












MMi Dashboard



Iron Ore Price Indices

Iron Ore Port Stock (FOT Qingdao) IOPI62 62% Fe Fines RMB/t  739 2 0.27% August 19th 2019	Iron Ore Port Stock (FOT Qingdao) IOPI65 65% Fe Fines RMB/t  813 -16 -1.93% August 19th 2019	Iron Port Stock (FOT Qingdao) IOPI58 58% Fe Fines RMB/t  663 -2 -0.30% August 19th 2019
Iron Ore Seaborne (CFR Qingdao) IOSI62 62% Fe Fines USD/dmt  89.95 -0.60 -0.66% August 19th 2019	Iron Ore Seaborne (CFR Qingdao) IOSI65 65% Fe Fines USD/dmt  99.60 -1.70 -1.68% August 19th 2019	Iron Ore Port Stock (FOT Qingdao) IOPLI 62.5% Fe Lump RMB/t  819 -139 -14.51% Week Ending August 16th, 2019


Exchange Traded Contracts

DCE Iron Ore 62% Fines I2001 (Jan) RMB/t  617.00 -9.50 -1.52% August 19th 2019 (3pm close)	SGX Iron Ore (CFR Qingdao) 62% Fe Fines August'19 USD/dmt  86.03 -0.72 -0.83% August 19th 2019 (6.00 pm Print)	SHFE Rebar RB1910 (Oct) RMB/t  3747 32.00 0.86% August 19th 2019 (3pm close)
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Freight Rates

C3, Tubarao - Qingdao USD/t  22.55 0.13 0.59% August 16th, 2019	C5, W. Australia - Qingdao USD/t  10.50 0.10 0.96% August 16th, 2019
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Steel Price

Steel Rebar (China Domestic) RMB/t  3720 20 0.54% Week Ending August 16th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35 million tonnes)  105.81 -2.03 -1.88% Week Ending August 16th, 2019	Steel Inventory in China (million tonnes)  14.74 -0.09 -0.57% Week Ending August 16th, 2019
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Steel Price

Steel HRC (China Domestic) RMB/t  3730 80 2.19% Week Ending August 16th, 2019

IRON ORE PORT STOCK INDEX (IOPI)

August 19th 2019		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	739	2	0.3%	784	724	492	928	97.20	0.20	0.2%	104.03	97.36	63.83	126.12
IOPI58	58% Fe Fines	663	-2	-0.3%	723	635	356	823	87.76	-0.34	-0.4%	96.77	85.43	45.02	112.44
IOPI65	65% Fe Fines	813	-16	-1.9%	852	798	654	992	107.31	-2.27	-2.1%	113.48	107.71	85.47	135.34

IRON ORE SEABORNE INDEX (IOSI)

MARKET COMMENTARY

August 19th 2019		CFR Qingdao, USD/dry tonne							The Tangshan city government will deepen its steel production cuts between Aug 18-21, in anticipation of poor weather conditions. During that period, only one sintering machine at the northern plant of Tangshan Steel can maintain operation, while Huaxi Steel and Guoyi Steel are permitted to run two sintering machines each. Other steelmakers in Lubei, Kaiping, Guye, Fengnan districts, Luanzhou city and Luannan county are required to trim their sintering capacity by at least 50%. The Iron ore DCE Futures market dove during the afternoon session, recovering rapidly before closing. Physical port stock quotes rose 5-10yuan/mt in the morning and P8 Fines was heard concluded at 730yuan/mt before noon. Total concluded transactions have been low so far. Iron ore arrivals this week are expected to improve, while in Tangshan, mill buys will arrive in greater proportion. In Shandong, the recent tight supply of mainstream products may provide some support to prices.							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²								
IOSI62	62% Fe Fines	89.95	-0.60	-0.66%	97.71	96.20	62.95	127.50								
IOSI65	65% Fe Fines	99.60	-1.70	-1.68%	107.19	109.34	83.20	137.95								

