

# One If By Land, Two If By Sea, Will Imports Continue To Flood US Shores?

Presentation to:

A Private Client

Chicago, IL

by: Becky E. Hites, President January 12, 2015

# An Early American Battle Cry – Will the Continued "Invasion" of Foreign Imports Dominate Executive Management Strategy Discussions?





## Or Will Q1's Challenges Be More Fundamental?



## POLAR VORTEX

frigid below zero cold arctic drifting meteorologist winter freeze severe clipper snow









#### Pivotal Truths for 2015, and Some Questions

We're at the bottom of the commodity price cycle.



- Gold prices topped out in 2011.



Industrial metal prices topped out in early 2012.



Grain prices topped out in latter part of 2012.



 Oil prices were the last commodity to top out in the summer of 2014.

Source: Peter Boockvar, The Lindsey Group, Chief Market Analyst

Quantitative easing (QE) is ending.



- Stock market volatile as investors try to gauge impact.



🛮 – Will liquidity remain available?



Rates will be increasing.



### January Events to Watch



- European Central Bank (ECB) elections.
  - Manages the Euro; support through buying bonds.
  - European economies not yet "strong" or secure.
  - Not all EU country economies are "the same".
  - Desire to create stability and confidence to increase investment.
  - Eastern border (Ukraine) instability.



- Greece back in the news threatening the stability of the EU.
  - Failure to obtain parliamentary majority for new president triggers a new snap election.
  - Continued ECB funding required to keep the country in the EU.



#### Value of Euro Has Fallen Back to Support Levels; Could Result in a Lost Decade for the European Economy





### Other Geopolitical Forces





- Putin will continue to aggressively pursue country interests.
- Western sanctions will prove ineffective in changing behavior.
- Won't cause a "Western" country type response as their culture is accustomed to "harsh" conditions.
- Oil prices will remain under pressure as Saudi Arabia defends its non-US markets.
- Drop in the ruble has reduced the production cost for HRB there;
   World Steel Dynamics estimated \$290 per tonne in December.
- Will result in increased steel exports at reduced prices.

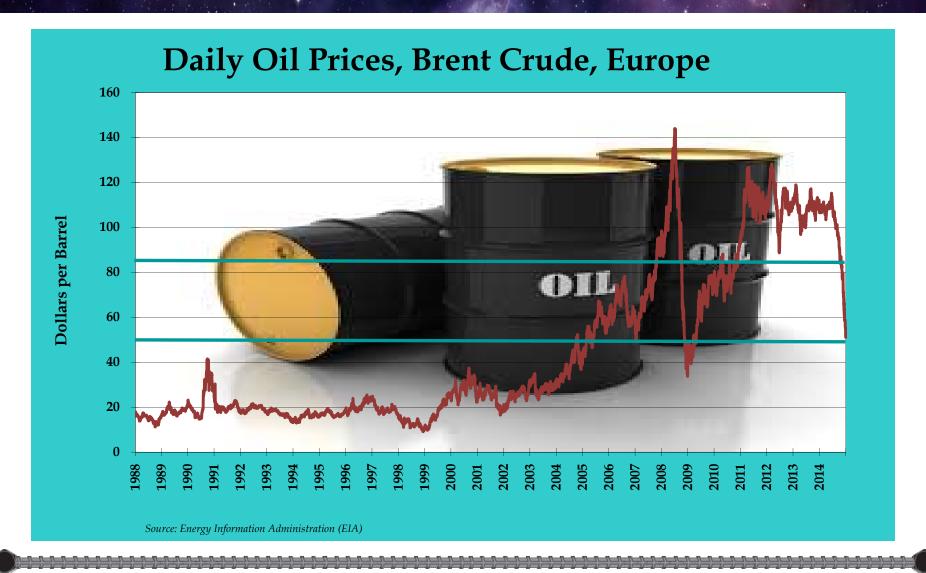


The Disintegration of the Post WWI Sykes-Picot World Allocations.

- Turmoil in the Middle East will very likely continue.
- Lower oil prices will pressure budgets.



# Oil Has Dropped Well Below the \$85 per Barrel Marginal Cost of Production; Lowest Level in Over 5 Years; A Generational Event





## Oil Prices Will Rebound Likely To The \$80 Per Barrel Level, But Probably Not This Year

- USA production is up 800K barrels per day (bpd), Iraq is up 700K bbd and Libya is down 450K bpd, for a net increase of 1050K bpd. Plus, Russia is exporting more oil. Demand is up 900K bpd.
- Libya would need to stop production completely (350K bpd now) for the world to be in balance
- US producers will get better at getting oil out of the ground.
- Gulf of Mexico 1.5 mm going to 1.9 mm. Lots of new infrastructure.
- Petrobras out of money in Brazil.
- Oil (production/exploration?) being cut in Alaska.
- Will take 2-3 years for the Saudis to knock out excess production (mainly Russia). "They have to beat the competition, basically Russia, into submission. We are not here yet so I think the pain will continue for a longer time." Oppenheimer's Fadel Gheit

Source: Various experts, Squawk Box, Squawk on the Street



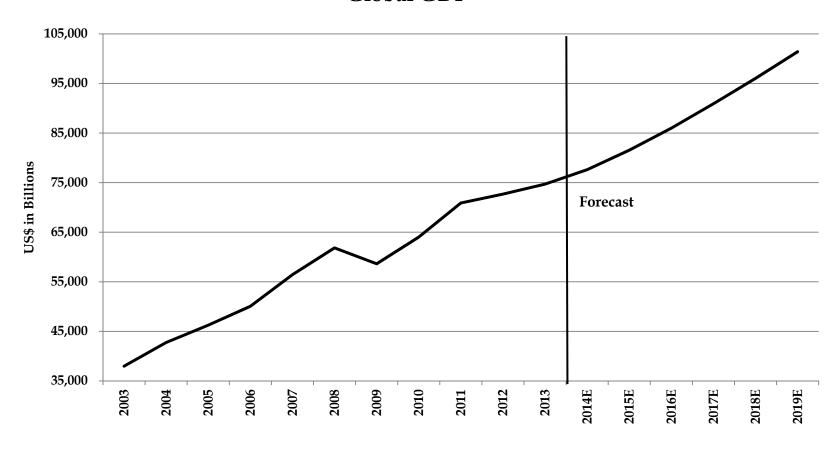
# 2015 Global Economic Outlook - Modest Growth Expected; But Not For All Countries

- Global growth at 3.3% in 2014 and 3.8% in 2015. *International Monetary Fund, October 7, 2014*
- Our expectation is a better year for 2015 for the global economy, although there is quite a lot of divergence between the places that are performing well, and the places that still have more problems. Jan Hatzius, Chief Economist, Goldman Sachs
- China is accelerating 300 infrastructure projects valued at 7 trillion yuan (\$1.1 trillion) this year as policy makers seek to shore up growth that's in danger of slipping below 7%. *Bloomberg, January 6, 2015*
- USA could be the only country with an accelerating economic growth rate in 2015. *Squawk Box, January 7, 2015*



## IMF GDP Forecasting Continued Strong Growth

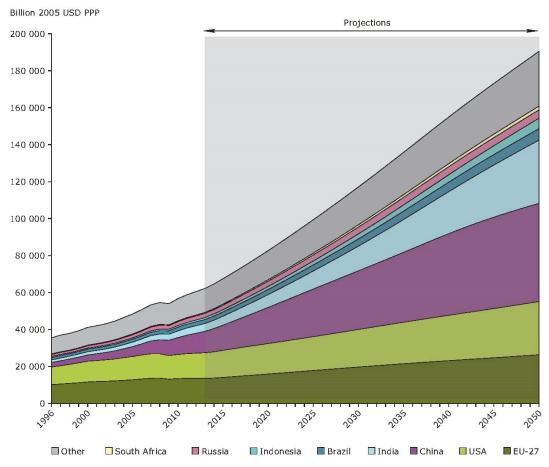
#### Global GDP



Source: IMF's World Economic Outlook (WEO) Database



# OECD Long-Term Economic Growth Forecast To Triple by 2050



Note:

Gross domestic product expressed in billion 2005 USD at purchasing power parity. The EU figure comprises the aggregate economic output of EU Member States that are also members of the OECD. Those states together accounted for approximately 97 % of EU-28 GDP in 2012.

Source: OECD, 2013a.

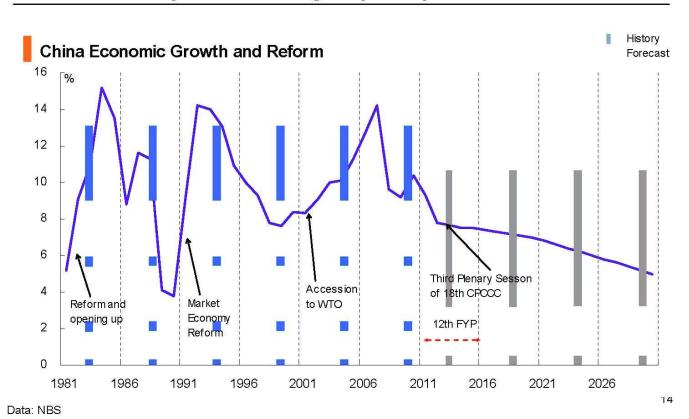
Source: European Environment Agency "Assessment of Global Megatrends - An Update Global Megatrnd 5: Continued Economic Growth



# China's Third Plenary Session is Targeting Slower Growth And Hoping to Avoid a Hard Landing



#### China Economy Soft-landing Hopefully



Source: JiangLi, BaoSteel Marketing Department, AISTech 2014, May 2014



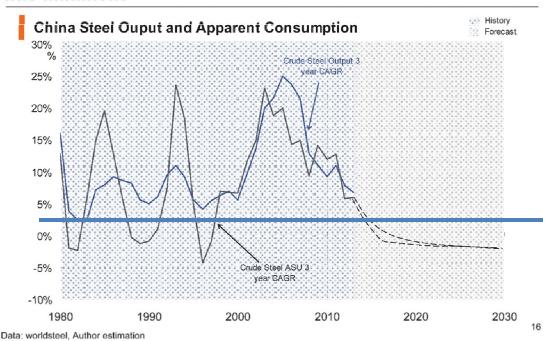
# China Steel Production Growth Continues into 2015, But at a Much Lower Rate

CISA's unpublished forecast for 2015 is 834 million tonnes, which would be down from 2014's 851 million tonnes. Steel-Insights is forecasting a 2% growth rate to 873 million tonnes.



#### **Market Demand Plateau**

#### ...is imminent



Source: JiangLi, BaoSteel Marketing Department, AlSTech 2014, May 2014



### Chinese Steel Industry Will Have Less Support And Resources

- As a part of the shift away from "supporting" growth in the steel industry:
  - Permits for new steel facility construction have become more difficult to get.
  - New emission reduction environmental regulations have required closure of "old, outdated" facilities.
  - Previously non-existent or minimal financing costs are now being imposed on both steel producers and steel traders (many thousands have left the industry as a result).
  - Export tax rebates being pared and/or eliminated.
- Will cut 27 million tonnes of steelmaking capacity in 2014, but started construction of 30 million tonnes of new capacity in 2013, so still a net capacity increase for 2014.
- Central government has established to the state of the st
- Arguable if they'll be able to achieve these targets, but if any eccan do it, the Chinese can because of their command structure.



#### Chinese Steel Industry Has Competitive Challenges

- The Chinese mills are not low cost producers but are in the middle to the high end of the cost curve.
- The Chinese steel industry last made money in 2011.
- At AISTech 2014, a speaker from a leading Chinese steelmaker predicted that the "Chinese steel industry has just entered the early winter, and is yet to face its worst time ever."

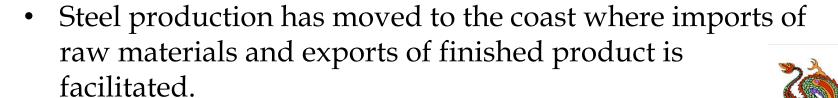






# Local Chinese Provincial Governments Motivated By Revenues and Jobs to Keep Steel Industry Production High

- Offset somewhat by pollution issues from coal-fired electricity plants.
- Press is reporting that by 2020 in Beijing, the government is targeting the elimination of coal-fired electricity generation.



• Hebei Steel has announced plans to move 5 million tonnes of production to South Africa. The province has targeted 20 million tonnes to move off-shore, which will reduce pollution but keep the tax revenue in the province. West is skeptical about how successful these efforts will be. Hebei cut 15 mm tonnes of capacity in 2014.



# China Net Exports at 47 Million Tonnes in 2013; Will Likely be 76 Million Tonnes for 2014; Don't Expect 2015 Exports to be Higher and Could Be Lower

#### **China Steel Net Exports**

(million tonnes)

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014e
China												
Imports	43.2	33.2	27.3	19.1	17.2	15.6	22.4	17.2	16.3	14.2	14.8	14.4
Exports	8.2	20.1	27.4	51.7	66.4	56.3	24.0	41.6	47.9	54.8	61.5	90.5
Net Exports	(35.0)	(13.1)	0.1	32.6	49.2	40.7	1.6	24.5	31.6	40.6	46.8	76.1
Imports Long Products	2.8	2.8	2.3	2.0	1.6	1.5	1.7	2.0	1.8	1.5	1.7	
<b>Exports Long Products</b>	3.1	5.7	7.7	15.1	23.6	18.5	5.5	9.2	11.6	17.6	23.5	1000
Net Exports Long	0.4	2.8	5.5	13.1	21.9	17.0	3.8	7.2	9.8	16.0	21.8	
											- 1	W. C.
Imports Flat Products	33.3	25.1	22.5	15.5	14.3	12.7	15.3	13.9	13.2	11.7	11.9	
<b>Exports Flat Products</b>	1.8	5.8	8.5	20.4	28.3	28.8	11.8	24.8	26.6	27.0	27.6	3
Net Exports Flat	(31.4)	(19.3)	(14.0)	4.8	14.0	16.1	(3.4)	10.9	13.4	15.3	15.8	
Imports Tubulars	1.1	1.3	1.1	1.0	0.7	1.0	0.7	0.5	0.6	0.5	0.5	
Exports Tubulars	1.4	2.1	3.5	6.5	7.3	7.2	6.3	7.3	9.4	9.9	10.1	
Net Exports Tubulars	0.3	0.7	2.4	5.5	6.6	6.2	5.6	6.7	8.8	9.5	9.6	

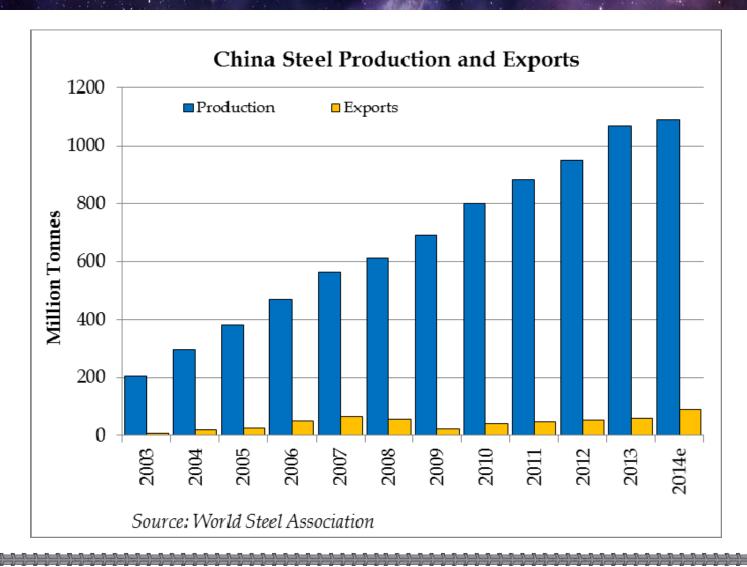
Note: 2014 estimated based on reported results through November.

Source: World Steel Association, World Steel Dynamics, SBB Platts and Steel-Insights, LLC estimates





# China Exporting 9.3% of Steel Production in 2014, Compared to the USA at 8.9%



# Global Crude Steel Production Up 2% in 2015; Higher Growth from China, India, South Korea, Russia, Turkey & the USA

Crude Steel Production by Region (million tonnes)												
	2000	2005	2010	2011	2012	2013	2014e	2015e	2013-14	2014-15		
China	128.5	355.8	638.7	702.0	724.7	822.0	851.5	872.8	3.6%	2.5%		
Japan	106.4	112.5	109.6	107.6	107.2	110.6	110.8	111.2	0.2%	0.3%		
India	26.9	45.8	69.0	73.5	77.6	81.2	83.1	85.6	2.3%	3.0%		
South Korea	43.1	47.8	58.9	68.5	69.1	66.0	71.2	74.8	7.9%	5.0%		
Other Asia	26.9	37.3	41.4	42.9	41.2	42.3	42.1	42.4	-0.4%	0.8%		
EU-27	193.4	195.6	172.8	177.7	168.6	167.0	172.3	174.4	3.2%	1.2%		
Russia	59.1	66.1	66.9	68.9	70.4	69.4	70.6	74.2	1.8%	5.0%		
Ukraine	31.8	38.6	33.4	35.3	33.0	32.8	27.1	23.0	<i>-</i> 17.5%	<b>-15.0</b> %		
Other CIS	7.6	8.4	7.8	8.5	7.6	6.5	7.4	7.7	13.3%	4.4%		
Turkey	14.3	21.0	29.1	34.1	35.9	34.7	34.0	35.0	<b>-1.8</b> %	3.0%		
Other Europe	109.2	138.0	134.1	143.3	143.3	140.9	136.1	136.6	-3.4%	0.4%		
NAFTA	135.4	127.6	111.6	118.7	121.6	119.3	121.5	124.5	1.9%	2.5%		
USA	101.8	94.9	80.5	86.4	88.7	87.0	88.2	90.4	1.4%	2.5%		
South America	39.1	45.3	43.9	48.2	46.4	46.0	45.4	44.4	-1.3%	<b>-2.2</b> %		
Middle East	10.8	15.3	20.0	23.0	24.7	25.9	28.1	28.8	8.7%	2.2%		
Africa	13.8	18.0	16.6	15.7	15.3	15.8	15.8	15.8	0.2%	-0.1%		
Oceania	7.8	8.6	8.1	7.2	5.8	4.6	4.5	4.4	-2.4%	<b>-2.5</b> %		
Total Global	849	1,156	1,433	1,537	1,553	1,648	1,690	1,723	2.5%	2.0%		
Developed World	544	574	528	547	541	538	541	547	0.6%	1.1%		
Developing World	305	582	905	990	1,012	1,110	1,149	1,177	3.5%	2.4%		
Developed % of Total	64%	50%	37%	36%	35%	33%	32%	32%				
Developing % of Total	36%	50%	63%	64%	65%	67%	68%	68%				
Source: World Steel Association, China Iron and Steel Association & Steel-Insights, LLC estimates												



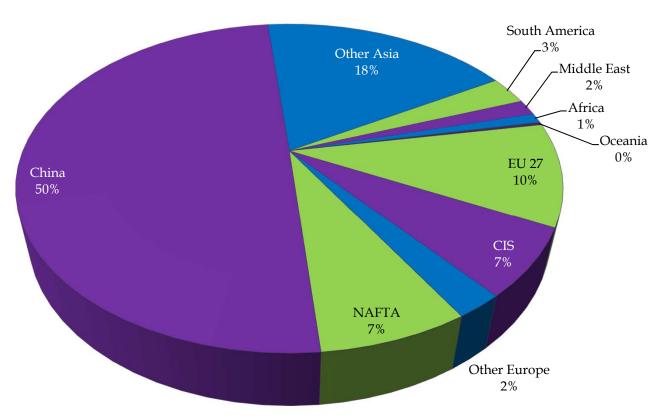
### Global Steel Overcapacity Will Remain Significant

- One retired US steel executive has estimated that China alone has 250 million tonnes of overcapacity.
- The world economies are not longer synchronized, which means that weakness can move from market to market, and supply will chase demand.
- Turkey has "swing" capacity that comes in and out of the market depending on whether there's a large enough metal margin to cover the purchase cost of raw materials and provide a profit. Mainly a factor in billet and long products at the low end of the food chain.
- South Korea has added significant capacity looking for a market.



