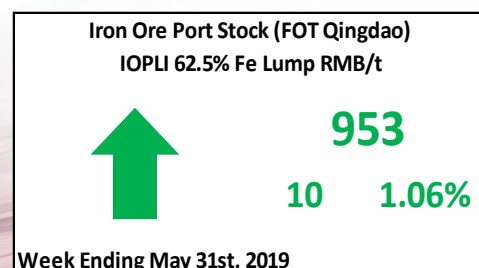
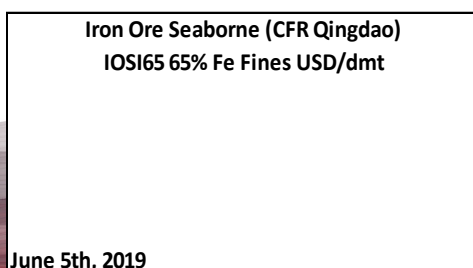
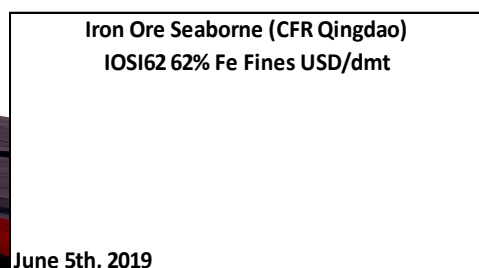
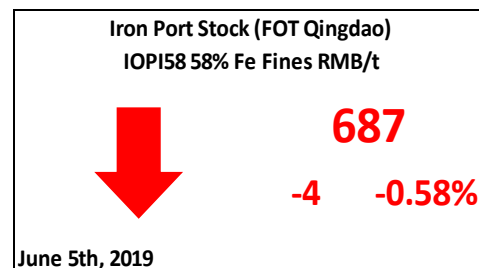
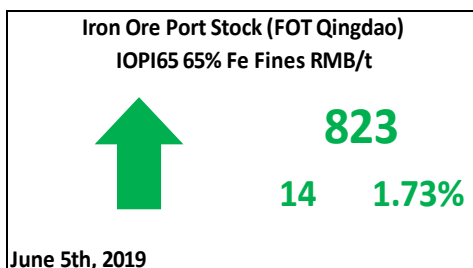
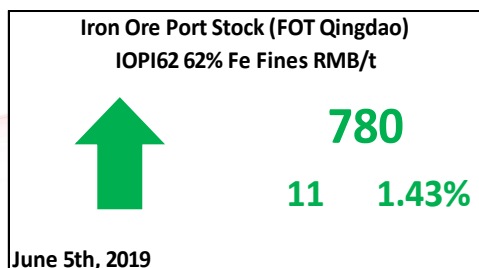


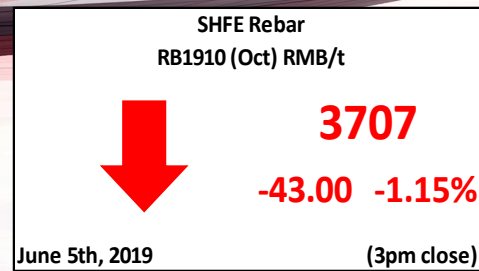
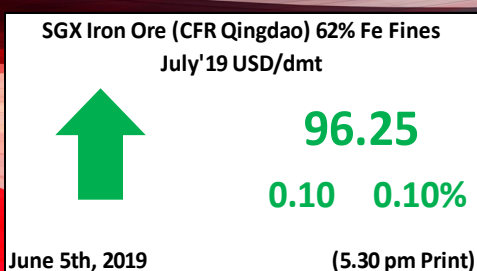
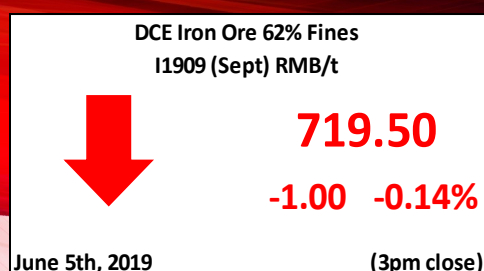


