



Equipment Management Conference & Exhibition

February 25 – 27, 2018

The Vinoy Renaissance St. Petersburg Resort & Golf Club • St. Petersburg, FL

P R E S E N T A T I O N S

2018 EQUIPMENT LEASING AND FINANCE ASSOCIATION

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Railroad Appraisal Associates

DISCLAIMER

- ALL OPINIONS ARE RAA ONLY
- NO ENDORSEMENT OF ANY MANUFACTURER OR COMPANIES

**RAA IS NOT RESPONSIBLE FOR ANY
DECISIONS BASED ON THIS
PRESENTATION**



RAILROAD APPRAISAL ASSOCIATES

- FOUNDED 1976
- OLDEST RAIL SPECIFIC APPRAISAL FIRM
- FULL INSPECTION SERVICE
- MANAGEMENT CONSULTING
- MEMBER EQUIPMENT APPRAISERS ASSOCIATION OF NORTH AMERICA - EAANA



AGENDA

- GENERAL OVERVIEW OF MARKET
- RAILCAR PRODUCTION
- RAILCAR SEGMENT OUTLOOK
 - OIL / ETHANOL / SAND MARKET
- LEASING MARKET
- Q & A

THEN AND NOW

2014

- 1.546 MILLION RAILCARS
- 267,000 IDLE – 17% OF FLEET
- TANK CAR REGULATION LOOMING
- PROJECTED BUILD 60K FOR 4 YEARS
- MARRIED 31 YEARS

2018

- 1.641 MILLION RAILCARS
- 305,624 IDLE – 18.6% OF FLEET
- TANK CAR MARKET UNCERTAIN
- PROJECTED BUILD 40K > 60K 2021
- STILL MARRIED

FEBRUARY 1, 2018 STORAGE STATISTICS

	Fleet	Storage	% Fleet	% of Storage	DEC16 Storage
Covered Hopper Cars	552,626	87,289	16%	29%	97,038
Tanks	408,748	101,533	25%	33%	114,606
Gondolas	214,945	41,545	19%	14%	52,764
Open Top Hoppers	139,542	39,388	28%	13%	33,122
Flats, Intermodal	201,158	17,486	9%	6%	26,450
Box Cars	107,478	14,409	13%	5%	18,528
Miscellaneous	17,385	3,974	23%	1%	4,739
Total	1,641,882	305,624	19%	100%	347,257