# Colonial Model of Supply No Longer Holds True as Half of Global Crude Steel Production is in the Developing World Countries

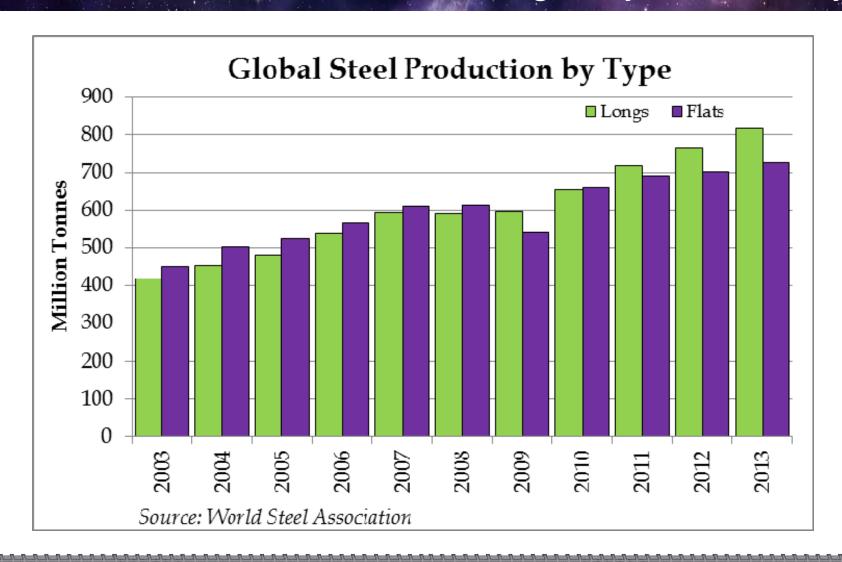
#### **Crude Steel Production by Region - 2013**



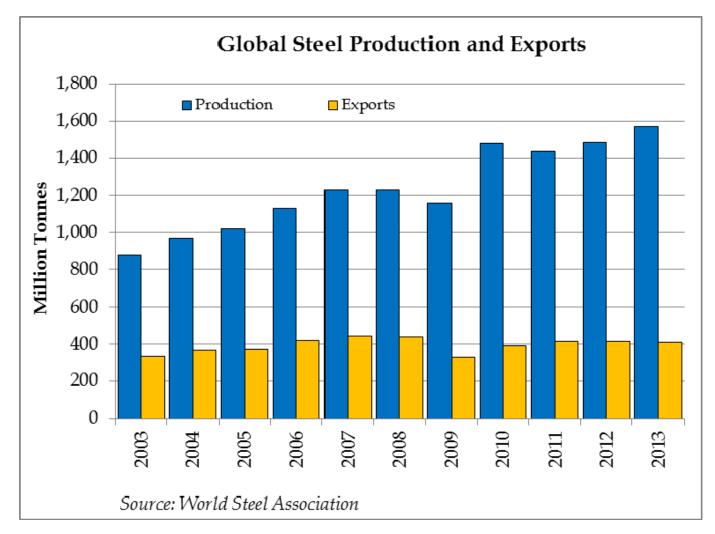
Source: World Steel Association



# Long Steel Production Growing While Flat Steel Production Increasing Only Moderately



# Global Exports Remained Essentially Flat From 2011 to 2013; US Dollar Strength Will Bring More Tonnes Into The USA – Expect Continued Trade Case Activity Throughout 2015





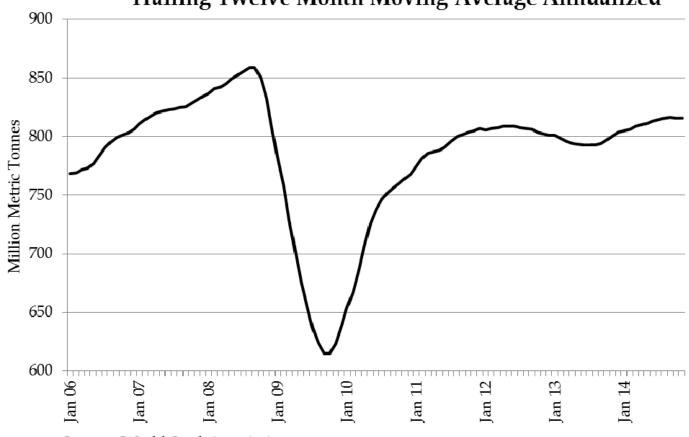
## Global Consumption Grew by 6.6% in 2013

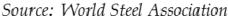




### 2014 Non-Chinese Steel Production Up Modestly

#### World Ex China Monthly Crude Steel Production Trailing Twelve Month Moving Average Annualized





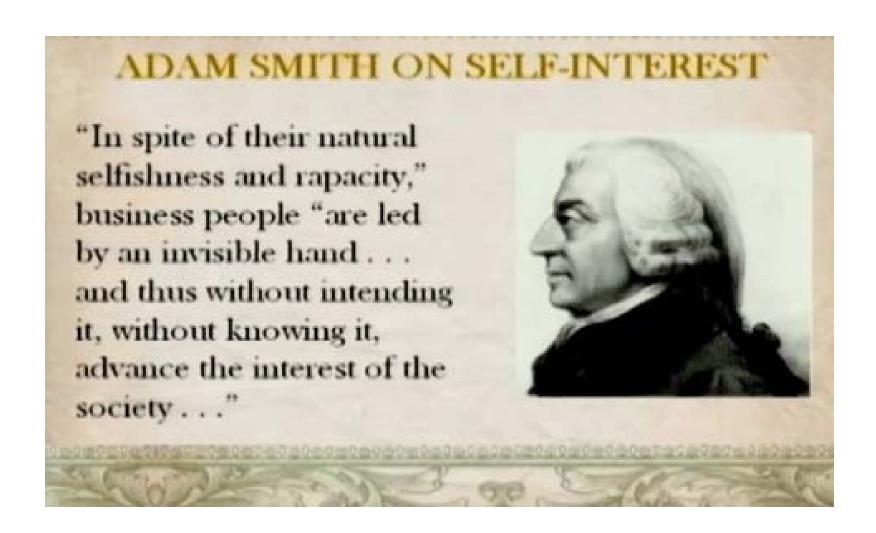


# Pricing Power Has Shifted Away from the Mills Due to Oversupply, Not Lack of Demand

- Falling raw material price environment likely to continue throughout 2015.
- Significant global crude steelmaking overcapacity.
- Strong US dollar has lowered the cost of production in several countries, including Russia.
- New capacity in countries willing to be aggressive in "buying into" new markets.
- Recent trader quote to a large USA service center company; "Name your price; whatever you want to pay, I can make money on."



#### Adam Smith's Invisible Hand Is Alive and Well

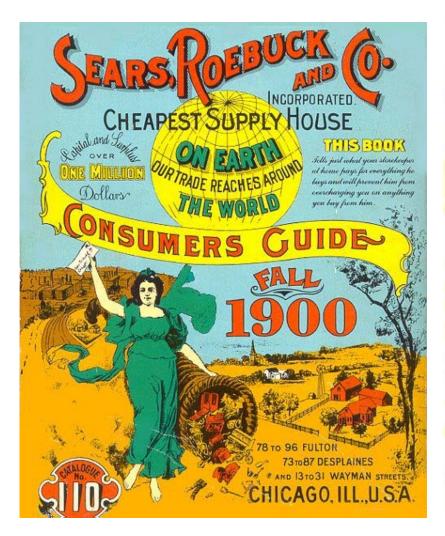


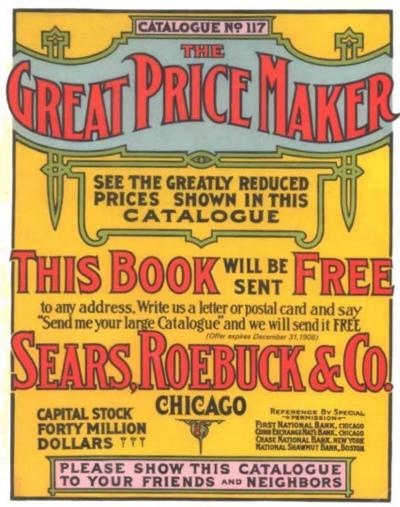
# More Challenging to Manage Business in a Falling Price Environment, But Necessary For Long-Term Health in a Capitalistic System

- Keeps steel competitive with alternative materials.
- Keeps the US steel industry "young". Requires continual investment and improvement to stay relevant and cost competitive.
- Post WWII, the USA had new equipment, a growing global economy, and most of the global competition was distracted with rebuilding their societies.
- USA culture historically wins by "being better" and overcoming obstacles, not from the lack of a challenge. "Bring it on!"
- High cost, mis-managed companies need to reform, or be eliminated.



# The World Changes; The Only Way to "Win" Is To Anticipate and Adapt - Critical Resources of the Past Can Become Irrelevant to the Future







### US Steel Producers Won't Get Any Near-Term Currency Help



### USA Economy Doing Better Than Expected

- Q3 growth rate of 5%; "real" in 2009\$ 2.7%.
- 2015 forecast is for 2.8% growth.
- Falling energy prices will increase consumer disposable income.
- There's hope for a break to the stalemate in Washington with the new Congress.
- Lower fuel prices open the door to the possibility of increased consumption taxes to fund the much needed transportation bill to rebuild deteriorating infrastructure.



# USA To Be Energy Independent Again – Accelerating the Return of Manufacturing

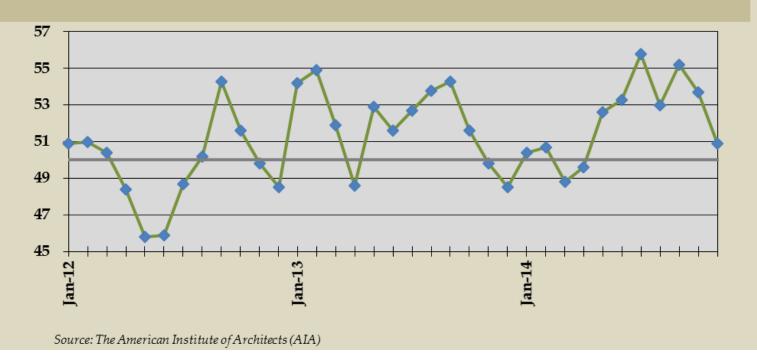
- The United States is well on its way to becoming largely self-sufficient in oil and gas and could overtake Saudi Arabia as the world's biggest supplier of hydrocarbons by 2020. Even if U.S. energy independence is still some time away, this is nonetheless a stunning turnaround from decades of U.S. dependence on imported energy sources and all the attendant geopolitical concerns. *The German Marshall Fund's Brussels Forum*
- I think it is realistic that the U.S. could be energy self-sufficient, energy secure, by the end of this decade. We're already the world's largest natural gas producer (and) last year crude oil production surpassed levels not seen since the 1980s. *Rex Tillerson*, *CEO*, *Exxon Mobil. CNBC Interview*, *January* 2014
- The U.S. is expected to surpass Saudi Arabia to become the world's top oil producer by 2016, the International Energy Agency (IEA) predicted in November, driven by a boom in the nation's shale oil output. *Rex Tillerson, CEO, Exxon Mobil. CNBC Interview, January* 2014
- The U.S. will be able to provide for all its own energy needs by 2035 as output of shale oil and gas accelerates and demand growth slows. The country, which became the world's biggest producer of liquid energy last year, will produce more gas and coal than it consumes. *BP Energy Outlook* 2035, *January* 2014.



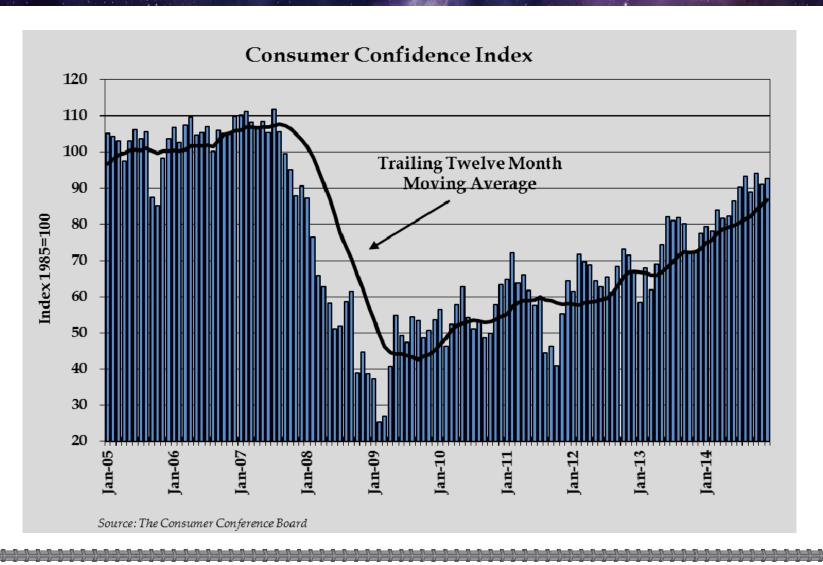
# Architecture Billings Index Above the Increased Activity Demarcation for the Past Seven Months; and in 9 of the Past 11 Months, and 18 of the Past 24 Months

#### **Architectural Billings Index**

The ABI serves as a leading economic indicator for non-residential construction activity about a year out. If an equal share of firms report an increase as report a decrease, the score for that month will be 50. A score above 50 indicates that firms in aggregate are reporting an increase in activity that month compared to the previous month, while a score below 50 indicates that firms are reporting a decrease in activity.

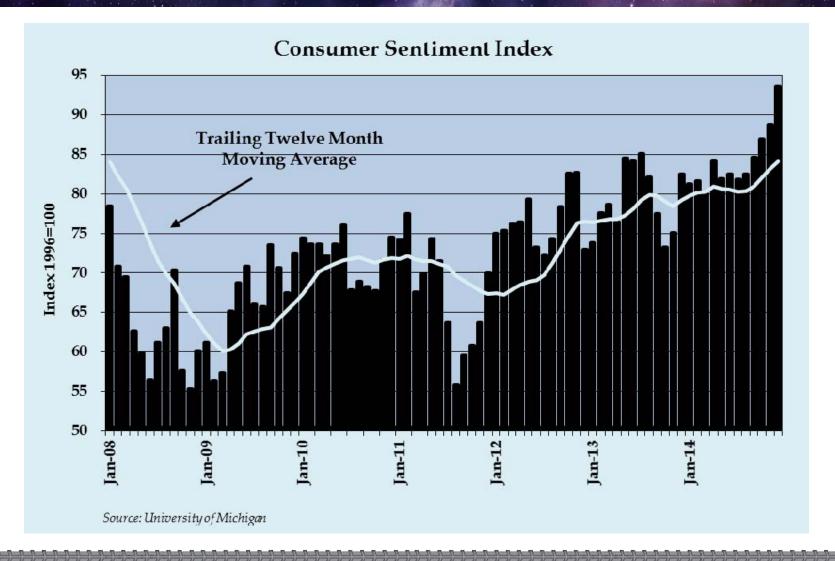


## Consumer Confidence at a 5 Year High



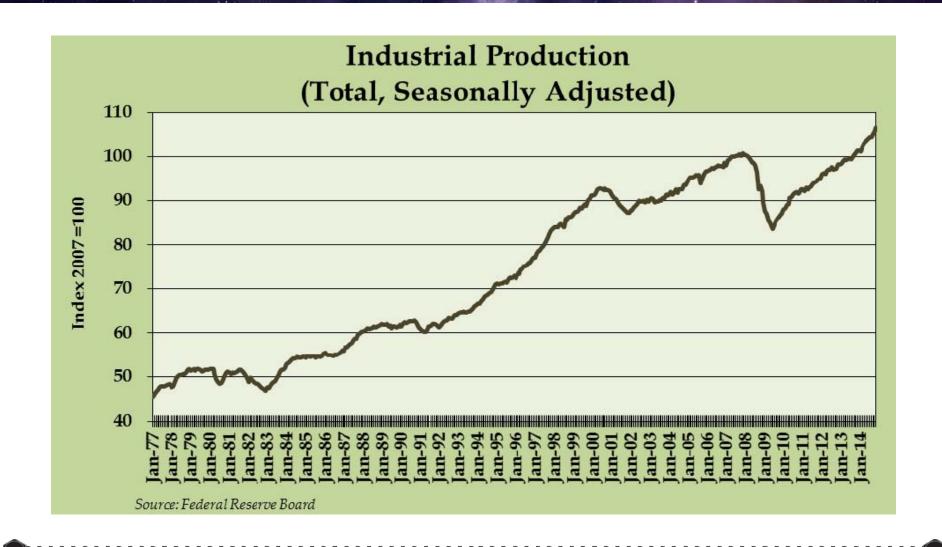


## Michigan's Consumer Sentiment Index Has Surged in Recent Months





### Industrial Production Continues to Set New Highs



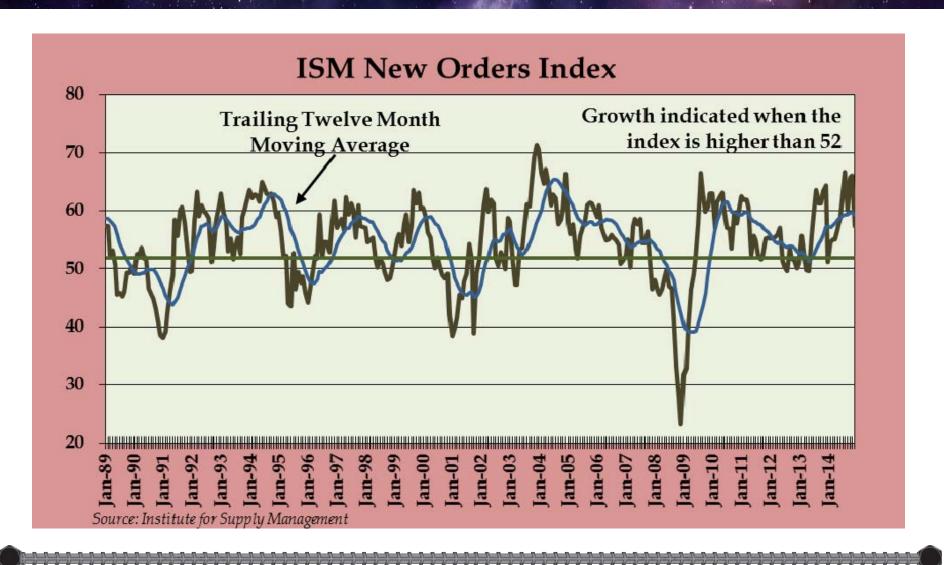


## Non-Defense Capital Goods Orders Have Been Running at \$70 Billion a Month





### ISM New Orders Index Indicating Growth Since Feb 2014



### Chicago Purchasing Managers Index Turned Down Two Months Ago On A Trailing Twelve Month Moving Average Basis; At 60.8 Maybe a Warning Signal of Near Term Weakness

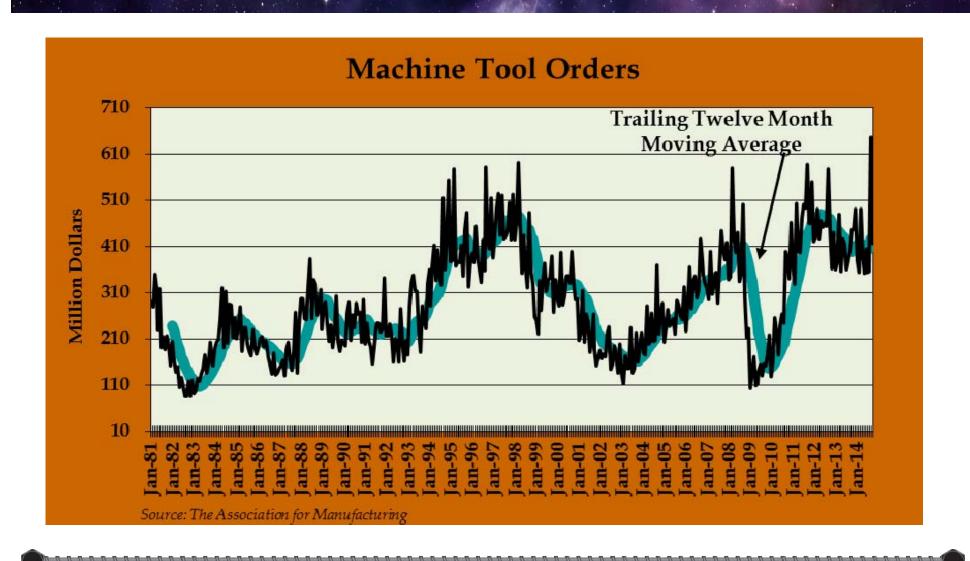




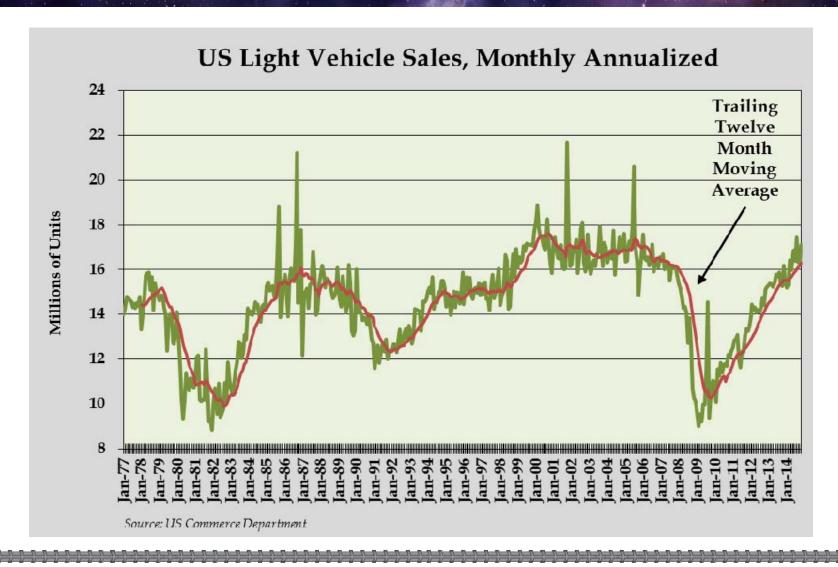
## Manufacturing Sales Gaining Nicely With Reshoring



