Agricultural and Construction Equipment 2010 Outlook

Federal Reserve Bank of Chicago 2009 Outlook Symposium December 4, 2009

Agenda

- Agricultural Machinery
 - Current Situation
 - Demand Factors
 - 2010 Outlook
- Construction and Mining Machinery
 - Current Situation
 - Demand Factors
 - 2010 Outlook
- Overseas Markets
- Questions and Comments

In Their Own Words

In the 3rd quarter...

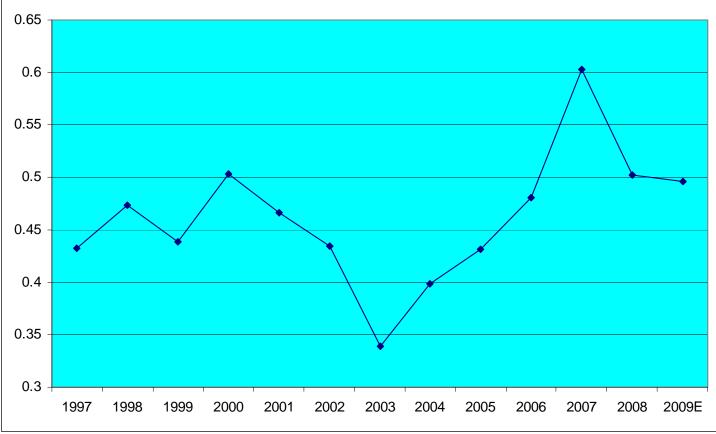
- ...our primary focus continued to be on trough management and operational execution. We lowered production as dealers continued to cut inventories, we reduced costs, maintained positive price realization, lowered inventory, delivered positive operating cash flow and improved our financial position...*Caterpillar*
- We are continuing to aggressively reduce costs as our business [2009] will be roughly half the size in terms of net sales than it was in 2008...*Terex*
- ... results were impacted by weak markets and significant production cuts aimed at reducing our company and dealer inventories...*AGCO*
- ...we saw the benefits of keeping a tight grip on production and costs. Equipment operations' inventories and receivables were significantly reduced, generating positive cash flow from operating activities...CNH

Agricultural Equipment Markets

- Slowdown
- Commodity Prices Have Weakened
- Net Cash Receipts Down
- Government Direct Payments To Continue
- Ethanol Props Up Corn Prices

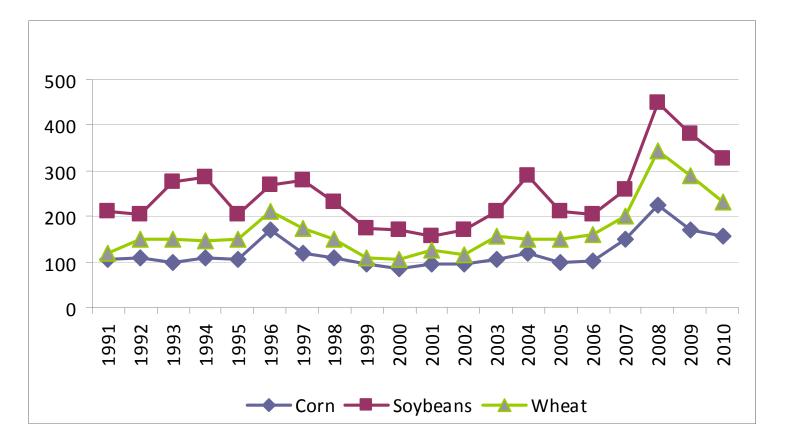


Farm Equipment Inventory-to-Sales Ratio



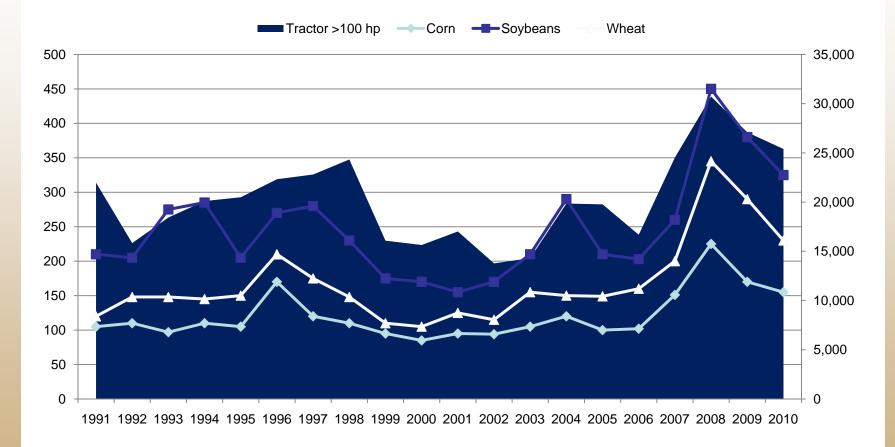
Commodity Prices

(\$ per metric ton)