THEN AND NOW

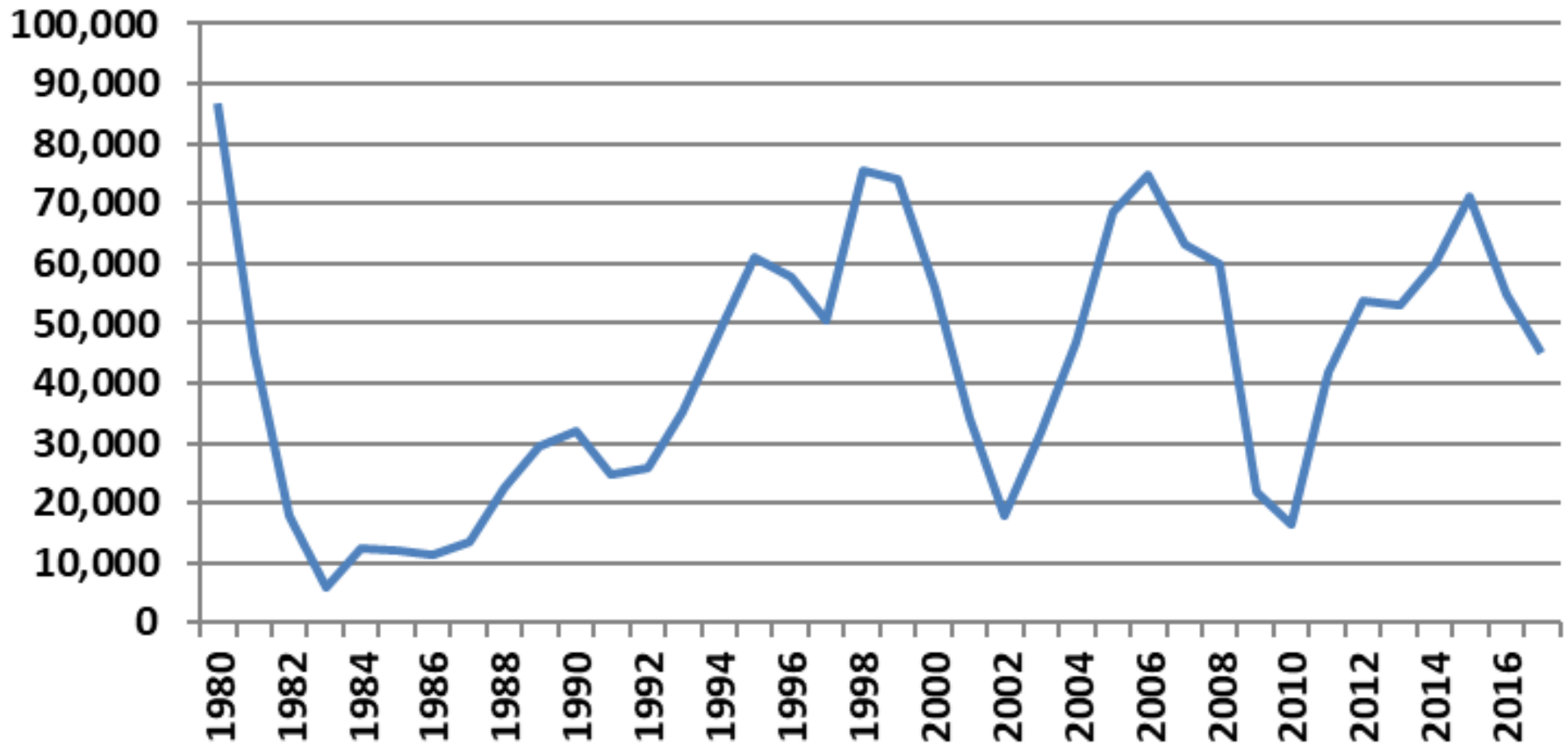
2014

- 56,000 RAILCARS DELIVERED IN 2013
- TANK CARS - PRIMARILY OIL RELATED
- 73,000 UNIT BACKLOG AND GROWING