MMi Dashboard

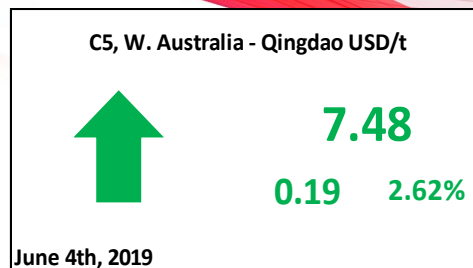
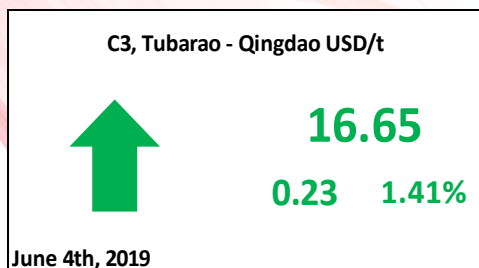
Iron Ore Price Indices



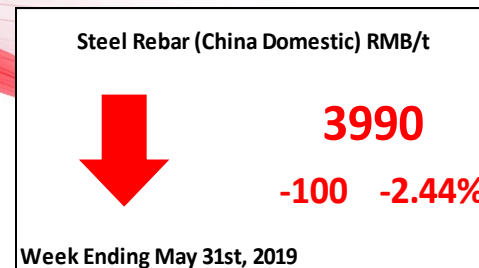
Exchange Traded Contracts



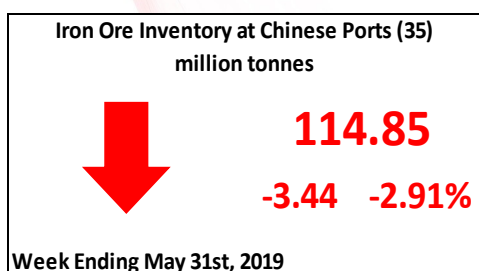
Freight Rates



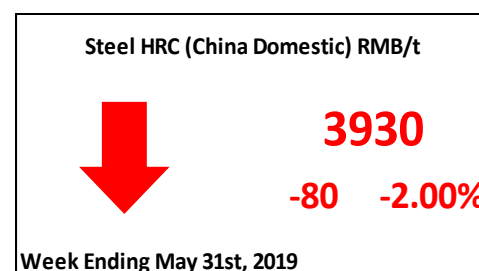
Steel Price



Inventory Levels



Steel Price



IRON ORE PORT STOCK INDEX (IOPI)

June 5th, 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	780	11	1.4%	774	658	453	792	104.98	1.41	1.4%	104.14	88.25	61.66	106.55
IOPI58	58% Fe Fines	687	-4	-0.6%	690	569	324	693	93.01	-0.67	-0.7%	93.43	76.12	41.71	93.74
IOPI65	65% Fe Fines	823	14	1.7%	815	738	560	881	110.98	1.82	1.7%	109.87	99.46	77.70	119.05

IRON ORE SEABORNE INDEX (IOSI)

June 5th, 2019		CFR Qingdao, USD/dry tonne							MARKET COMMENTARY							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ³	High ³	Market activity slowly picked up today, though transactions remained low given the upcoming Chinese Dragon Boat Festival holiday. Mills are still looking to buy this week, but as profit margins continue to shrink, they are only looking to buy to cover current demand. One mill in East China states that as iron ore prices rose, they chose to maintain normal inventory levels at their plants. Another mill in Central China believes that although some of their steel products hover at the edge of profit and loss, they still have no plan to cut production or conduct maintenance.							
IOSI62	62% Fe Fines				99.58	88.47	62.95	105.95								
IOSI65	65% Fe Fines				115.50	102.52	83.20	122.40								

IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending May 31st, 2019		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne ⁴						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low ³	High ³	Price	W-o-W	Change %	MTD	YTD	Low ³	High ³
IOPLI62	62.5% Fe Lump	953	10	1.1%	919	858	575	953	120.43	1.00	0.84%	117.12	110.30	76.66	120.43

