

Running Against the Wind: Economy & the Steel Industry Push Forward in the Face of Strong Headwinds

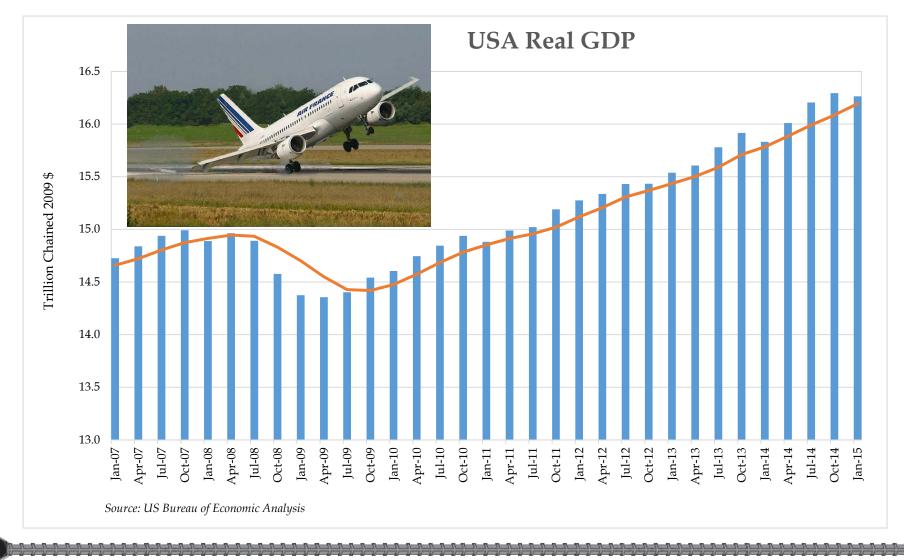


Presentation to: A Private Client Chicago, IL



by: Becky E. Hites, President June 24, 2015

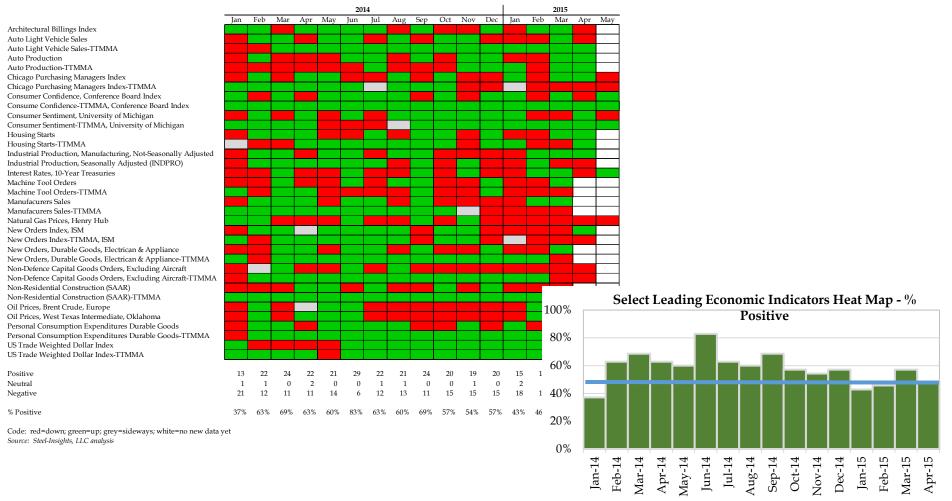
A Strong Dollar, the West Coast Port Strike and Persistently Disruptive Weather Short-Sheeted Q1 Economic Growth



Metabs, Mining & Manufacturing Strategic Consulting

Select Leading Indicators Heat Map Continues to Signal Economic Vulnerability – Only Half the Indicators Are Positive

Select Leading & Other Economic Indicators Heat Map-Month to Month Change

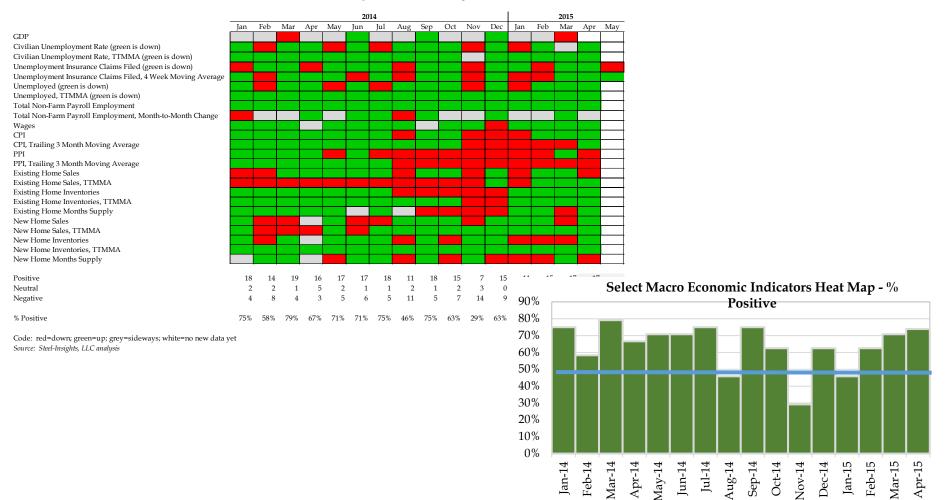


Source: Steel-Insights, LLC analysis

Metabs, Mining & Manufacturing Strategic Consulting

Select Macro Indicator Heat Map Pretty Positive Overall – Weighted to Employment, Wages, Inflation and Housing

Select USA Macro Economic Indicators Heat Map-Month to Month Change



Source: Steel-Insights, LLC analysis

Macro Economic Policy Events The Fed, Greece & FIFA



The Federal Reserve Bank continues to signal its intention to shift away from quantitative easing and back to a more "normal" stance by raising rates to add a time value to money. It will be gradual, including several small moves, and has been delayed more than once due to global and Wall Street pushback. Could come as early as September.



 Grexit – Greece's next debt hurdle date is July 30. Has created instability in the EU and brings Euro questions to the table. Will Greece be the only country to withdraw? Will Russia or China step up to provide a financial bridge to Greece?



FIFA corruption could derail next two World Cups. Soccer is big business globally.



Energy Highlights – Could be Low Cost, But We're Opting for a Cleaner Environment

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2009	2010	2011	2012	2013	

Oil has now been in global oversupply for 5 quarters – the longest period in my adult lifetime. *Bloomberg, June 16, 2015*



 Pope Francis has entered the clean environment fray with an "encyclical" calling for more action to halt climate change.



• Renewable energy generation could overtake coal in 15 year. *Financial Times, June 14, 2015*



Between now and 2040, expecting \$3.7 trillion in solar energy capital investments. Bloomberg Business, June 23, 2015



Global Dislocation Disrupting Economics



Russia Ukrainian border – Has seriously impacted steel production from Ukraine, which was low cost production, and has somewhat impacted raw material costs into Russia. Russia has rattled its saber about restricting scrap outflows due to shortages in the country.



Asylum seekers are creating an immigration crisis in Europe. Italy has threatened action and Hungary plans to erect a fence to block displaced migrants.



USA has approval from Germany to station heavy military equipment on NATO's eastern border.



Yemen – KSA led coalition air offensive in support of the contested president put in place after the Arab Spring of 2011. The current president has fled the country.



ISIS – USA has begun training forces in the region and sent Delta Force on targeted attacks after the conflict began to migrate to US soil.

Labor Shortage Could Be Developing; Challenging Contract Negotiations in Steel



 Goldman Sachs is forcing its 2,900 summer interns to leave the office at midnight, and not work Saturdays, as it competes to attract labor from other more appealing markets.



- 20 states have enacted minimum wage increases for 2015.
- Wal-Mart and McDonalds raising hourly wages.



Walmart 💥



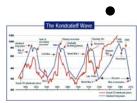


ArcelorMittal and US Steel union contracts are up in September. Negotiations have already started. It's likely to be a drawn out process with both sides in difficult positions. ATI is also in a contentious contract renegotiation.

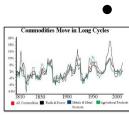
*ATI



Long Economic Cycle In a Downtrend



Soviet economist Nikolai Kondratiev published work in 1925 (previously observed by Dutch economists van Gelderen and de Wolff in 1913) postulating 50-60 year cycles – now known as K-Waves.



