

A Different Set of Problems:

Trucking & Heavy Equipment Demand Shift Into High Gear

Kenny Vieth ACT RESEARCH Co., LLC

Federal Reserve Bank of Chicago Automotive Outlook Symposium June 3, 2011

It's NOT Different This Time

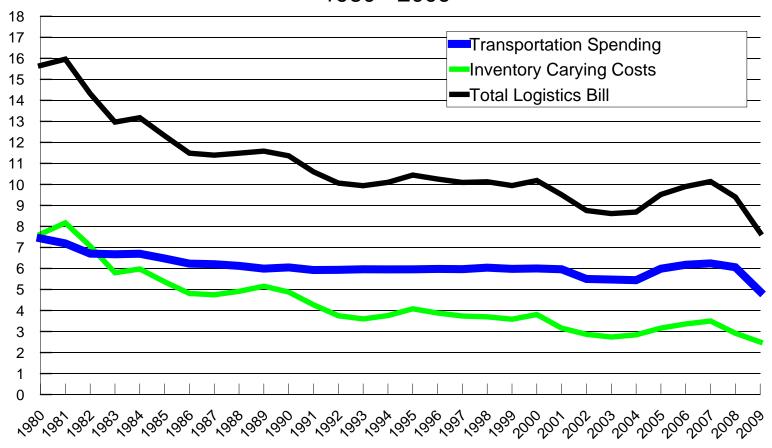
- Thesis: We have experienced a deep correction, rather than a fundamental shift in the relationship between freight and the trucks needed to haul it.
 - As freight and business fundamentals normalize, so too will commercial vehicle demand

There is nothing to replace heavy trucks in the U.S. or global economies



U.S. Logistics Spend

as a Percentage of GDP 1980 - 2009



Council for Supply Chain Management Professionals, ACT Research Co., LLC: Copyright 2010



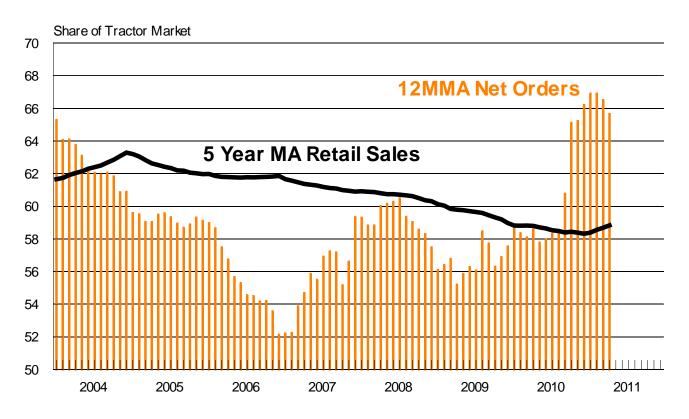
Marginal Demand Considerations: Evolution not Revolution

Detracting from Demand	Accretive to Demand	Trend Period
Packaging evolution	Population Growth	20 year
Retail Consolidation	Internet Shopping	20+ years
Electronics Miniaturization	Ubiquitousness of electronics	20+ years
Intermodal		20 year
JIT Operations	JIT Operations	20 year
	Mfg. On-shoring (Mex.)	Now/Coming



Changing Freight Patterns I

U.S Tractor Market:
Sleepers as a Percentage of Total Tractor Sales

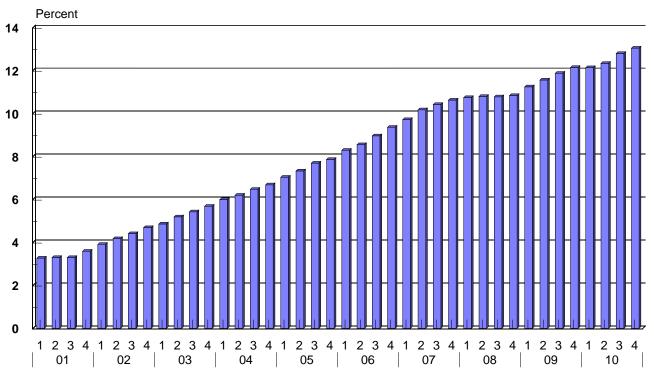




Changing Freight Patterns II

E-Commerce as a Percentage of Retail Sales (excluding food service)