## Machine Tool Orders Tracking the Mid-1990s Level

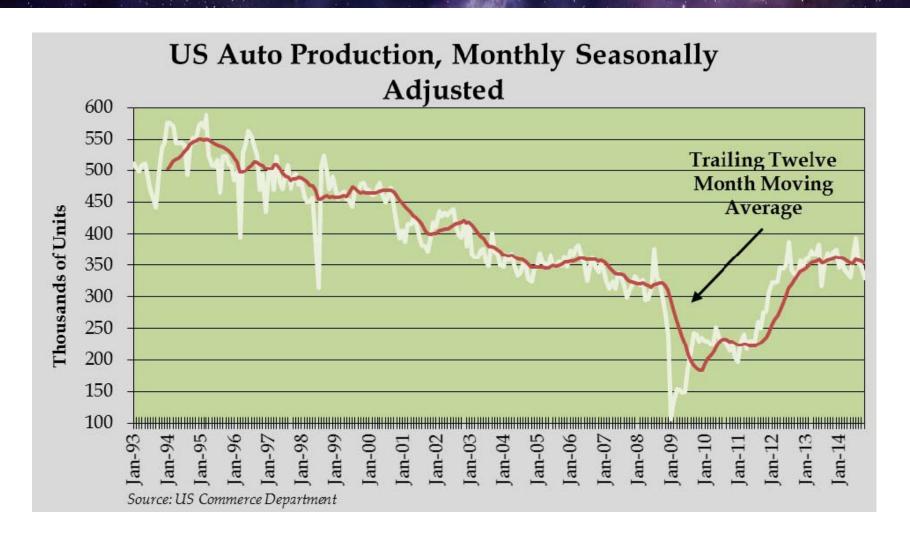


## North American Auto Sales Expected to Reach 16.5 Million Units in 2014 and Remain Strong in 2015





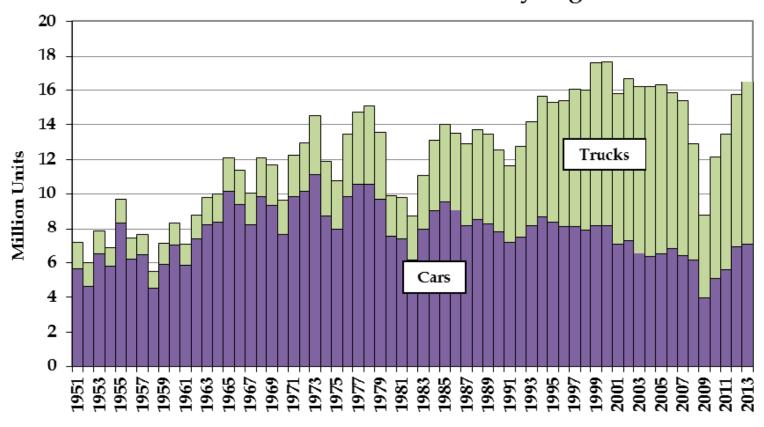
## US Auto Production Has Recovered to Pre-2008 Levels, But Not Peak Early-1990 Levels





# Trucks Represent 50% of the Market Since 1997; Hit 60% in 2004-05; Were 57% in 2013

#### North American Automotive Sales By Segment



Source: Ward's Automotive Statistics



## CAFÉ Weight Targets Granted Aluminum a Big Victory for 2015 and Beyond

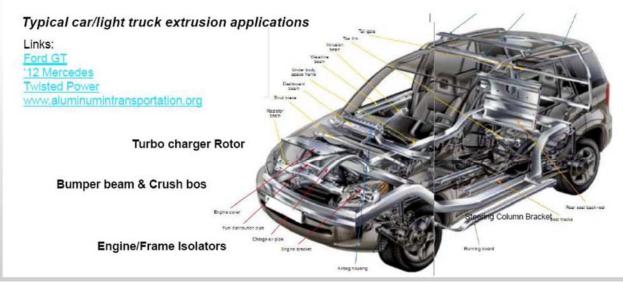
- In it's October 2014 report "AutoBodyWarfare: Aluminum Attack" World Steel Dynamics estimates that aluminum sheet deliveries to US automakers will increase from half a million pounds to over 2.5 million pounds in 2018 for use in the Ford F-150.
- WSD predicts that trucks using steel will be able to easily meet CAFÉ standards until 2021, when presumably improvements in steel product performance will make the additional required lightweighting achievable.
- Aluminum is more expensive, and doesn't deliver as much fuel savings benefit as one might expect.
- Good money after bad? Ford originally decided in 2009 to increase aluminum use in the F-150.
- Steel remains the metal of choice for strength, in our opinion, and in the opinion of many experts.



## One Forecast Has Pounds Used Per Auto Growing from 343 in 2012 to an Estimated 550 in 2025

### Transportation

A recent study by <u>Ducker Worldwide</u> indicates the average car or light truck produced in North America in 2012 will contain 343 pounds of aluminum, 9% of average curb weight. 27 pounds will be aluminum extrusion. As auto makers continue to improve fuel efficiency, Ducker expects overall aluminum content to increase to 550 pounds, and extrusion content to grow to 48 pounds, by 2025. But extrusion plays a big role in transportation beyond autos (more)



Source: SBB Platts How the Aluminum Market Works, Scott Stewart, Black Hawk Resources



## Current Automotive Parts Using Aluminum

#### **Automotive**



Source: SBB Platts How the Aluminum Market Works, Scott Stewart, Black Hawk Resources



## Targeted Automotive Applications for Aluminum

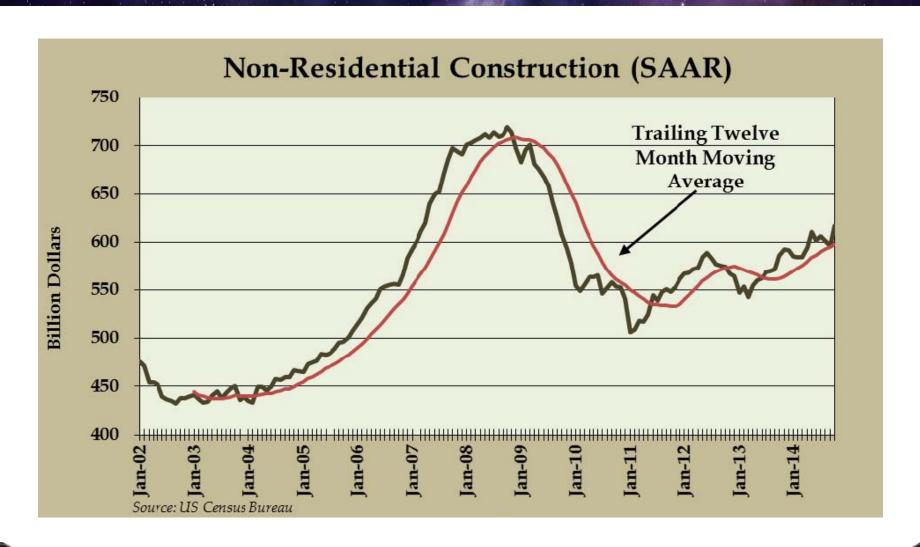
#### **Automotive**



Source: SBB Platts How the Aluminum Market Works, Scott Stewart, Black Hawk Resources



# Non-Residential Construction Around \$600 Billion Per Month in Clear Up Trend, But 15% Below Peak

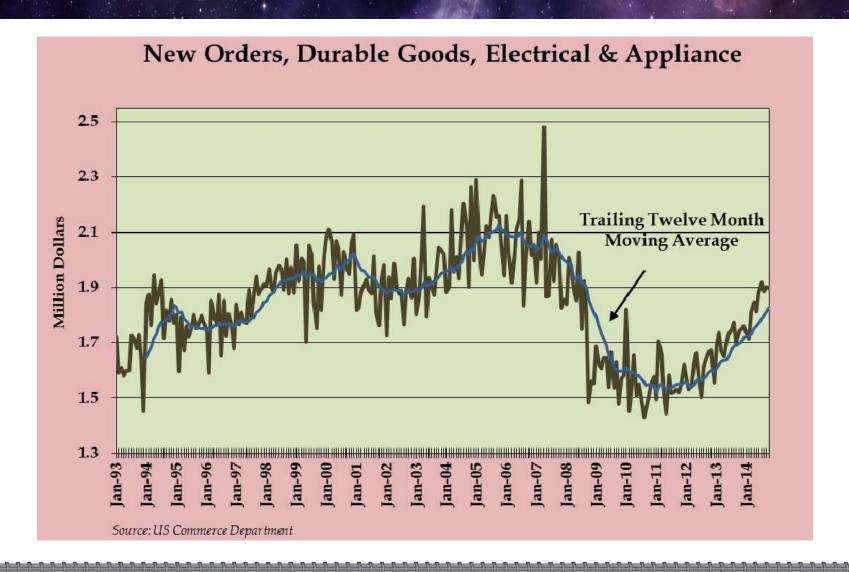




# Housing Has Started To Recover; Lower Fuel Costs Could Empower Consumer Spending Here

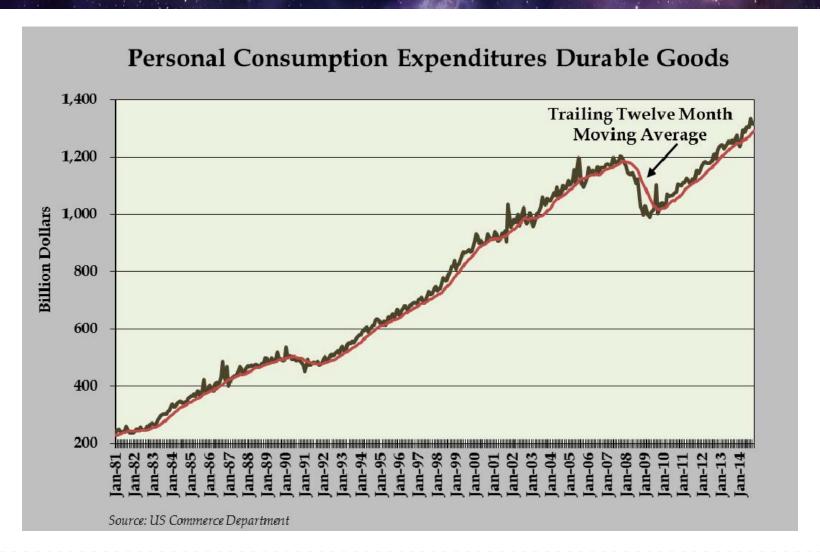


## Appliance Purchases Follow Housing



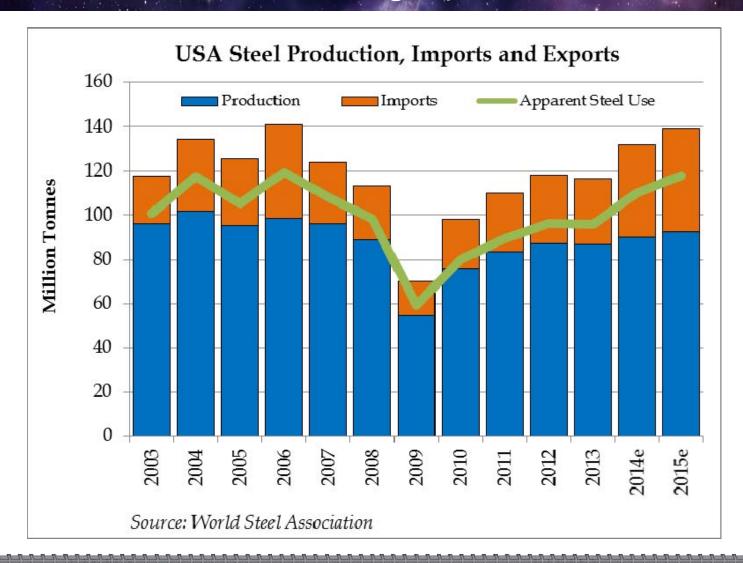


# Personal Consumption Expenditures on Durable Goods Setting 30 Year Highs





# USA Steel Consumption Up An Estimated 12.5% in 2014; Forecasting Up 6.7% in 2015





# USA Steel Shipments Highest Since 2008 and USA Steel Consumption Highest Since 2007

#### USA Steel Shipments, Imports, Exports & Consumption

(million tons)

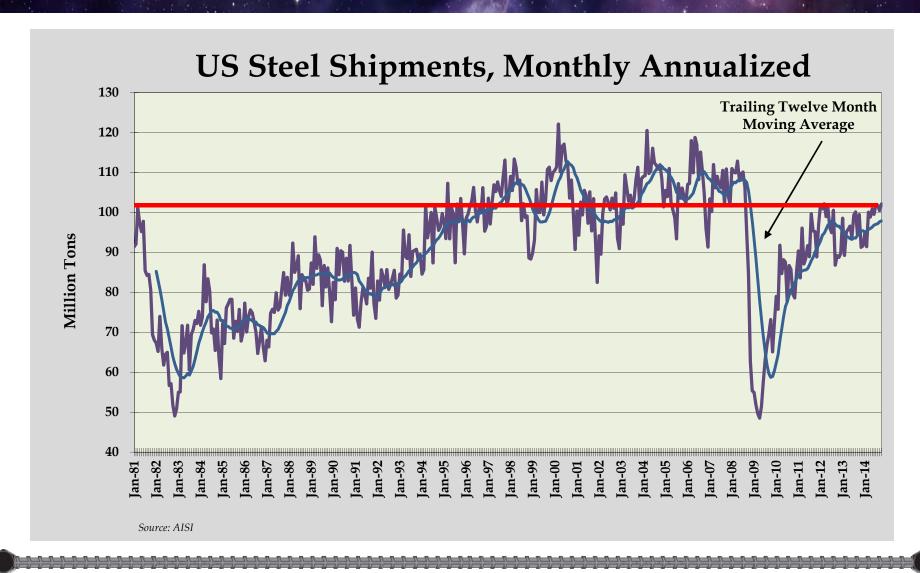
	Less Semis									
	Shipments	<b>Imports</b>	<b>Imports</b>	<b>Exports</b>	ASC	Y-t-Y Chg				
2000	109.6	38.7	6.8	6.6	134.8	5.8%				
2001	98.6	30.2	5.5	6.1	117.0	-13.2%				
2002	99.0	32.7	8.2	6.0	117.4	0.4%				
2003	104.6	23.0	4.8	8.2	114.6	-2.4%				
2004	111.0	35.8	7.2	7.9	131.6	14.8%				
2005	103.2	32.1	6.9	9.5	118.9	-9.6%				
2006	108.6	45.3	9.3	9.7	134.9	13.4%				
2007	106.1	33.2	6.6	11.1	121.7	-9.8%				
2008	98.4	32.4	5.9	13.4	111.4	-8.4%				
2009	60.3	16.2	2.0	9.3	65.3	-41.4%				
2010	83.4	23.9	5.0	12.0	90.3	38.3%				
2011	91.9	28.5	6.6	13.5	100.3	11.1%				
2012	95.9	33.5	7.6	13.7	108.1	7.7%				
2013	95.4	32.2	7.3	12.7	107.6	-0.4%				
2014e	99.2	44.4	10.3	12.2	121.0	12.5%				
2015e	101.6	50.0	11.5	11.0	129.1	6.7%				

(Note: 2014e annualized on 10 month trend through October 2014).

Source: AISI



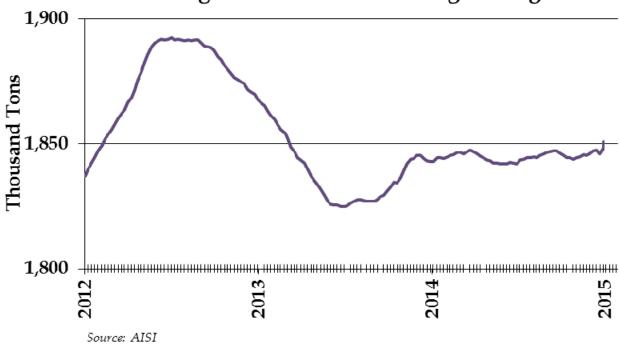
## USA Producing at the Mid-1990s Level



## Domestic Shipments at 1.899 Million Tons Per Week, or a 88.8 Million Finished Ton Annualized Rate

This run rate doesn't include the approximately 10 million tons per year of semis that now come into the USA systemically. Historically, semis were a "swing" factor in peak demand periods.

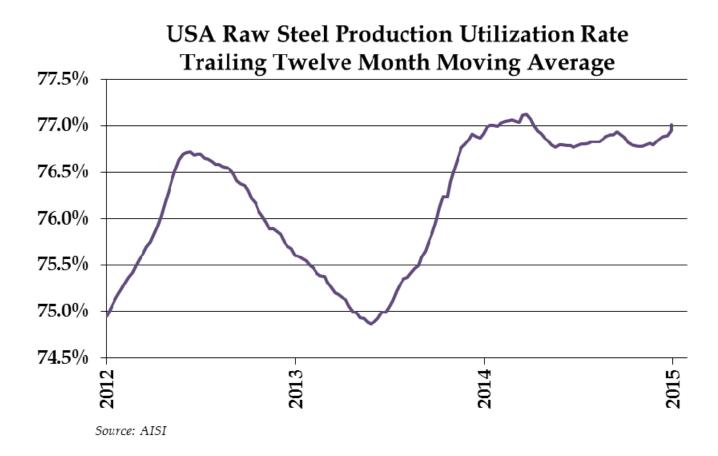
#### Weekly Estimated USA Crude Steel Production Trailing Twelve Month Moving Average



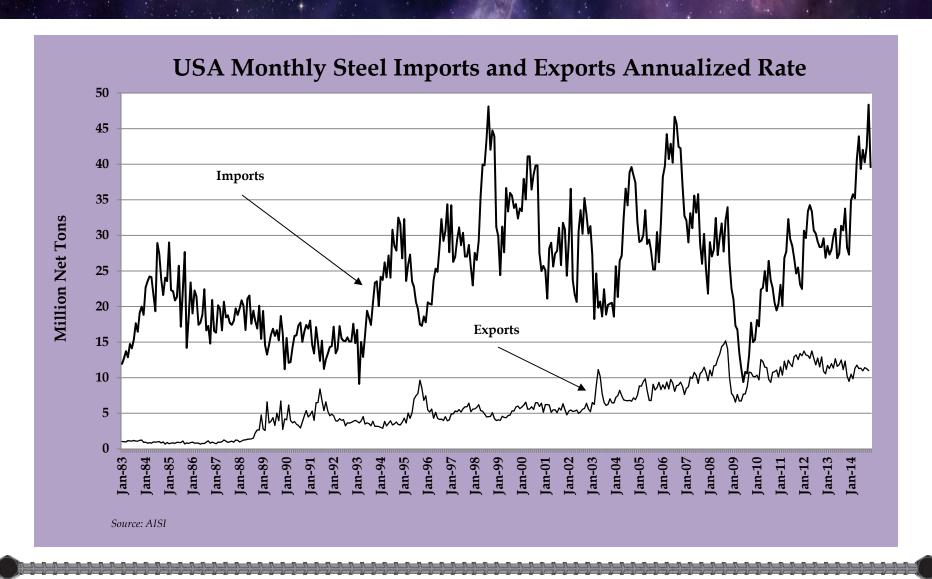


### Utilization at 76.90% in 2014 versus 76.87% in 2013 – Mill Lead Times Are a Week Shorter Than This Time Last Year at 3.2 for HRB and 5.5 for CRC

Industry utilization is not "homogenous". The flat mills are running fuller than the bar mills, and typically the EAF mills run fuller than the BF/BOF mills.

