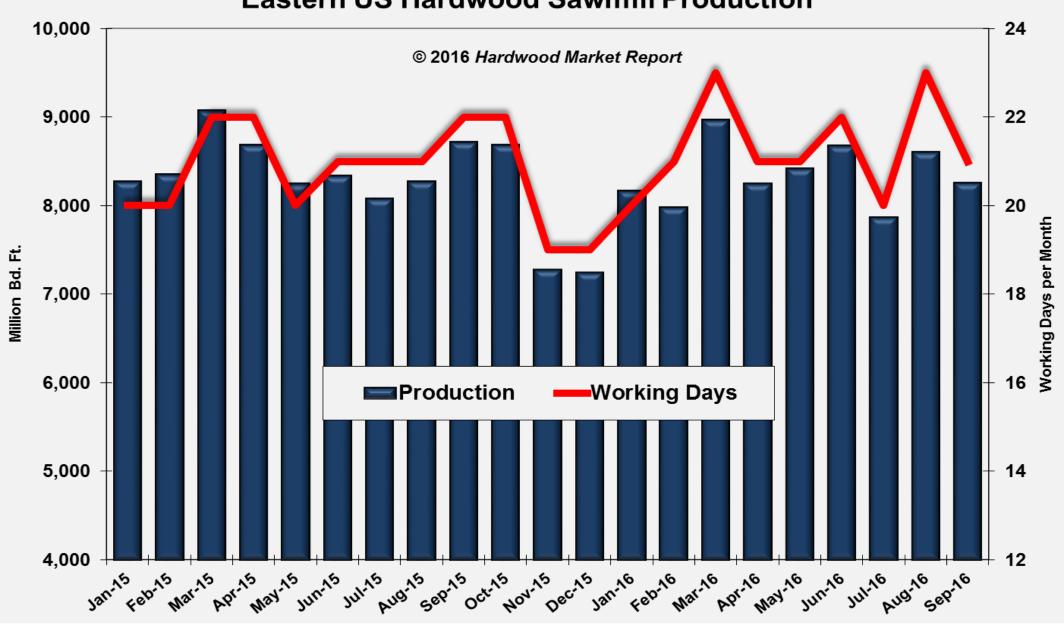








Estimated Annual Rates of Eastern US Hardwood Sawmill Production

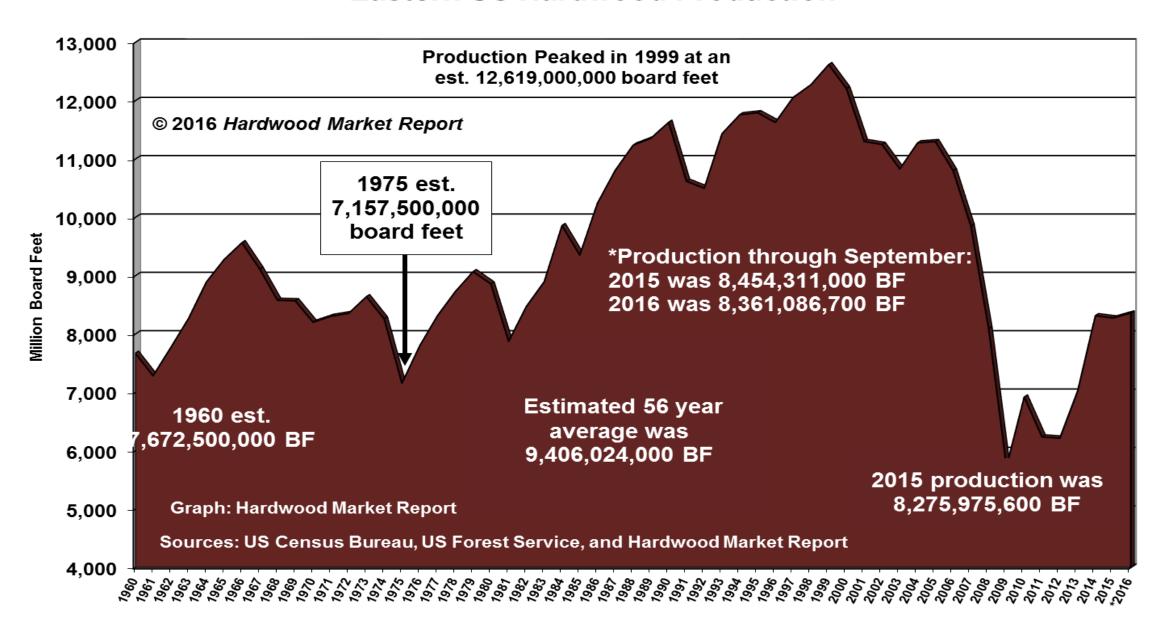


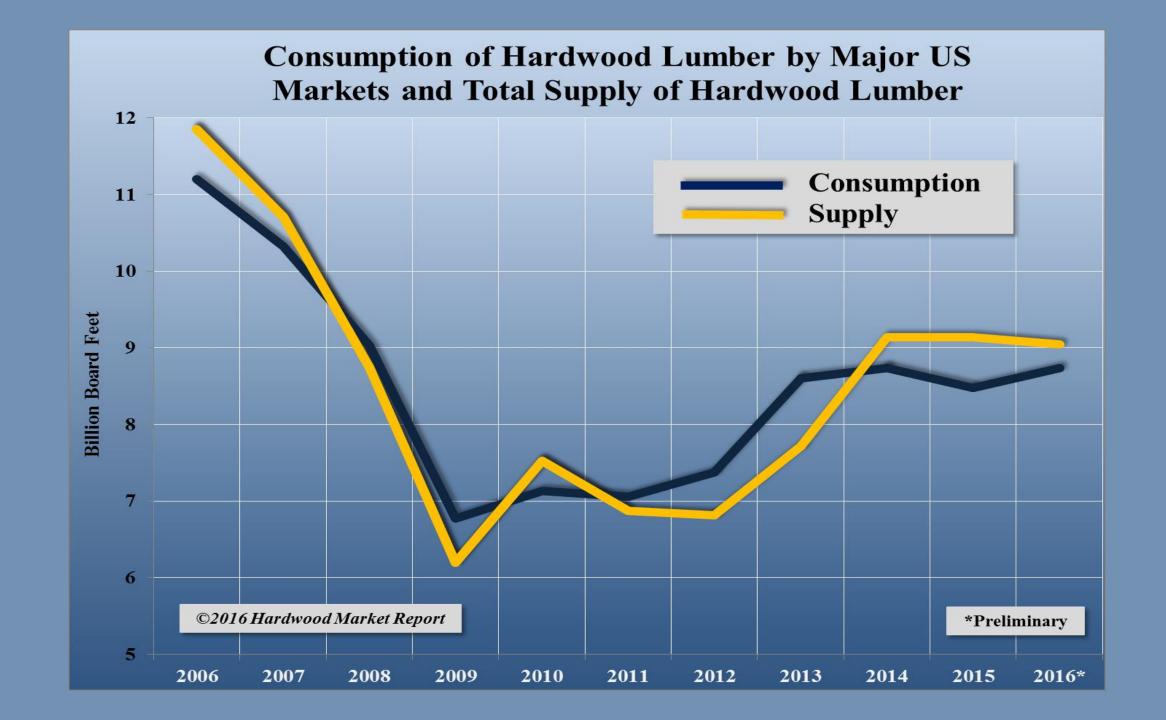
Eastern US Hardwood Sawmill Production

Most Recent Data Annualized



Eastern US Hardwood Production





"Neither a wise man nor a brave man lies down on the tracks of history to wait for the train of the future to run over him." ~ Dwight David Eisenhower

Thank You Hardwood Market Report

780 Ridge Lake Blvd., Ste 102 Memphis, TN 38120 USA

Judd Johnson

Email: judd@hmr.com

Voice: (901)767-9126 ~ Fax: (901)767-7534