Q1'2001 - Q4'2010



Source: Federal Reserve Board, ACT Research: Copyright 2011



Economic Summary

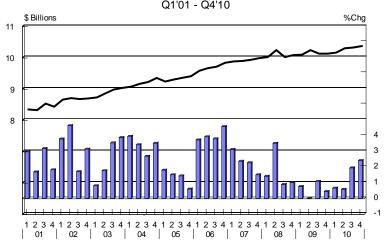
- Recovery appears to be self sustaining.
 - Strong tailwinds
 - Consumers are well positioned
 - QE2, December Stimulus
 - Manufacturing continues at robust levels
 - Business investment strong
 - Inventories low relative to sales
 - Rising headwinds
 - External:
 - "Arab Spring"
 - Japan (short term),
 - Eurozone debt
 - Internal: State & local tax receipts, fixing budgets w/o breaking recovery



Consumer Fundamentals Have Firmed

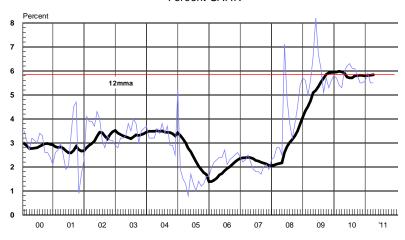
Real Disposable Personal Income

Actual and Y/Y % Change Q1'01 - Q4'10



Personal Savings Rate

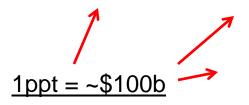
January 2000 - March 2011 Percent-SAAR

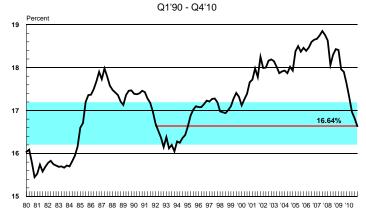


Source: BEA, ACT Research Co., LLC: Copyright 2011

Source: BEA, ACT Research: Copyright 2011

Household Financial Obligations as % of Disposable Income





Source: Federal Reserve Board, ACT Research: Copyright 201



Ramp-Up Issues

- Supply-chain constraints
 - Tires
 - Wiring harness connectors
 - Small engines
 - Axles (maybe bearings)
 - Coming
 - "Castings"
- Commodity inflation:
 - Between demand and input inflation, truck & trailer manufacturers are getting pricing/instituting surcharges



This Cycle Looks Familiar

- Supply-demand between freight and trucks has tilted in truckers' favor
- Trucker profits have rebounded
- Used equipment prices are rising
- Credit availability/worthiness improving
- Two years of deferred capex has created pent-up demand – and a really old fleet
- Rising trucker confidence
- Regulatory/driver shortage issues should negatively effect productivity, positively influencing new vehicle demand



Rhymes with History

- Class 8 Orders

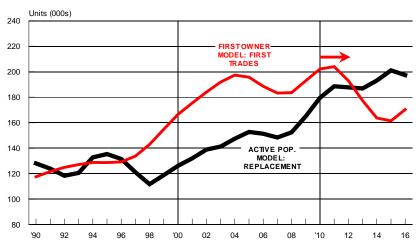
Period	August	Following March	% Chg.
'93-'94	17.1k	32.6k	+91%
'96-'97	11.1k	23.3k	+110%
'01-'02 *	9.0k	29.1k	+233%
'03-'04	15.1k	33.5k	+122%
'10-'11	12.4k	29.2k	+135%



Time to replace some trucks

U.S. Class 8 Replacement & Trade-In Models





ACT Research CoLLC: Copyright 20:	1

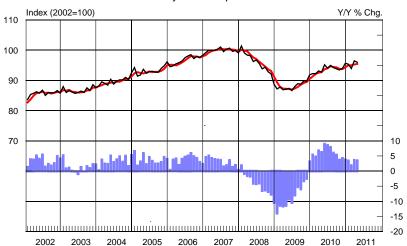
12 14 16		<u>2010</u>	<u> 2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>
Date Sold	<u>USC8RS</u>					
2003	146,143	8	9	10	11	12
2004	208,820	7	8	9	10	11
2005	257,847	6	7	8	9	10
2006	289,656	5	6	7	8	9
2007	157,565	4	5	6	7	8