• This industry cyclical downturn is likely to be extended due to global overcapacity not only of steelmaking, but raw material supply as well.



The "normal" corrective forces in the USA have arguably been offset by the house financing bubble, followed by quantitative easing.



Global Trade Highlights



Export-Import Bank charter up for renewal. Jeff Immelt warned GE would withhold business from states where politicians block international trade and export credit support.





Trans-Pacific Partnership (TPP) – In negotiations since 2009. From the Trade Department website: "The United States is negotiating the TPP with 11 other like-minded countries (Australia, Brunei Darussalam, Canada, Chile, Japan, Malaysia, Mexico, New Zealand, Peru, Singapore, and Vietnam) that share a commitment to concluding a high-standard, ambitious agreement and to expanding the initial group to include additional countries throughout the Asia-Pacific region. We are in the endgame of negotiations, making TPP the most promising platform for Asia-Pacific regional trade integration." There's worry that the President won't adequately protect USA manufacturers interests.



Trade Promotion Authority (TPA) – Would authorize the president to negotiate on behalf of the USA for a straight up or down Congressional vote on the final agreement. Term would be 6 years into the next presidency. The hope is that the new TPP would reboot Regan's 3Rs – Rules, Reciprocity and Results – on trade.



USA Trade Legislation Overview

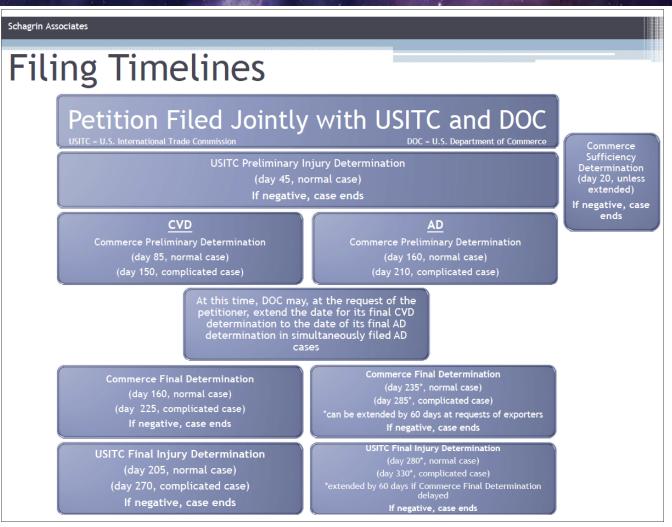
- TPA and TAA (Trade Adjustment Assistance) are now separate bills
- TPA has passed the house and has a good chance passing in the Senate again
- TAA (this is the one voted down week before last) could still be a challenge in the House and Senate, but with trade remedy and enforcement being used as a "sweetener" and with the traditional Democratic support that TAA has had, it appears to be in better standing than it was last week.
- Week before last the house passed the Custom's Bill, which included trade remedy and enforcement provisions.
- Trade remedy and enforcement provisions are in good shape with the custom's bill but they need to be implemented in a timely manner. Making them part of the TAA bill could help do this.
- President Obama is ready to sign both bills into law.

Source: Steel Manufacturers Association



USA Trade Case Timing Overview

Trade case filed June 4 alleging unfair trade of corrosion resistant products by China, India, Italy, South Korea & Taiwan. DOC makes determination up to day 160 and backdates 90 days, so products landing within 70 days from filing (by Aug 13) safe from penalty.



Source: Steel Market Update & Schagrin Associates, used with permission



The Trade Department's Definition of "Injury"

- Increased imports don't automatically imply injury.
- There are lots of discussions currently about what determines injury including the earlier mentioned customs bill.
- USA mills raised prices in Dec and again in June.
- Only the integrated mills are losing money.
- Minis are arguing that significantly underutilized capacity indicates injury.

USA & Mexico Capacity Additions



Big River Steel – 1.1 mm tpy sheet mill, planning to be in trials 1H 2016.



Gerdau – Monroe, MI engineered bar mill new 300K tpy line started-up Q4 2014. New reheat furnace to increase capacity started-up Q1 2015.



 Gerdau Corsa, Mexico – New 700K tpy structural shape mill (1 mm tpy crude steel). Rolling mill started up May 2015.



• New micro-bar mill rumored to be announced this summer for a location in TX north of Dallas.



- Commercial Metals rumored to be considering a second micro-bar mill to be constructed in Oklahoma.
- US Steel EAF in Fairfield, AL planned Q2 2016 start.



NAFTA Currently Has 14 Million Tons of Idled Steelmaking Capacity

- Canada Hamilton mill 2.0 mm tons, since Oct 2010
- Canada Essar 1.0 mm tons
- Mexico AHMSA 1.0 mm tons
- ArcelorMittal Indiana Harbor 5.0 mm tons
- US Steel Gary Works 1.4 mm tons
- US Steel Granite City 1.3 mm tons down for capital project
- US Steel Great Lakes 1.4 mm tons down intermittently



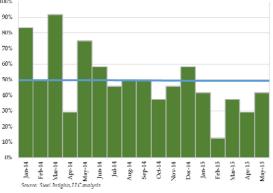
Global & USA Steel Production Heat Map More Red Than Green in 2015

Steel Production Heat Map-Month to Month Change

2015 2014 Jan Feb Mar Apr May Sep Oct Nov Dec Jan Mar Jun Iul Aug Feb Apr May Jun WSA Monthly Crude Steel Production-World WSA Monthly Crude Steel Production-China WSA Monthly Crude Steel Production-World ex China WSA Monthly Crude Steel Production-EU (27) WSD Monthly Crude Steel Production-USA WSA Monthly Crude Steel Production-World-Annualized WSA Monthly Crude Steel Production-China-Annualized WSA Monthly Crude Steel Production-World ex China-Annualized WSA Monthly Crude Steel Production-EU (27)-Annualized WSD Monthly Crude Steel Production-USA-Annualized WSA Monthly Crude Steel Production-World-TTMMA WSA Monthly Crude Steel Production-China-TTMMA WSA Monthly Crude Steel Production-World ex China-TTMMA WSA Monthly Crude Steel Production-EU (27)-TTMMA WSD Monthly Crude Steel Production-USA-TTMMA AISI Weekly Crude Steel Production AISI Weekly Crude Steel Production-Monthly Annualized TTMMA AISI Steel Production Utilization Rate AISI Steel Production Utilization Rate-Monthly TTMMA AISI Monthly Steel Shipments AISI Monthly Steel Shipments Year-Over-Year Change AISI Monthly Imports AISI Monthly Exports AISI Imports as a Percent of Apparent Steel Consumption 3 Positive 20 12 22 12 9 10 7 18 14 11 12 11 14 Neutral 3 3 1 2 2 100% 1 4 0 2 0 1 2 3 1 Negative 3 2 15 6 9 11 9 12 12 9 12 19 905 % Positive 83% 50% 92% 29% 75% 58% 46% 50% 50% 38% 46% 58% 42% 13% 80%

Code: red=down; green=up; grey=sideways; white=no new data yet

Steel Production Heat Map - % Positive





World Crude Production Sideways at 1.6 Billion Tonnes; China Sideways; USA Down

WSA Crude Steel Production

(million metric tonnes)

		Annual	ized Run Ra	ate			Anualized I	Run Rate TT	MMA	
			World x					World x		
	World	China	China	USA	EU 27	World	China	China	USA	EU 27
Jan 14	1,625	820	805	86	172	1,586	781	805	87	167
Feb 14	1,654	820	834	89	181	1,588	782	807	87	167
Mar 14	1,670	828	842	88	182	1,595	786	809	87	169
Apr 14	1,676	844	832	87	175	1,600	789	811	87	169
May 14	1,667	829	838	88	176	1,605	793	813	87	169
Jun 14	1,682	843	839	89	175	1,612	797	815	87	170
•										
Jul 14	1,616	804	812	91	163	1,617	800	817	88	170
Aug 14	1,596	811	785	91	143	1,621	803	818	88	170
Sep 14	1,639	822	818	89	173	1,623	805	818	88	170
Oct 14	1,610	795	815	87	174	1,626	807	818	88	170
Nov 14	1,590	770	820	88	173	1,628	810	819	88	170
Dec 14	1,578	763	814	86	154	1,633	812	821	88	170
Jan 15	1,614	807	806	85	171	1,632	811	821	88	170
Feb 15	1,628	807	821	81	182	1,630	810	820	88	170
Mar 15	1,626	818	808	76	182	1,627	810	817	87	170
Apr 15	1,642	838	804	78	173	1,624	809	815	86	170
May 15	1,640	824	817	81	178	1,622	809	813	85	170