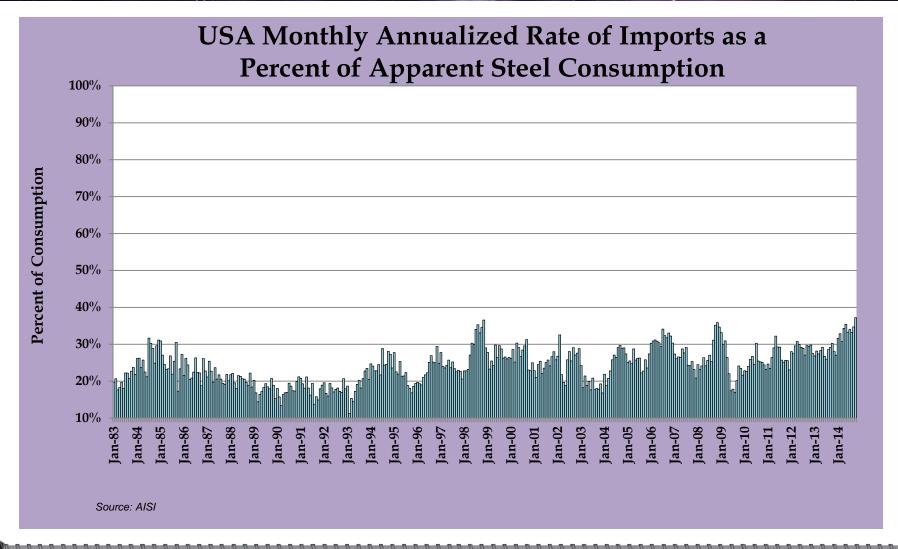


## Imports Through November Were 40.6 Million Tons Compared to Exports Through October of 10.2 Million Tons





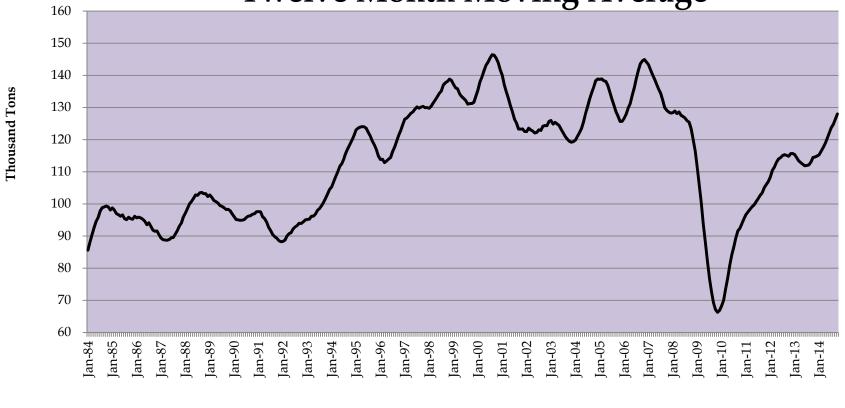
# Imports Today Account for About One-Third of USA Consumption; Historically Only Happens When Consumption Exceeds US Production





## USA Steel Consumption Has Seen a Nice Improvement in 2014, Approaching 130K tpm

**USA Monthly Apparent Steel Consumption Twelve Month Moving Average** 



Source: AISI



# USA Mills Are Only Partially Benefiting Due to High Imports Which Have Taken Market Share

#### **USA Steel Consumption / Shipment Outlook**

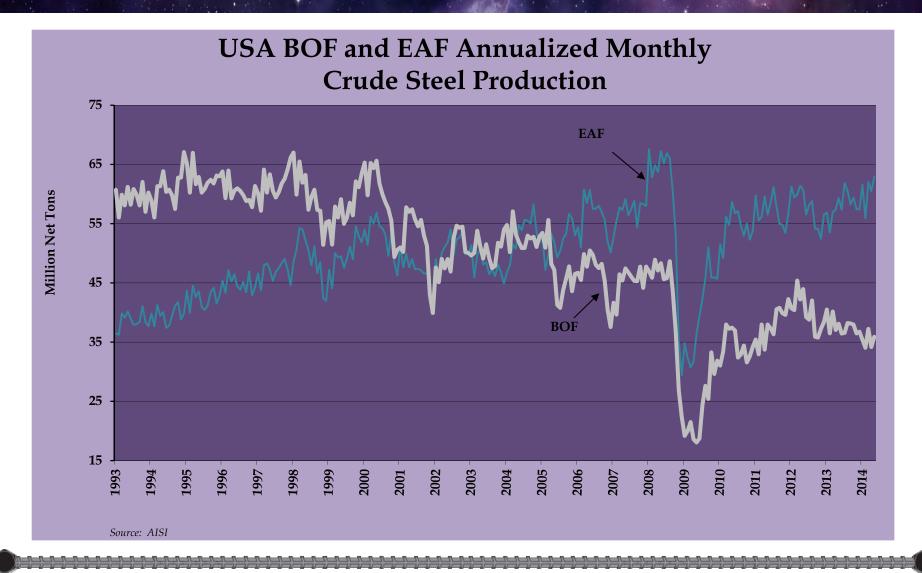
(million short tons)

	<u>1995</u>	<u>2000</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014e</u>
First quarter	24.9	28.6	28.2	27.1	27.8	26.3	27.5	13.3	20.5	22.5	25.4	23.6	23.9
Second quarter	24.4	28.5	29.0	25.6	28.8	26.5	27.7	13.5	21.7	22.3	24.7	23.8	24.9
Third quarter	24.0	27.3	27.4	25.7	26.8	27.1	26.2	16.8	20.8	23.7	23.5	24.5	25.3
Fourth quarter	24.2	24.7	26.8	26.6	26.1	26.5	17.1	18.6	20.4	23.4	22.3	23.5	25.1 e
Shipments	97.5	109.1	111.4	105.0	109.5	106.4	98.5	62.2	83.4	91.9	95.9	95.4	99.2
Plus: Imports	24.4	38.0	35.8	32.1	45.3	33.2	31.9	16.2	23.9	28.5	33.5	32.2	$44.4\mathrm{e}$
							5.5	5.5	5.5	5.5	5.5	5.5	5.5
Less: Imported semis converted to finished products by AISI-reporting companies	5.0	8.6	7.4	6.9	9.3	6.6	5.9	2.0	5.0	6.6	7.6	7.3	9.6 e
Less: Exports	7.1	6.5	7.9	9.4	9.7	11.1	13.5	11.9	13.5	13.5	13.7	12.7	12.2 e
Subtotal: Apparent steel demand	109.8	131.9	131.9	120.8	135.8	121.9	111.0	64.5	88.9	100.3	108.1	107.6	121.8
Less: Est. user/buyer inventory build	-2.0	-2.0	8.1	-6.4	6.6		-4.0		4.0	1.5	1.0	-0.3	1.0
<b>Equals: Actual steel consumption</b>		133.9							84.9	98.8			
% change	2.0%	3.1%	7.1%	2.8%	1.6%	-3.7%	-7.6%	-35.2%	14.0%	16.5%	8.3%	0.8%	12.0%

Source: AISI & Steel-Insights, LLC estimates

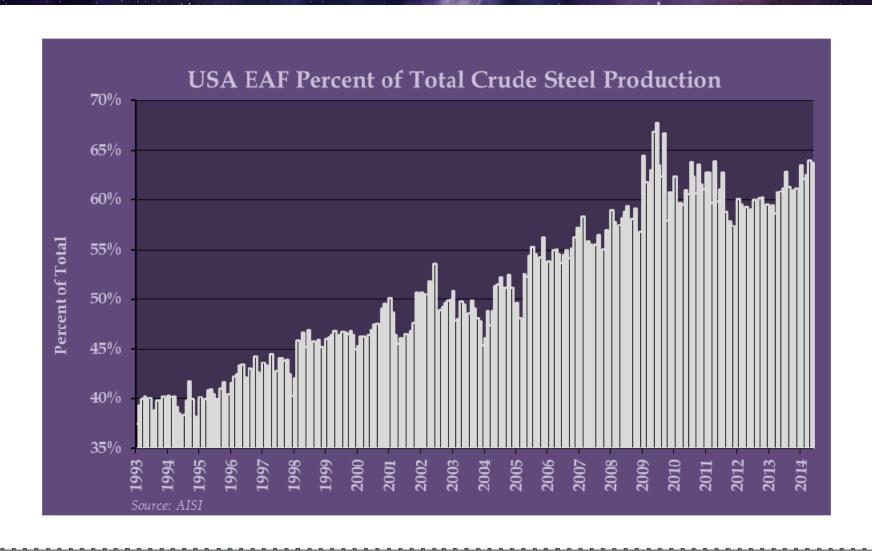


## EAF-Based Steelmaking Dominates Now, But Hasn't Taken More Share in the Last Few Years





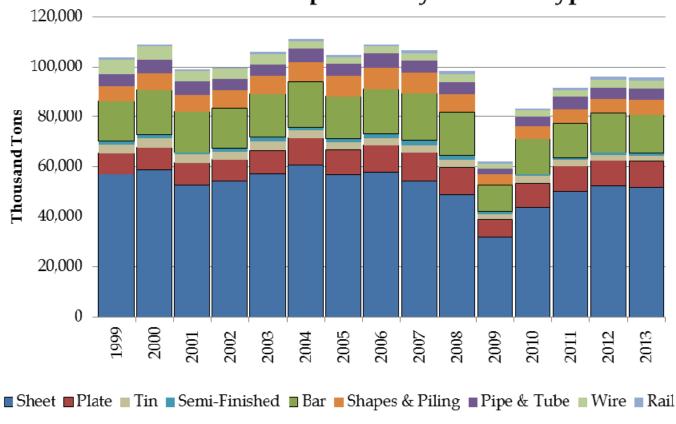
# EAF Steelmaking Represents 58-60% of the USA Market





# USA Finished Steel Shipments Off Slightly in 2013 versus 2012

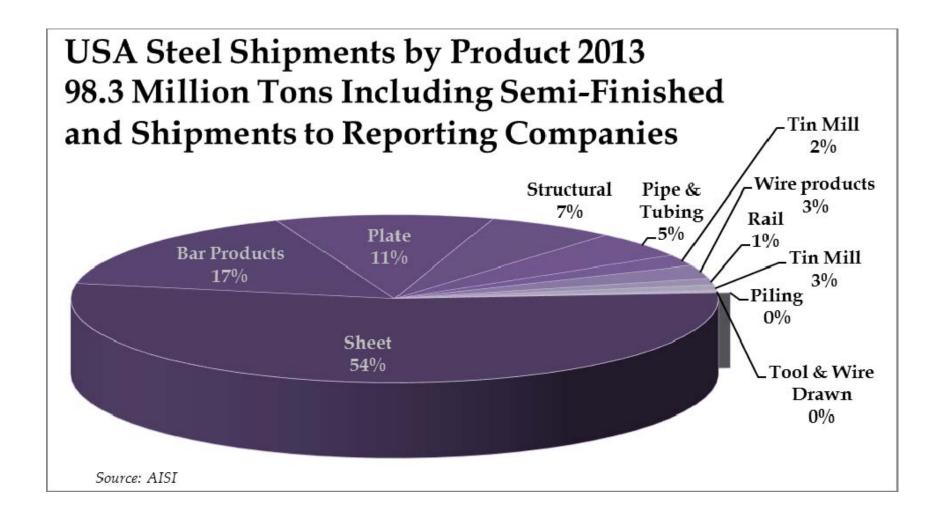
#### **USA Steel Shipments by Product Type**



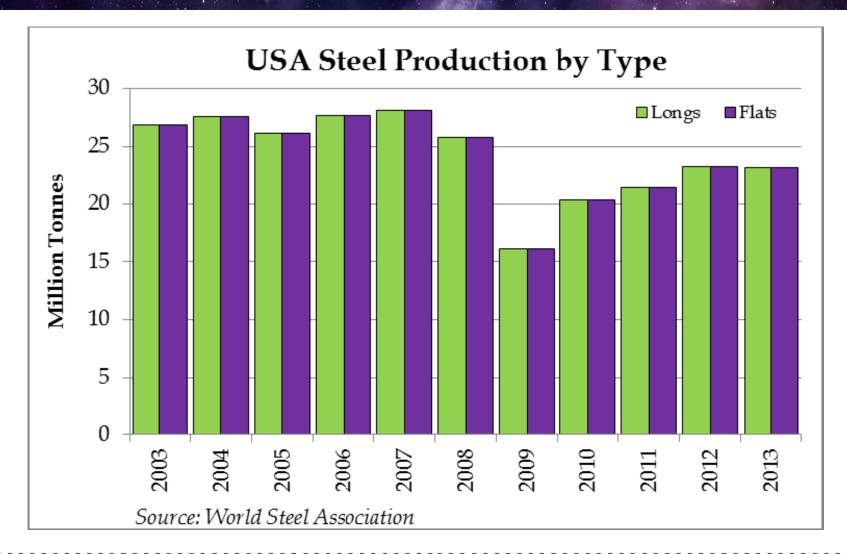
Source: AISI



# Sheet Accounts for Over Half The Shipments; Followed By Bar at 17% and Plate at 11%

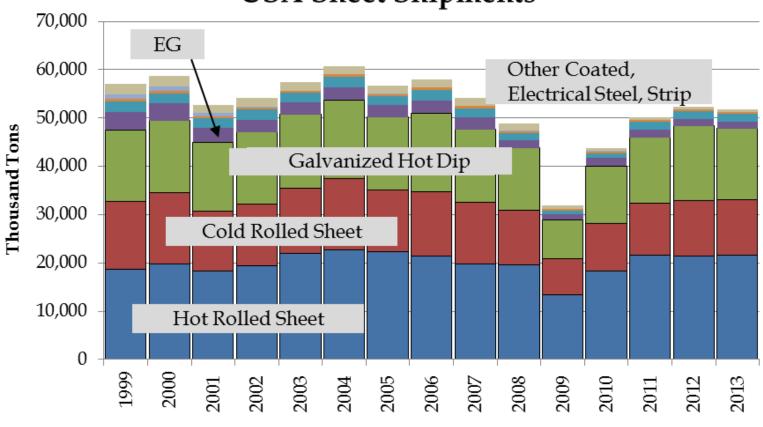


# On A Consolidated Basis, the US Market is Split Equally Between Long and Flat Products



## USA HRB/CRC Shipments Flat For Three Years

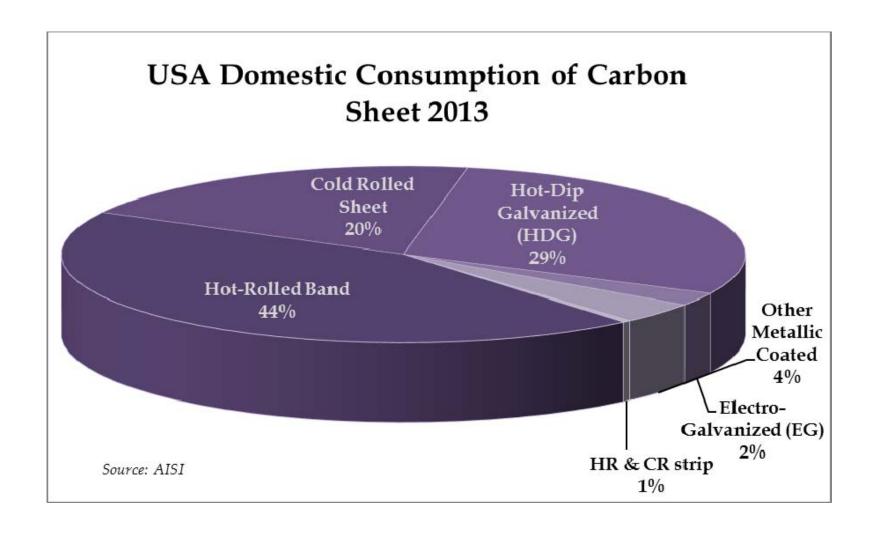
#### **USA Sheet Shipments**



Source: AISI



## Hot-Rolled Band Still Predominates Sheet





## Carbon Sheet Imports in 2013 at 14.8% of ASC, up from 14.1% in 2012; Exports at 8.9% Compared to 8.8% in 2012

### **USA Carbon Sheet Shipment Configuration 2013**

	Shipments	<b>Imports</b>	<b>Exports</b>	ASC	%	
Hot-Rolled Band	21.3	3.0	1.0	23.2	44%	
Cold Rolled Sheet	10.1	1.6	1.0	10.7	20%	
Hot-Dip Galvanized (HDG)	14.7	2.1	1.3	15.5	30%	
Electro-Galvanized (EG)	1.5	0.1	0.4	1.3	2%	
Other Metallic Coated	1.6	0.7	0.3	2.0	4%	
HR & CR strip	0.1	0.3	0.6	-0.2		
Total	49.3	7.7	4.6	52.4		
Percent of ASC	94.1%	14.8%	8.9%			

Source: AISI



## Sheet Imports Likely to Continue to Increase in 2015

#### **USA Sheet Product Shipments and Apparent Consumption**

(thousand net tons)

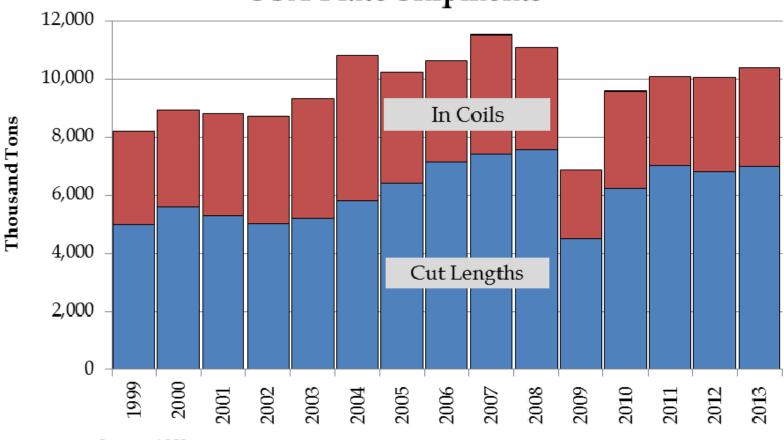
	2006	2007	2008	2009	2010	2011	2012	2013	2014e	2015e
Hot Rolled										
Shipments	21,409	19,872	19,629	13,394	18,259	21,676	21,442	21,559	22,465	22,914
Exports	675	1,118	1,056	790	966	778	929	1,037	1,125	1,024
Imports	5,076	2,684	2,770	1,739	2,397	2,664	2,816	2,982	4,125	4,848
Apparent Consumption	25,810	21,439	21,343	14,343	19,690	23,563	23,329	23,503	25,465	26,739
Import % of ASC	19.7%	12.5%	13.0%	12.1%	12.2%	11.3%	12.1%	12.7%	16.2%	18.1%
Cold Rolled										
Shipments	13,281	12,607	11,339	7,475	9,999	10,695	11,552	11,518	12,164	12,408
Exports	645	767	870	641	917	1,035	1,083	988	1,305	1,354
Imports	3,661	1,801	1,439	1,138	1,221	1,393	1,621	1,571	2,889	3,626
Apparent Consumption	16,297	13,642	11,908	7,971	10,303	11,053	12,090	12,101	13,749	14,680
Import % of ASC	22.5%	13.2%	12.1%	14.3%	11.9%	12.6%	13.4%	13.0%	21.0%	24.7%
Galvanized Hot Dip										
Shipments	16,358	15,190	12,808	8,104	11,764	13,614	15,331	14,706	15,451	15,760
Exports	835	1,010	988	800	1,058	1,253	1,324	1,322	1,370	1,381
Imports	3,648	2,011	1,822	1,033	1,421	1,462	2,002	2,077	3,124	3,268
Apparent Consumption	19,171	16,191	13,642	8,337	12,126	13,823	16,009	15,461	17,205	17,647
Total ASC	68,166	57,615	51,602	33,205	45,212	52,029	55,143	54,937	60,324	63,111
Net Imports	10,206	3,471	2,775	1,235	1,436	1,831	2,749	3,069	6,195	7,925
Import % of ASC	15.0%	6.0%	5.4%	3.7%	3.2%	3.5%	5.0%	5.6%	10.3%	12.6%