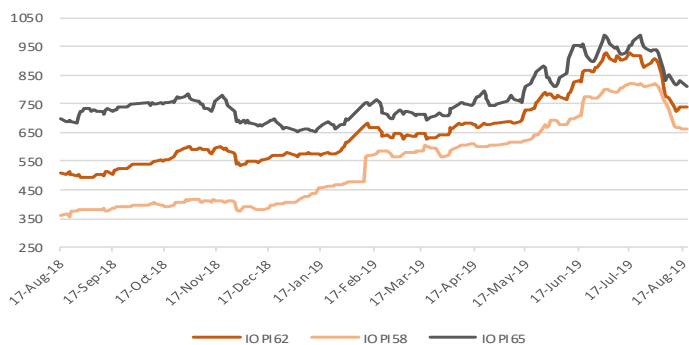
IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending August 16th, 2019		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne ³						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	819	-139	-14.5%	928	907	644	1051	101.06	-18.56	-15.52%	116.05	115.89	80.29	133.81

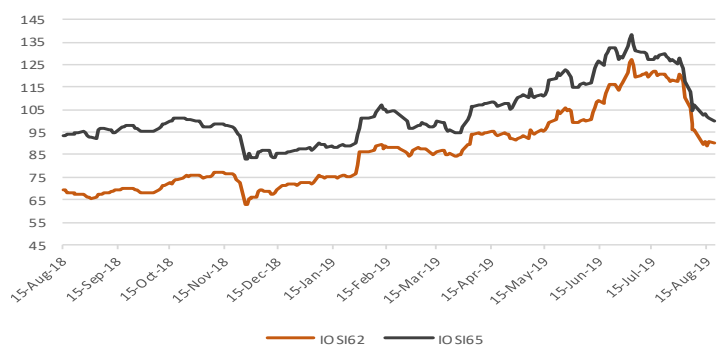
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending August 16th, 2019				RMB/tonne (excluding tax) ³				USD/tonne (excluding tax) ³			
Province	Region	Product	Basis	This week	Change %	Low ²	High ²	This week	Change %	Low ²	High ²
Hebei	Hanxing	66% Fe Concentrate	Dry	865	-13.0%	630	1032	123.07	-13.56%	92.31	150.03
Hebei	Qian'an	65% Fe Concentrate	Dry	850	-8.1%	690	960	120.93	-8.72%	100.26	139.35
Liaoning	Anshan	65% Fe Concentrate	Wet	710	-1.4%	485	745	101.02	-2.05%	70.49	104.66
Shandong	Zibo	65% Fe Concentrate	Dry	895	-5.8%	725	1040	127.34	-6.42%	105.37	151.33
Week Ending August 16th, 2019				This week	Change %	Low ²	High ²	¹ Exchange rate applied: RMB/USD = 7.0356 ² Last 12 months ³ Weekly exchange rate applied: RMB/USD 7.0286			
China Mines Concentrate Composite Index RMB/WT				781.74	-5.8%	574.64	859.50				

IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)



IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)



IRON ORE PORT STOCK INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

August 19th 2019		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	April	May	June	July	MTD	QTD	YTD	April	May	June	July	MTD	QTD	YTD
IOPI62	62% Fe Fines	675	729	825	909	784	864	724	85.37	98.40	111.42	123.29	104.03	116.34	97.36
IOPI58	58% Fe Fines	600	637	726	809	723	778	635	77.49	86.39	98.60	110.47	96.77	105.52	85.43
IOPI65	65% Fe Fines	753	812	901	954	852	917	798	95.78	110.00	121.97	129.53	113.48	123.73	107.71

IRON ORE SEABORNE INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

FREIGHT RATES

August 19th 2019		CFR Qingdao, USD/dry tonne							August 16th, 2019							
Index	Fe Content	April	May	June	July	MTD	QTD	YTD	Route		Designation	Change	Change %	Low ²	High ²	
IOSI62	62% Fe Fines	93.42	98.68	108.57	120.82	97.71	113.35	96.20	W. Australia - Qingdao		C5	10.50	0.10	0.96%	4.39	11.15
IOSI65	65% Fe Fines	106.75	115.53	124.49	129.53	107.19	122.30	109.34	Tubarao - Qingdao		C3	22.55	0.13	0.59%	11.61	27.52