Source: World Steel Association



USA Domestic Shipments Are Down 11.3% and Consumption is Down 6.5% on Annualized Data Through April

Total Steel Mill Product - Shipments, Imports, Exports and Apparant Steel Consumption

(million tons)

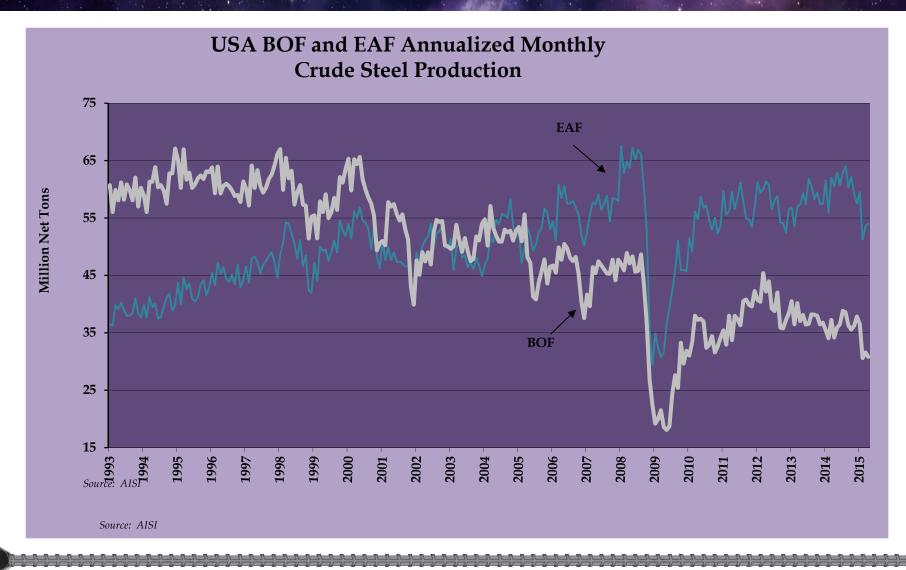
								Year To Year % Change									
	Total		Domestic		Apparent	Import	Total		Domestic		Apparent						
	Shipments -	Exports :	= <u>Shipments</u> +	<u>Imports</u> =	Consumption	Penetration	Shipments	Exports	Shipments	Imports	Consumption						
2005	103,223	9,393	93,830	31,844	125,674	25.3%	-7.0%	19.0%	-9.0%	-11.1%	-9.5%						
2006	108,609	9,727	98,882	45,273	144,155	31.4%	5.2%	3.6%	5.4%	42.2%	14.7%						
2007	106,112	11,082	95,030	33,244	128,273	25.9%	-2.3%	13.9%	-3.9%	-26.6%	-11.0%						
2008	97 <i>,</i> 956	13,476	84,480	31,927	116,407	27.4%	-7.7%	21.6%	-11.1%	-4.0%	-9.3%						
2009	60,346	9,271	51,076	15,778	66,853	23.6%	-38.4%	-31.2%	-39.5%	-50.6%	-42.6%						
2010	83,369	11,904	71,465	23,929	95,394	25.1%	38.2%	28.4%	39.9%	51.7%	42.7%						
2011	91,865	13,454	78,412	28,515	106,927	26.7%	10.2%	13.0%	9.7%	19.2%	12.1%						
2012	95 <i>,</i> 949	13,745	82,204	33,475	115,679	28.9%	4.4%	2.2%	4.8%	17.4%	8.2%						
2013	95,423	12,682	82,741	32,151	114,892	28.0%	-0.5%	-7.7%	0.7%	-4.0%	-0.7%						
2014	98,249	12,044	86,204	44,338	130,542	34.0%	3.0%	-5.0%	4.2%	37.9%	13.6%						
2015e	87,141	10,633	76,508	45,667	122,175	37.4%	-11.3%	<i>-</i> 11.7%	-11.2%	3.0%	-6.4%						

(Note: 2015 annualized on data through April.)

Source: AISI

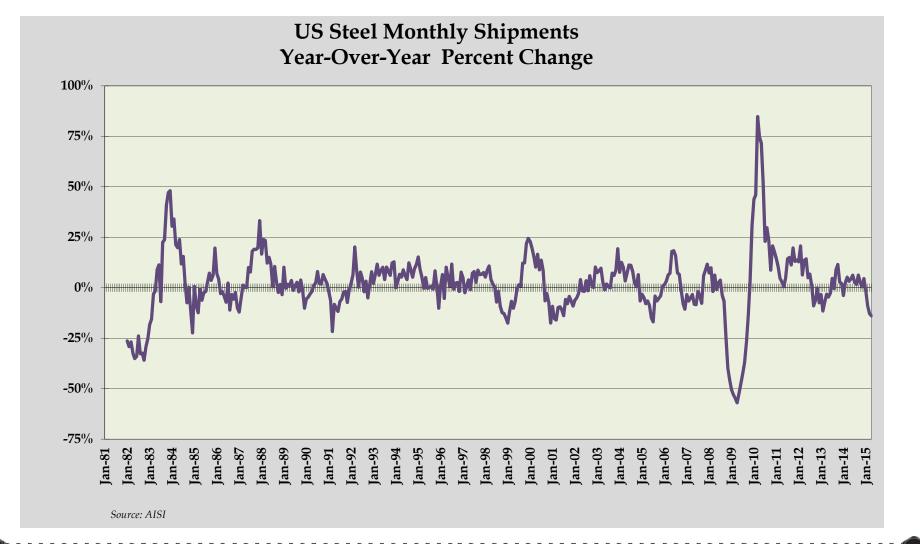


Lower Shipment Pain is Being Felt by EAF Mills as Well as Integrated Mills





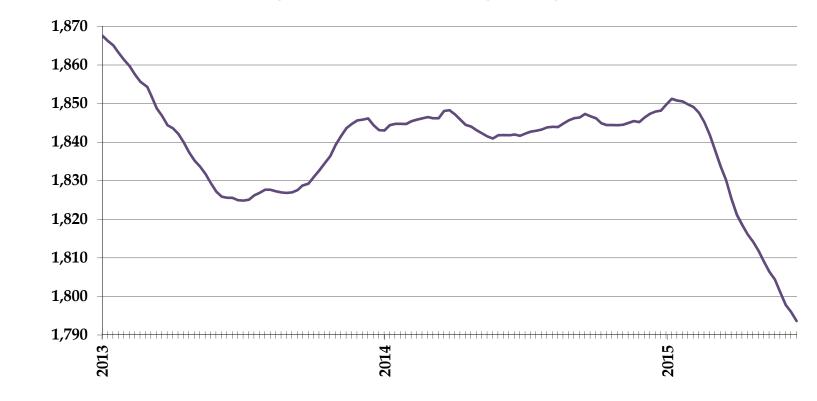
Weakness Started in Pipe & Tube, But Now Other Product Trends Are Flat to Down As Well