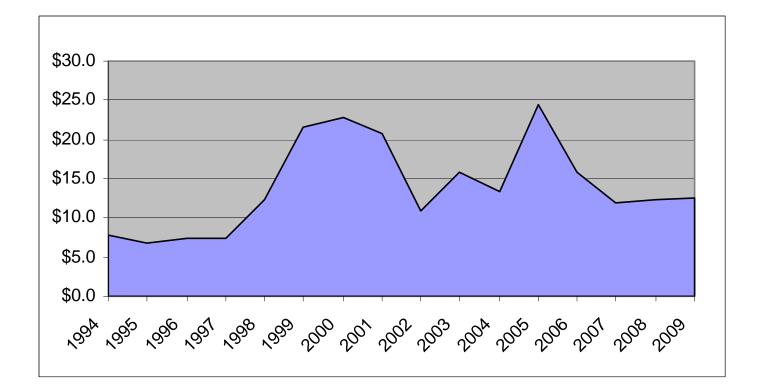
Tractors > 100 hp vs. Commodity Prices

(Dollars/Metric Ton and Units)

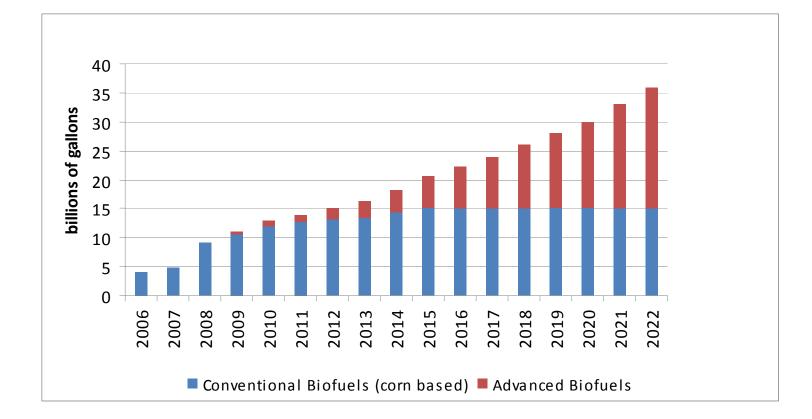


U.S. Government Payments To Farmers

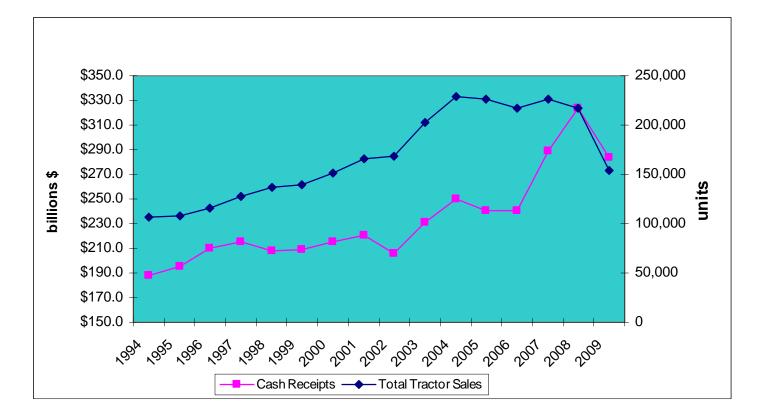
(Billions of Dollars)