Note: Electrical Sheet & Strip Steel-Insights & Stitt Consultancy estimates



## USA Plate Market Up Modestly in 2013

#### **USA Plate Shipments**

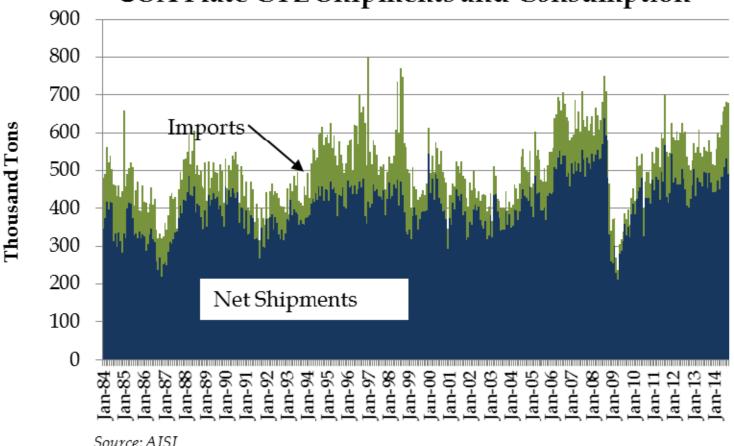


Source: AISI



## Plate Market Imports Have Become More Significant; Impacted Pricing in 2014



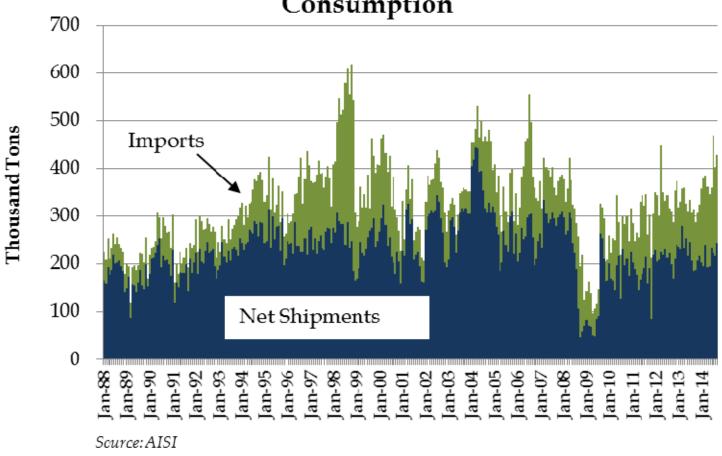


Source: AISI



# Domestic Shipments Flat While Imports Growing in PIC

## USA Plate in Coils Shipments and Consumption



# USA Plate Imports of CTL Estimated Up to 23% of ASC and Coils Up to 45% of ASC in 2014

#### **USA Plate Product Shipments and Apparent Consumption**

(thousand net tons)

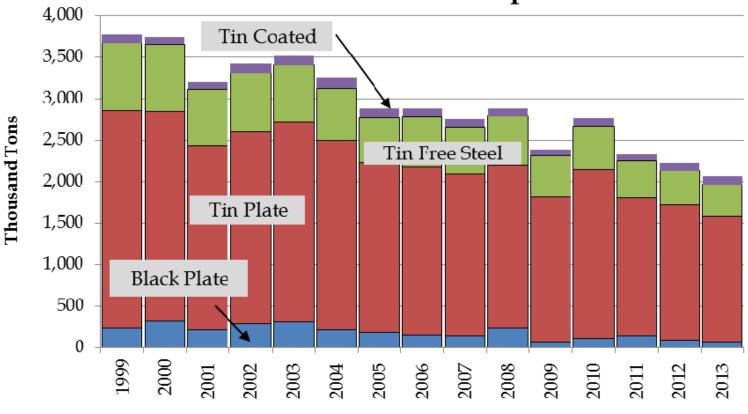
	2006	2007	2008	2009	2010	2011	2012	2013	2014e
Cut Lengths									
Shipments	7,150	7,415	<b>7,57</b> 3	4,523	6,237	7,026	6,803	6,975	7,335
Exports	1,160	1,266	1,483	897	1,177	1,352	1,338	1,321	1,501
Imports	1,670	1,422	1,237	530	749	1,169	1,392	1,017	1,767
Apparent Consumption	7,660	7,571	7,328	4,156	5,809	6,843	6,857	6,671	7,601
Import % of ASC	22%	19%	17%	13%	13%	17%	20%	15%	23%
In Coils									
Shipments	3,471	4,099	3,494	2,331	3,344	3,063	3,253	3,413	3,324
Exports	647	593	1,121	776	1,079	937	683	710	697
Imports	1,746	1,035	1,213	711	1,022	1,360	1,542	1,176	2,168
Apparent Consumption	4,570	4,542	3,587	2,266	3,288	3,486	4,112	3,879	4,796
Import % of ASC	38%	23%	34%	31%	31%	39%	38%	30%	45%
Total ASC	12,230 1,609	12,113 599	10,914 (153)	6,422	9,097 (484)	10,329 240	10,969 913	10,550 161	12,397 1,738
Net Imports	1,009	399	(133)	(432)	(404)	240	913	101	1,/30

Source: AISI



## USA Tin Market In Decline

#### **USA Tin Related Shipments**

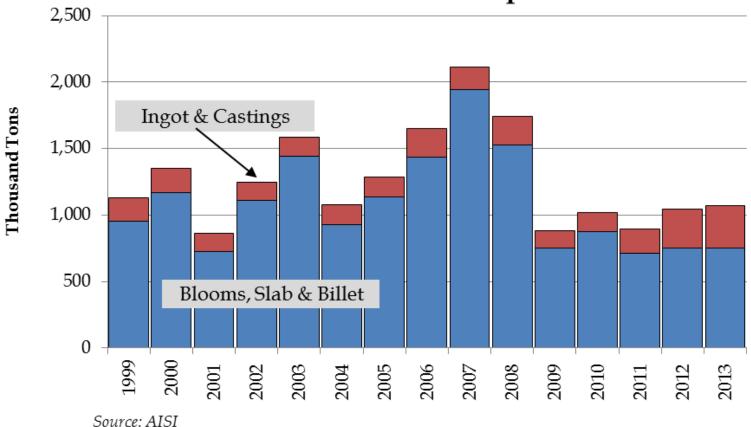


Source: AISI



### USA Semi-Finished Shipment Still Well Below 2007 Levels

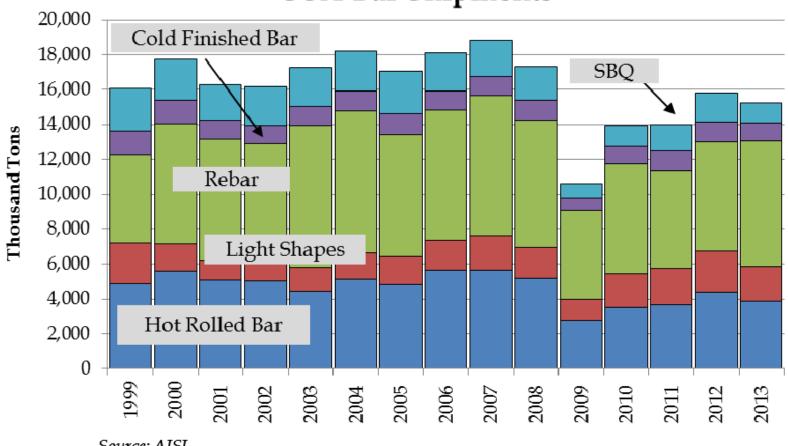
#### **USA Semi-Finished Shipments**





### Bar is the USA's Second Largest Market at 17% of the Total; 2013 was Down from 2012

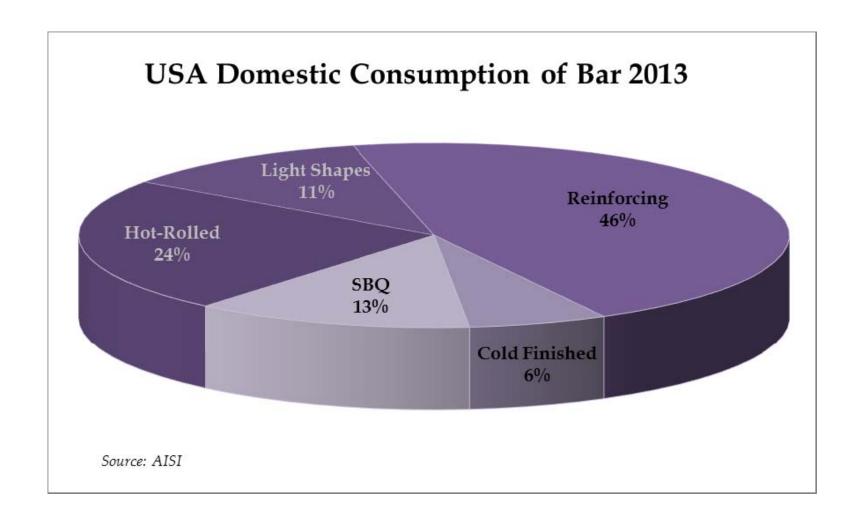
#### **USA Bar Shipments**



Source: AISI



## Rebar More Than Double the Next Category



# Imports of Bar Products Were 19.4% of ASC in 2013

### **USA Bar Shipment Configuration 2013**

	Shipments	<b>Imports</b>	<b>Exports</b>	ASC	0/0
Hot-Rolled	3.9	0.5	0.3	4.1	24%
Light Shapes	1.9	0.1	0.1	2.0	12%
Reinforcing	7.2	1.2	0.5	7.9	46%
Cold Finished	1.0	0.1	0.1	1.1	6%
SBQ	1.1	1.4	0.3	2.2	13%
Total	15.2	3.3	1.4	17.2	
Percent of ASC	88.7%	19.4%	8.1%		

Source: AISI



# Bar Net Imports in 2013 Up Significantly in Rebar and SBQ

#### **USA Bar Product Net Imports**

(thousand net tons)

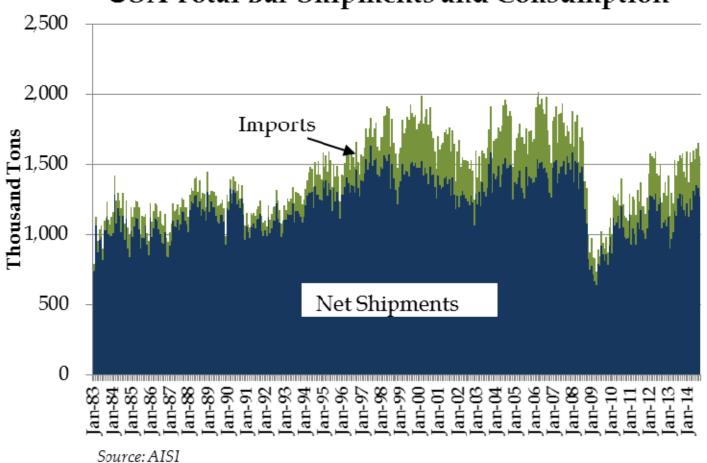
	2005	2006	2007	2008	2009	2010	2011	2012	2013
Hot Rolled	490	397	219	10	44	147	84	157	177
Percent Change	<b>-</b> 18%	<i>-</i> 19%	<i>-</i> 45%	<i>-</i> 95%	326%	235%	<b>-4</b> 3%	88%	12%
Light Shapes	115	187	133	0	(37)	(186)	(143)	(28)	35
Percent Change	24%	62%	-29%	<i>-</i> 100%	nmf	nmf	nmf	nmf	nmf
Reinforcing	1,145	2,286	1,526	277	(10)	(56)	79	311	635
Percent Change	-31%	100%	-33%	-82%	nmf	nmf	nmf	295%	104%
Cold Finished	103	87	46	5	16	47	60	64	50
Percent Change	22%	<i>-</i> 15%	<i>-</i> 47%	-88%	199%	196%	27%	7%	<b>-2</b> 1%
SBQ	877	794	534	702	217	288	534	720	1,046
Percent Change	16%	-9%	<i>-</i> 33%	31%	-69%	33%	85%	35%	45%

Source: AISI



# In 2014, Bar Imports Were Tracking Slightly Ahead of 2013 at 2.7 Million Tons Through September

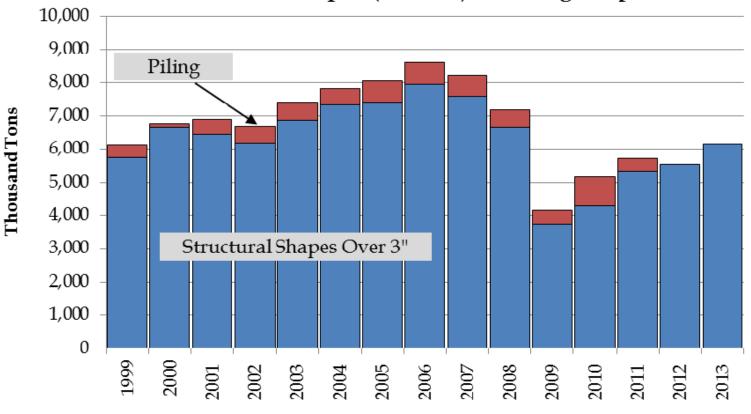
#### **USA** Total Bar Shipments and Consumption





## USA Shapes & Piling Market Improving

**USA Structural Shapes (over 3") & Piling Shipments** 

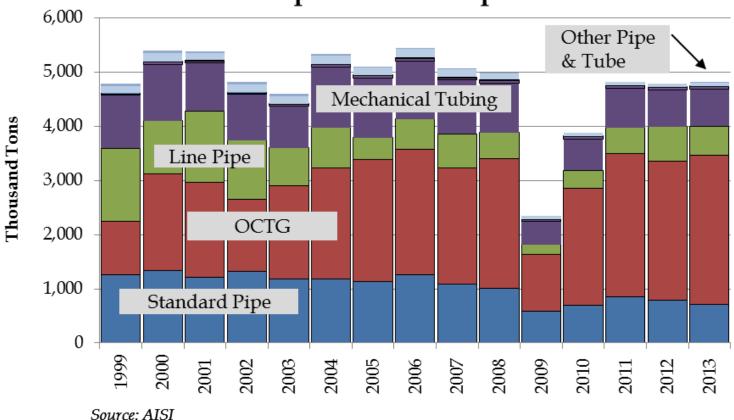


Source: AISI



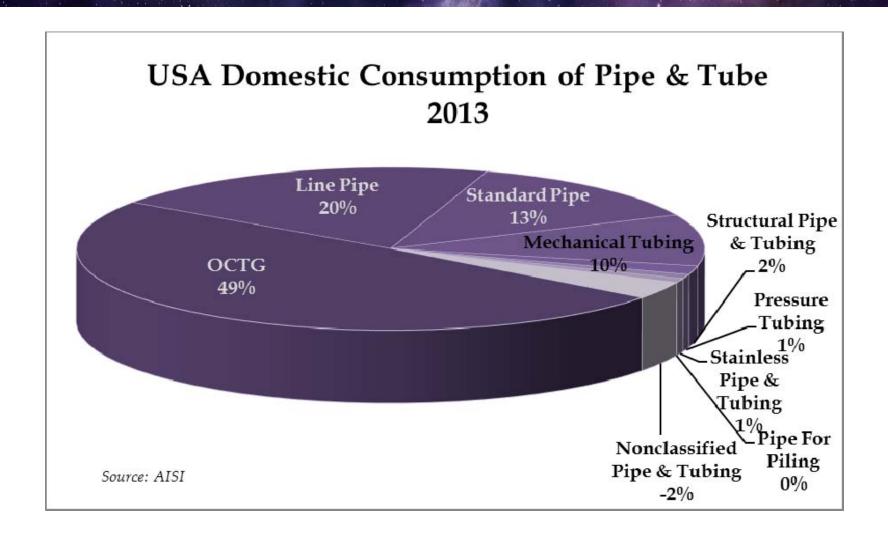
## USA Pipe & Tube Market Growth Coming From **Imports**

#### **USA Pipe & Tube Shipments**





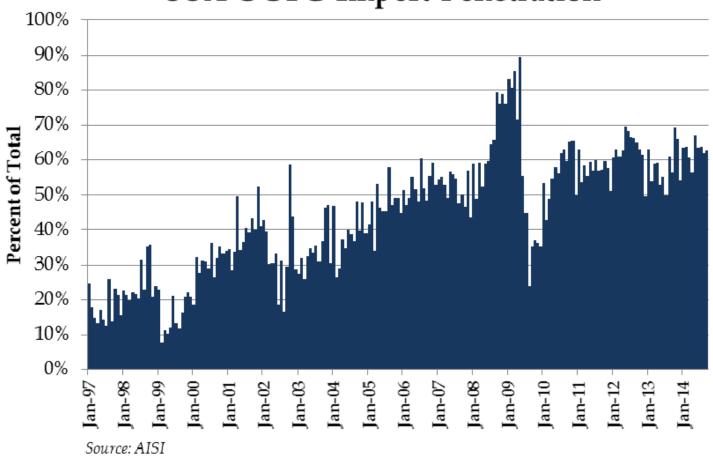
## Energy Demand Has Been Strong, But Will Soften in 2015 Given Lower Oil Prices; Production Cutbacks Already Announced



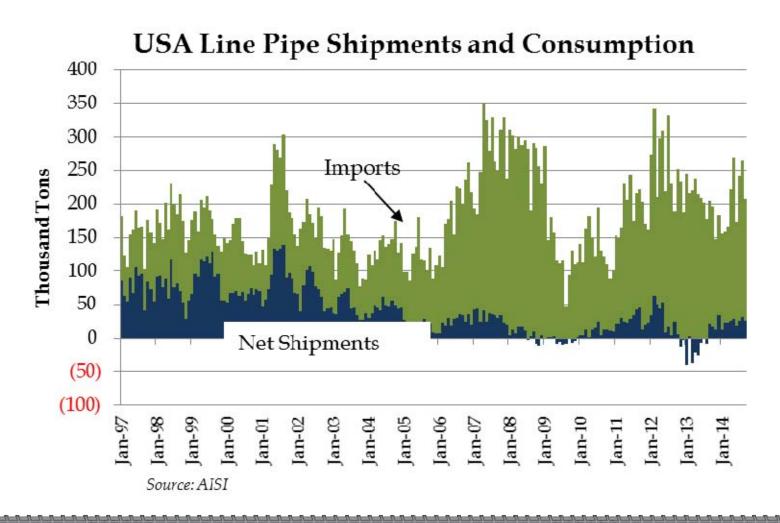


# Imports Significant in OCTG But Have Been For A While

#### **USA OCTG Import Penetration**

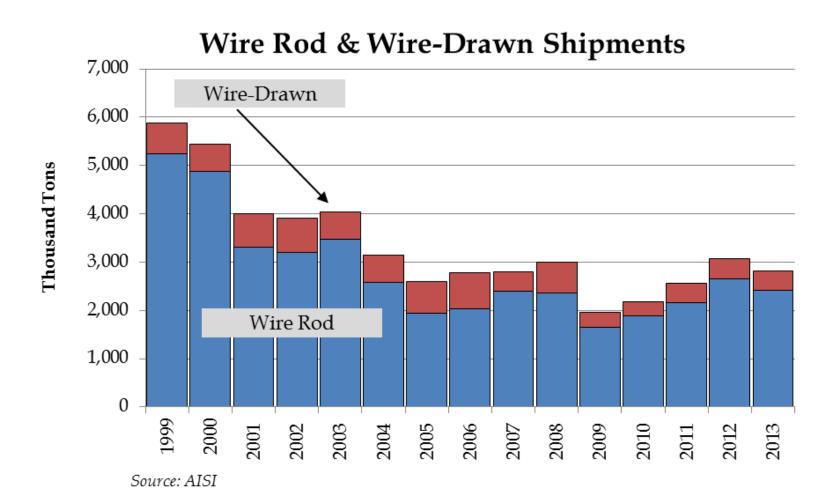


### Line Pipe Market is Almost Completely Foreign Served

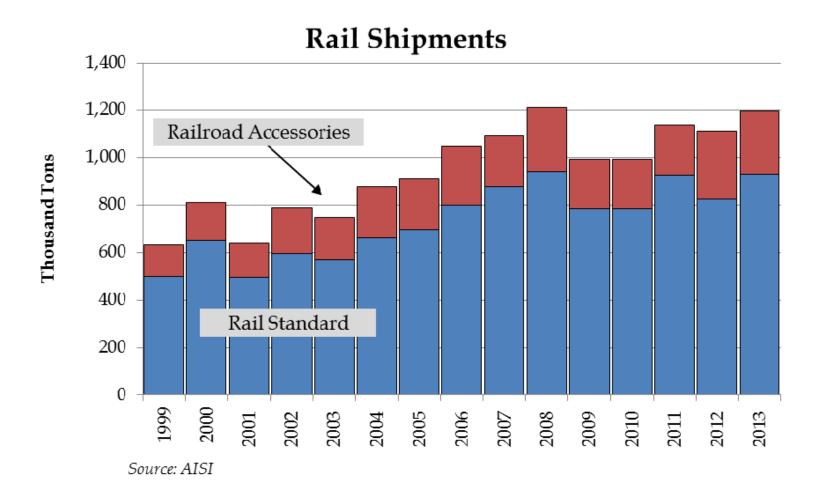




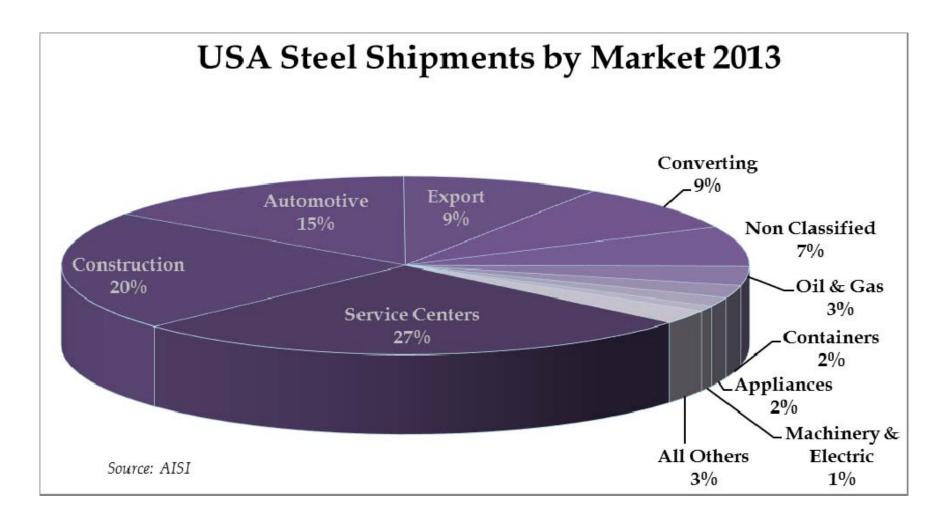
### USA Wire Market Some Recovery; Wire Drawn Dropped