Metabs Mining & Manufacturing Strategic Consulting

Weekly Production Decline Has Stopped, But Not Yet on a TTMMA Basis

Weekly Estimated USA Crude Steel Production Trailing Twelve Month Moving Average

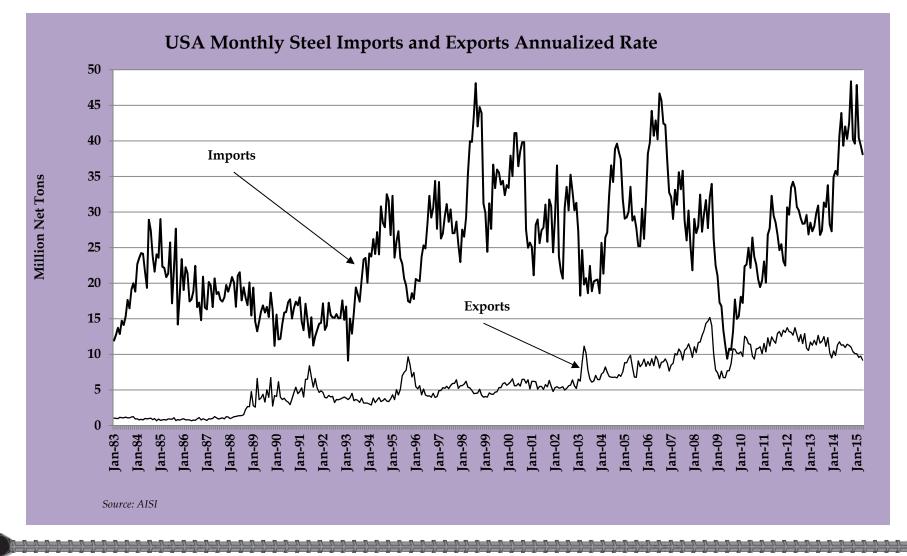


Source: AISI

Metals, Mining & Manufacturing Strategic Consulting

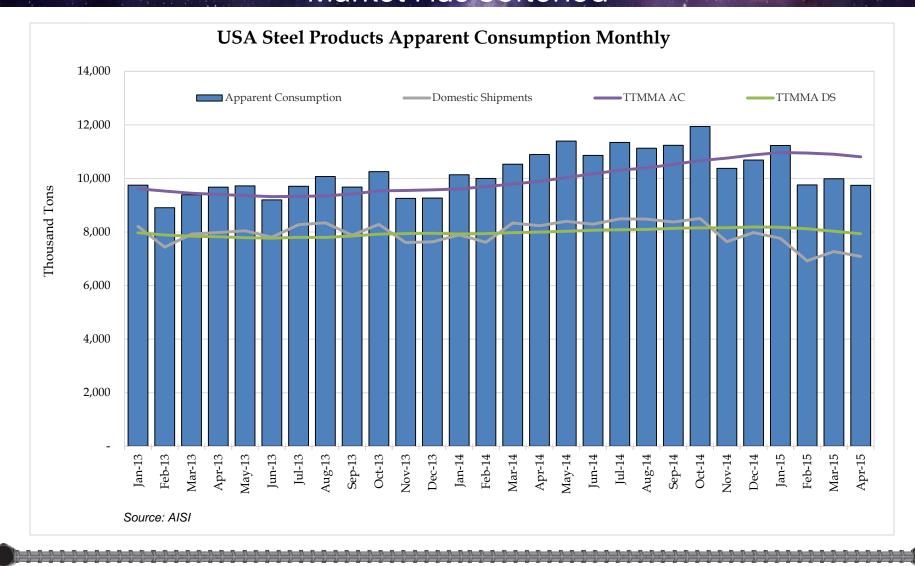
Thousand Tons

April Imports Were 36% of Consumption, Down From 39% in January



Metabs, Mining & Manufacturing Strategic Consulting

Total Steel Consumption Trend Showing Signs Of A Downtrend; So It's Not Just An Import Problem Anymore – The Market Has Softened





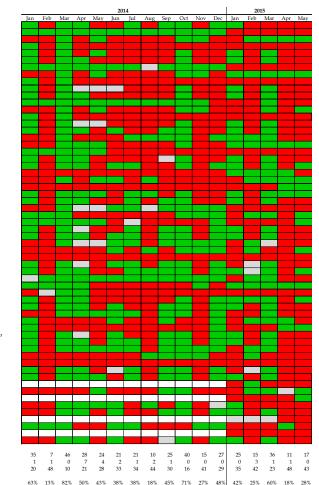
USA Service Center Carbon Inventories Are Still Too High Relative to Current Domestic Market Demand

USA Service Center Carbon Steel Shipments & Inventory Data Heat Map-Month to Month Change

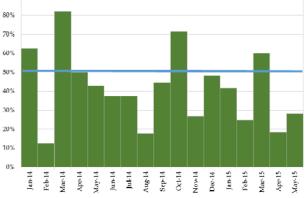
MSCI Service Center Shipments MSCI Service Center Shipments-TTMMA MSCI Service Center Inventory Level MSCI Service Center Inventory Level-TTMMA MSCI Inventory/Shipment Ratio MSCI Flat Rolled Shipments MSCI Flat Rolled Shipments-TTMMA MSCI Flat Rolled Inventory Level MSCI Flat Rolled Inventory Level-TTMMA MSCI Flat Rolled Inventory/Shipment Ratio MSCI Hot Rolled Shipments MSCI Hot Rolled Shipments-TTMMA MSCI Hot Rolled Inventory Level MSCI Hot Rolled Inventory Level-TTMMA MSCI Hot Rolled Inventory/Shipment Ratio MSCI Cold Rolled Shipments MSCI Cold Rolled Shipments-TTMMA MSCI Cold Rolled Inventory Level MSCI Cold Rolled Inventory Level-TTMMA MSCI Cold Rolled Inventory/Shipment Ratio MSCI Coated Shipments MSCI Coated Shipments-TTMMA MSCI Coated Inventory Level MSCI Coated Inventory Level-TTMMA MSCI Coated Inventory/Shipment Ratio MSCI Bar Shipments MSCI Bar Shipments-TTMMA MSCI Bar Inventory Level MSCI Bar Inventory Level-TTMMA MSCI Bar Inventory/Shipment Ratio MSCI Structural Shipments MSCI Structural Shipments-TTMMA MSCI Structural Inventory Level MSCI Structural Inventory Level-TTMMA MSCI Structural Inventory/Shipment Ratio MSCI Plate Shipments MSCI Plate Shipments-TTMMA MSCI Plate Inventory Level MSCI Plate Inventory Level-TTMMA MSCI Plate Inventory/Shipment Ratio MSCI Structural Tubing Shipments MSCI Structural Tubing Shipments-TTMMA MSCI Structural Tubing Inventory Level MSCI Structural Tubing Inventory Level-TTMMA MSCI Structural Tubing Inventory/Shipment Ratio MSCI Wide Flange Shipments MSCI Wide Flange Shipments-TTMMA MSCI Wide Flange Inventory Level MSCI Wide Flange Inventory Level-TTMMA MSCI Wide Flange Inventory/Shipment Ratio MSCI Standard Pipe Shipments MSCI Standard Pipe Shipments-TTMMA MSCI Standard Pipe Inventory Level MSCI Standard Pipe Inventory Level-TTMMA MSCI Standard Pipe Inventory/Shipment Ratio MSCI Pipe & Tube Shipments MSCI Pipe & Tube Shipments-TTMMA MSCI Pipe & Tube Inventory Level MSCI Pipe & Tube Inventory Level-TTMMA MSCI Pipe & Tube Inventory/Shipment Ratio

Positive for Higher Prices Neutral Negative for Higher Prices

% Positive for Higher Prices



USA Service Center Carbon Steel Shipment & Inventory Heat Map - % Positive for Higher Prices



Source: Steel Insights, I.I.C.analyse

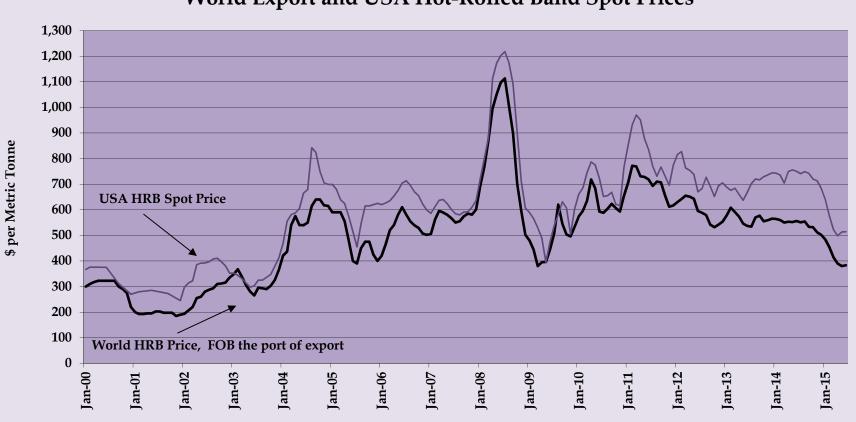
90%

Shipments Code: red=down; green=up; grey=sideways; white=no new data yel Inventory Code: red=up; green=down; grey=sideways; white=no new data yet