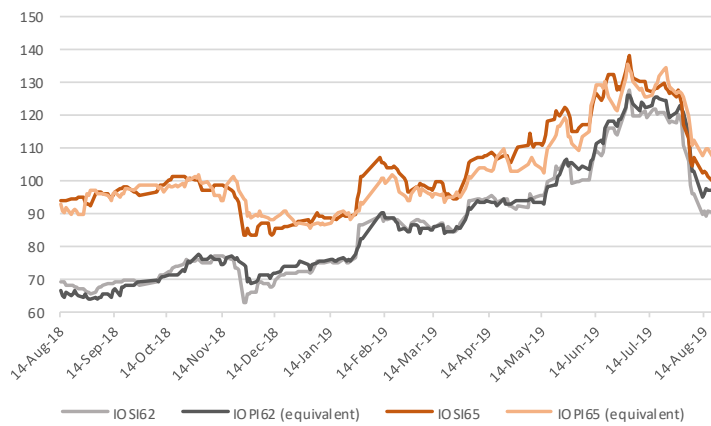
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending August 16th, 2019		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne ¹						
Index	Fe Content	March	April	May	June	MTD	QTD	YTD	March	April	May	June	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	858	872	919	1009	928	995	907	99.57	111.03	117.12	128.00	116.05	125.73	115.89

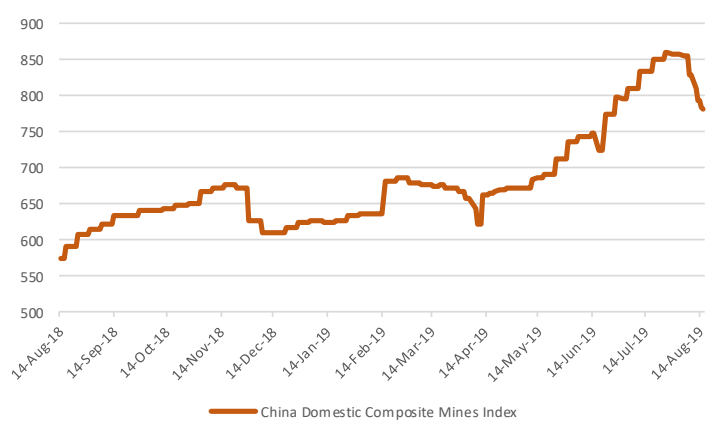
IRON ORE INDEX PREMIUMS/DISCOUNTS

August 19th 2019		PORT STOCK INDEX (RMB/WT)				August 19th 2019		SEABORNE INDEX (USD/DMT)			
Index	Fe Content	Spread to IOPI62		% Spread to IOPI62		Index	Fe Content	Spread to IOSI62		% Spread to IOSI62	
IOPI58	58% Fe Fines	-76		-10.28%		IOSI65	65% Fe Fines	9.65		10.73%	
IOPI65	65% Fe Fines	74		10.01%							

IRON ORE INDEX COMPARISONS (USD/DMT)



CHINA DOMESTIC COMPOSITE MINES INDEX (RMB/Wet Tonne, including VAT)



IRON ORE BRAND SPOT PRICE ASSESSMENTS

August 19th 2019				August 19th 2019			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	714	9	-25	Roy Hill	87.86	0.42	-2.09
SIMEC Fines	703	30	-36	SIMEC Fines	86.29	0.95	-3.66
PB Fines	723	2	-16	PB Fines	89.71	-0.25	-0.24
Newman Fines	740	0	1	Newman Fines	90.86	-1.26	0.91
MAC Fines	730	13	-9	MAC Fines	88.24	1.10	-1.71
Jimblebar Blended Fines	683	2	-56	Jimblebar Blended Fines	84.56	4.85	-5.39
Carajas Fines	826	-17	87	Carajas Fines	96.39	-4.53	6.44
Brazilian SSF	730	22	-9	Brazilian SSF	90.26	-2.16	0.31
Brazilian Blend Fines	743	0	4	Brazilian Blend Fines	91.01	-1.91	1.06
RTX Fines	691	7	-48	RTX Fines	87.24	3.13	-2.71
West Pilbara Fines	716	13	-23	West Pilbara Fines	87.21	0.87	-2.74