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

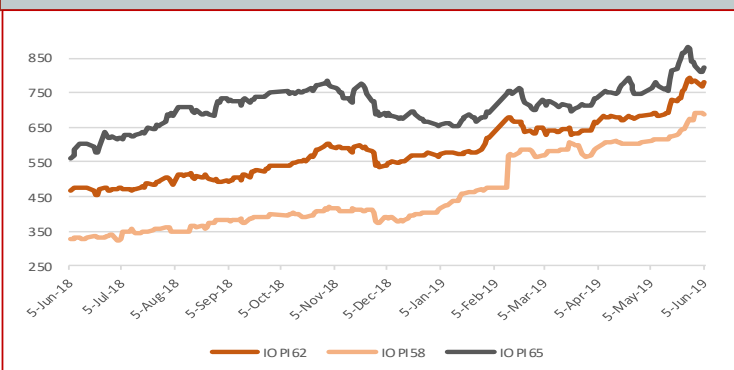
Week Ending May 31st, 2019				RMB/tonne (excluding tax) ⁴				USD/tonne (excluding tax) ⁴			
Province	Region	Product	Basis	This week	Change %	Low ²	High ²	This week	Change %	Low ²	High ²
Hebei	Hanxing	66% Fe Concentrate	Dry	902	5.7%	592	902	130.78	5.75%	91.97	124.15
Hebei	Qian'an	65% Fe Concentrate	Dry	825	1.2%	645	825	119.61	1.23%	100.26	118.16
Liaoning	Anshan	65% Fe Concentrate	Wet	645	3.2%	465	745	93.51	3.20%	68.21	90.61
Shandong	Zibo	65% Fe Concentrate	Dry	885	2.9%	660	885	128.31	2.91%	99.75	127.11

Week Ending May 31st, 2019

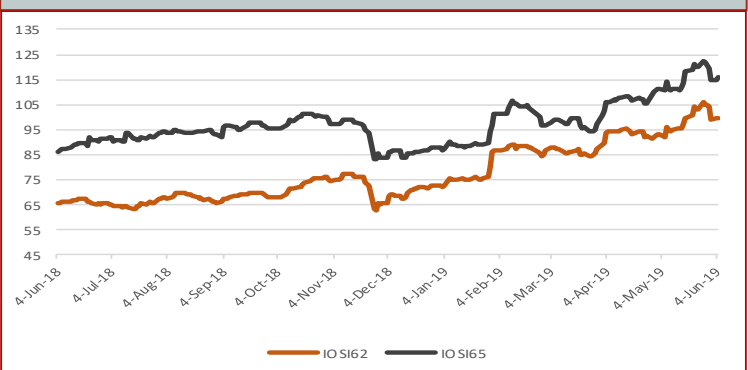
China Mines Concentrate Composite Index RMB/WT	This week	Change %	Low ²	High ²
	736.41	3.2%	551.00	736.41

¹ Exchange rate applied: RMB/USD = 6.8822 ² Last 12 months ³ Since June 1
⁴ Weekly exchange rate applied: RMB/USD 6.8973

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

June 5th, 2019		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	February	March	April	May	MTD	QTD	YTD	February	March	April	May	MTD	QTD	YTD
IOPI62	62% Fe Fines	654	639	675	729	774	706	658	76.16	87.09	85.37	98.40	104.14	96.06	88.25
IOPI58	58% Fe Fines	569	583	600	637	690	623	569	57.99	75.22	77.49	86.39	93.43	84.83	76.12
IOPI65	65% Fe Fines	733	714	753	812	815	784	738	88.65	98.08	95.78	110.00	109.87	107.09	99.46

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

June 5th, 2019		CFR Qingdao, USD/dry tonne							FREIGHT RATES - DRY BULK US\$/wet tonne						
Index	Fe Content	February	March	April	May	MTD	QTD	YTD	Route	Designation	Change	Change %	Low ²	High ²	
IOSI62	62% Fe Fines	87.39	86.18	93.42	98.68	99.58	96.21	88.47	W. Australia - Qingdao	C5	7.48	0.19	2.62%	4.39	10.00
IOSI65	65% Fe Fines	102.56	97.22	106.75	115.53	115.50	111.34	102.52	Tubarao - Qingdao	C3	16.65	0.23	1.41%	11.61	24.76