Years of Service



Ceridian-UCLA Pulse of Commerce Index

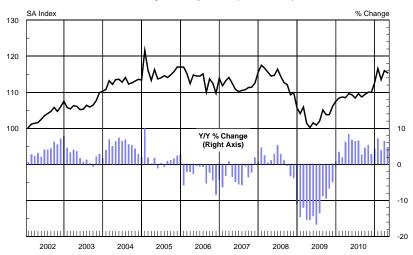
January 2002 - April 2011



Source: Ceridian, UCLA, ACT Research Co., LLC: Copyright 2011

ATA Monthly Truck Tonnage Index (SA)

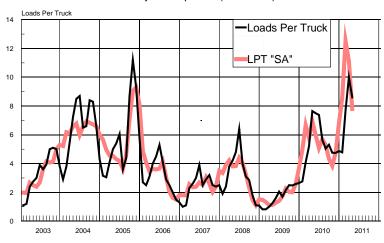
January '02 - April '11 (2000=100)



Source, American Trucking Association, ACT Research Co., LLC: Copyright 2011

Transcore Loadboard Data

January '03 - April '11 (2000=100)

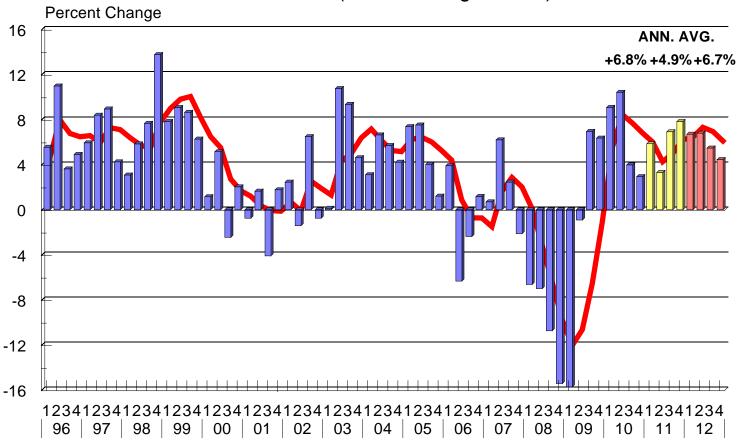


Source, Transcore Commercial Technology Group, ACT Research Co., LLC: Copyright 2011



ACT U.S. Freight Composite

Q/Q at SAAR, Y/Y Q1'97 - Q4'12(Actual through Q4'10)



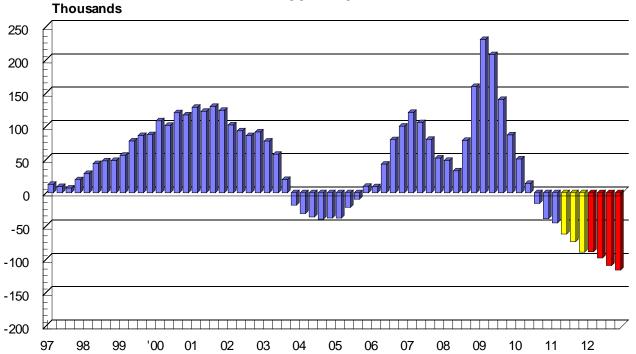
Source: ACT Research Co., LLC: Copyright 2011



Tight Capacity Favors Truckers

U.S. Class 8 Supply & Freight Demand Overbuy: Underbuy

1997 - 2012





Not A New Phenomenon

The Traffic World (part of Journal of Commerce)

Dec. 12, 1914

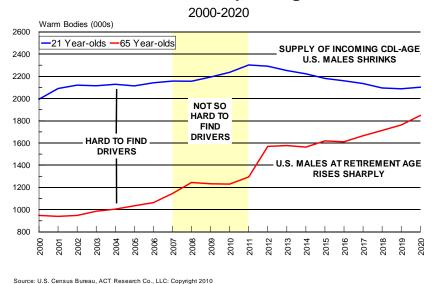
The Truck Driver Problem

 "Practically every truck manufacturer and nearly all employers complain of the great difficulty of securing drivers who are competent and who will work handling freight aside from those who drive horses. They are agreed that the profit or loss from truck transportation is largely dependent upon the drivers, and yet a majority of truck owners will hire the men who will work cheapest, entrusting valuable property in their keeping...)