August 19th 2019			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	652	-5	-11
FMG Blended Fines	674	-2	11
Robe River	647	-4	-16
Western Fines	658	-6	-5
Atlas Fines	645	-7	-18
Yandi	660	-5	-3

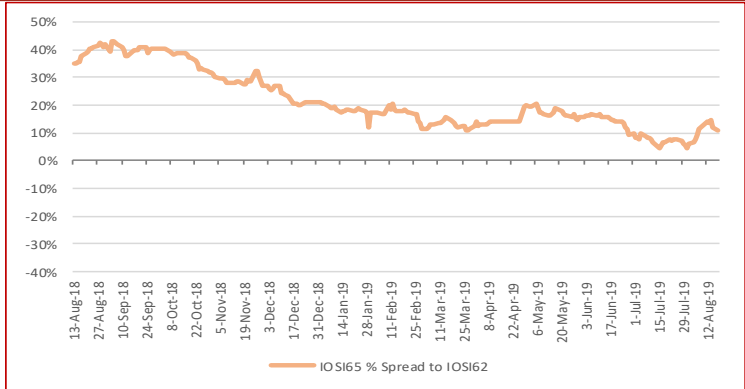
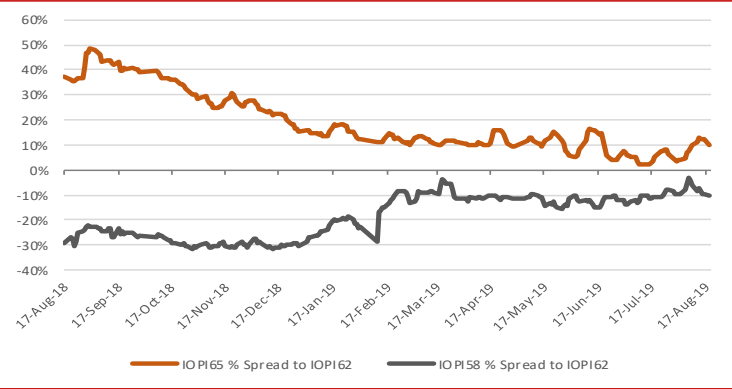
IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port Stock Index Product Differentials (RMB/wet tonne)				Seaborne Index Product Differentials (USD/dry tonne)			
	Applicable range	Value	Change		Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	2.00	-2.00	1% Fe	High Grade Fe 60 - 63%	1.25	-0.75
	High Grade Fe 63 - 64%	19.00	-2.00		High Grade Fe 63 - 64%	1.75	-0.25
	High Grade Fe 64 - 65%	19.00	-2.00		High Grade Fe 64 - 65%	1.75	-0.25
	High Grade Fe 65 - 65.5%	19.00	-2.00		High Grade Fe 65 - 65.5%	1.75	-0.25
1% Alumina	Low Grade Fe	7.00	1.00	1% Alumina	High Fe Grade Al <2.25%	1.25	-1.25
	High Fe Grade Al <2.25%	20.00	-5.00		High Fe Grade Al 2.25-4%	0.25	-1.00
	High Fe Grade Al 2.25-4%	27.00	3.00				
	Low Fe Grade Al <2.25%	9.00	0.00				
1% Silica	Low Fe Grade Al 2.25-4%	2.00	0.00	1% Silica	High Fe Grade Si <4%	0.25	-0.75
	High Fe Grade Si <4%	7.00	-3.00		High Fe Grade Si 4 - 6.5%	0.50	0.00
	High Fe Grade Si 4-6.5%	20.00	-10.00				
0.01% Phosphorus	Low Fe Grade	7.00	2.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.00	-0.25
	High Fe Grade 0.09%<P<0.115%	2.00	0.00		High Fe Grade 0.115%<P<0.15%	0.50	-0.75
	High Fe Grade 0.115%<P<0.15%	6.00	0.00				
	Low Fe Grade 0.09<P<0.1%	0.00	0.00				