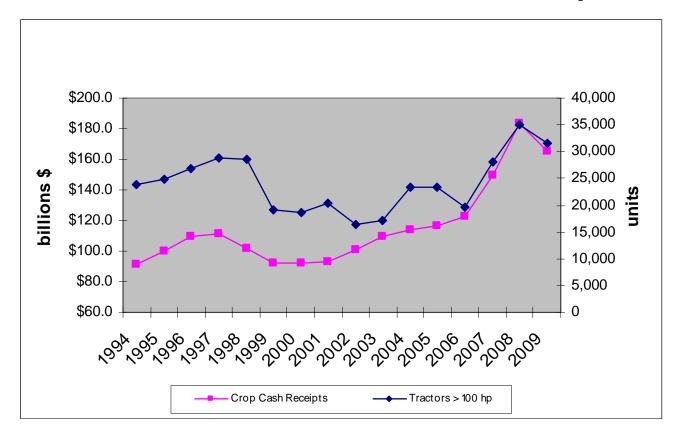
Bio Fuels



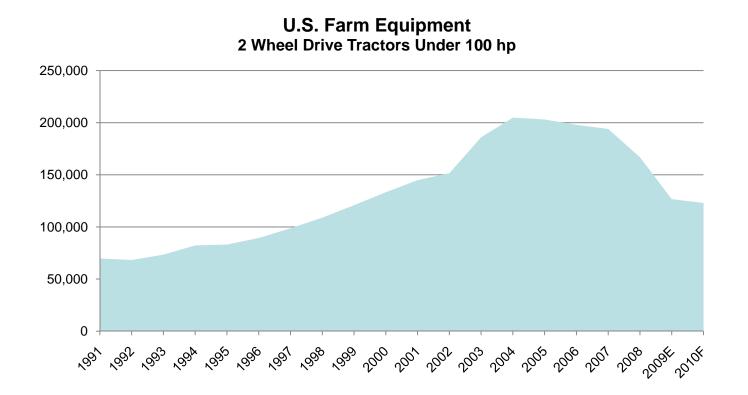
Net Farm Income vs. Total Farm Tractor Sales



Net Farm Income and Tractor Sales >100 hp

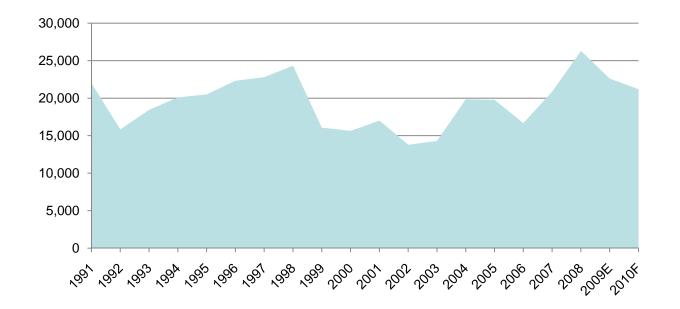


U.S. Farm Equipment Market 2 Wheel Drive Tractors Under 100 hp



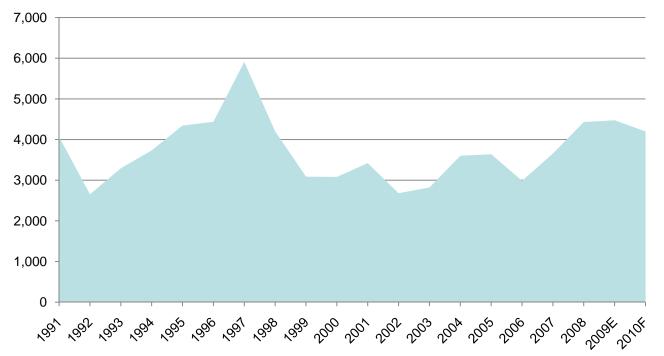
U.S. Farm Equipment Market 2 Wheel Drive Tractors over 100 HP