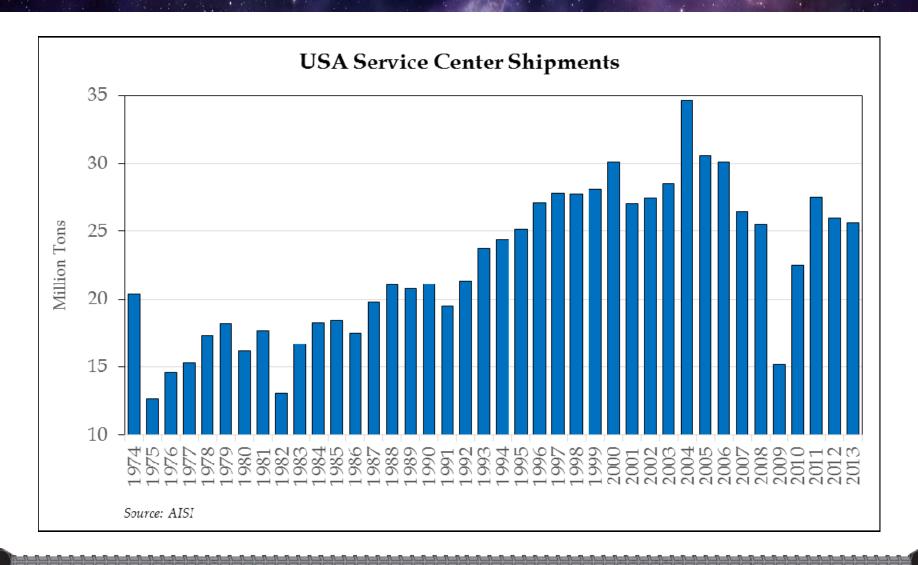
### USA Rail Market Almost Back to 2008 Levels



# Construction is the Largest Market at 20%; Automotive is the Next Largest at 15%

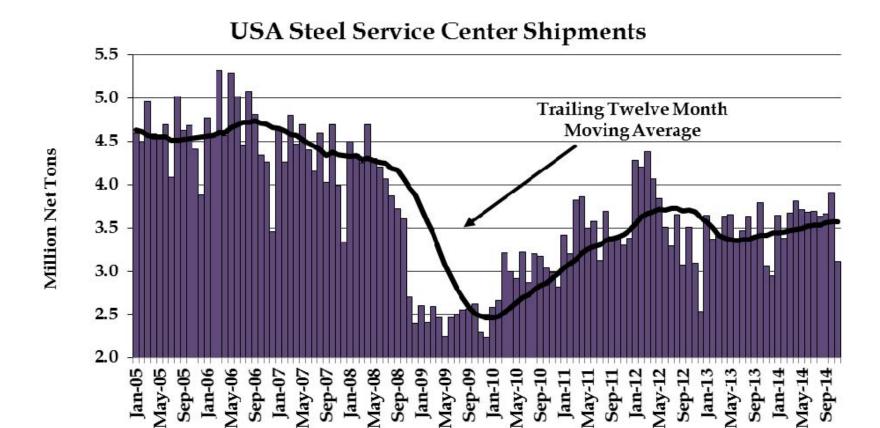


## Service Center Shipments Trending Down





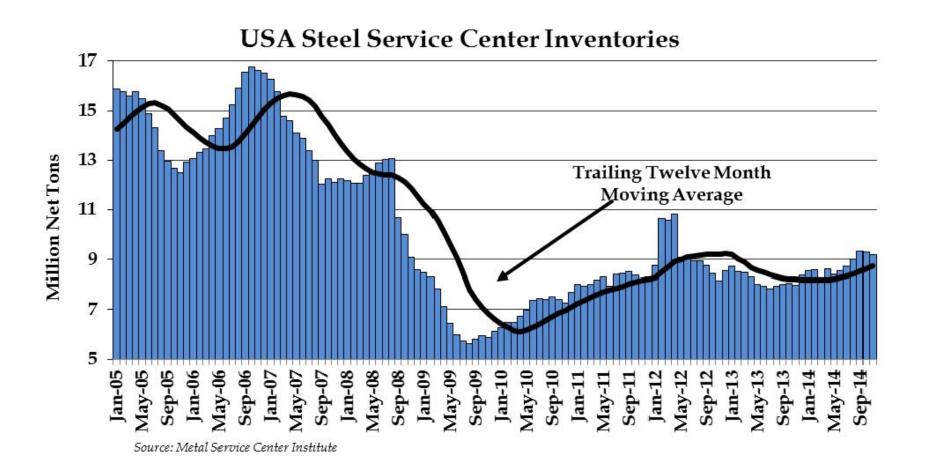
### USA Service Center Shipments Sideways On a TTMMA Basis







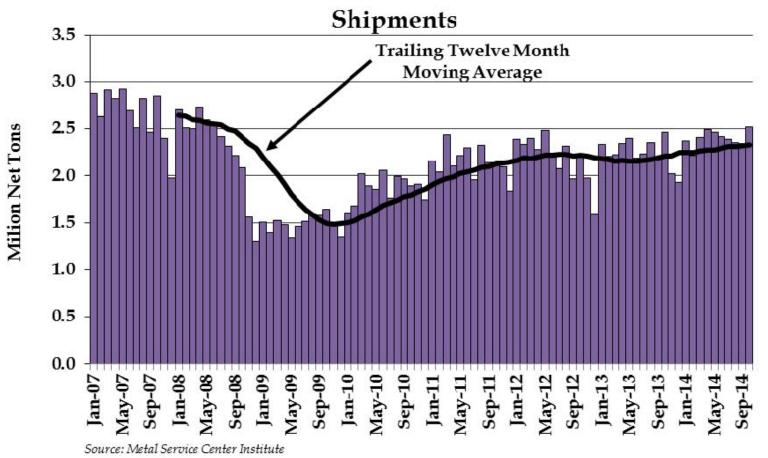
### USA Service Center Inventories Remain at Historically Low Levels





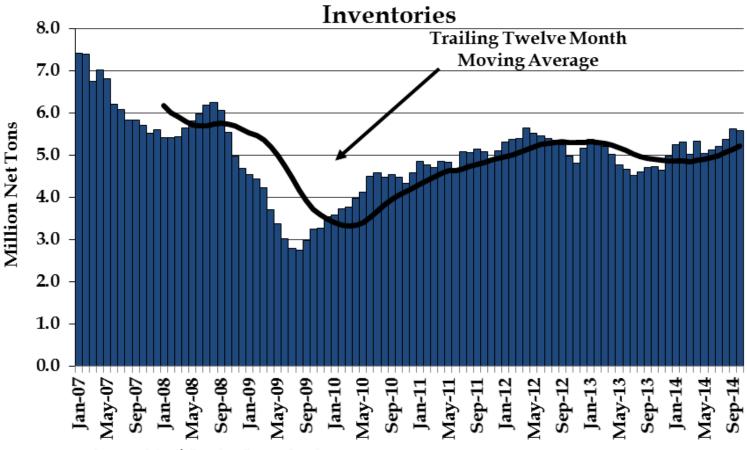
## MSCI Carbon Flat Rolled Shipments "Flat" at 2.2 Million Tons, But Up On a TTMMA Basis for 17 Consecutive Months

#### **USA Steel Service Center Carbon Flat Rolled**



# MSCI Carbon Flat Rolled Inventories Have Clearly Begun to Build - But Maybe Needed for Increased Economic Activity

#### **USA Steel Service Center Carbon Flat Rolled**

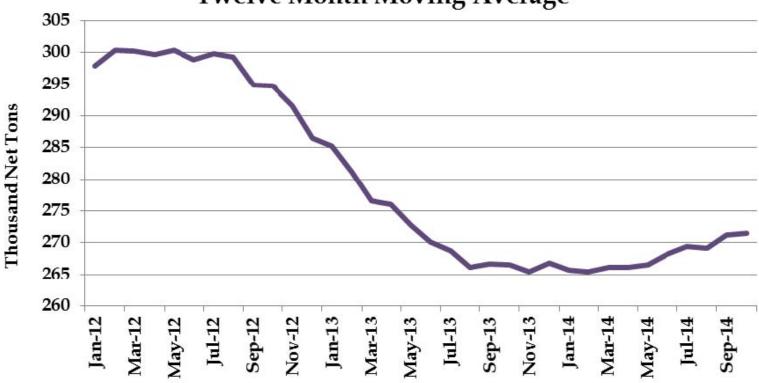


Source: Metal Service Center Institute



### MSCI Carbon Bar Shipments Haven't Recovered Yet

USA Steel Service Center Carbon Bar Shipments Twelve Month Moving Average

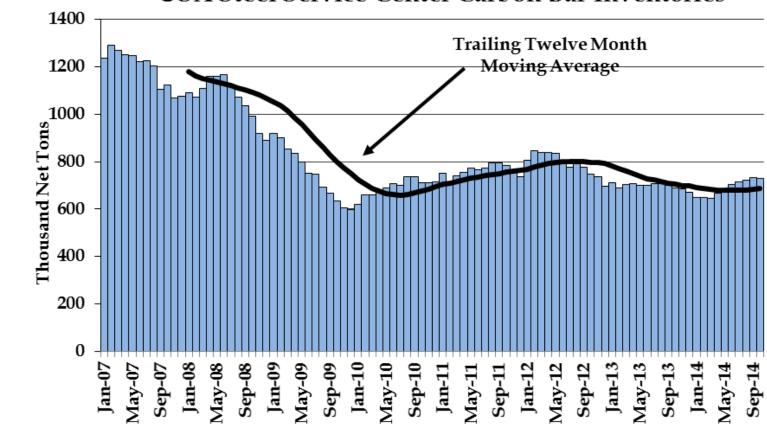


Source: Metal Service Center Institute



### MSCI Carbon Bar Inventories Remain At Low Levels

#### **USA Steel Service Center Carbon Bar Inventories**

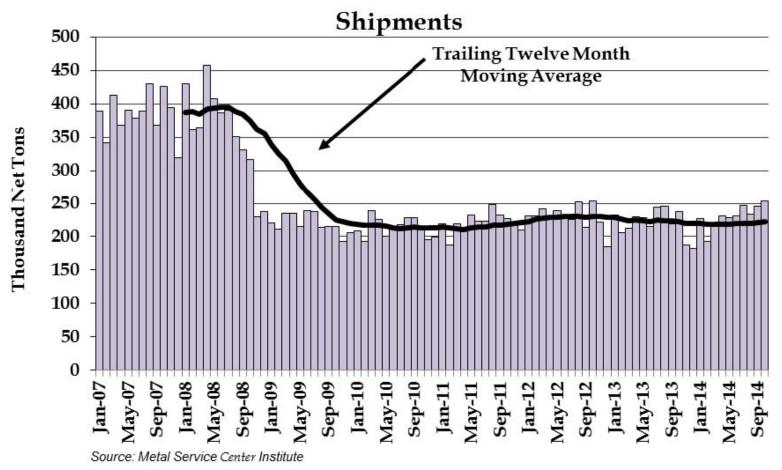


Source: Metal Service Center Institute



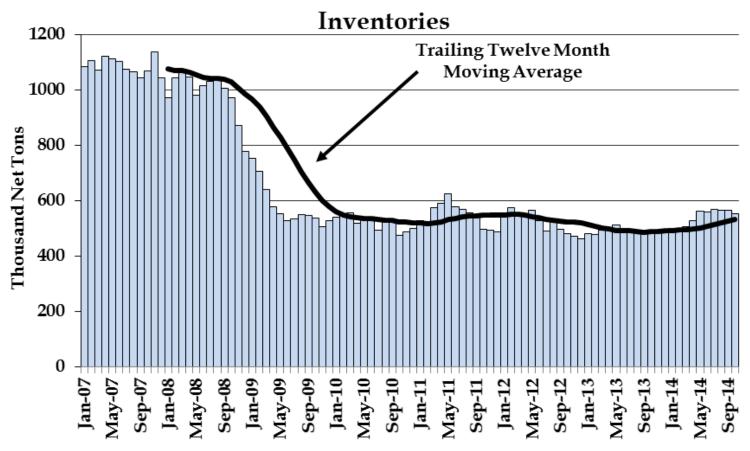
### MSCI Carbon Structural Shipments Pretty Flat Since 2009

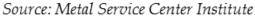
#### **USA Steel Service Center Carbon Structural**



## MSCI Structural Inventories Under Control

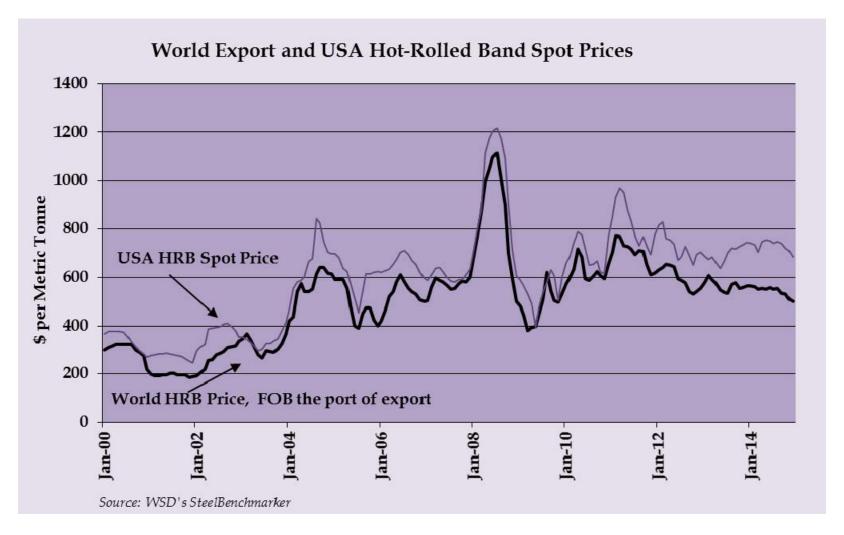
#### **USA Steel Service Center Carbon Structural**





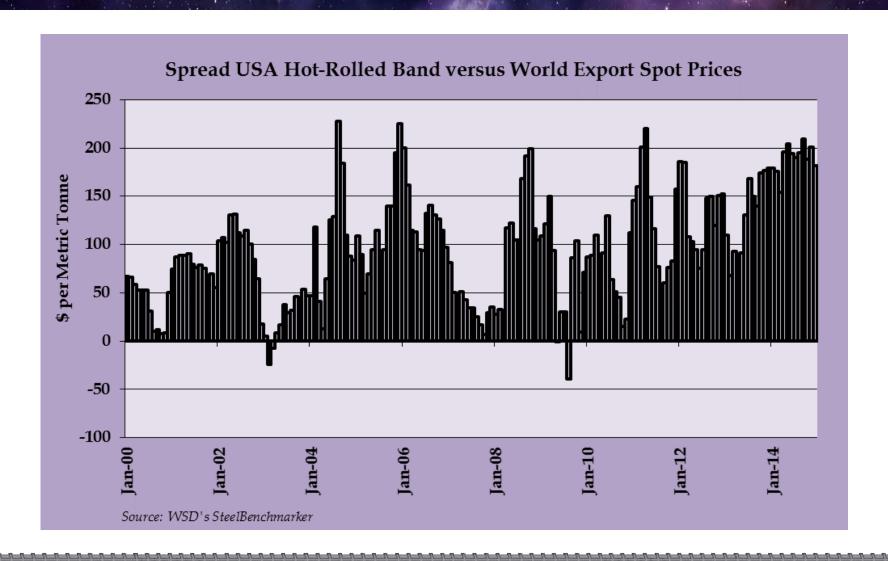


# World Export Price and USA Price for Hot-Rolled Band Likely to Continue Sideways to Down Through 2015 Given Oversupply and Continued Commodity Price Pressure





# USA Hot-Rolled Band Price Spread to the World Above \$200 Per Tonne Will Continue to Attract Imports

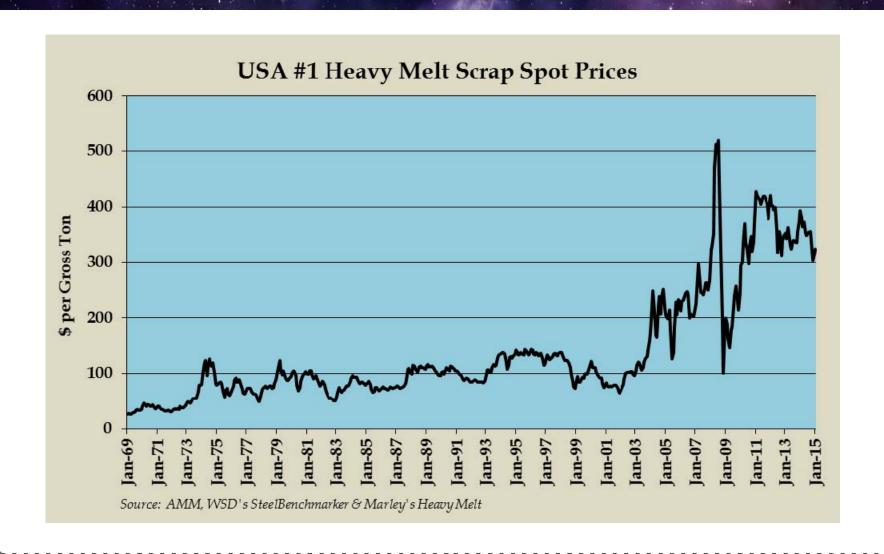


### Current Scrap Price Drivers Market Intel

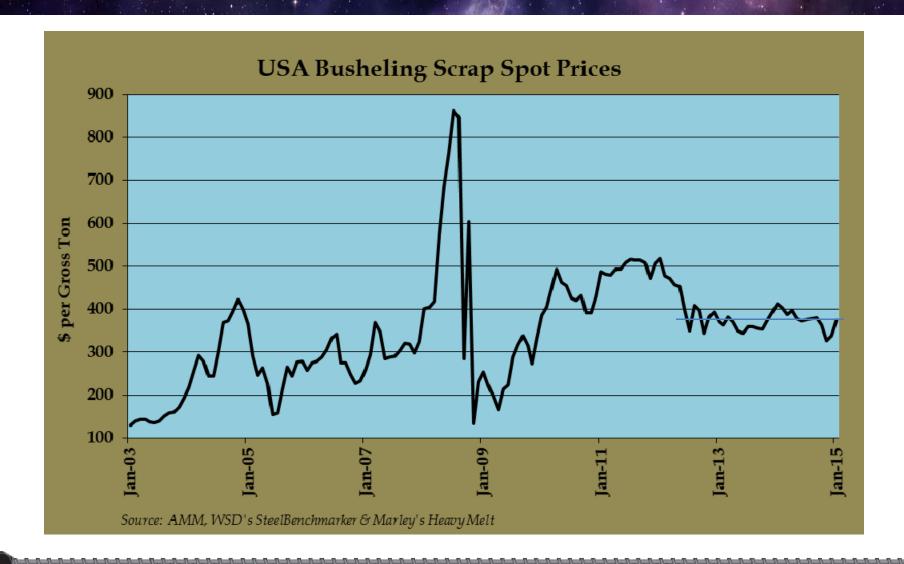
- Turkish steel companies buying only a shipload a week, down from a 2-3 shiploads per week as their product market price margins are compressed.
- Strength of the dollar has allowed one large minimill company to bring in scrap from Europe at competitive prices to the US market.
- Scrap flows from Canada have increased as scrap dealers there "buy cheap" in Canadian dollars and "sell high" in US dollars.
- At current lower prices, one rebar mini-mill company recently indicated that they are receiving adequate incoming supply.