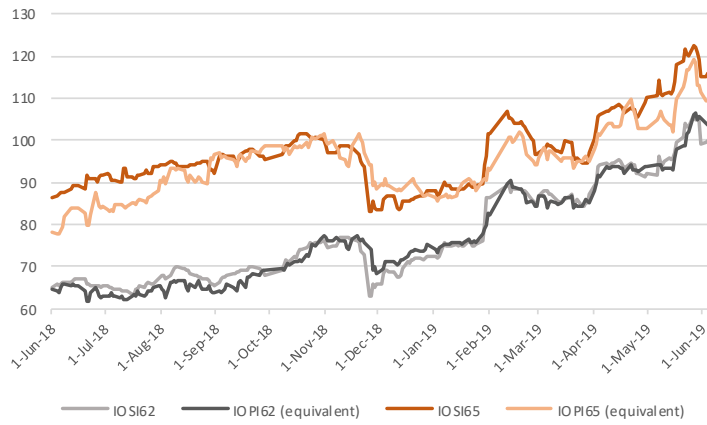
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending May 31st, 2019		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne ¹						
Index	Fe Content	January	February	March	April	MTD	QTD	YTD	January	February	March	April	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	782	842	858	872	919	891	858	96.21	94.22	99.57	111.03	117.12	115.22	109.33

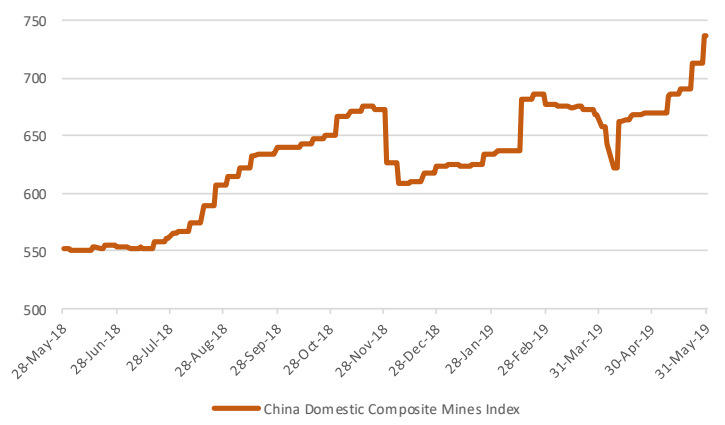
IRON ORE INDEX PREMIUMS/DISCOUNTS

June 5th, 2019		PORT STOCK INDEX (RMB/WT)				June 5th, 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	-93		-11.92%		IOSI65	65% Fe Fines				
IOPI65	65% Fe Fines	43		5.51%							

IRON ORE INDEX COMPARISONS (USD/DMT)



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



IRON ORE BRAND SPOT PRICE ASSESSMENTS

June 5th, 2019				June 5th, 2019			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	763	10	-17	Roy Hill			
SIMEC Fines	783	9	3	SIMEC Fines			
PB Fines	761	10	-19	PB Fines			
Newman Fines	788	12	8	Newman Fines			
MAC Fines	778	10	-2	MAC Fines			
Jimblebar Blended Fines	751	10	-29	Jimblebar Blended Fines			
Carajas Fines	826	13	46	Carajas Fines			
Brazilian SSF	817	13	37	Brazilian SSF			
Brazilian Blend Fines	796	13	16	Brazilian Blend Fines			
RTX Fines	756	10	-24	RTX Fines			
West Pilbara Fines	763	10	-17	West Pilbara Fines			
June 5th, 2019							
PORT STOCK INDEX (RMB/WT)							
	Price	Change	Diff to IOPI58				
SSF	647	2	-40				
FMG Blended Fines	685	-3	-2				
Robe River	643	3	-44				
Western Fines	675	-2	-12				
Atlas Fines	665	1	-22				
Yandi	721	-2	34				