U.S. Farm Equipment 2 Wheel DriveTractors Over 100HP

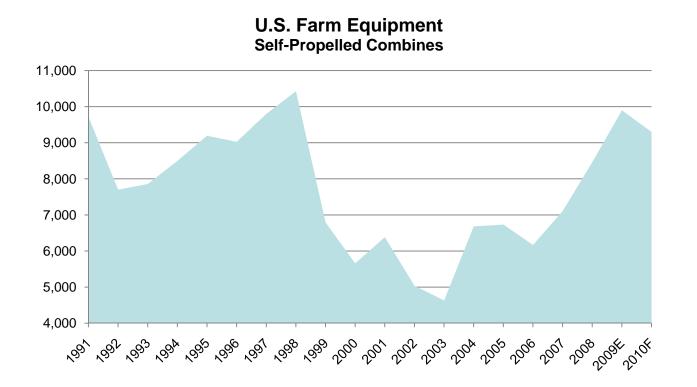


U.S. Farm Equipment Market 4-Wheel Drive Tractors

U.S. Farm Equipment 4 Wheel Drive Tractors



U.S. Farm Equipment Market Self-Propelled Combines



U.S. Agricultural Equipment Markets

	<u>2008</u>	<u>2009E</u>	<u>2010F</u>	<u>% change</u>
2 Wheel Drive Tractors				
Under 40 hp	98,976	79,181	77,000	-2.8%
40 to 100 hp	67,885	47,520	46,000	-3.2%
100 hp and over	26,291	22,610	21,200	-6.2%
Total 2 Wheel Drive	193,152	149,311	144,200	-3.4%
4 Wheel Drive Tractors	4,431	4,475	4,200	-6.2%
Total Farm Wheel Tractors	197,583	153,786	148,400	-3.5%
Combines	8,460	9,898	9,300	-6.0%

Construction And Mining Machinery Markets

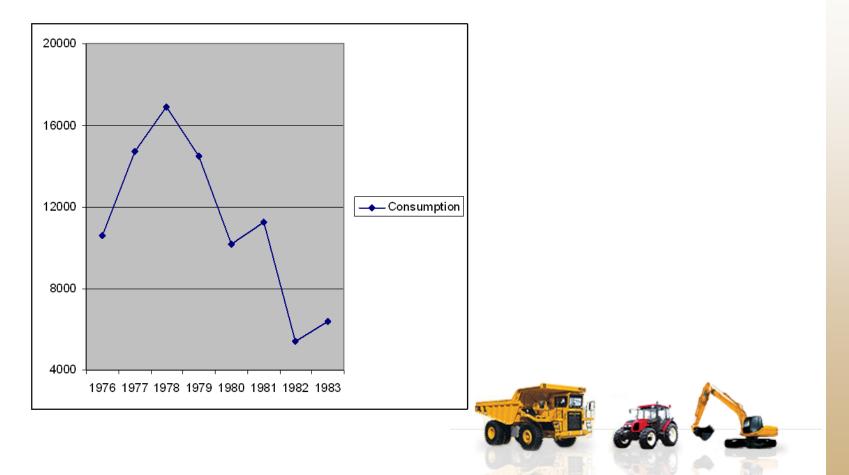


Construction and Mining Machinery Current Situation

- Housing starts at historic lows will improve
- Non-residential markets falling
- Heavy publicly funded projects up 5% to 10%
- Mining orders evaporated in 4Q08 are recovering slowly
- Commodity prices down then up, help/hinder
- Rental companies stopped buying
- Highway legislation becoming political football

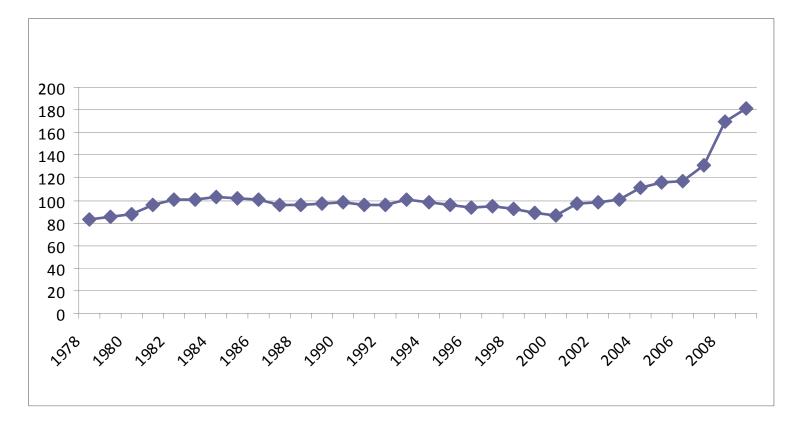
It's 1981 All Over Again!!

