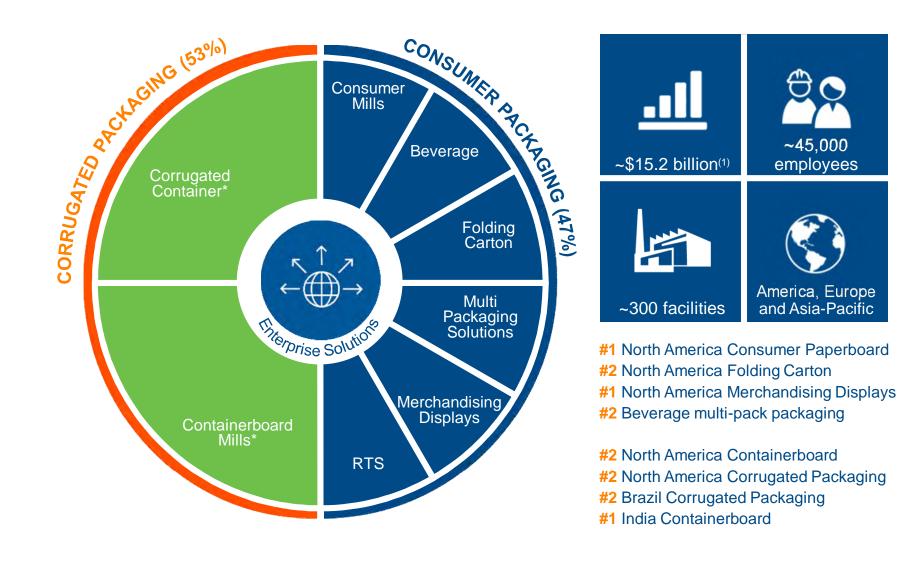


Virginia Loggers Association 15th Annual Meeting August 19, 2017

Kirby Funderburke, Operations Director Eastern Division



WestRock Paper and Packaging





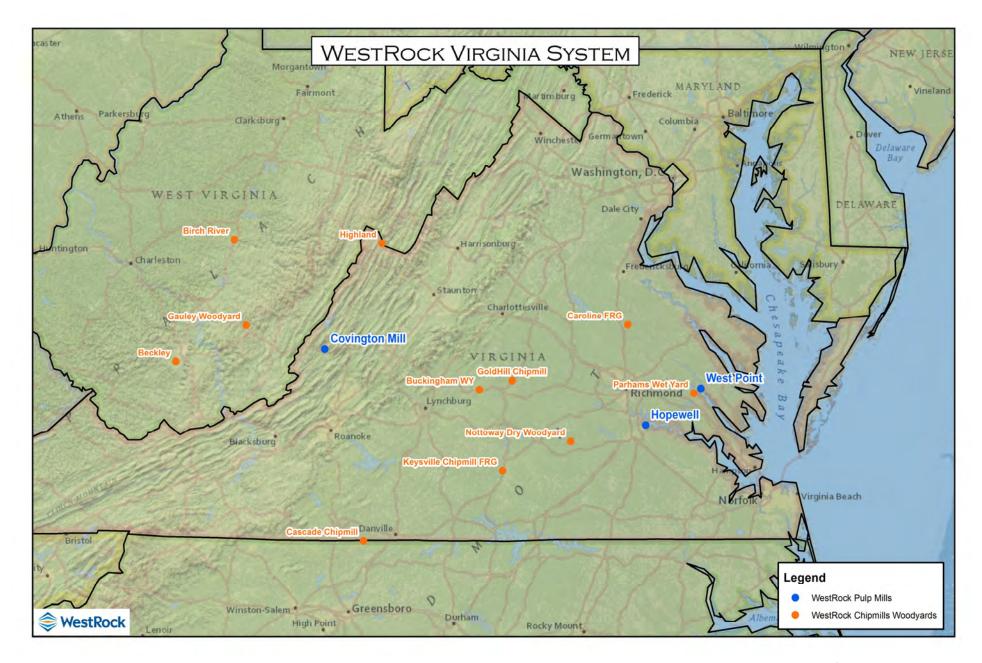
Our global operating platform supports local economies



- 115 Corrugated Container
- 61 Folding Carton
- 27 Corrugated and Consumer Mills
- 23 Merchandising Displays
- 22 Recycling
- 15 Packaging partition (RTS)
- 14 Labels