Inventory Code: red=up; green=down; grey=sideways; white=no new data yet Inventory/Shipments Ratio Code: red=up; green=down; grey=sideways; white=no new data ye



USA Hot-Rolled Band Prices Have Bottomed (Plus \$20 Per Ton) While Global Prices Remain Under \$400 Per Metric Tonne

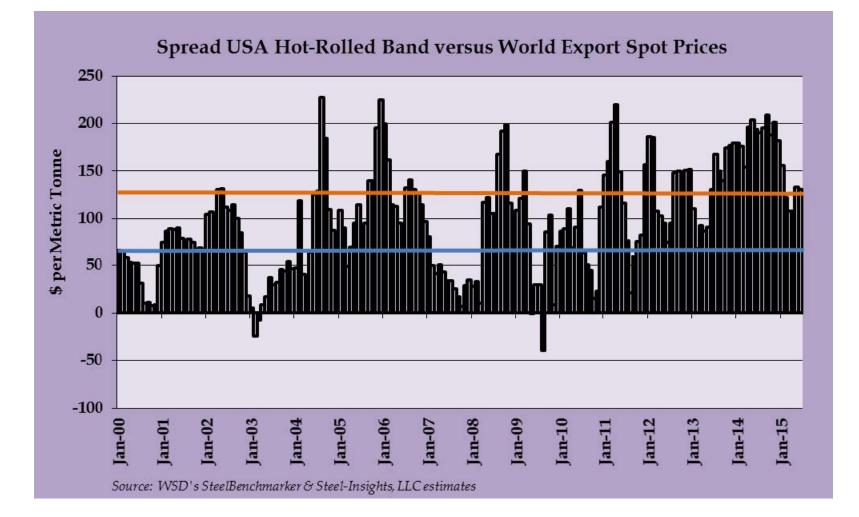


World Export and USA Hot-Rolled Band Spot Prices

Source: WSD's SteelBenchmarker & Steel-Insights, LLC estimates

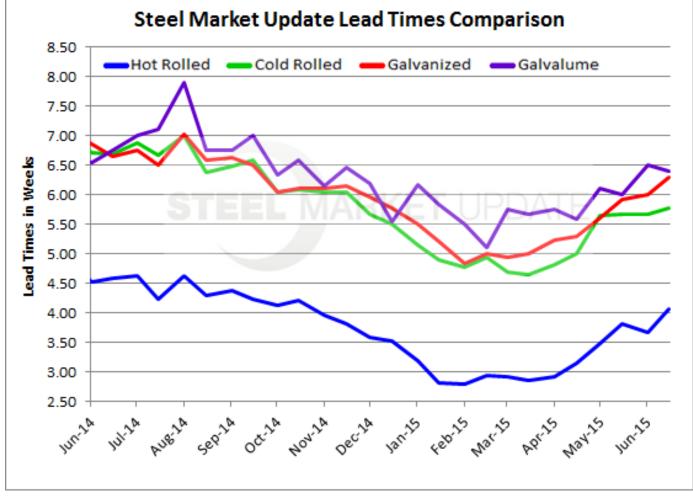
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Ocean Shipping Generally Estimated at \$50 Per Tonne. At Spreads Over \$100 Per Tonne, Many Customers Will Take the 6 Week Delivery Period Price Risk





USA Mill Lead Times Are Extending

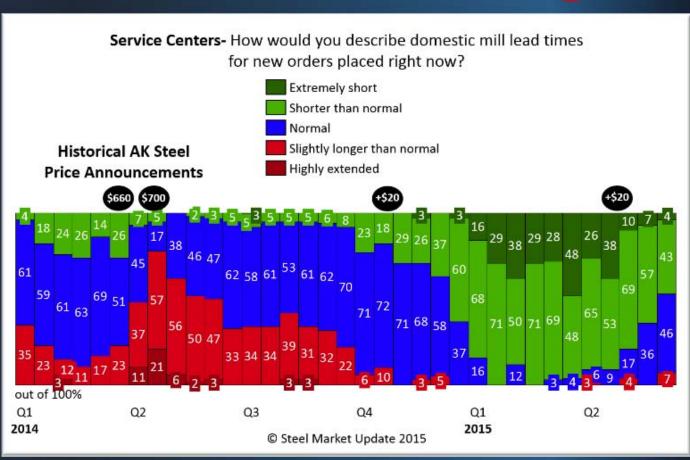


Source: Steel Market Update, used with permission



SMU Service Center Lead Time Survey Indicates a Trend Back Toward Normal

Mill Lead Times History



Source: Steel Market Update, used with permission

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STEEL MARKET UPDATE

USA Prices Overall Starting to Improve; But Are Still Declining Globally

Raw Material Cost & Finished Steel Prices Heat Map-Month to Month Change

2014 2015 Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jan Jun USA #1 Heavy Melt Scrap Spot Price USA Shredded Scrap Spot Price USA Busheling Scrap Spot Price USA Spread Shredded to #1HM Scrap Spot Price Iron Ore Spot Iodex 62% Fe Price, CFR Tianjin Port Coking Coal Spot Price, FOB Australia Met Coke Spot Price, FOB China Scrap Metallic Comp - BF/BOF Raw Material Cost Ratio Scrap to BF/BOF Metallics HBI Spot Price, FOB South America Pig Iron Spot Price, FOB N. Brazil Slab Spot Price, FOB Port of Export Billet Spot Price, FOB Port of Export World Export Price, Hot-Rolled Band USA Price, Hot-Rolled Band Spread USA Price to World Export Price, Hot-Rolled Band Spread USA HRB to #1 HM China Price, Hot-Rolled Band Spread World Export HRB to China HRB Price USA Plate Price USA Rebar Price

Code: red=down; green=up; grey=sideways; white=no new data yet



Raw Material Prices Have Firmed in the USA, But Are Still Dropping Globally

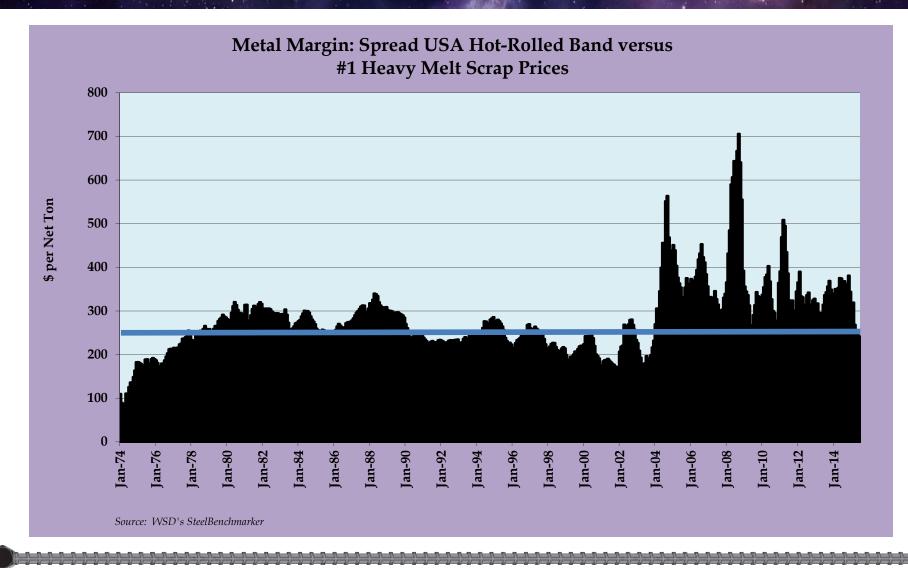
Raw Material Cost & Finished Steel Prices Monthly Data