U.S. Bulldozer Consumption (units)

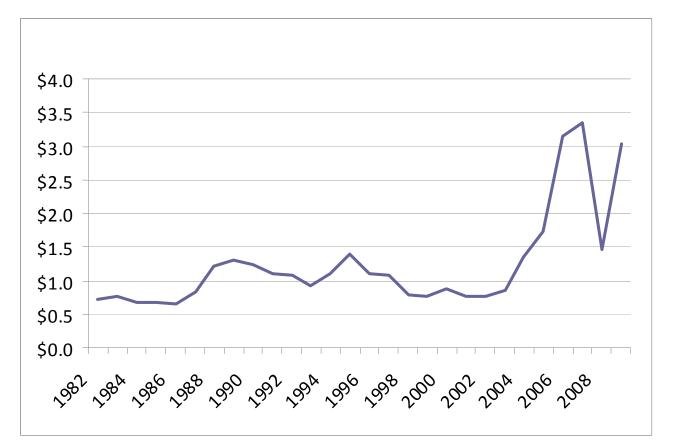


Coal Price Index

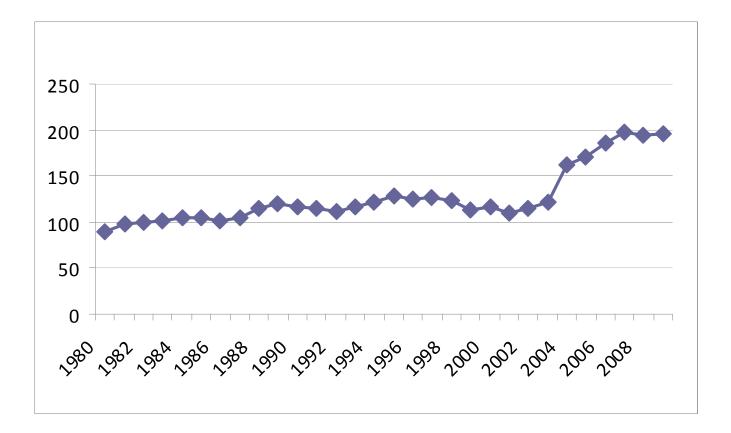
PPI 1982 = 100



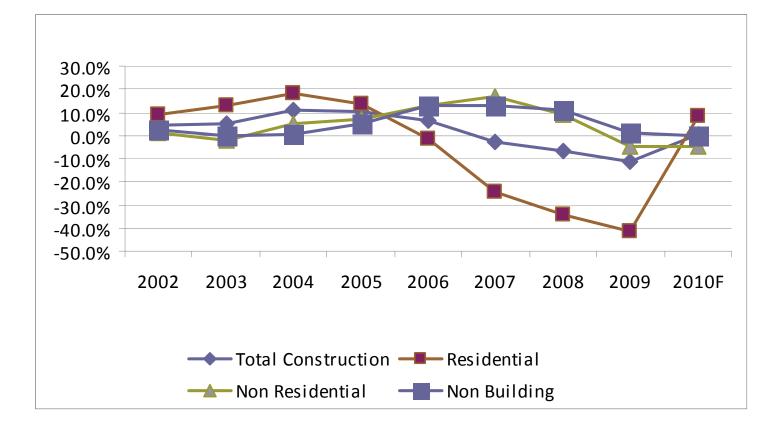
Copper Producer Price (dollars/lbs.)