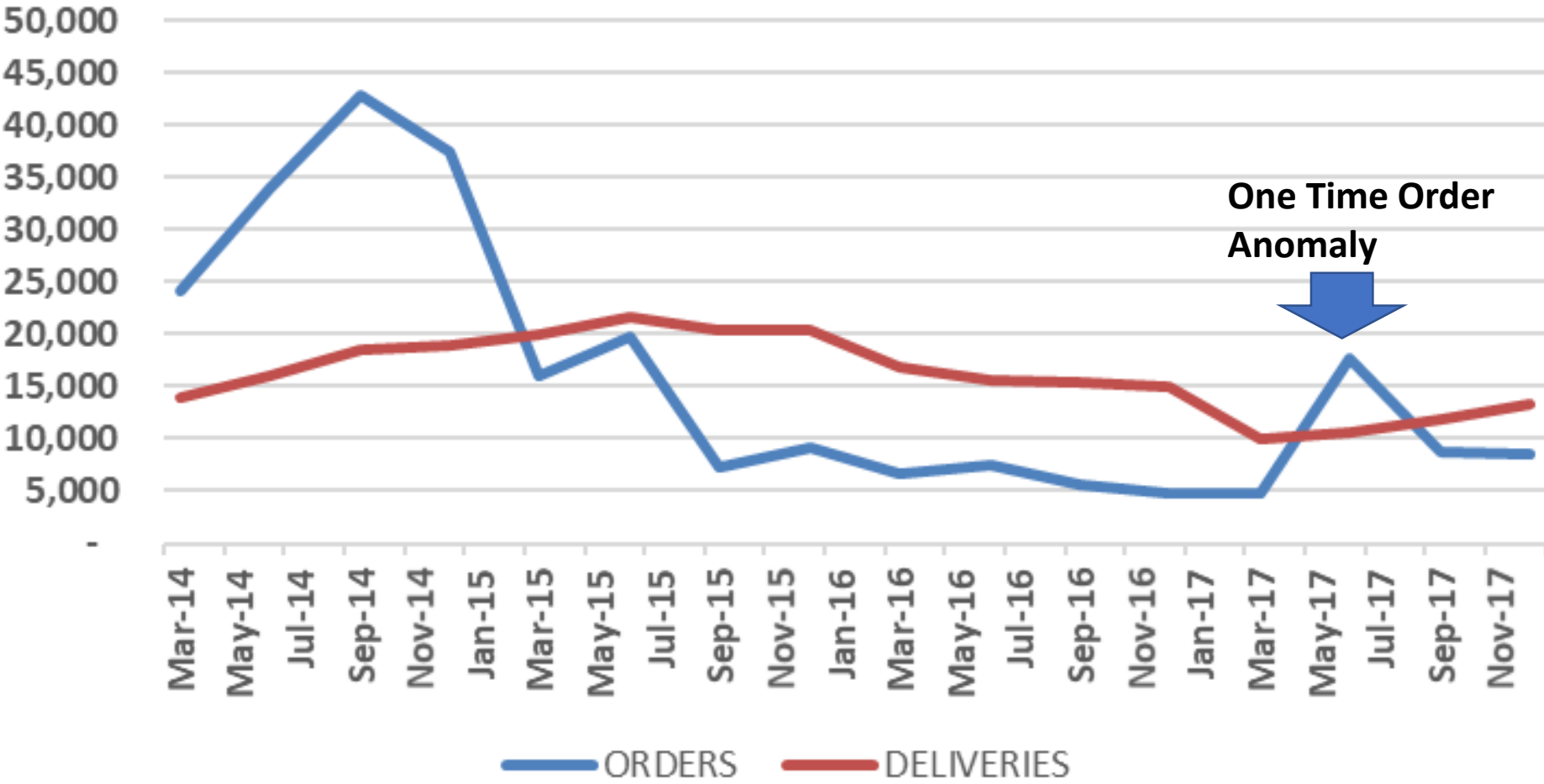
2018

- 45,000 RAILCARS DELIVERED IN 2017
- COVERED HOPPERS 53%
- TANK CARS 25%
- 58,000 UNIT BACKLOG AND SLOWING
- RECENT PRICE DECREASES