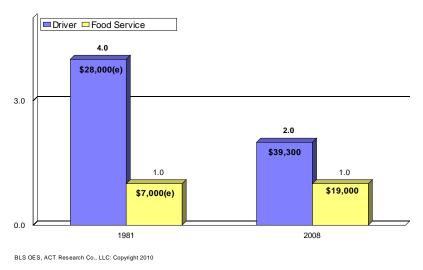
The Root of the Problem

DRIVER SUPPLY: U.S. MALES Potential Hirees & Impending Retirees



The Root of the Driver Shortage

Driver Wages Relative to Food Prep Workers



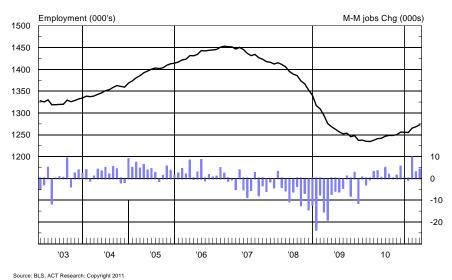
- When the supply-gap disappears, wages are going to rise rapidly
 - A check at MATS indicated long-haul TLs wages are still ~\$35-\$40k/year
- At 4:1, drivers would be making ~\$75k
- A tight driver supply will accelerate fleets' moves to replace old units with newer models so as to attract new/retain existing drivers.



Workers to Spare?

Truck Transportation Employment

January 2003 - April 2011 (Seasonally Adjusted)

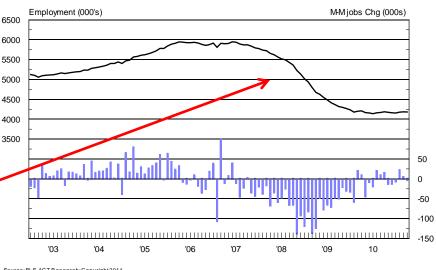


Incremental 1.7 million **NOT** working construction!

Incremental 200k not trucking (for-hire fleets)

Construction Employment: Production & Nonsupervisory

January 2003 - April 2011 (Seasonally Adjusted)



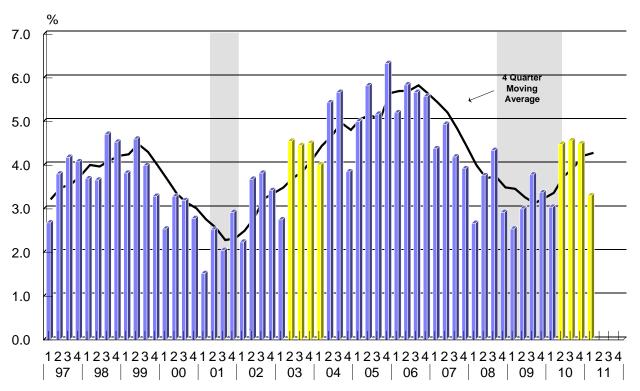
Source: BLS, ACT Research: Copyright 2011