Iron & Steel Price Index

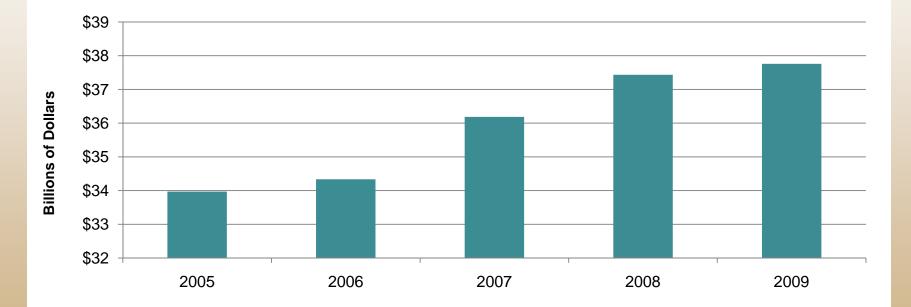


Construction Spending Rate of Change

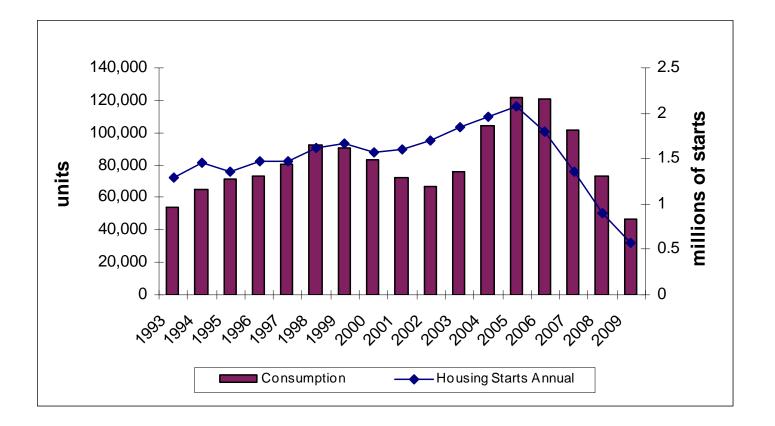


Source: Reed Construction Data

SAFETEA-LU Funding by Year (Billions of Dollars)