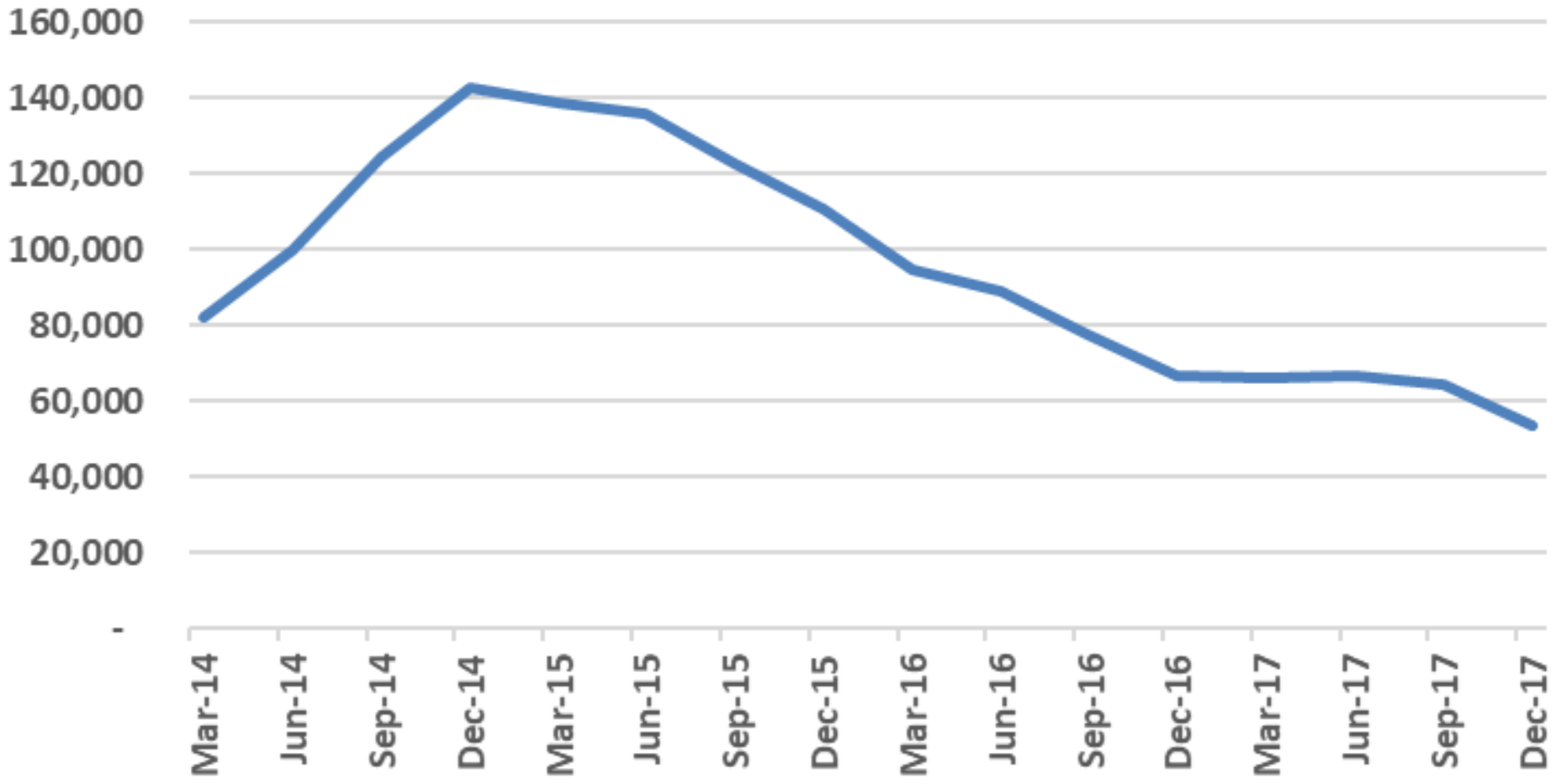
Total Railcars Produced



ORDERS AND DELIVERIES



BACKLOG



DECEMBER 2017 BACKLOG – 58,275

Over 5000	6,147	11%
3500-5000	7,094	12%
Under 3500	17,605	30%
Covered Hoppers	30,846	53%
Open Top Hoppers	917	2%
Mill	1,655	3%
Steel Rotary	504	1%
Alum. Rotary	-	0%
Gondolas	2,159	4%
Tank Cars	16,612	29%
Boxcars	3,636	3%
Flat Cars	2,524	4%
Intermodal	3,636	6%

TANK CAR MARKET

- SOME BUILDING IN UNDER 23,000 GALLON MARKET
- MOST BUILDING IN 28,000 GALLON PLUS MARKET
- SOME BUILDING IN PRESSURIZED TANK CARS – LPG

- DOT 117 IS MAJORITY OF NEW TANK BUILD
 - WILL ACCELERATE AS WE MOVE TOWARDS 2023

OIL / ETHANOL TANK CARS

- NEW REGULATORY REGULATIONS – IN GENERAL
 - ALL OIL RAILCARS BY 2020
 - ALL ETHANOL RAILCARS BY 2023
- CURRENT FLEET – IN USE DECEMBER 2017
 - CBR 17,000 (PEAK 55,000) – 77% 1232, 18% DOT 117 (33% 117 RETROFITS)
 - ETHANOL FLEET 36,000 - 71% DOT 111, 9% 1232, 20% DOT 117
 - CBR / ETHANOL 13,000 RETROFIT 117R CARS IN 2017

TANK CAR TAKEAWAYS

- EXPECT **SCRAPPING**/RE-PURPOSING IN NEXT SEVERAL YEARS
 - ~ 25,000 DOT 111 **NON-JACKETED** TANKS
 - ~ 8,000 DOT 111 JACKETED TANKS
- WE NEED TO REPLACE ~20,000 DOT 111 ETHANOL CARS
- CBR BUILD IS DOT 117 – HOW MANY RETROFITS IN THE MIX

TANK CAR MARKET UNCERTAINTY IS CAUSED BY:

- OUTCOME OF PIPELINE LITIGATION – WHAT SIZE IS FLEET IN 2025
- FARM SUBSIDIES – WILL THEY SUPPORT FUTURE ETHANOL BLENDING
- OIL PRICES – GREAT AT \$60 AND STABLE
- SLOW MARKET RETROFIT RESPONSE

SAND COVERED HOPPER CARS

- 2014/2015 PRICES CLIMB TO \$85,000 PER RAILCAR
- OVERBUILD
- DECEMBER 2016 25,000 CARS IN STORAGE
- PRICES DROP TO \$70,000 PER RAILCAR
- NEW TECHNOLOGY AND RISE IN OIL PRICES
- APRIL 2017 BUILD IS BACK ON
- NEW CAR PRICE AROUND \$75,000 TODAY

2009-2017 BUILD ~85,000 SAND HOPPERS

WHY?

- MORE SAND PER WELL HEAD
- INCREASED OIL PRICES
- SWITCH FROM EXPLORATION TO EXTRACTION

- PRICE DROP DUE TO MANUFACTURER DESIRE TO PRODUCE COUPLED WITH REDUCED DEMAND

SAND CAR MARKET CONCERNS

- LOCAL SOURCING OF FRAC SAND WILL HAVE IMPACT
- INCREASED OIL PRICES
- MANUFACTURER DISCIPLINE
- US INFRASTRUCTURE PLAN (CEMENT CARS)

**RAA WATCHING FOR SIGNS OF OVERBUILD
IT MAY BE HERE ALREADY**

OTHER CAR TYPES

HOT

- BULKHEAD FLATS
- GENERAL FLATS

LUKE WARM

- PD COVERED HOPPERS
- SPECIALTY COVERED HOPPERS
- ARTICULATED AUTO CARRIERS
- PLASTIC PELLET CARS

REPLACEMENT

- GRAIN COVERED HOPPERS
- MILL GONDOLAS
- BOXCARS
- AGGREGATE HOPPER CARS

COLD

- COAL CARS – GONDOLAS AND OPEN TOP HOPPERS
- LOCOMOTIVES

LEASING ENVIRONMENT

- IN GENERAL – RATES REMAIN DEPRESSED BUT STABLE
- SAND CARS – DROPPED TO \$150 - BACK TO \$450 PLUS
- OIL CARS – DROPPED TO \$450 – BACK TO \$750+
- ETHANOL RAILCARS DROPPED TO \$150 – BACK TO \$500+
- COAL GONDOLAS/HOPPERS - \$100 NET IF LUCKY
- HIGHER RATES GO TO RELATIONSHIP BASED LESSORS

RFC SURVEY 2018 BIGGEST INDUSTRY CONCERN

SUCCESS IN THE RAILCAR MARKET

- **LONG TERM VISION** - LONG TERM VALUE SHORT TERM CYCLES
- **FLEET STRATEGY** – DIVERSIFICATION, TRANSACTIONAL, SPECIALIZATION
- **PATIENCE – DO NOT BE REACTIONARY**
- **RECOGNIZE INDIVIDUAL RAILCAR DRIVERS**
 - ECONOMIC USEFUL LIFE AND CONDITION OF RAILCAR
 - REPLACEMENT COST - TECHNOLOGICAL OBSOLESCENCE
 - REGULATORY ENVIRONMENT
 - CAR SUPPLY/DEMAND
 - COMMODITY
 - ALTERNATIVE USE

RAA BIGGEST CONCERNS TODAY

- BUILD OF RAILCARS - WATCHING CLOSELY
- MANUFACTURER BASED LEASING COMPANIES
 - MANUFACTURING SUPPORT OR A PROFIT CENTER?
- NEW MARKET ENTRANTS – CHEAP MONEY
- TOO MANY PARTIES CHASING TOO FEW DEALS
- AS DEMAND GOES UP ---- PRICES WILL TOO
- OWNERS WITH PRE-PRICE DECREASE CARS
- **LEASE RATES NEED TO REBOUND BEFORE WE BUILD**

PRESENTATION

- pat@railroadappraisals.com
- PRESENTATION AVAILABLE WEEK OF 3/12/18
- DROP BUSINESS CARD UP FRONT