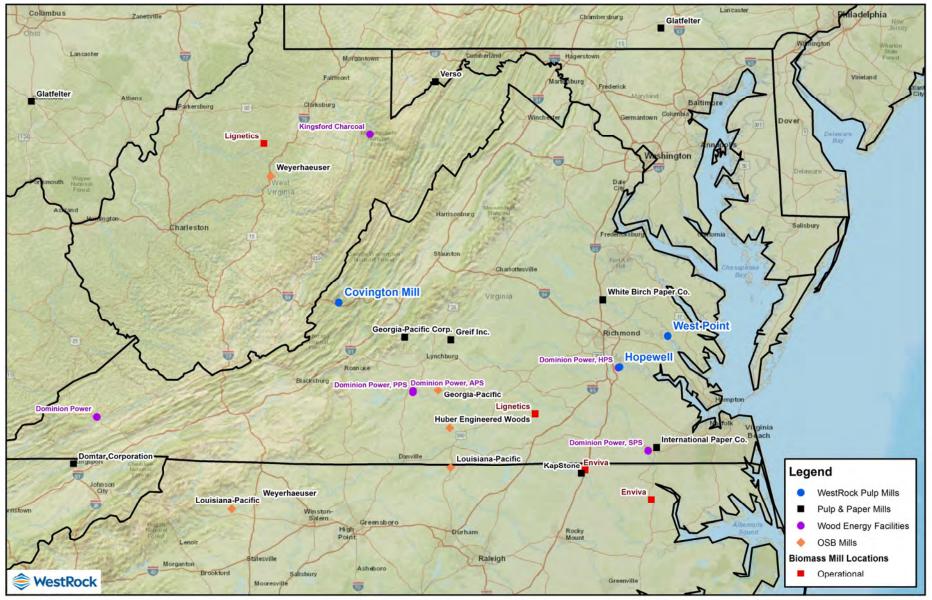
- 13 Literature
- 4 Sheeting + Extrusion
- 3 Packaging machinery
- 3 Transaction cards
- 2 Tubes
- 1 Rigid packaging







Pulpwood and Paper-Quality Chip Consumers







Report: Sustainability to drive global paper packaging growth

ARTICLE TOOLS

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Posted by Anne Marie Mohan August 13, 2015
Filed in: Boxes, Folding cartons, Liquid cartons, Protective packaging, Trays, Renewable resources

Bans on the use of lightweight plastic bags and a rising awareness of ecological issues around the world are expected to boost the demand for paper packaging materials.



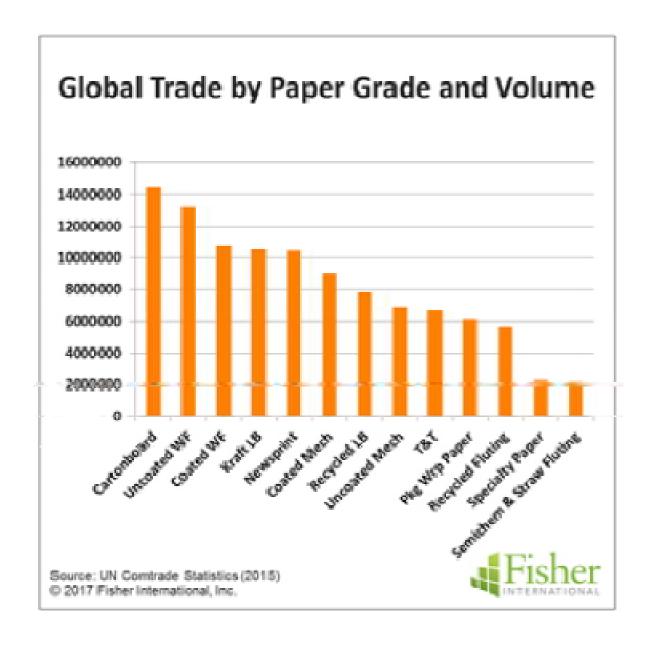
In 2012, the global market for paper packaging stood at US\$254.80 billion and is growing at a 4.4% CAGR from 2013 to 2019. The value is estimated to reach US\$344.43 billion by 2019. In 2012, the overall demand for paper packaging stood at 181.48 billion tons (in terms of volume). That's according to a new research report, "Paper Packaging Materials Market - Global Industry Analysis, Size, Share, Growth, Trends and Forecast, 2013 - 2019," from Transparency Market Research.