Weather, Fuel Bite in Q1

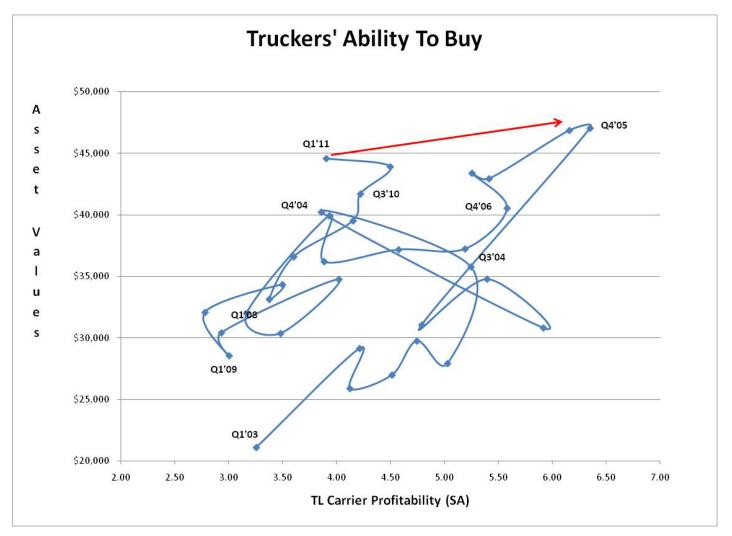
TL Carrier Database: Net Profit Margin(excl. SWFT)

Q1 '97 - Preliminary Q1 '11





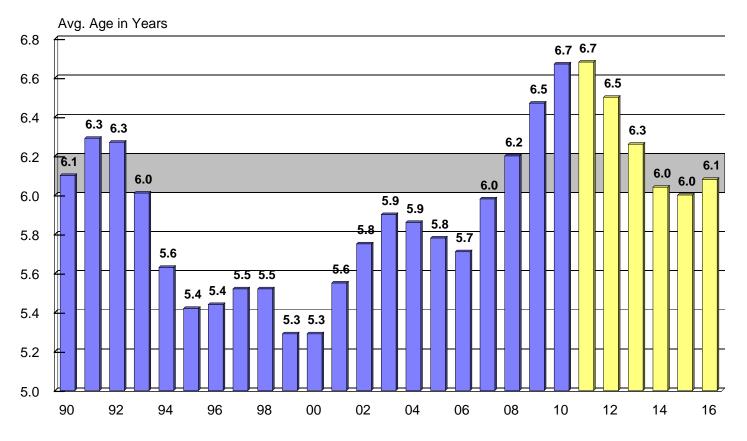
Into the Preferred Quadrant





AVERAGE AGE:U.S. Class 8 Active Population

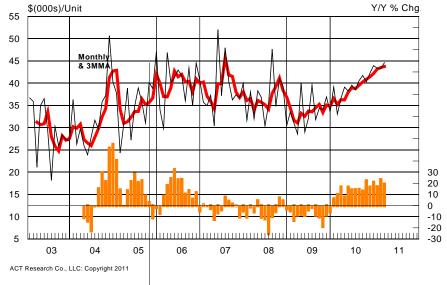
1990 - 2016





Used Class 8: Average Retail Selling Price

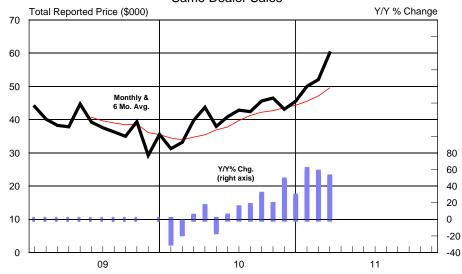
January '03 - March '11



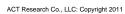
Slipped to \$42.3k in April

CLASS 8: U.S. USED TRUCK AVERAGE SALE PRICE

4 to 5 years old, 400-500,000 miles January '09 - Preliminary March '11 Same Dealer Sales



Jumped to \$68.8k in April





Current Demand Environment: Class 8 & Trailers

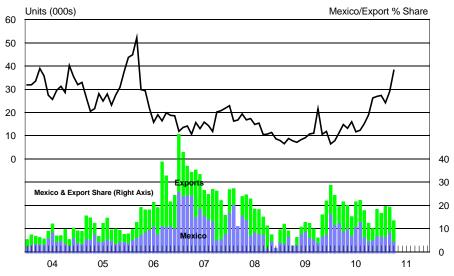
- Indicators generally pointing in the right direction
 - Orders: Rise sharply in Q4-Q1
 - » Rise to 5-plus year highs in March-April
 - » Orders continue to be placed close-in
 - » Breadth of demand expanding
 - Backlogs: Rising since September
 - Build: Build rates are following Orders higher
 - » Rising BL/BU ratios will support higher build rates
 - Retail Sales: Trending higher
 - » Have been close to two-year highs for several months
 - Inventory: Not an impediment to build
 - » Likely accretive into 2013