### Scrap Prices Have Trended Up The Past Two Months

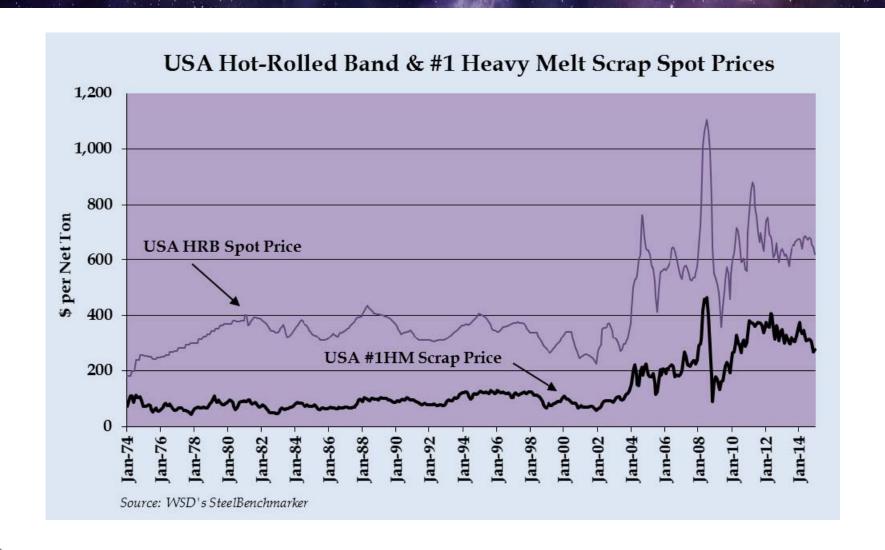


## USA Busheling Scrap Prices Flat With A Year Ago



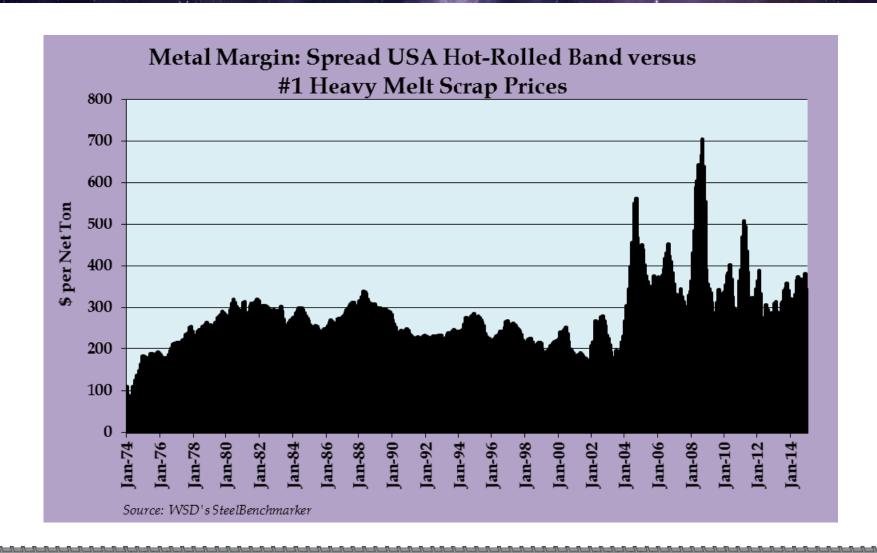


## Scrap Prices Compared to Hot-Rolled Band Prices



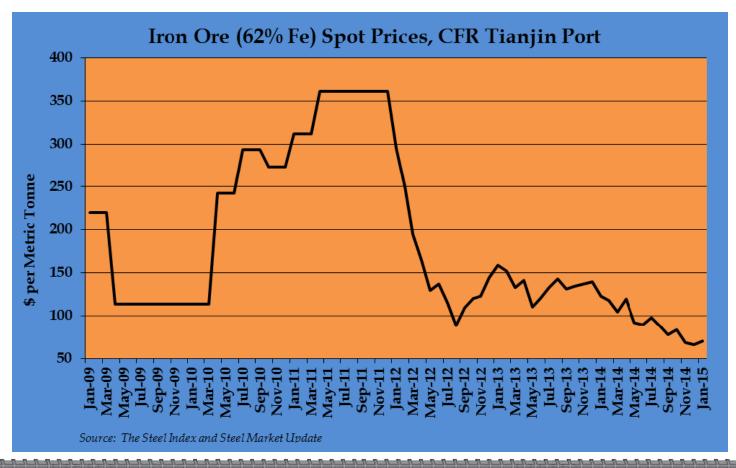


### Metal Margin of Hot-Rolled Band to Scrap Well Above Historical Level of \$300 Per Ton

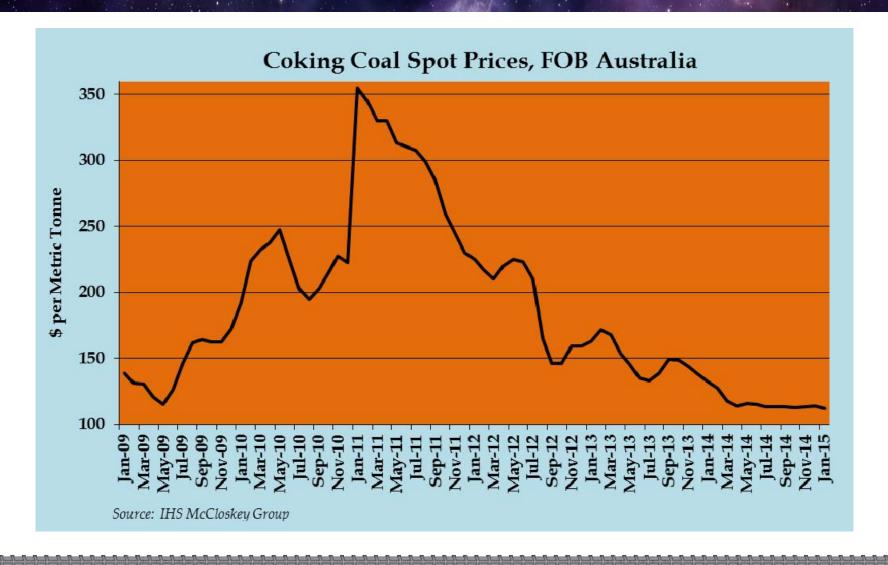


### Iron Ore Prices Down 50% from \$140 Per Tonne Dec 2013 to \$66 Per Tonne Dec 2014

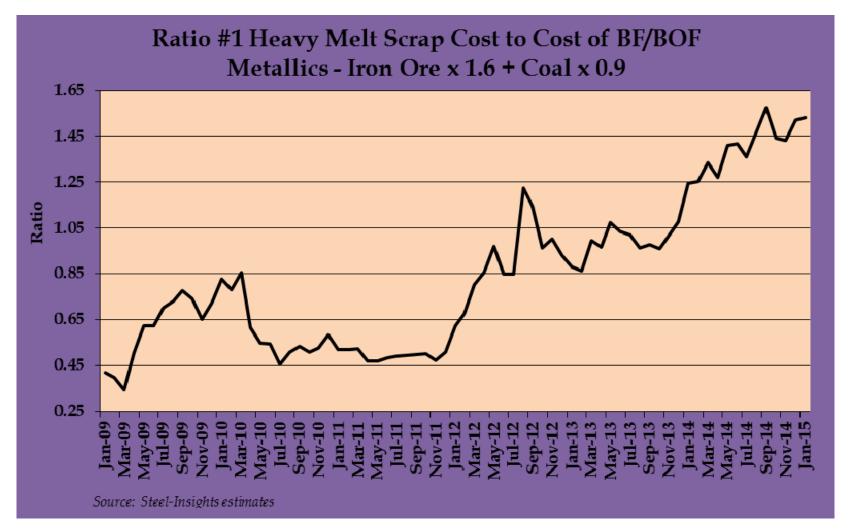
Goldman Sachs estimates 300 million tons of excess iron ore capacity by 2017 with 24 new projects being started since 2011 representing over \$120 billion in invested capital.



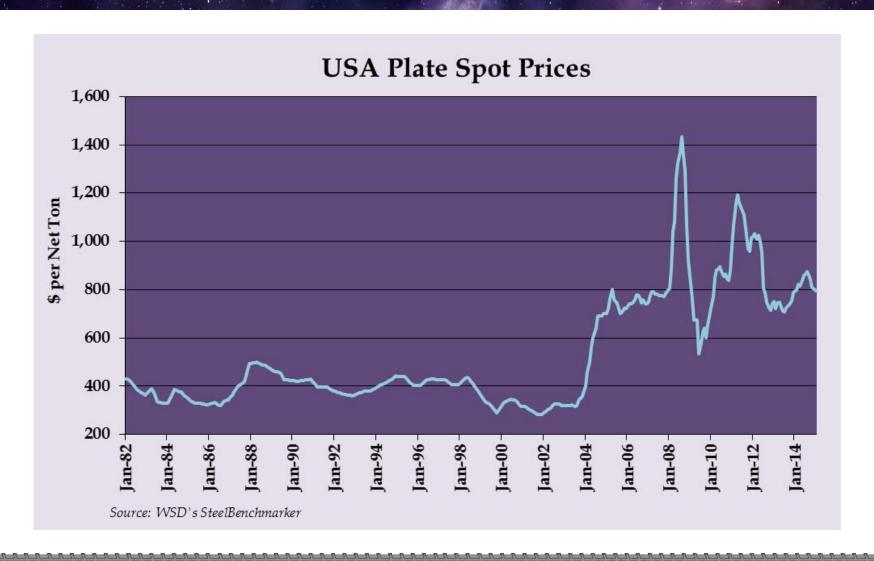
# Coking Coal Prices Down 18% from \$138 Per Tonne Dec 2013 to \$114 Per Tonne Dec 2014



# Ratio of Scrap Price to Iron Ore/Coal Cost Indicates Likely Downward Pressure to Scrap - Imports of Scrap From Europe & Canada

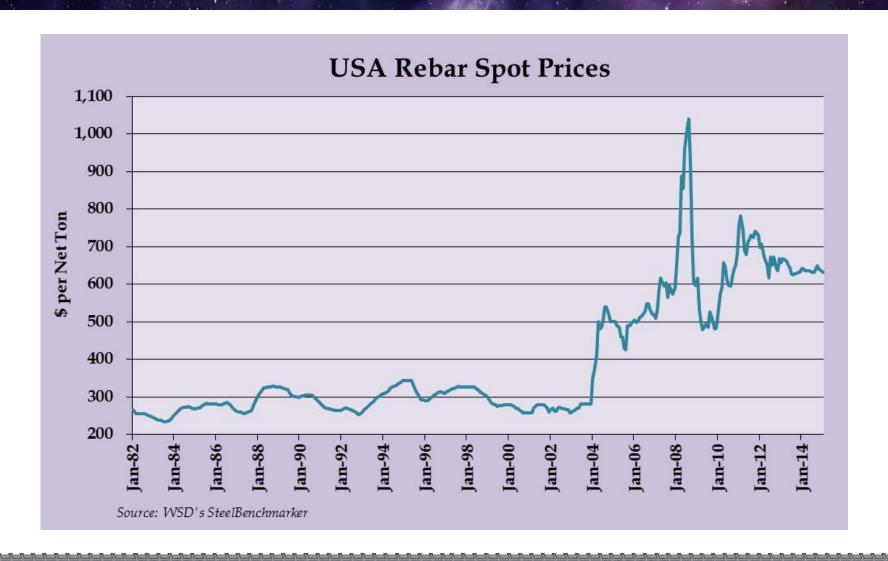


### Plate Prices Down 9% In the Past Five Months, At \$795 Per Ton in January 2015





## Rebar Prices Have Traded Sideways For 2014; High Imports Being Allocated and Not Impacting Pricing



# Stainless Production Topped 38 Million Tonnes in 2013; 30.9 Million Tonnes Q1-Q3 2014

#### **Stainless Melt Shop Production by Country**

(million tonnes)

								9 Mo	nths
	2007	2008	2009	2010	2011	2012	2013	2013	2014
D 1 :	1 501	1 4571	1.045	1.006	1 041	1 0 1 1	1.000		
Belgium	1,521	1,471	1,045	1,306	1,241	1,241	1,298		
Finland	975	957	726	998	1,003	1,078	1,080		
France	308	297	202	276	300	285	300		
Germany	1,505	1,574	1,320	1,509	1,502	1,313	1,091		
Italy	1,558	1,471	1,216	1,583	1,602	1,696	1,556		
Spain	1,105	998	693	844	807	844	855		
Sweden	645	574	445	546	586	510	501		
United Kingdom	351	340	224	279	330	294	257		
Other EU	148	158	114	152	188	195	211		
EU	8,115	7,838	5,986	7,494	7,559	7,455	7,147	5,898	6,171
USA	2,171	1,925	1,617	2,201	2,074	1,977	2,030		
Brazil	433	390	324	408	413	391	425		
Americas	2,604	2,315	1,942	2,609	2,486	2,368	2,454	1,824	2,097
Japan	3,882	3,567	2,607	3,427	3,247	3,166	3,175		
South Korea	1,942	1,660	1,677	2,048	2,157	2,167	2,143		
Taiwan, China	1,515	1,297	1,468	1,514	1,203	1,109	1,067		
China	7,206	6,943	8,805	11,256	14,091	16,087	18,984	14,176	16,022
India	1,966	1,832	1,721	2,022	2,163	2,279	2,403		
Asia	16,510	15,299	16,277	20,267	22,861	24,807	27,772	20,663	22,633
South Africa	651	528	546	480	443	503	492		
Russia	143	135	86	122	125	112	152		
Ukraine	124	104	67	118	147	118	112		
World	28,146	26,218	24,904	31,090	33,621	35,363	38,130	28,385	30,900

*Note:* Stainless melt shop production (ingot/slab equivalent).

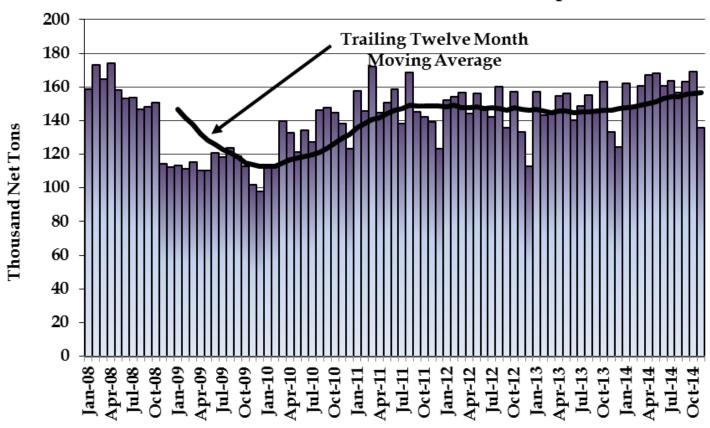
Note: Chinese data revised from 2011 to 2013.

Source: ISSF



# MSCI Total Stainless Shipments Improving Moderately, But Consistently

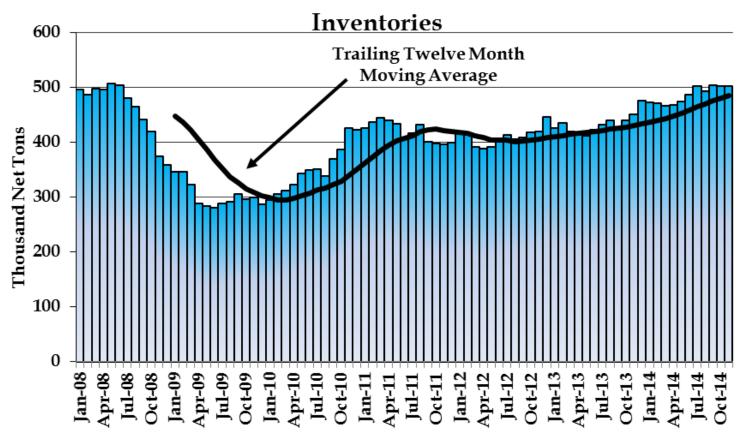
#### **USA Steel Service Center Total Stainless Shipments**





### MSCI Total Stainless Inventories Up 11% In 2014

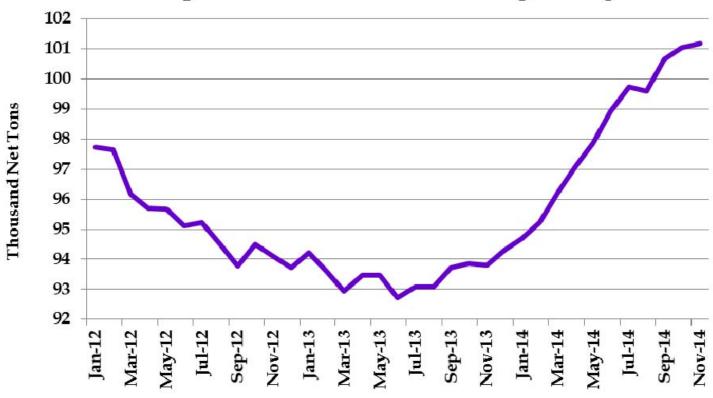
#### **USA Steel Service Center Total Stainless**





### MSCI Stainless Sheet & Coil Shipments Up 7.8% Year-Over-Year On A Trailing Twelve Month Moving Average

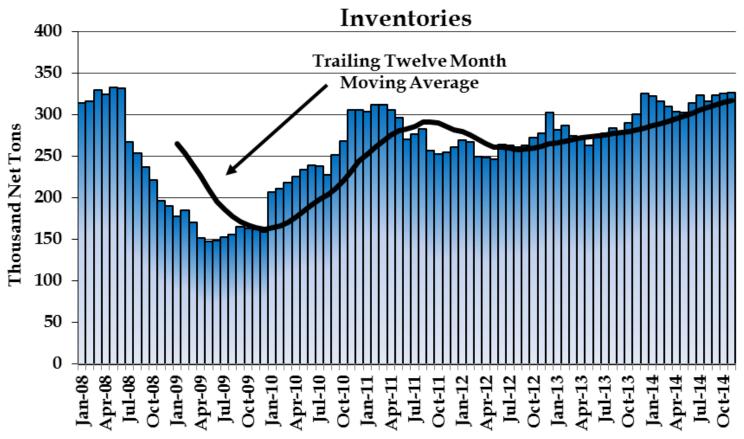
#### USA Steel Service Center Stainless Sheet & Coil Shipments Twelve Month Moving Average





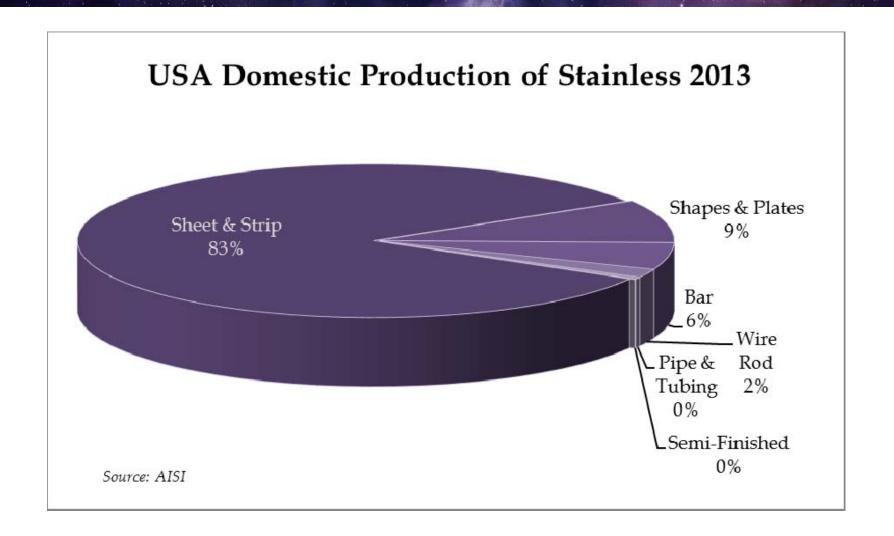
### MSCI Stainless Sheet & Coil Inventories Steadily Increasing

#### **USA Steel Service Center Stainless Sheet & Coil**





## Stainless Sheet & Strip Dominate USA Production



### USA Stainless Consumption up 6.5% in 2013; Sheet & Strip was up 20.7%

#### USA Stainless Shipments, Imports, Exports and Apparent Consumption

(thousand tons)

	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sheet & Strip	1,455	1,568	1,414	1,108	1,326	1,219	1,526	1,610	1,944
Shapes & Plates	264	299	264	212	206	221	262	261	265
Bar	136	144	142	152	100	141	156	157	166
Wire Rod	31	53	41	36	30	53	62	51	53
Pipe & Tubing	15	16	14	14	10	11	8	12	13
Semi-Finished	1	2	1	3	1	17	69	2	2
Net Shipments	1,903	2,081	1,877	1,525	1,672	1,662	2,082	2,093	2,443
Shipments to Reporting Companies	422	443	399	352	294	338	3	0	0
Total Gross Shipments	2,325	2,524	2,276	1,877	1,966	2,000	2,085	2,093	2,443
Imports	976	1,143	1,214	1,093	617	939	1,114	1,266	1,073
Exports	409	452	596	629	526	615	675	715	698
Apparent Steel Consumption	2,892	3,215	2,894	2,340	2,058	2,324	2,521	2,644	2,818

Source: AISI

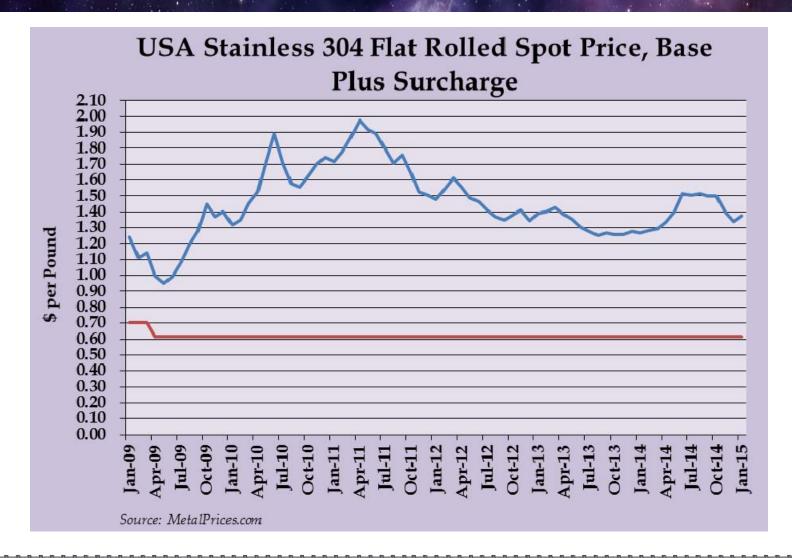


### USA Stainless Sheet Trends

- AK Steel produces 48" wide, NAS 60" wide, ATI's new mill 84" wide, Outokumpu Calvert 72" wide.
- ATI new mill in trials for the last 6 months; going "live" in the next month or so.
- Outokumpu Alabama mill had production challenges late in 2014.
- Imports are running at a historically high level and will continue to threaten.