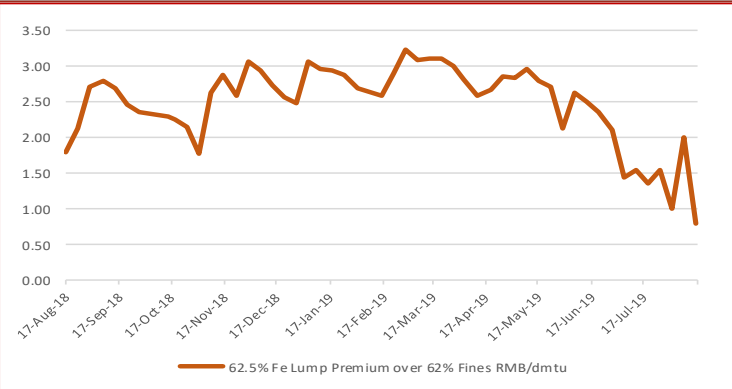
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-25.00	0.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-40.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	-10.00	5.00	Jingtang	-10.00	5.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-40.00	0.00	Lanqiao	0.00	0.00	Nantong	-40.00	0.00	Tianjin	-35.00	0.00

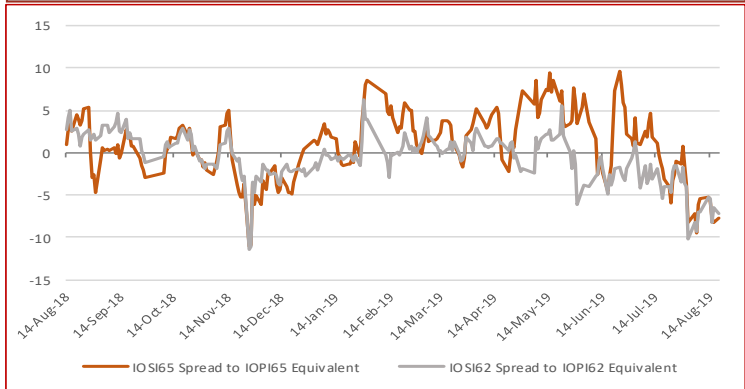
IRON ORE INDEX PREMIUMS/DISCOUNTS



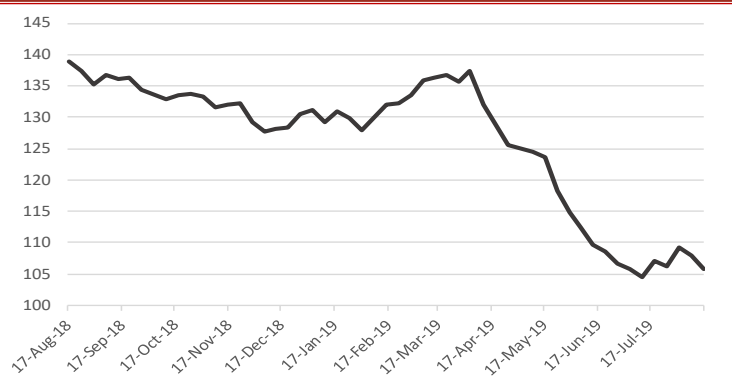
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



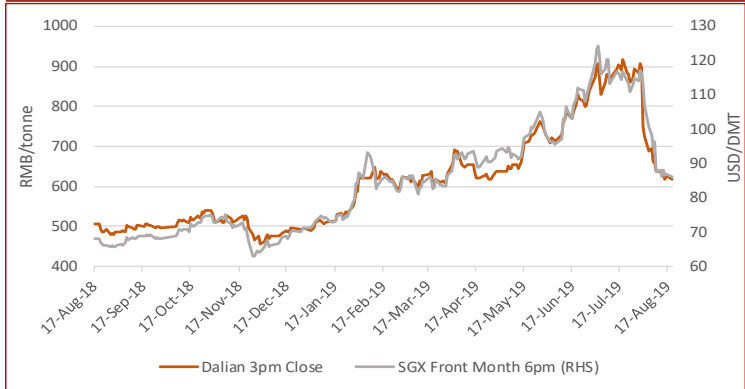
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