On Fire

TOTAL CLASS 8: N.A. NET ORDERS

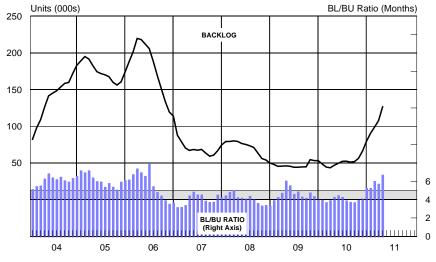
January '04 - April '11 (Not SA)



ACT Research Co., LLC: Copyright 2011

TOTAL CLASS 8: N.A. BACKLOG & BL/BU RATIO

January '04 - April '11 (Not Seasonally Adjusted)



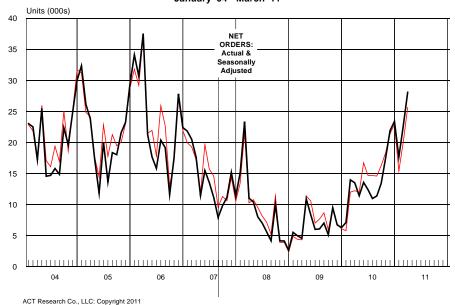
ACT Research Co., LLC: Copyright 2011



Also On Fire

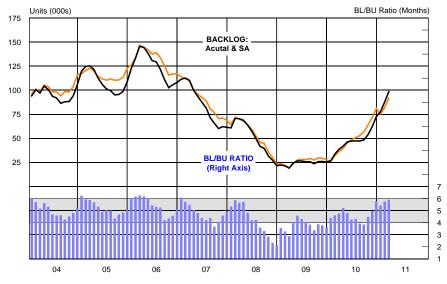
TOTAL TRAILERS: NET ORDERS

January '04 - March '11



TOTAL TRAILERS BACKLOG & BACKLOG/BUILD RATIO

January '04 - March '11

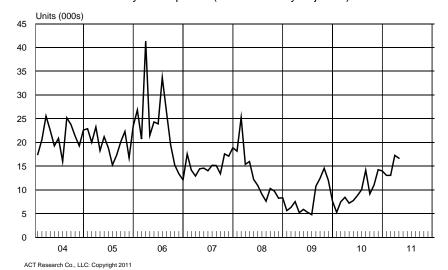




Warming Trend

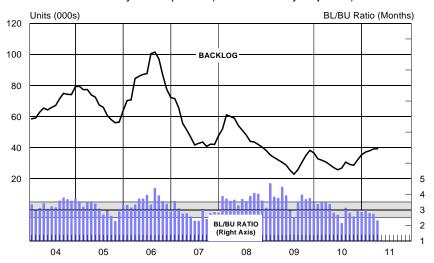
TOTAL CLASSES 5-7: N.A. NET ORDERS

January '04 - April '11 (Not Seasonally Adjusted)



TOTAL CL. 5-7: N.A. BACKLOG & BL/BU RATIO

January '04 - April '11 (Not Seasonally Adjusted)





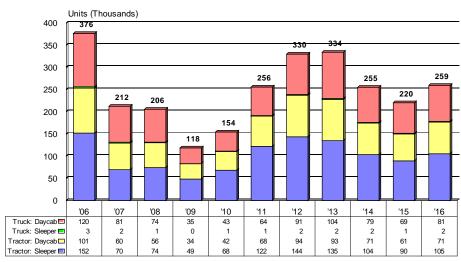
BROAD-BASED

(Data through April 2011, annualized)

Class 8 <u>Orders</u>	U.S. (000s)	Canada (000s)	Mexico (000s)	Exports (000s)	Tot NA (000s)	NA SAAR
Past 12	188.3	21.8	17.6	25.7	259.3	
Past 6	251.8	36.4	21.0	34.4	343.7	328.3
Past 3	264.6	38.4	22.4	39.8	365.2	345.2
April	348.2	47.3	19.9	42.1	457.5	444.3

