

Rail Energy Transportation Advisory Committee

Rail Fleet Update September 19, 2013

Agenda

Railcar Demand Drivers

Freight Car Orders

North American Railcar Fleet

Tank Car Regulatory / Industry Standard Developments

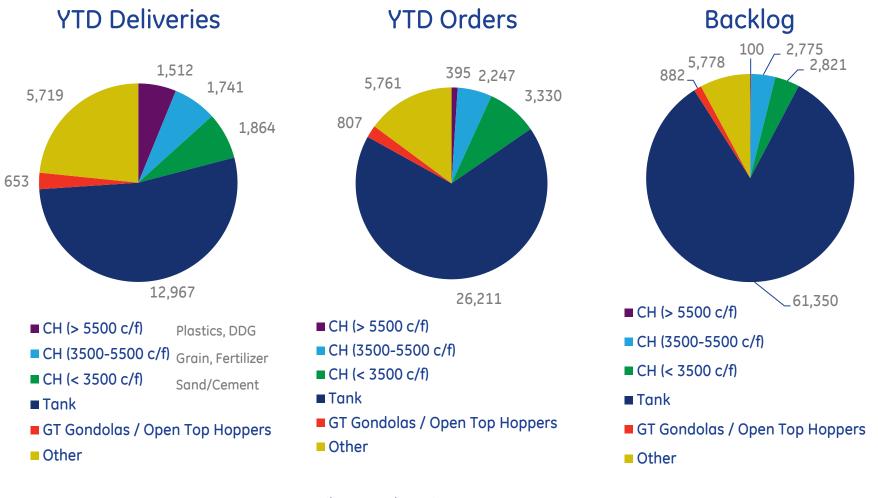
Energy Segments

Railcar Demand Drivers

- Key drivers of rail traffic: GDP, industrial output, commodity carloads, Intermodal
- NAFTA GDP growth is forecasted at 1.9% in 2013 and 2.9% in 2014
- Industrial production growth is forecasted at 2.8% in 2013 and 3.2% in 2014
- Housing starts to reach 1.01 million in 2013 (+29%) and 1.10 million in 2014
- 2012 Weak grain and coal environments offset by strong growth in petroleum, motor vehicles, aggregates, and lumber.
- USDA is projecting strong production and exports for a variety of grains in the 2013/2014 marketing year, boosting demand for grain and fertilizer cars
- Chemicals growth projected in North America as shale gas boom creates investment opportunity for U.S. manufacturing
- 2013 Commodity carloads +0.8% and Rail traffic +1.8%

Overall growth suggests a favorable outlook for rail traffic and new equipment investments.

ARCI Freight Car Builds



Source: Railway Supply Institute, ARCI 2013 2Q Report

Total Freight Car Demand

Production Forecast	2012 A	2013 F	2014 F	2015 F	2016 F	2017
Economic Planning Associates	58,904	52,500	60,250	64,250	63,750	64,750
Global Insight	58,904	51,793	64,139	67,917	56,232	51,476
FTR Associates	58,904	49,726	58,500	58,000	57,600	60,200

Total Railcar Backlog = 73,706 cars YTD Orders = 38,751 cars YTD Deliveries = 24,456 cars

Tank Car Demand

Production Forecast	2012 A	2013 F	2014 F	2015 F	2016 F	2017 F
Economic Planning Associates	17,666	28,500	32,000	28,000	24,000	22,000
Global Insight	17,666	26,306	26,070	21,706	12,147	11,381
FTR Associates	17,666	27,467	28,900	22,700	16,100	16,400

Tank Backlog = 61,350 cars YTD Orders = 26,211 cars YTD Deliveries = 6,887 cars

Total Covered Hopper Car Demand

Production Forecast	2012 A	2013 F	2014 F	2015 F	2016 F	2017 F
Economic Planning Associates	20,691	10,500	11,500	15,500	16,000	16,500
Global Insight	20,691	11,253	15,303	18,086	16,138	13,177
FTR Associates	20,691	9,617	15,300	18,000	20,900	20,600