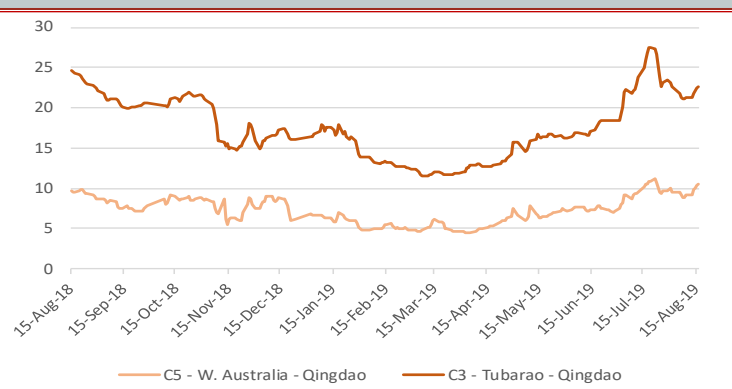
IRON ORE PORT INVENTORIES (MILLION TONNES)

Province	This week	Change %	Low ²	High ²
Jingtang	13.02	5.85%	10.80	16.37
Qingdao	12.67	-3.06%	12.38	19.01
Caofeidian	14.32	-1.98%	14.32	20.10
Tianjin	7.12	1.14%	6.39	10.40
Rizhao	12.68	7.37%	11.65	17.30
Total (35 Ports)	105.81	-1.88%	104.40	138.82

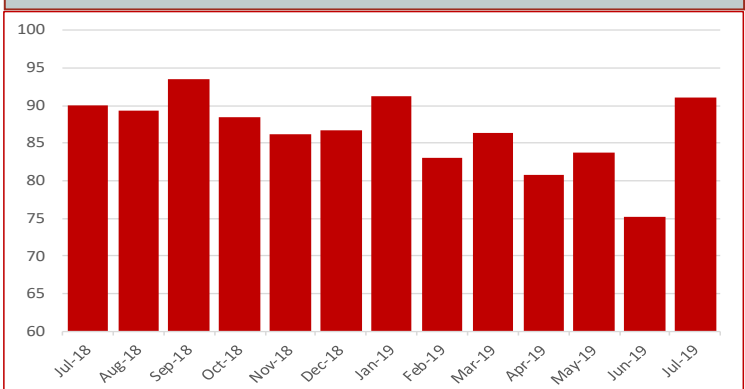
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Aug 19th 3pm close			Aug 19th 5.30 pm		
Contract	I2001	Change	Change %	Sep'19	Change	Change %
Closing Price	617.00	-9.5	-1.52%	86.03	-0.72	-0.83%
Vol traded ('000 lots)	201.71	-17.2	-7.86%	14.05	-2.42	-14.69%
Open positions ('000 lots)	143.98	6.6	4.81%	160.32	-0.08	-0.05%
Day Low	607.5	-4.5	-0.74%	85.46	-0.91	-1.05%
Day High	635.5	2.0	0.32%	88.37	0.73	0.83%

DRY BULK FREIGHT RATES (USD/MT)



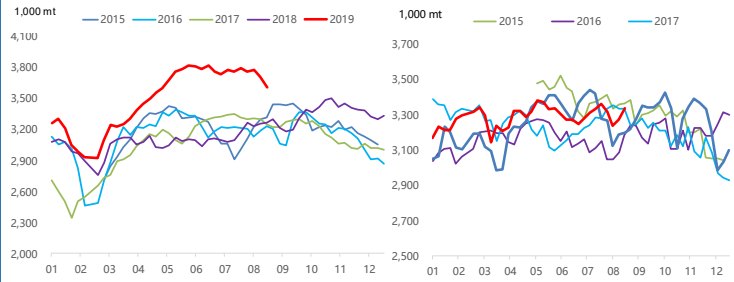
TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne

Product	16/8/2019	Change	Change %
ReBar HRB400 φ18mm	3,720.0	20	0.54%
Wirerod Q300 φ6.5mm	4,000.0	40	1.01%
HRC Q235/SS400 5.5mm*1500*C	3,730.0	80	2.19%
CRC SPCC/ST12 1.0mm*1250*2500	4,240.0	20	0.47%
Medium & Heavy Plate Q235B 20mm	3,830.0	10	0.26%
GI ST02Z 1.0mm*1000*C	4,520.0	0	0.00%
Colour Coated Plate	7,100.0	0	0.00%



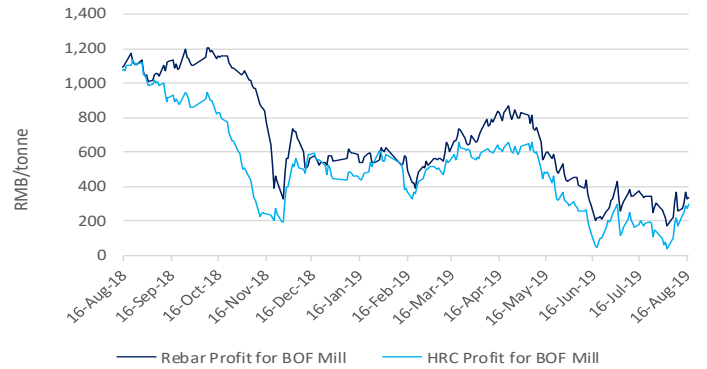
CHINESE STEEL MILL PROFITABILITY

SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)

Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	89.20	-6.60	Mmi CFR Equivalent index for 1st Feb
Coke	2,110	100	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,270	-90	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,124	-36	Q234, incl. tax
Rebar cost - Blast furnace	3,374	-37	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	336	77	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,441	-36	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	299	126	based on Shanghai prices, incl. tax

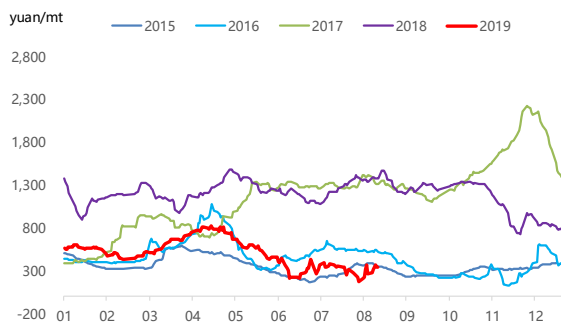
Note: 1. Costs in the table are calculated based on today's market prices and factored our management, sales, financial and depreciations fees.
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