Notes the report, paper is the largest material type in the packaging market. Bans on the use of lightweight plastic bags and a rising awareness of ecological issues around the world are expected to boost the demand for paper packaging materials. Critical factors such as volatility in raw material prices, energy costs, and global

economic slowdown have had an enormous impact on the global packaging market in the past few years. To overcome this, more companies have been aiming to develop sustainable and eco-friendly packaging materials, which can be recycled and reused.

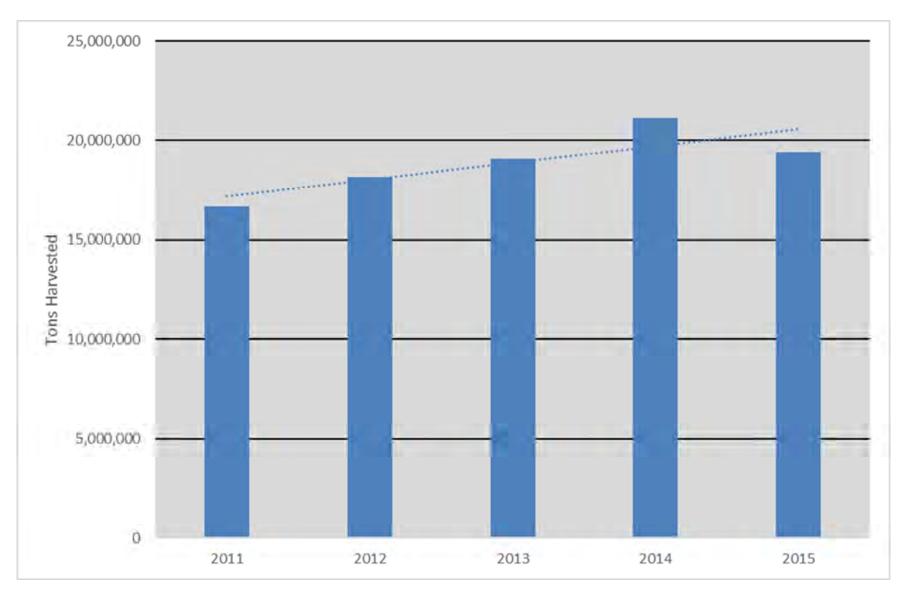
Source:

WestRock





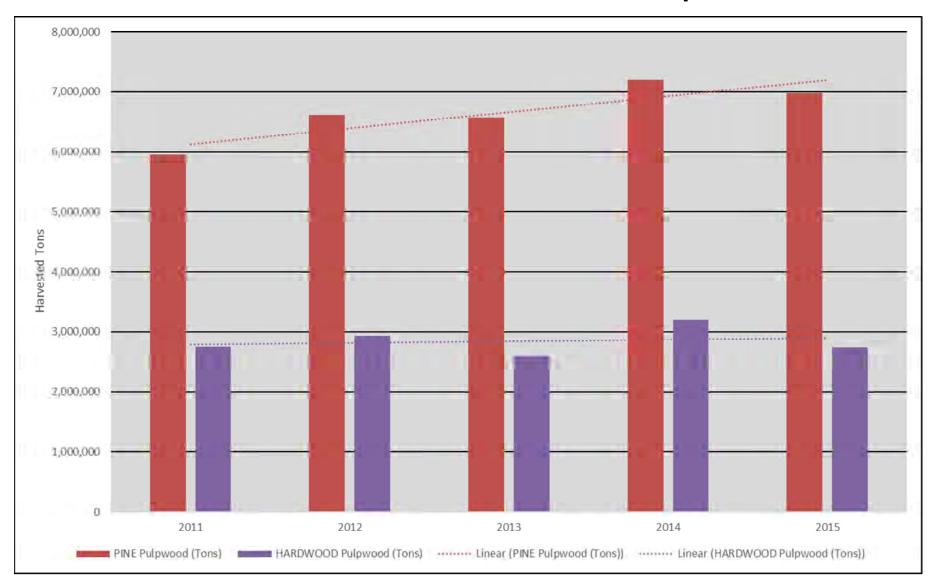
Virginia Total Harvest in Tons



Source: Virginia Department of Forestry

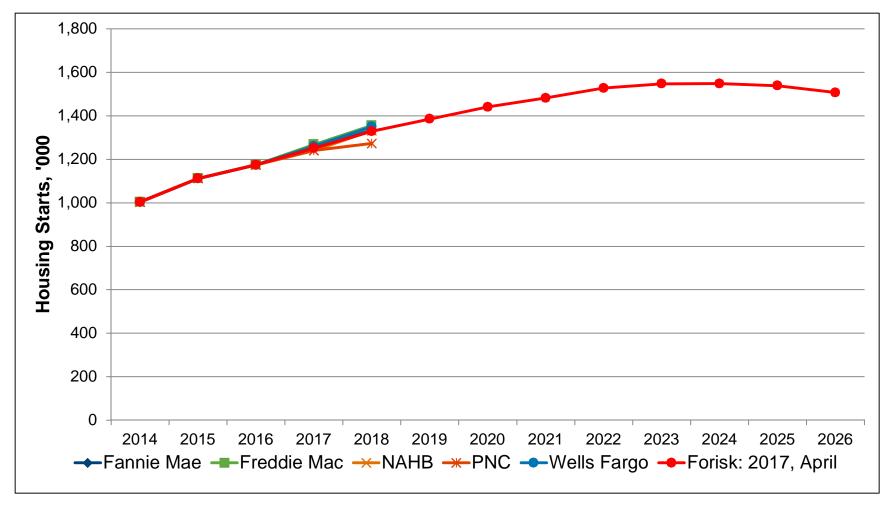


Harvested Pine and Hardwood Pulpwood Tons



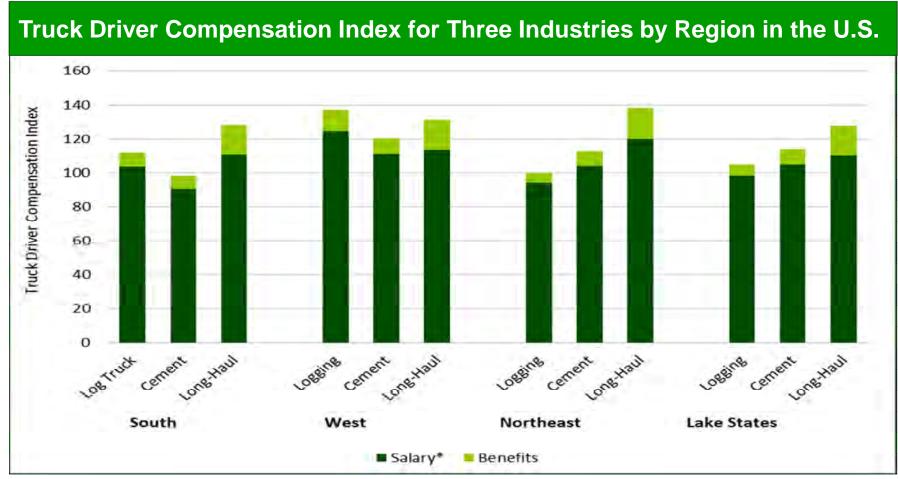


Forisk projects U.S. housing starts of 1.25 million for 2017.



Source: Q2 2017 FRQ



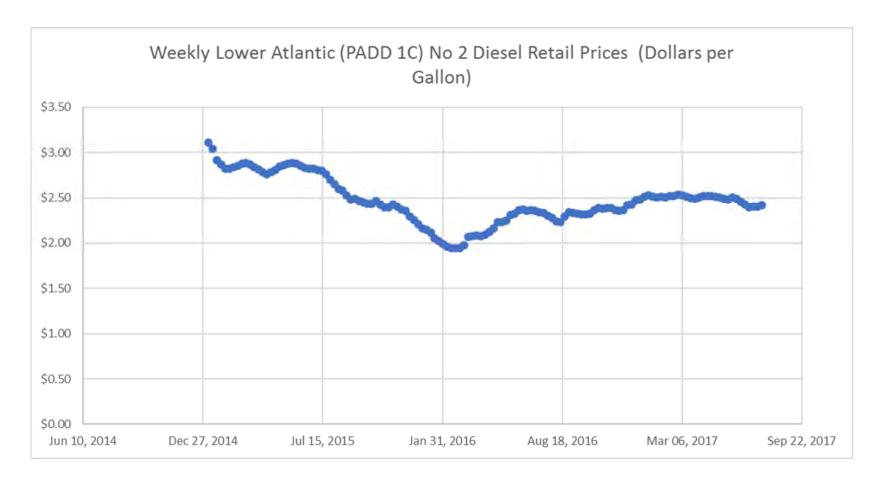


Source: Q1 2017 FRQ

*All values indexed to level of 100, at the national average salary for logging equipment operators in 2015.