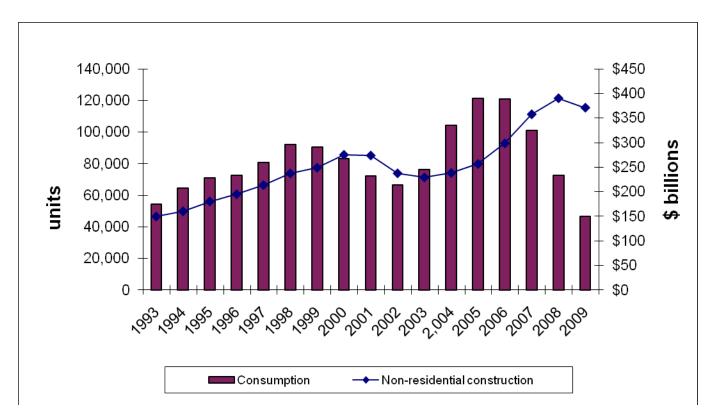


Equipment Retails vs. Housing Starts

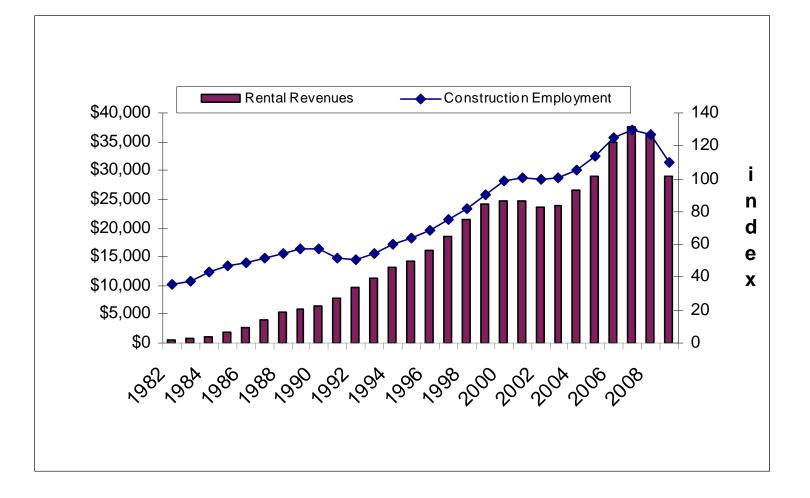


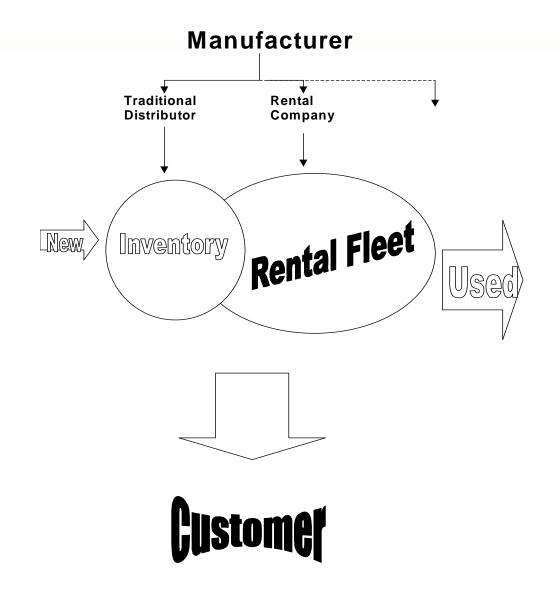
Non-Residential Construction

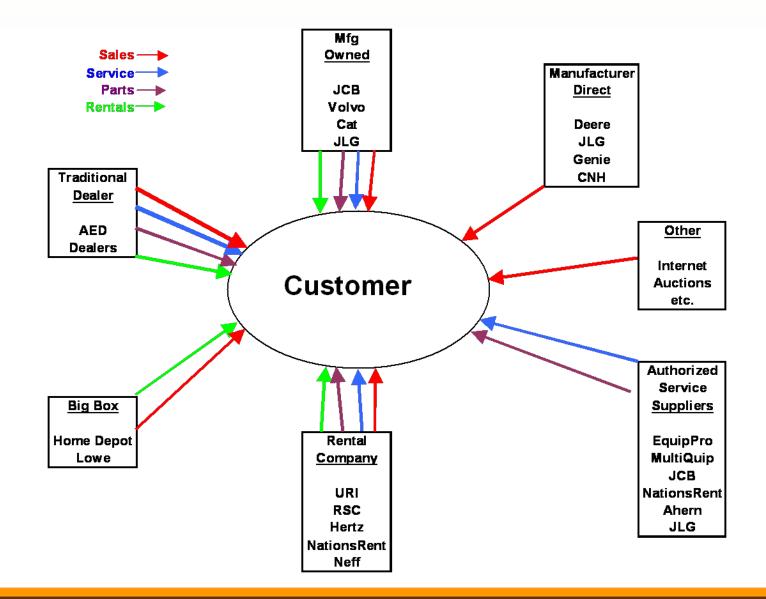
Earthmoving Equipment Consumption

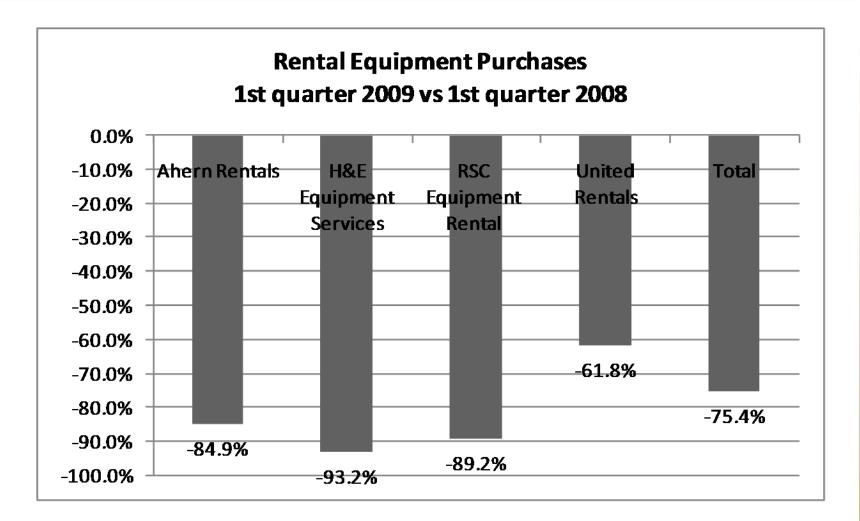


Rental Revenue vs. Construction Employment

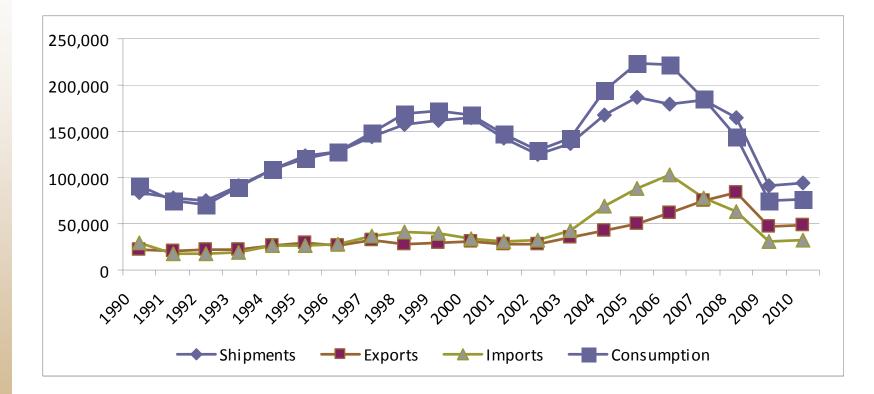








U.S. Construction Machinery Market



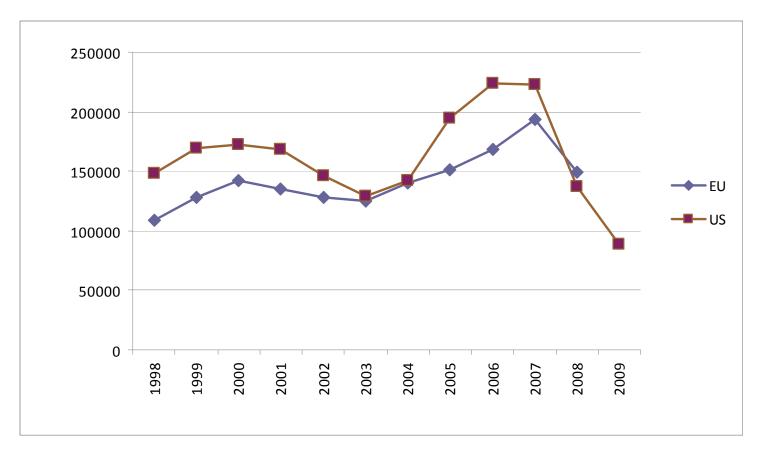
Construction Machinery Estimated U.S. Market (Units)

							% Change		% Change
<u>Product</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009 E</u>	<u>09 vs 08</u>	<u>2010 F</u>	<u>10 vs 09</u>
Asphalt Pavers	1,986	2,185	2,092	1,636	1,409	1,100	-21.9%	1,150	4.5%
Compactors	8,600	10,700	10,297	9,600	6,550	2,800	-57.3%	2,920	4.3%
Cranes	900	1,039	1,392	1,750	2,100	1,500	-28.6%	1,300	-13.3%
Crawler Tractors	13,700	16,100	16,200	12,800	9,750	5,000	-48.7%	5,100	2.0%
Hydraulic Excavators	36,000	46,000	47,500	39,000	25,750	11,000	-57.3%	11,350	3.2%
Loader Backhoes	22,000	23,500	21,000	18,000	15,500	6,600	-57.4%	6,800	3.0%
Motor Graders	3,207	3,400	3,600	3,500	2,700	1,700	-37.0%	1,800	5.9%
Haulers - Rigid	400	550	650	800	900	550	-38.9%	580	5.5%
Haulers - Articulated	2,400	3,300	3,400	3,000	1,900	800	-57.9%	800	0.0%
RT Forklifts	13,100	18,445	22,559	16,250	11,050	5,000	-54.8%	4,500	-10.0%