# Stainless Sheet Prices Improved Through 2014, But Under Pressure At the End of the Year



### Nickel Prices At Historically Low Levels And Falling



### **USA Stainless Bar Trends**

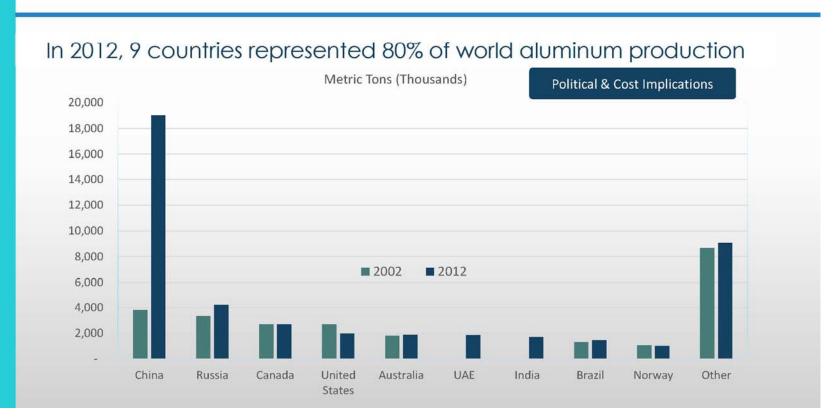
- North American Stainless running flat out, doing really well on bar products.
- No other domestic producers.
- After decades of trying, stainless bar is finally making inroads into rebar – MMFX, Nucor, NAS all producing. Better corrosion resistance eliminates the need for coating. Still more expensive, but use less volume. Starting to be competitive, and engineers are starting to include it in their projects.

## Stainless Bar Prices, Delivered to Europe, Under Some Pressure



## Global Aluminum Production - The Last Decade Brought Capacity Additions in China, India and the UAW

#### World Production: 2012 vs. 2002



Source: SBB Platts How the Aluminum Market Works, Scott Stewart, Black Hawk Resources



# North America Primary Aluminum Production Has Been Shifting From the USA to Canada – Highly Dependent on Power Cost to be Competitive

#### **Production of Primary Aluminum**

North America		
Millions of <u>Pounds</u>		
11,849.0 11,755.0		
12,438.9		
12,737.8 10,488.4		
10,340.6 10,957.3 10,694.6		
•		

#### **Conversion Factor:**

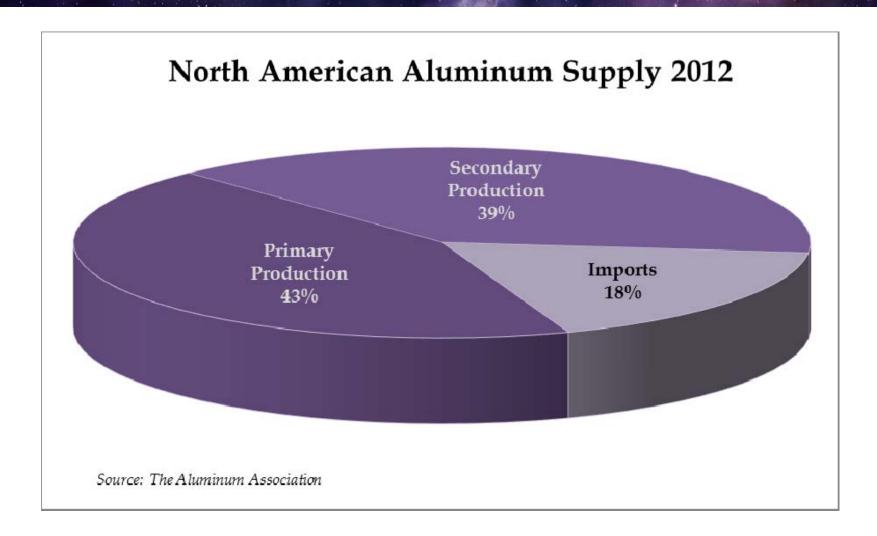
One metric ton = 2,204.6 pounds

#### Source:

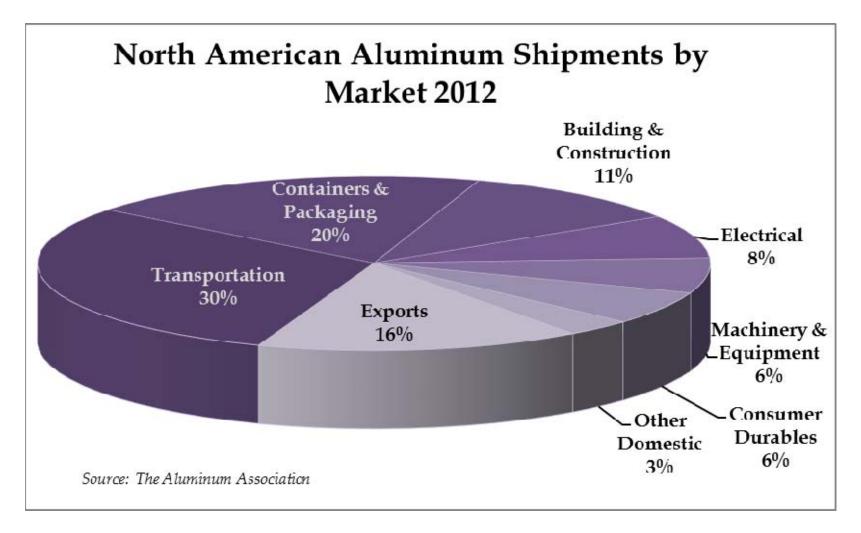
*U.S. - Bureau of Mines, Department of Interior; Department of Commerce and The Aluminum Association Inc. Canada - Natural Resources Canada, Aluminum Association of Canada and Alcan, Inc.* 



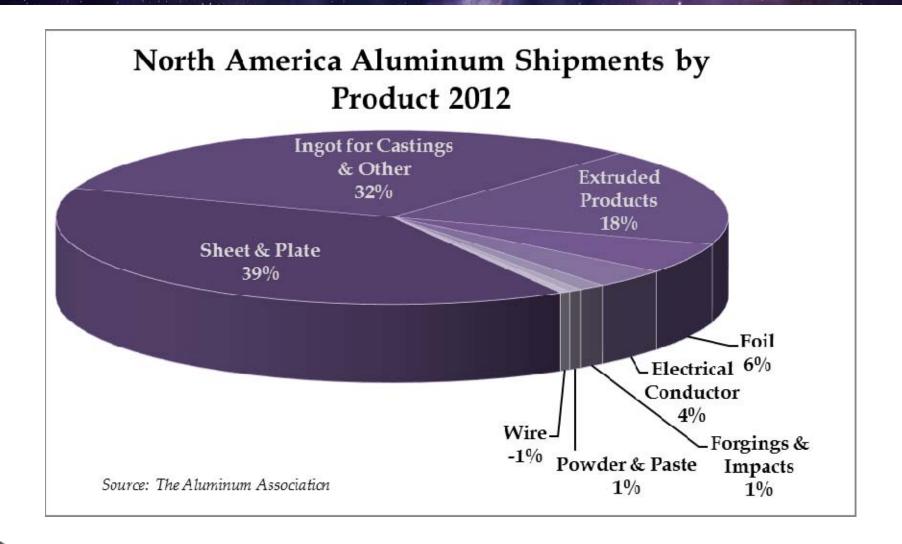
## North American Aluminum Supply of 24.6 Billion Pounds About Half Sourced Through Primary Production



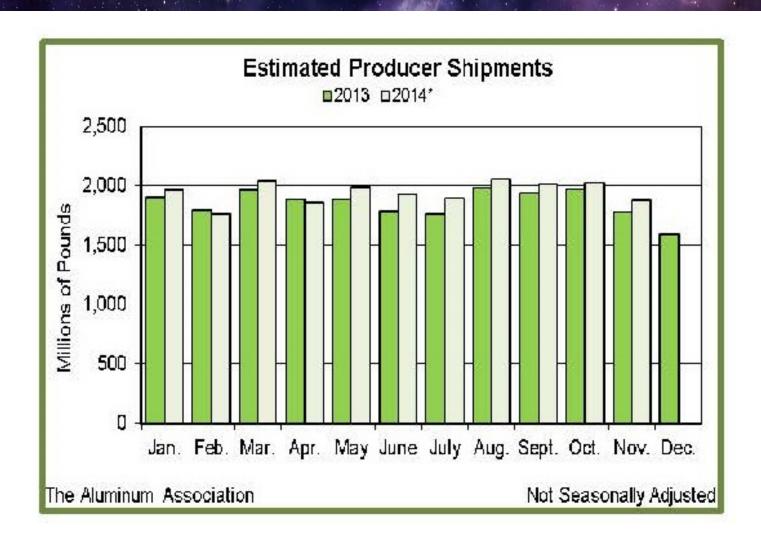
# North American Aluminum Market Shipments of 23.7 Billion Pounds Almost Equally Split Between Industrial and Consumer Spending



## North American Aluminum Sheet & Plate Shipments Account for 39% of the Market While Ingots For Castings Account for 32%



## US & Canadian Aluminum Producer Shipments Up 3.7% to 21.4 Million Pounds Through Nov 2014





## US & Canadian Aluminum Extruded Products Shipments Up 7.7% to 4.2 Million Pounds Through Nov 2014



# MSCI Aluminum Shipments Through November 2014 Were Higher Than The Full Year 2013

#### **MSCI Aluminum**

(thousand tons)

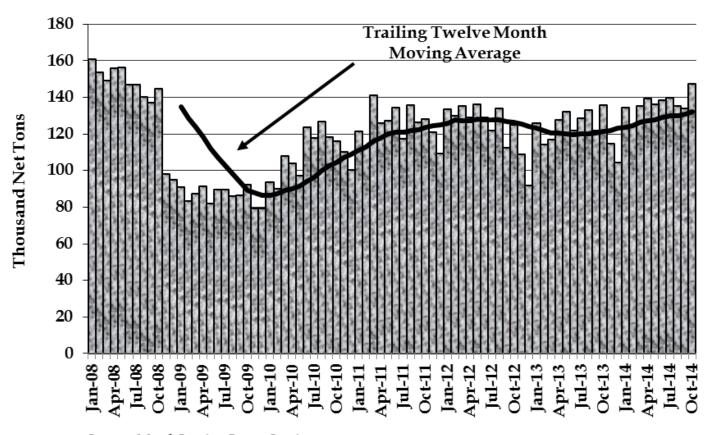
							YTD Nov
	2008	2009	2010	2011	2012	2013	2014
Total Aluminum							
Shipments	1,686	1,038	1,306	1,501	1,487	1,477	1,481
Ending Inventory	357	279	348	357	366	378	385
Months Suppy	2.54	3.23	3.20	2.85	2.95	3.07	
Aluminum Sheet & Coil							
Shipments	644	455	577	668	657	653	667
<b>Ending Inventory</b>	150	111	162	168	173	180	176
Months Suppy	2.79	2.92	3.36	3.02	3.16	3.30	

Source: MSCI



## MSCI Total Aluminum Shipments Up 16 Consecutive Months On A Trailing Twelve Month Moving Average

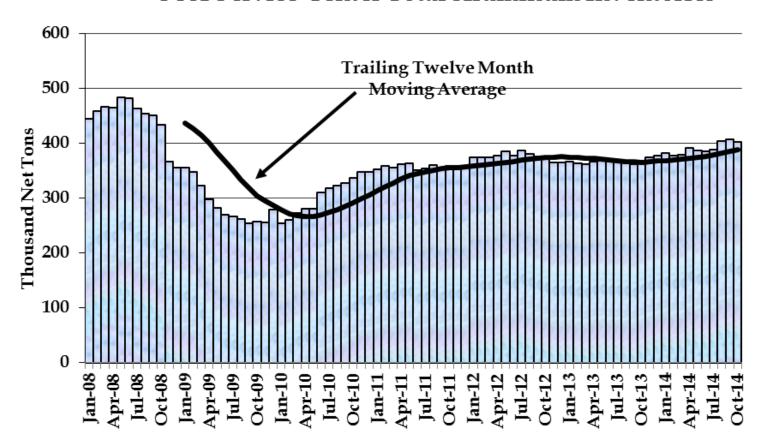
#### **USA Service Center Total Aluminum Shipments**





# MSCI Total Aluminum Inventories Also Building Marginally Over The Same 16 Months

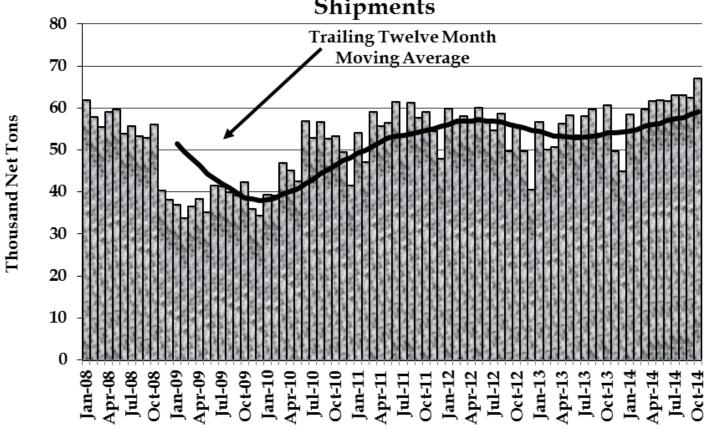
#### USA Service Center Total Aluminum Inventories





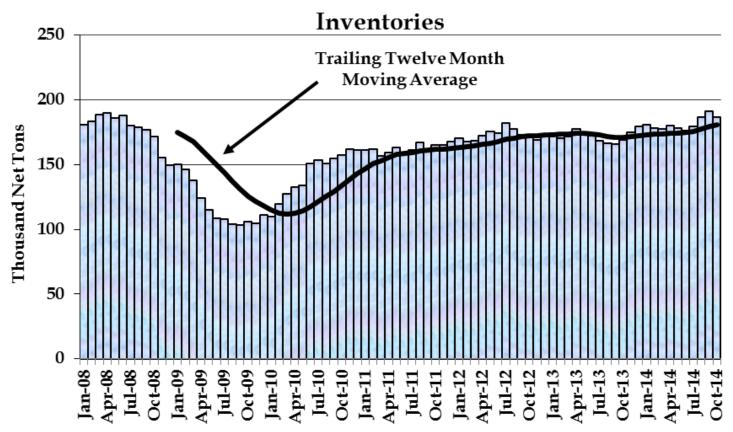
## MSCI Aluminum Sheet & Coil Shipments Up For 13 Consecutive Months

#### USA Service Center Aluminum Sheet & Coil Shipments



# MSCI Aluminum Sheet & Coil Inventories Up 20 Thousand Tons in Nov 2014 Compared to Nov 2013

#### **USA Service Center Aluminum Sheet & Coil**





## Alcoa's End Market Outlook for 2013

Al FI	A 4	O	A	- 4 0040	2040
Alcoa End	Warkets	Current	Assessment	01 /1113 1/5	/11/

	North America	Europe	China	Global
Aerospace				9%-10% sales growth
Automotive	0%- 4% prod growth	1%-4% prod decline	7%-10% prod growth	1%-4% prod growth
Heavy Truck & Trailer	15%-19% prod decline	6%-10% prod decline	12% - 19% prod growth	2%- 7% prod growth
Beverage Can Packaging	-1%-0% sales flat	2%-3% sales growth	8%-12% sales growth	2%-3% sales growth
Commercial Building and Construction	1%-2% sales growth	4%-6% sales decline	8%-10% sales growth	4%-5% sales growth
Industrial Gas Turbine				3%-5% airfoil market growth rate

Source: SBB Platts How the Aluminum Market Works, Scott Stewart, Black Hawk Resources



## Aluminum Prices Not Always Tied To Industry Fundamentals - "Collapsed" in December in "Sentiment Trading" With Oil



# Current Stock Market Valuation - Processors Trading at 0.65x Revenues and 9.8x EBITDA



#### **Comparable Processors/Distributors Valuation Multiples**

(\$ per millions, multiple)

	Market	Total		
	Capitalization	Enterprise	TEV/	TEV/
Company	(December 31)	Value (TEV)	Revenue	EBITDA
A. M. Castle & Co. (NYSE:CAS)	187.4	458.9	0.47x	NMF
Carpenter Technologies (CRS)	2,634.9	3,541.0	1.59x	12.2x
Gibraltar Industries, Inc. (NASDAQ:ROCK)	509.2	621.8	0.73x	9.5x
Klöckner & Co SE (XETRA:KCO.DE)	1,081.8	2,092.8	0.27x	8.6x
Metals USA-Buyout Valuation	766.8	1,203.1	0.61x	8.6x
Olympic Steel Inc. (NASDAQ:ZEUS)	197.7	461.6	0.33x	11.8x
Reliance Steel & Aluminum Co. (NYSE:RS)	4,783.6	7,087.4	0.70x	8.8x
Russel Metals (RUS.TO)	1,370.5	1,909.8	0.45x	6.8x
Ryerson, Inc.	273.1	1,414.5	0.40x	10.4x
Worthington Industries, Inc. (NYSE:WOR)	2,013.4	2,602.5	0.98x	11.8x
(1) Valuation when purchased by RESC April	l 15, 2013			
Average Multiple	·			
Mean			0.65x	9.8x
Median			0.54x	9.5x
Max			1.59x	12.2x
Min			0.27x	6.8x

NOTE: Figures are subject to substantial error. No investment decision should be taken based on information in this table.

Source: Company Reports, Jefferies Research & Yahoo Finance



## Steel-Insights, LLC - "Seeing" What Others Don't

In WWII, American submarine commanders endured despite being outclassed by superior equipment and outgunned (fully functioning torpedoes weren't available to them for the first 21 months of the Pacific War). In the fog of war, as often is the case in business, decisions with long impacting outcomes have to be made without the luxury of complete or definitive information.

Steel-Insights was formed to assist executive management teams navigate the "noise of battle" by more effectively managing the abundant resources available today and



harnessing those resources to explore thought provoking and penetrating issues in order to magnify the pivotal decisions required for the long-term success of their companies in arguably tough industries that must survive challenging cycles, i.e. training and empowering submarine commanders.



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## Conclusion & Questions



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