

Rail Energy Transportation Advisory Committee

Rail Fleet Update December 1, 2015



Macro & Freight Environment

North American Carloadings

Freight Car Deliveries & Build Forecast

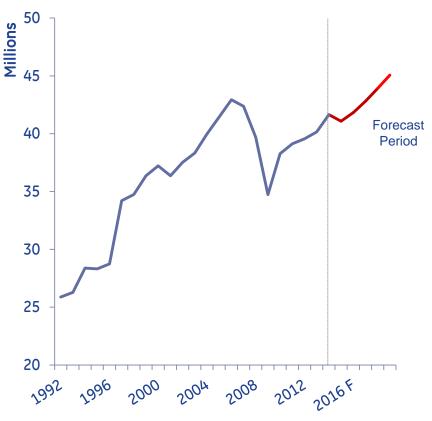
Commodities Outlook

Macro & Freight Environment

- Real GDP grew by 1.5% in Q3'15 and is expected to grow 2.5% in Q4'15.
- Industrial production to grow 2% in 2015, down from 4% in 2014
- Housing starts est. at 1.1MM in 2015 and 1.3MM in 2016.
- Manufacturing facing headwinds due to the strong dollar, weak global growth and falling energy investment
- Gas prices at historical lows, having a positive impact on consumer spending
- Rail volumes have declined or remained flat across the board, with coal leading the downward push.
- Freight car builders delivered over 67k cars in 2014, with current forecasts at ~86k cars in 2015; ~28% increase

Railcar Demand Drivers

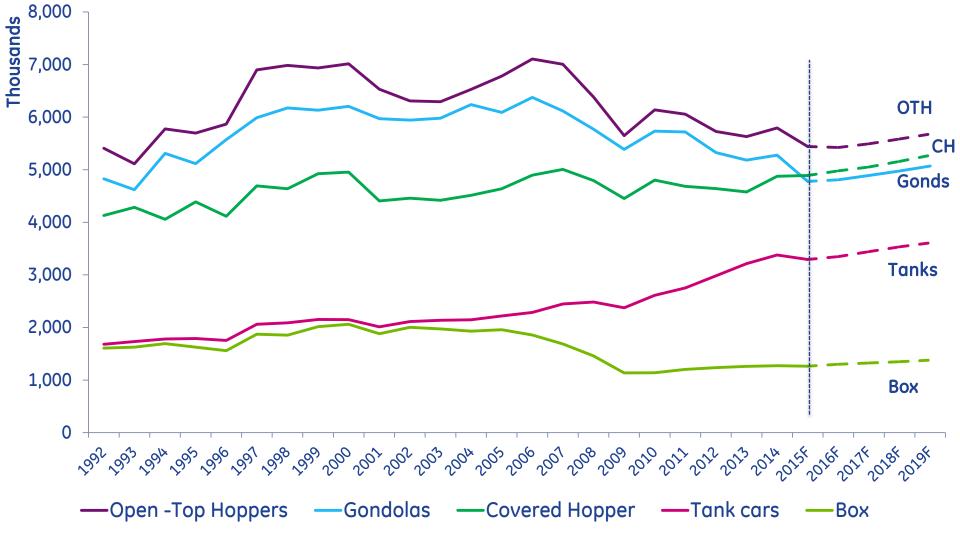
- NA Carloads est. flat growth in 2015 and ~ 2.5% per year beyond
- Fleet Utilization projected to fall 9.5 points y/y to 81.6% with declines across all car types
- Corn production grew 2.8% in the '14/'15 season; expected to decrease 4.4% next year
- Natural gas prices are extremely low (\$2.89MM/Btu in 2015) putting pressure on the outlook for coal.
- New chemical capacity expected to come online in 2016-17
- Lower freight volumes and rail network improvements will push up the # of surplus cars.