	2014											2015						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
USA #1 Heavy Melt Scrap Spot Price	392	356	348	366	348	343	347	349	350	333	298	310	315	227	230	230	235	252
USA Shredded Scrap Spot Price	421	383	374	394	377	363	373	376	371	352	321	328	336	241	232	260	275	285
USA Busheling Scrap Spot Price	429	396	386	399	392	400	396	399	400	384	356	353	355	256	247	250	255	280
USA Spread Shredded to #1HM Scrap Spot Price	29	27	26	28	29	20	26	27	21	19	23	18	21	14	2	30	40	33
Iron Ore Spot Iodex 62% Fe Price, CFR Tianjin Port	128	121	112	112	101	93	96	92	78	83	69	71	62	65	51	47	61	61
Coking Coal Spot Price, FOB Australia	133	127	118	118	116	115	114	114	113	113	113	114	114	112	108	92	90	87
Met Coke Spot Price, FOB China	248	234	208	208	196	191	181	176	175	175	180	189	185	175	170	165	150	146
Scrap Metallic Comp - BF/BOF Raw Material Cost	356	341	319	319	299	286	290	284	261	268	246	250	236	239	214	194	217	214
Ratio Scrap to BF/BOF Metallics	1.10	1.04	1.09	1.09	1.16	1.20	1.20	1.23	1.34	1.24	1.21	1.24	1.34	0.95	1.07	1.18	1.09	1.18
HBI Spot Price, FOB South America	335	330	325	325	330	325	320	315	320	320	315	310	305	270	255	250	245	235
Pig Iron Spot Price, FOB N. Brazil	402	397	392	392	403	398	395	395	401	400	375	350	355	290	275	260	270	285
Slab Spot Price, FOB Port of Export	500	515	520	520	520	515	516	510	500	490	485	445	432	405	365	345	325	305
Billet Spot Price, FOB Port of Export	525	535	530	530	515	520	510	500	510	505	470	445	425	410	385	350	300	265
Hot-Rolled Band Prices																		
World Export	564	560	550	553	552	556	551	554	533	532	512	502	484	453	414	390	380	383
USA	743	736	704	749	756	750	741	749	742	720	713	684	640	575	522	498	513	514
Spread USA to World Export	179	176	154	196	204	194	190	195	209	188	201	182	156	122	108	108	133	131
USA-\$ per net ton	674	668	639	679	686	680	672	679	673	653	647	621	581	522	474	452	465	466
USA #1 HM-\$ per net ton	350	318	311	327	311	306	310	312	313	297	266	277	281	203	205	205	210	225
Spread USA to #1 HM	324	350	328	353	375	374	362	368	361	356	381	344	299	319	268	246	256	241
				150			150		10.1		107	105	2.11					
China	475	474	448	459	454	452	450	452	436	414	407	405	361	350	352	330	325	321
Spread World Export to China	89	86	102	94	98	104	101	102	97	118	105	97	123	103	62	60	55	62
USA Plate Price-\$ per net ton	796	797	820	814	837	858	863	873	860	842	808	800	731	685	672	584	567	576
USA Rebar Prices-\$ per net ton	643	640	635	635	635	633	632	632	649	644	640	635	631	613	576	563	572	585

Source: Market Sources & Steel-Insights, LLC estimates



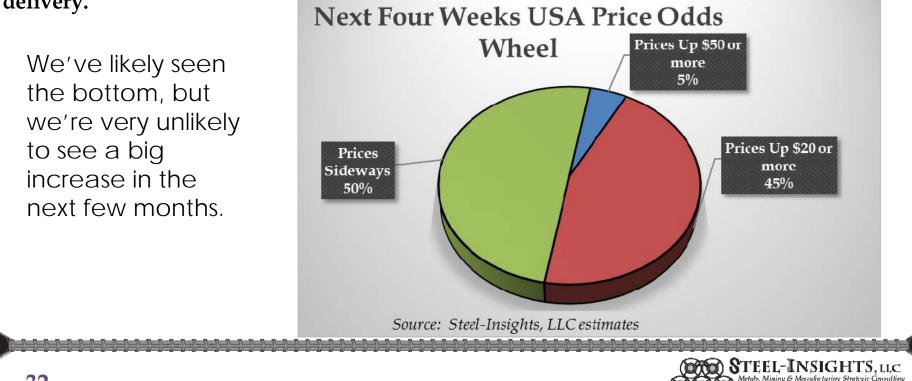
Metal Margin of Hot-Rolled Band to Scrap Remains Rich at \$250 Per Ton



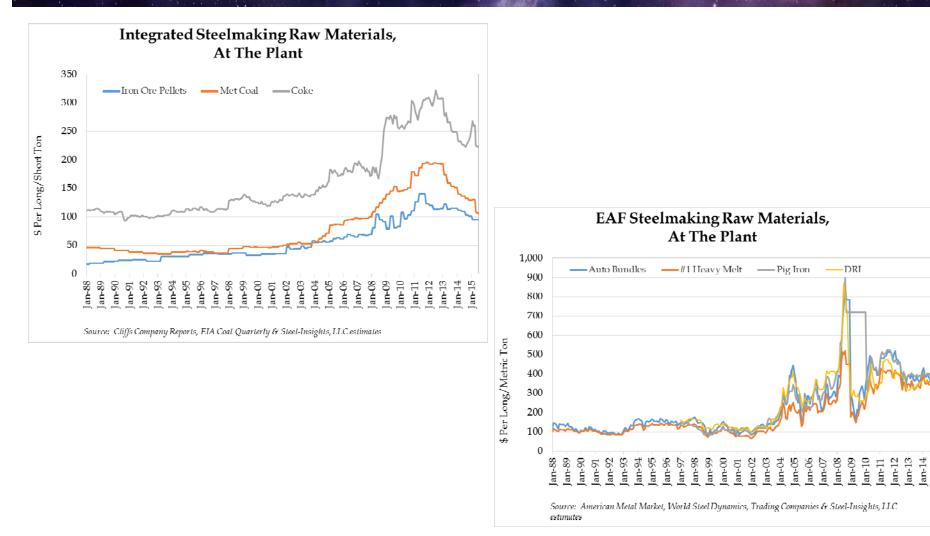
USA Prices SHOULD Come Down to Protect the Market Against Imports, But it Doesn't Seem Like the Mills Are On That Page

Of the \$40 per ton price increases announced in the USA, about \$15 per ton has stuck. The USA mill quotes have firmed and no one has broken ranks yet. That being said, the end market prices haven't improved substantially, and the margins are really thin.

Despite extending mill lead times, there's plenty of steel available. In Houston for \$20 per pound plus Russian steel for \$19.50. In Tulsa. While import quotes are down, the big traders are still soliciting business and there's a lot of steel on the water for September/October delivery.



USA Steel Producer Costs Have Dropped Through Both Steelmaking Processes





Jan-15

EAF Mills Have An 8% Cost Advantage Assuming 100% Spot Raw Material Costs

Hot-Rolled Band Production Costs 900 Integrated Mill EAF Mill 850 800 750 700 650 600 550 500 \$ Per Ton 450 400 350 300 250 200 150 100 50 0 Jan-89 Jan-98 Jan-99 Jan-15 Jan-88 Jan-90 Jan-92 Jan-93 Jan-94 Jan-95 Jan-96 Jan-97 Jan-00 Jan-01 Jan-02 Jan-03 Jan-04 Jan-05 Jan-06 Jan-08 Jan-09 Jan-10 Jan-12 Jan-13 Jan-14 Jan-07 Jan-11 an-91 Source: Steel-Insights, LLC estimates

Metabs. Mining & Manufacturing Strategic Consulting

USA Market Prices for HRB Have Dropped Below Integrated Makers Cost to Produce

USA Hot-Rolled Band Production Costs Versus USA HRB Spot Price





USA Service Center Stainless Steel Shipment & Inventory Trends Turned Decidedly Negative in April

USA Service Center Stainless Steel Shipments & Inventory Data Heat Map-Month to Month Change

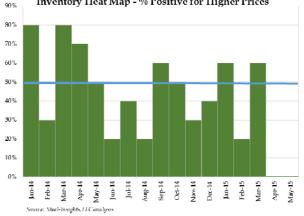
	2014												2015						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May		
MSCI Stainless Shipments																			
MSCI Stainless Shipments-TTMMA																			
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MSCI Stainless Sheet & Coil Inventory/Shipment Ratio																			
Positive for Higher Prices	8	3	8	7	5	2	4	2	6	5	3	4	6	2	6	0	0		
Neutral	0	1	0	0	2		0		0	2	0	0	0	1	0	0	0		
Negative for Higher Prices	2	6	2	3	3	8	6	7	4	3	7	6	4	7	4	10	10		
% Positive for Higher Prices	80%	30%	80%	70%	50%	20%	40%	20%	60%	50%	30%	40%	60%	20%	60%	0%	0%		

Shipments Code: red=down; green=up; grey=sideways; white=no new data yet

Inventory Code: red=up; green=down; grey=sideways; white=no new data yet

Inventory/Shipments Ratio Code: red=up; green=down; grey=sideways; white=no new data yet

USA Service Center Stainless Steel Shipment & Inventory Ileat Map - % Positive for Iligher Prices



Metabs, Mining & Manufacturing Strategic Consulting

MSCI Stainless Steel Shipments Annualized Through May 2015 Tracking down 0.8% Compared to a 7.3% Gain in 2014. Sheet & Coil Shipments up 0.3% in 2015.