CHINESE STEEL MILL PROFITABILITY

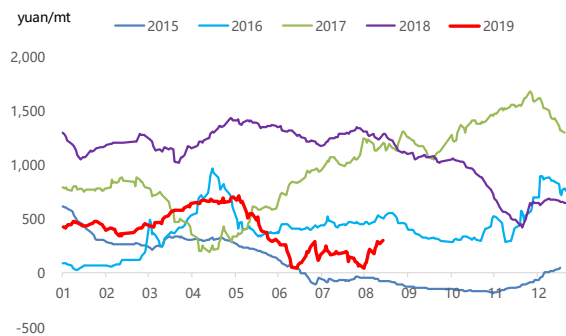


CHINESE STEEL MILL PROFITABILITY

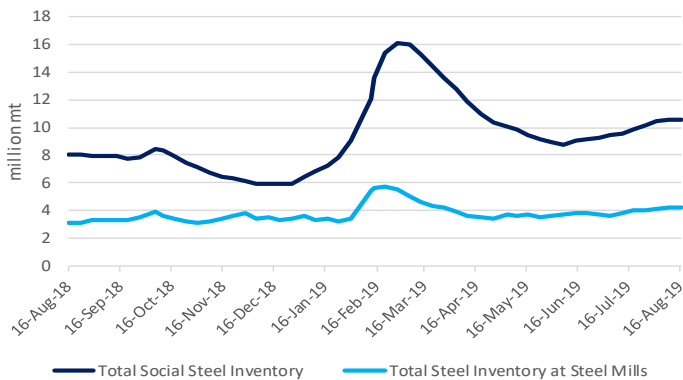
Rebar profits



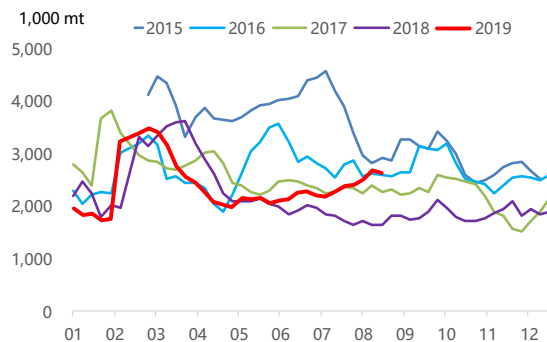
Hot-rolled coil profits



CHINESE STEEL INVENTORIES



In-plant inventory of rebar



IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

Iron Ore Index Specifications (Port and Seaborne)					Iron Ore Index Compilation Rationale and Data Exclusions
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indices are compiled from data provided by companies that are part of the iron ore supply chain and involved in spot market transactions. The indices are calculated using detailed transaction-level data submitted to MMi by these companies. This data is normalised to the appropriate specifications and screened to remove outliers before volume-weighted average prices are calculated from the remaining core set of data. For more details on MMi's iron ore methodology please download the guide published on our website at: www.mmiprices.com
Fe %	65.00	62.00	58.00	62.50	
Alumina %	1.40	2.25	2.25	1.50	
Silica%	1.50	4.00	5.50	3.50	
Phosphorus %	0.06	0.09	0.05	0.08	
Sulphur %	0.01	0.02	0.02	0.02	
Moisture %	8.00	8.00	9.00	4.00	
Sizing	Granular size below 10mm for at least 90% of cargo; maximum of 40% below 150 micron			Size below 6.3mm max 15% Size above 31.15mm max 25%	
Pricing Point	Qingdao Port (FOT and CFR respectively)			FOT Qingdao Port	
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks			Delivery within 2 weeks	
Payment Terms	L/C at sight			L/C at sight or CAD	
Data Exclusions*					
	62%	58%	65%		
Port Index	0	0	0		
Seaborne Index	0		0		
Lump Index 62.5	0				
* Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified					

IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

The compilation method for price index generally refers to the compilation method of CPI price index and other price indices, breakdown the price data and calculate the average value according to a certain method, taking the vertical axis as the regional composite index (average of different grade index) and the horizontal axis as the grade composite index (average of different regional index), a total composite index for domestic ore can be output ultimately. The process system is also adopted in the calculation i.e. each sub-index can be obtained as well.

AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS

PORT STOCK BRANDS						SEABORNE BRANDS					
August 19th 2019	Specifications applied for 62% brand assessments						Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	61.16%	2.25%	4.61%	0.052%	9.35%	Roy Hill	60.70%	2.30%	4.90%	0.055%	8.00%
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%	SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%
PB Fines	61.48%	2.36%	3.86%	0.099%	9.41%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.58%	2.26%	3.96%	0.083%	8.00%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.88%	2.23%	4.51%	0.079%	7.64%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	60.70%	3.03%	4.52%	0.118%	7.40%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%
Carajas Fines	65.60%	1.25%	1.34%	0.073%	8.35%	Carajas Fines	65.10%	1.50%	1.70%	0.080%	8.50%
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%	Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
Brazilian Blend Fines	63.04%	1.56%	4.36%	0.078%	8.71%	Brazilian Blend Fines	62.50%	1.50%	5.00%	0.070%	7.00%
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%	RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%
West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%	West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%
August 19th 2019	Specifications applied for 58% brand assessments										
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.66%	3.08%	6.33%	0.059%	8.24%						
FMG Blended Fines	58.22%	2.58%	5.47%	0.061%	7.67%						
Robe River	56.28%	2.91%	5.58%	0.035%	9.29%						
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%						
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%						
Yandi	57.32%	1.51%	6.32%	0.041%	8.85%						

BLOOMBERG TICKERS

PORT STOCK INDICES		
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)
IOP162	IRCNQ001	IRCNQ004
IOP158	IRCNQ002	IRCNQ005
IOP165	IRCNQ003	IRCNQ006

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