North American Rail Carloadings

Source: FTR Rail Equipment Q3'15 www.ftrintel.com

N.A. Railcar loadings by car type



Source: FTR Rail Equipment Q3'15 www.ftrintel.com

Total Freight car Builds

Delivery Forecast



2015 Deliveries driven by Tank, Covered Hoppers and Flat cars

Source: FTR Rail Equipment Q3'15 www.ftrintel.com

Covered Hopper Builds

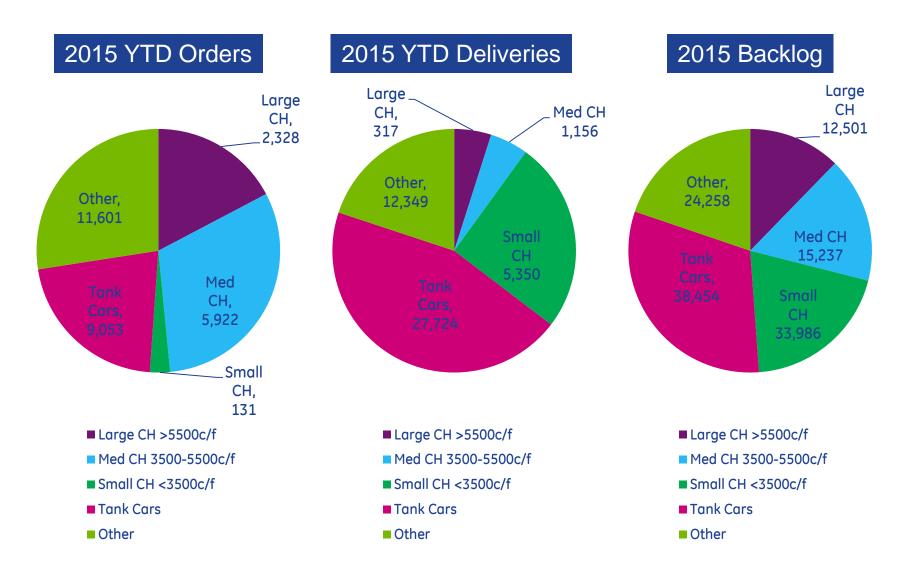
Delivery Forecast



Grain and plastic pellet cars are trending upwards

Source: FTR Rail Equipment Q3'15 www.ftrintel.com

Freight Car Builds



Other category includes Box, Flat, Gondolas, OT Hoppers, Intermodal

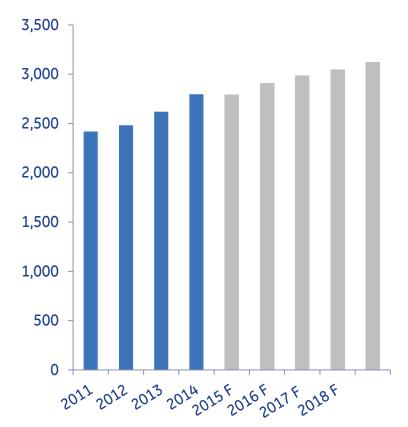
Source: Railway Supply Institute, ARCI 3Q-2015

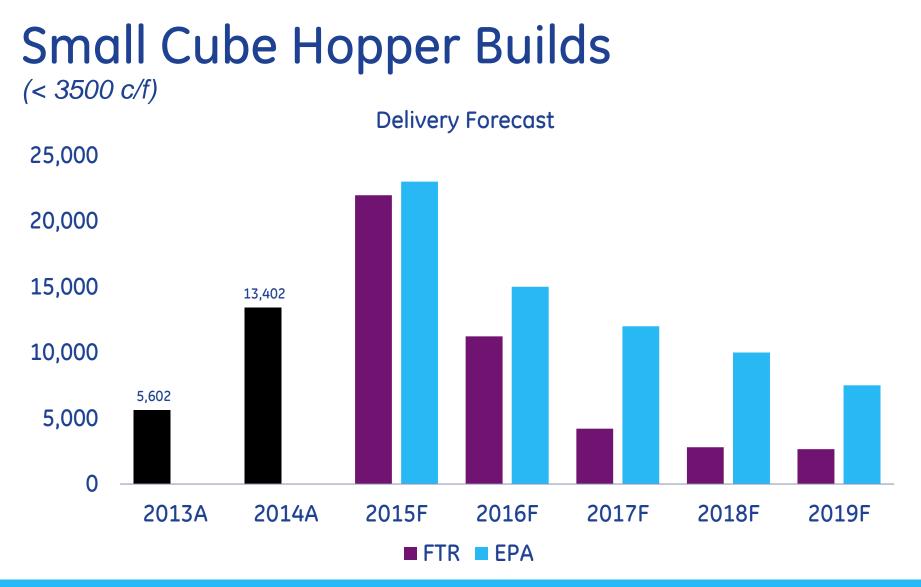
Sand & Cement

- Stone, sand & concrete ~ 7% of U.S. rail carloadings
- Sand loadings in 2015 expected to be flat vs 2014.
- Sand demand expected to grow from 42.5MM Tons in 2015 to 54.5MM tons in 2017
- Construction spending expected to grow 7.9% this year
- US cement consumption is expected to grow 5.0% in 2015 and 6.5% in 2016

North American Sand, Stone, Glass and Concrete Loadings

(thousands)





Demand for sand cars the main driver

- Coal ~ 38% of US car loadings; expected to remain relatively unchanged through 2019
- 2014 Coal production grew 1% in 2014, but expected to decline 9% in 2015
- YTD Coal car loadings have declined 9.8%
- Coal consumption is expected to decrease by 7% in 2015
- 2015 demand expected to decline as natural gas prices remain low and retirements of coal power plants continue

North American Coal Loadings

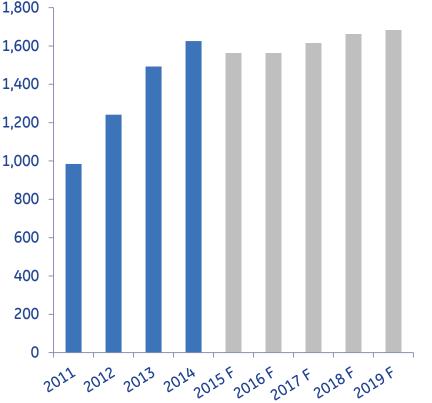


Petroleum, Crude Oil & Natural Gas

- Petroleum, crude, & natural gas products make up 4% of North American Car Loadings
- N.A. Petroleum and Crude Carloads expected to decrease 4% in 2015
- U.S. crude oil production record levels, EIA est. 9.2MM b/d in 2015, falling to 8.9MMb/d in 2016
- Canadian crude oil production est. to grow 1.4x, up to 5.3 million b/d by 2030; Canadian CBR expected to grow 150,000 b/d by 2017
- EIA forecast WTI price ~ \$50/bbl in 2015 and \$54/bbl in 2016

North American Petroleum, Crude and Natural Gas Loadings

(Thousands)



Tank Car Builds



Delivery Forecast

Tank builds to be driven by replacements and regulatory changes.

Tank Car Regulatory Update

- DOT/PHMSA, Transport Canada (TC)Final Rules 5/1/15
- DOT 117, 117R, TC 117, 117R, 10/1/15 Compliance New Tank Cars
- Class 3 Flammable Liquids
- PHMSA High Hazard Flammable Train Scope vs. TC 100% Compliance
- Comparable Compliance Schedules, PHMSA PG Driven vs. TC Commodity Driven
- Prescribed Standards, Performance Standard Option
- Petitions, Appeals, Legislative Activity Underway
- AAR Proposing Industry Standards
- Scope, Compliance Schedules, ECP Brakes, Fittings Protection and Thermal Protection Topics of Discussion