USA Service Center Stainless Steel Shipments & Inventory

(thousand tons)

	2008	2009	2010	2011	2012	2013	2014	2015e	
Total Stainless									
Shipments	1,808	1,354	1,581	1,786	1,753	1,766	1,895	1,880	
Ending Inventory	359	287	423	400	446	476	541	546	
Months Suppy	2.38	2.54	3.21	2.69	3.05	3.23	3.42	3.49	
Stainless Sheet & Coil									
Shipments	1,109	791	1,074	1,184	1,125	1,132	1,224	1,228	
Ending Inventory	190	159	307	261	303	326	368	366	
Months Suppy	2.06	2.41	3.43	2.65	3.24	3.46	3.60	3.58	

Note: 2015e annualized based on data through May 2015.

Source: MSCI

USA Stainless Consumption off 0.6% in 2014; Sheet & Strip was down 0.8%

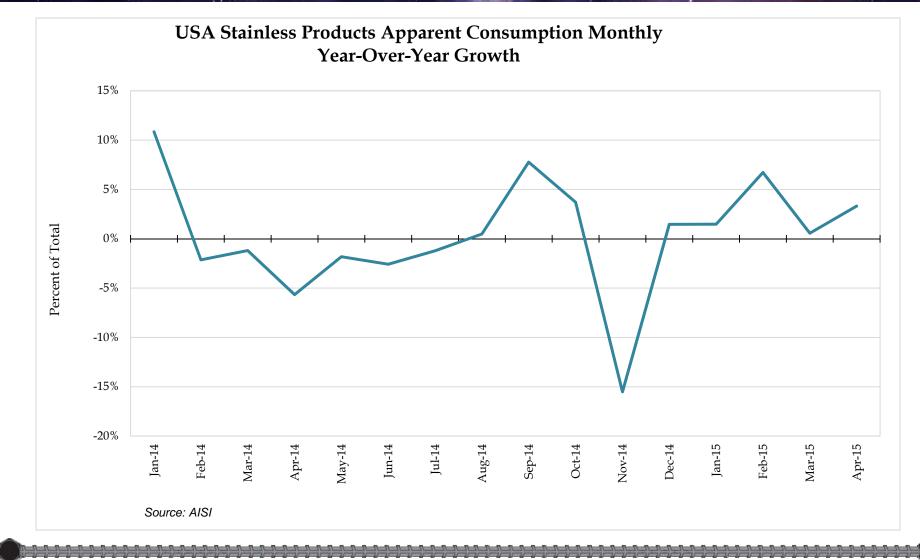
USA Stainless Shipments, Imports, Exports and Apparent Consumption (thousand tons)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Sheet & Strip	1,455	1,568	1,414	1,108	1,326	1,219	1,526	1,610	1,944	1,928
Shapes & Plates	264	299	264	212	206	221	262	261	265	315
Bar	136	144	142	152	100	141	156	157	166	191
Wire Rod	31	53	41	36	30	53	62	51	53	54
Pipe & Tubing	15	16	14	14	10	11	8	12	13	13
Semi-Finished	1	2	1	3	1	17	69	2	2	3
Net Shipments	1,903	2,081	1,877	1,525	1,672	1,662	2,082	2,093	2,443	2,505
Shipments to Reporting Companies	422	443	399	352	294	338	3	0	0	0
Total Gross Shipments	2,325	2,524	2,276	1,877	1,966	2,000	2,085	2,093	2,443	2,505
Imports	976	1,143	1,214	1,093	617	939	1,114	1,266	1,073	1,221
Exports	409	452	596	629	526	615	675	715	698	925
Apparent Steel Consumption	2,892	3,215	2,894	2,340	2,058	2,324	2,521	2,644	2,818	2,801

Source: AISI

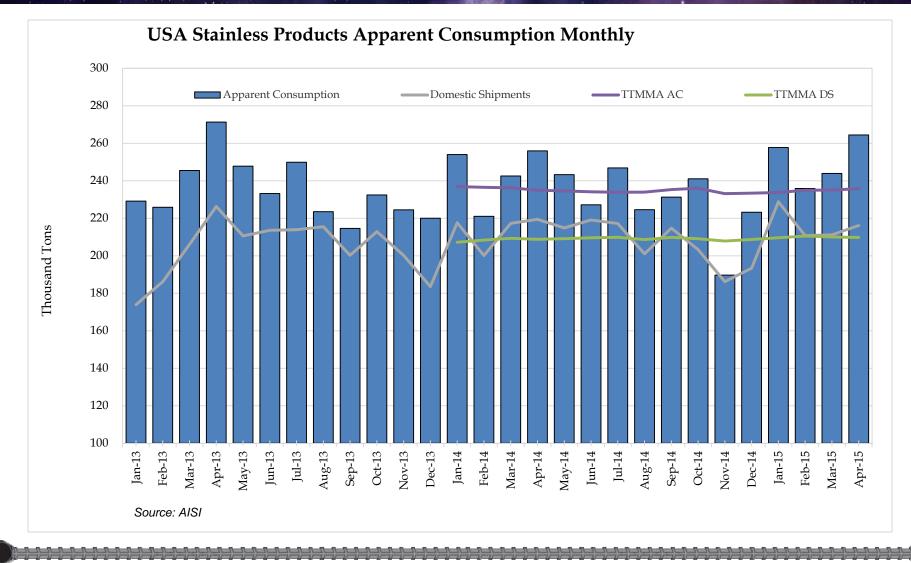


Stainless Consumption Up Slightly in 2015



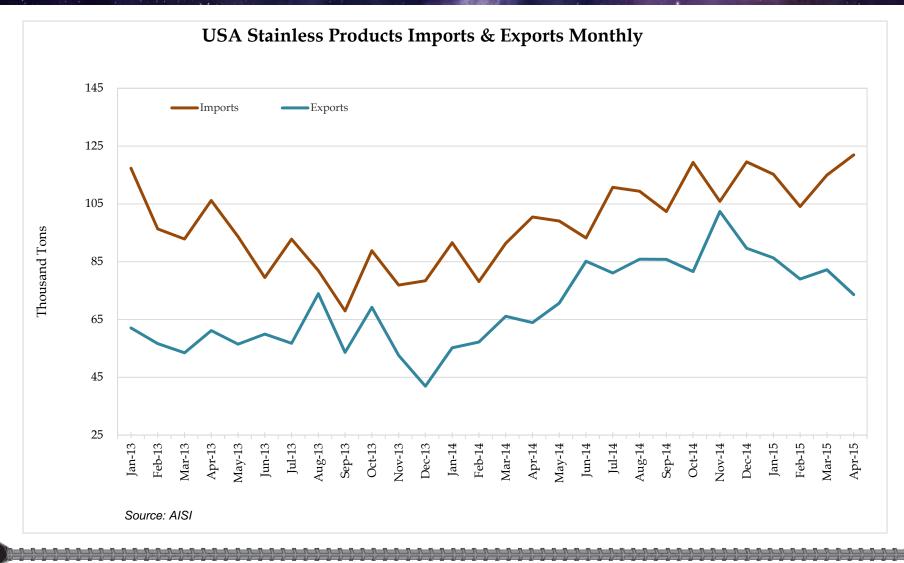


AISI Monthly Stainless Shipments & Consumption Trend Looks Pretty Flat





Imports as a Percent of Consumption Were a Peak 56% in Nov 2014; Running Mid-40% Now





USA Stainless Steel Trends

- Demand for austenitic is not great; ferritic hasn't collapsed due to strong auto demand.
- Imports are running at a historically high level and will continue to threaten.
- NAS is doing well; installing a new bright anneal line.
- ATI limping along after losing a drum on the new mill rotary sheer. It will be October before a new one can be installed. Restarted old mill to produce heavy gauges. Restarted Houston, PA steckel mill for thinner gauges. In potentially contentious contract negotiations over desire to close Brackenridge plant. Training management to step into operating roles.
- Outokumpu mill has changed management and indicates that it's back on the road to ramp-up, but that it stopped accepting orders in December with mill operating challenges and a 4 month backlog. Now that the mill's been fixed, their customers are adequately supplied by imports and others. They indicated it could be another 18 months to get to full production, and that they weren't going to buy their way back into the market mostly because it wouldn't do any good as import tonnage was already on the water. Cutting people globally.