A U.S. shortage in qualified truck drivers pressured salaries higher the past two years. Log truck driver compensation in the South and West are competitive with other rural trucking industries and long-haul freight companies. Salary increases cost the wood supply chain an additional \$90 million. WestRock

Historic Diesel Prices in the Lower Atlantic



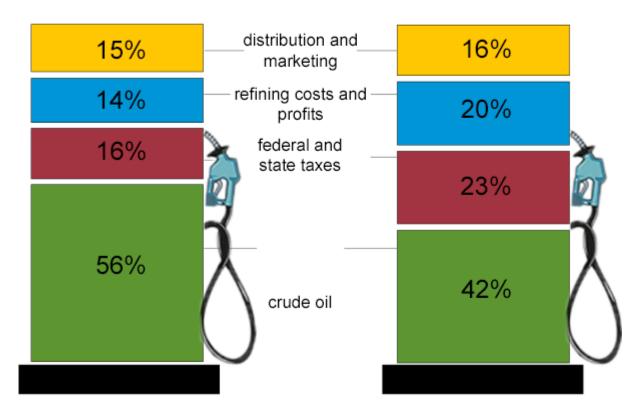
Source: U.S. EIA



What do we pay for in a gallon of diesel fuel?

2016

2007 to 2016 Average retail Average retail price: \$3.27 price: \$2.31

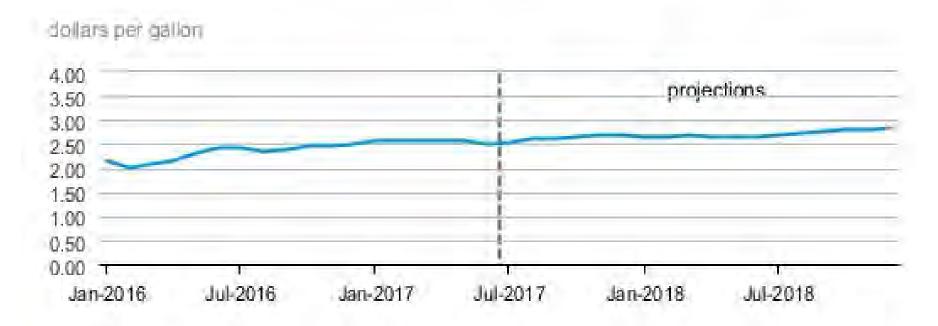


Source: U.S. Energy Information Administration, averages based on Gasoline and Diesel Fuel Update





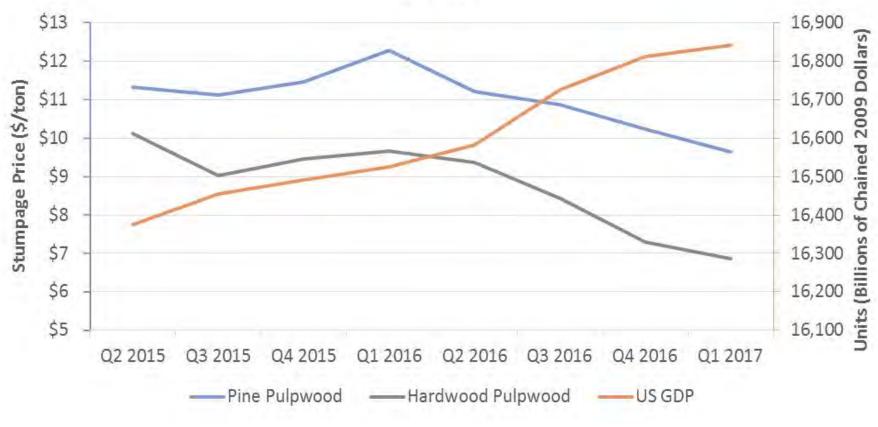
Diesel fuel retail price incl taxes, U.S. average







Southwide Pulpwood Stumpage Price and US GDP Trends



Source: https://blog.forest2market.com/us-south-timber-prices-drop-in-1q2017



Thank you.