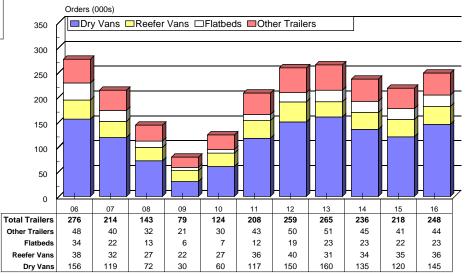


N.A. Class 8 Production



ACT Research Co., LLC: Copyright 2011

U.S. TRAILER FACTORY SHIPMENTS 2006- 2016





N.A. Classes 5-7 Order Distribution

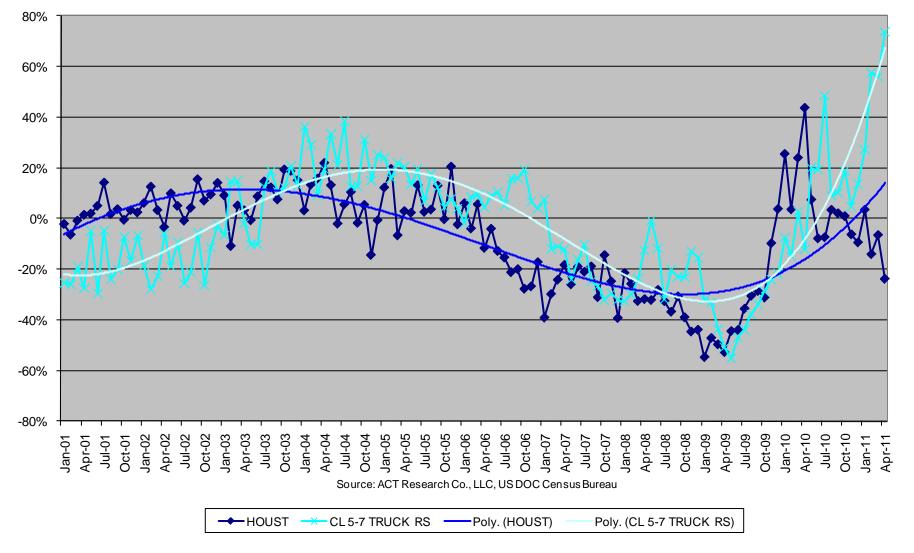
(Data through April 2011, annualized)

Classes 5-7 <u>Orders</u>	Truck (000s)	Bus (000s)	RV (000s)	Total (000s)
Past 12 Mo.	109.6	23.4	13.8	148.8
Past 6 (AR)	136.4	23.0	12.9	172.3
Past 3 (AR)	139.9	26.8	13.7	180.4
April	151.6	25.2	22.9	199.7
Apr. (SAAR)				214.9



Housing Starts vs. CI 5-7 Truck Sales

Y/Y % Change of SAAR

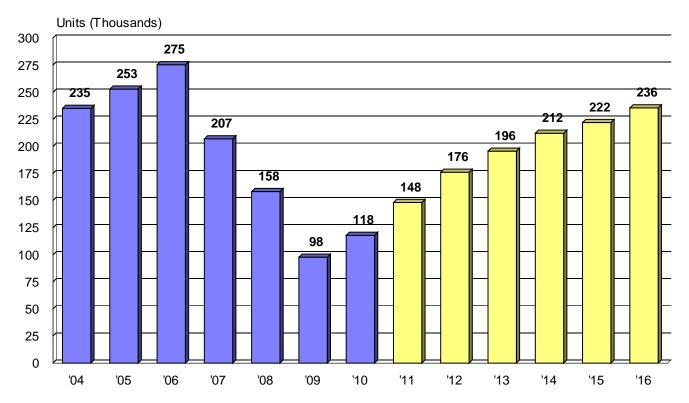




Add 25k to 2011-2013 Forecasts - Probably

N.A. Classes 5-7 Production

2004 - 2016







ACT Research Company, LLC

11545 North Marr Road Columbus, IN 47203

Phone: (812) 379-2085

Fax: (812) 378-5997

Email: trucks@actresearch.net

www.actresearch.net