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

USA Stainless 304 Flat Rolled Spot Price, Base Plus Surcharge



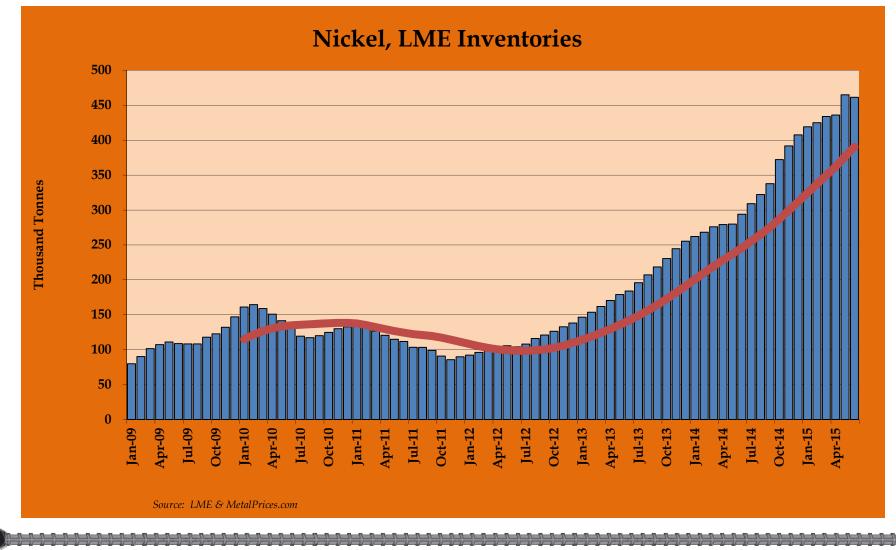


Nickel Prices Continuing to Fall Due to Overcapacity One Bank Forecasting a Drop to \$4.50 Per Pound





LME Inventories Much Higher as Chinese Banks Required Material Previously Held Privately – and Double Financed – to Move into LME Warehouses Where It Could Be Tracked





USA Service Center Aluminum Shipments & Inventory Trends Deteriorated in April and Worsened in May

USA Service Center Aluminum Shipments & Inventory Data Heat Map-Month to Month Change

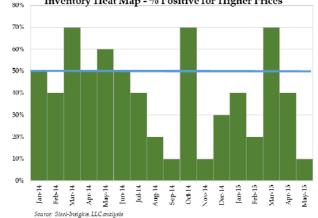
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Positive for Higher Prices	5	4	7	5	6	5	4	2	1	7	1	3	4	2	7	4	1
Neutral	0	0	0	1	1	1	2	1	2	1	1	1	1	0	1	1	0
Negative for Higher Prices	5	6	3	4	3	4	4	7	7	2	8	6	5	8	2	5	9
% Positive for Higher Prices	50%	40%	70%	50%	60%	50%	40%	20%	10%	70%	10%	30%	40%	20%	70%	40%	10%

Shipments Code: red=down; green=up; grey=sideways; white=no new data yet

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Inventory/Shipments Ratio Code: red=up; green=down; grey=sideways; white=no new data yet

USA Service Center Aluminum Shipment & Inventory Heat Map - % Positive for Higher Prices





MSCI Aluminum Shipments Annualized Through May 2015 Tracking up 1% Compared to 8% Gain in 2014

USA Service Center Aluminum Shipments & Inventory

(thousand tons)

	2008	2009	2010	2011	2012	2013	2014	2015e
Total Aluminum								
Shipments	1,686	1,038	1,306	1,501	1,487	1,477	1,598	1,612
Ending Inventory	357	279	348	357	366	378	408	398
Months Suppy	2.54	3.23	3.20	2.85	2.95	3.07	3.07	2.96
Aluminum Sheet & Coil								
Shipments	644	455	577	668	657	653	719	726
Ending Inventory	150	111	162	168	173	180	198	188
Months Suppy	2.79	2.92	3.36	3.02	3.16	3.30	3.29	3.11

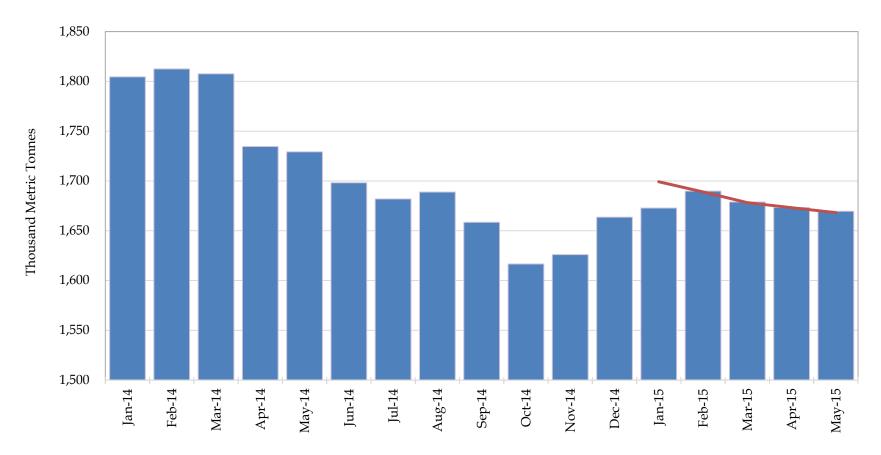
Note: 2015e annualized based on data through May 2015.

Source: MSCI



While USA Primary Aluminum Production Has Dropped 7% to the 1.67 Million Metric Tonne Level

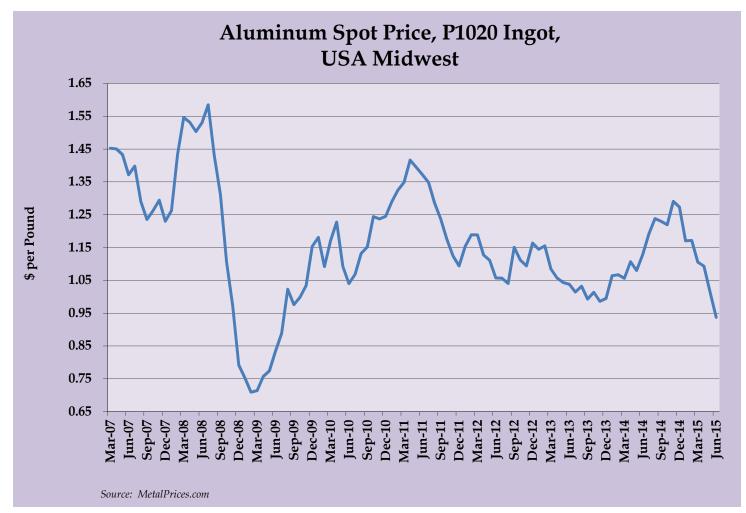
USA Monthly Primary Aluminum Annual Production Rate



Source: The Aluminum Association



Prices Have Cratered on Global Aluminum "Glut"; Chinese Production Up 22% in May at 2.67 Million Tonnes



Lower alumina costs and positive currency impacts have kept smelters in the black. Russia's Rusal contemplating idling 200K tonnes of capacity as is Alcoa 500K tonnes.

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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CONGRATULATIONS to the Blackhawks! Conclusion & Questions



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