Covered Hopper Backlog = 5,696 cars YTD Orders = 5,972 cars YTD Deliveries = 5,117 cars

Covered Hopper Car Demand

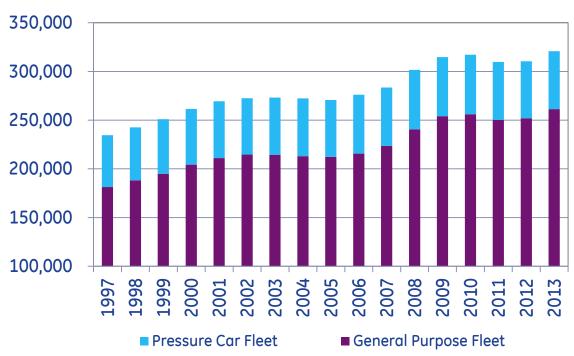
(<3500 c/f) Sand, Cement

Production Forecast	2012 A	2013	2014	2015	2016	2017
Economic Planning Associates	13,781	4,000	5,000	7,000	6,000	6,000
Global Insight	13,781	4,692	4,667	3,979	2,824	2,372
FTR Associates	13,781	1,832	2,830	2,710	2,800	2,480

Covered Hopper Backlog = 5,696 cars YTD Orders = 5,972 cars YTD Deliveries = 5,117 cars

Tank Car Fleet

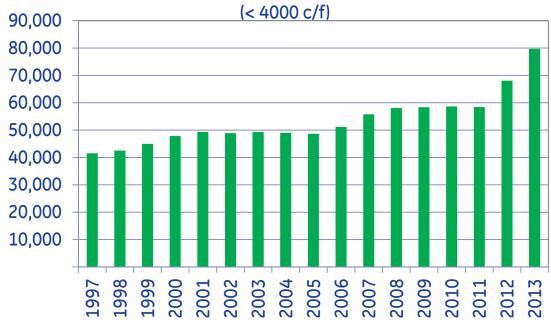




- Overall growth the tank car fleet, up 3.4% over 2012.
- General Purpose fleet (261k cars) increased 2% (2010-2013)
- Average age of tank fleet = 16 years (IHS)
- 2013 Tank car demand = 35% replacement and 65% new demand (IHS)

Small Cube Fleet





- Majority of fleet today in Cement/Sand Service
- 25.8k cars built between 2011-12, roughly 20% of National Fleet
- National fleet grew by 11k+ units in 2013 due to 13.8k new builds, however forecast for small cube new builds projected to be significantly less (2013-17)
- Average age Covered Hoppers < 4000 c/f = 13.2 yrs. (IHS)

Tank Car Regulatory / Industry Standard Developments

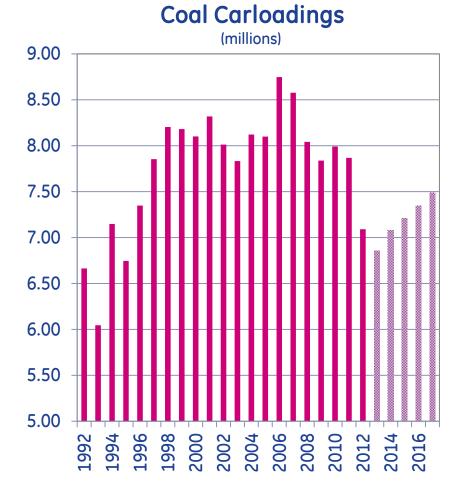
- Transport Canada Emergency Directive No. H096/13, Unattended hazmat train requirements
- AAR Circular Letter CPC-1257, pressure relief valve requirements
- FRA Emergency Order No. 28, Notice No. 1, Hazmat train definition and unattended hazmat train requirements
- AAR Circular No. OT-55-N, Operating practices for hazmat trains
- Reactivation of AAR TCC Docket T87.6 Task Force, Industry standards for ethanol and crude oil tank cars
- FRA/PHMSA Public Meeting, Potential edits, corrections and deletions to (CFR)
 Parts 171 and 174
- Rail Safety Advisory Committee (RSAC) Public Meeting, Hazmat train operations
- PHMSA Advanced Notice of Proposed Rulemaking (HM-251), Rail Petitions and recommendations to improve the safety of railroad tank car transportation of hazardous materials