Rubber Tracked Loaders	14,000	18,000	21,000	19,000	15,500	9,000	-41.9%	9,300	3.3%
Skid Steer Loaders	61,000	61,200	52,500	44,500	38,000	23,000	-39.5%	23,700	3.0%
Wheel Loaders	16,700	19,100	19,400	16,000	13,430	6,900	-48.6%	7,100	2.9%
Total	193,993	223,519	221,590	185,836	144,539	74,950	-48.2%	76,400	1.9%

Chinese Construction Machinery Market Retail Sales For Seven Months Of 2009 (units)

Product	Number of Manufacturers	January thru July 2009	% chg vs. 2008
Hydraulic Excavators	23	54,593	-2.7%
Wheel Loaders	30	80,137	-33.5%
Crawler Tractors	11	4,836	-16.1%
Road Planers	11	1,783	-31.4%
Tire-Mounted Cranes	10	15,648	7.5%
Industrial Lift Trucks	-	70,883	-34.0%
Rollers	18	8,429	22.0%
Asphalt Pavers	14	928	10.6%

U.S.– Leading Indicator vs. Europe



Lessons Learned From The 1980s

- 1. This will happen again. Plan for it. It's worth the exercise.
- 2. Lean wins. Companies that kept investments to a minimum have done better. Outsourcing is not a bad word if you can control the quality.
- 3. Cash is king.
- 4. Channels-to-market must be protected at all costs. Many companies lost their entire distribution network in the 80s. Rental companies emerged to fill the gap. They control large swaths of the market.
- 5. Rentals will become the main channel-to-market for many types of equipment.
- 6. Have faith in the resilience of our country.

Manfredi & Associates, Inc.