Energy Segments

- Coal
- Renewable Fuels
- Petroleum Products
- Frac Sand

Coal

- Power sector consumption of coal projected to recover by 9% (in tonnage terms) in 2013
- Coal movements improved slightly in 2Q 2013, and projected to continue at a modest growth rate 2014-17.
- Impacted by low natural gas prices and weak electricity demand
- Strong Coal exports in the first quarter, however full year 2013 projected -10% vs. last year.
- Longer-term average consumption growth 0.5% (EIA forecast 2013-2040) resulting in loss of coal share in U.S. power gen mix
- Approx. 258,000 coal cars in the North American Fleet



Source: IHS Global Insight, FTR Associates, Railinc/GERS

Source: FTR Associates, 2Q 2013

Renewable Fuels

- Renewable Energy production projected to grow 87% over the EIA forecast period (2013-2040)
- U.S. biofuel mandate remains in line with the previous forecast as cellulosic production is expected to remain muted
- Adverse conditions for ethanol demand in 2012 due to drought, record corn prices, and drop in gasoline demand.
- Ethanol production projected to increase 10% in 2013 and 7% in 2014 (IHS)
- Flexibility of assets in/out of Crude market

Renewable Energy Production Forecast*

(quadrillion Btu)



Source: IHS Global Insight, EIA, Informa Economics,

Source: EIA, Annual Energy Outlook 2013 *Excludes Biomass and Hydropower

Petroleum

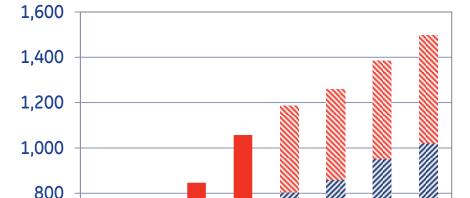
- U.S. production of oil and gas increased 9.6% in 2012 and is forecasted to grow 5.1% in 2013.
- Petroleum demand projected to increase 3.4% in 2013.
- U.S. Petroleum Carloads projected to increase 29% in 2013 and 14% in 2014. Canadian up 17% in 2013 and 7% in 2014.
- Crude oil and lease condensate production forecasted to grow 5% in 2014.
- Total Canadian crude oil production is forecasted to increase 22% (2012-2015) to 3.9 million b/d by 2015, up to 6.7 million b/d by 2030.
- Brent-WTI price spreads have dropped in 2013 and projected to narrow over the long term forecast period

Source: IHS Global Insight, EIA, CAAP Source: IHS Glob

600

400

Petroleum & Pdts. Loadings (thousands)





■ Canada

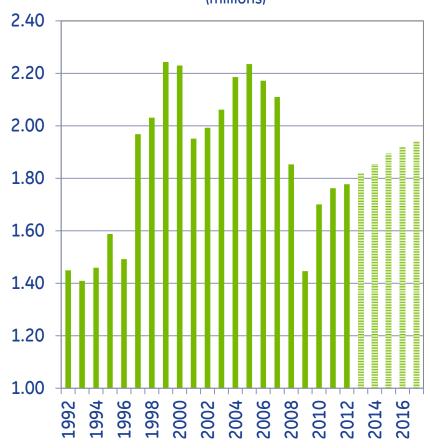
■ U.S.

Frac Sand

- Construction is driving nonmetallic mineral demand (6% increase in 2013)
- Forecast for construction activity to expand 6.0% in 2013 up to 9.5% in 2014.
- Nonmetallic mineral production growth is forecasted at 3.7% in 2013, 2.6% in 2014
- Growth in nonmetallic mineral carloadings projected at 2% per year (2013-2015)

Source: IHS Global Insight, EIA, FTR Associates

Nonmetallic Minerals Carloadings (millions)



Source: FTR Associates, Q2 2103 *Nonmetallic Minerals, Except Fuels