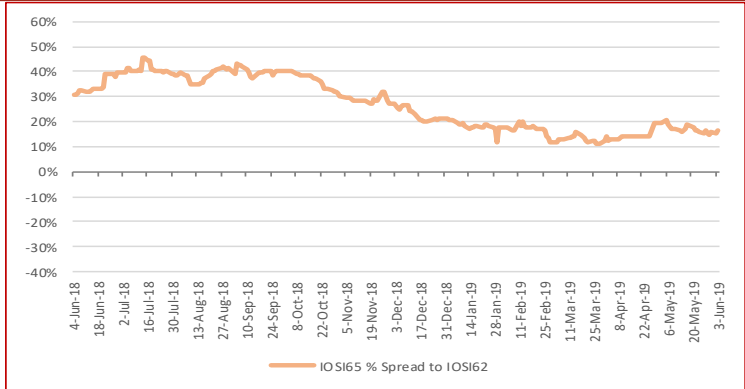
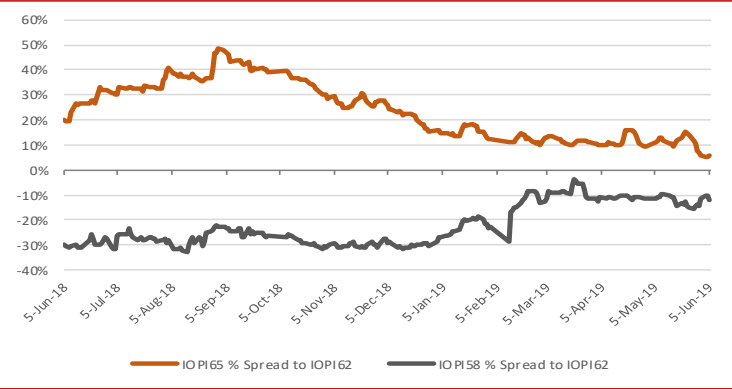
IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	7.00	1.00	1% Fe	High Grade Fe 60 - 63%	2.75	0.00	
	High Grade Fe 63 - 64%	11.00	0.00		High Grade Fe 63 - 64%	3.00	0.00	
	High Grade Fe 64 - 65%	11.00	0.00		High Grade Fe 64 - 65%	3.00	0.00	
	High Grade Fe 65 - 65.5%	11.00	0.00		High Grade Fe 65 - 65.5%	3.00	0.00	
	Low Grade Fe	11.00	-3.00					
1% Alumina	High Fe Grade Al <2.25%	16.00	2.00	1% Alumina	High Fe Grade Al <2.25%	4.00	0.00	
	High Fe Grade Al 2.25-4%	0.00	0.00		High Fe Grade Al 2.25-4%	1.50	0.00	
	Low Fe Grade Al <2.25%	90.00	0.00					
	Low Fe Grade Al 2.25-4%	35.00	-3.00					
1% Silica	High Fe Grade Si <4%	0.00	0.00	1% Silica	High Fe Grade Si <4%	1.75	0.00	
	High Fe Grade Si 4-6.5%	0.00	0.00		High Fe Grade Si 4 - 6.5%	0.25	0.00	
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	3.00	0.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.75	0.00	
	High Fe Grade 0.115%<P<0.15%	7.00	0.00		High Fe Grade 0.115%<P<0.15%	0.50	0.00	
	Low Fe Grade 0.09<P<0.1%	18.00	0.00					

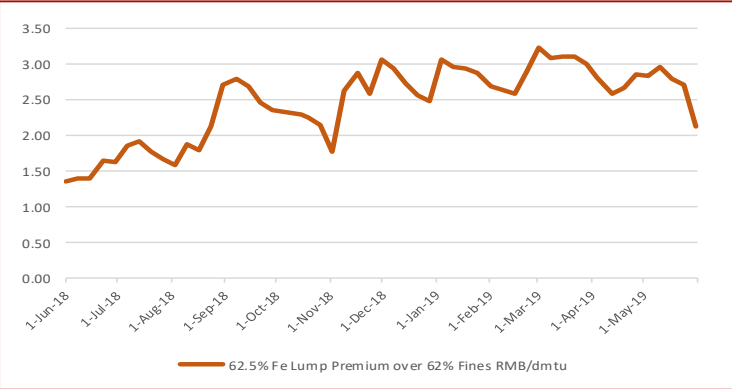
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-30.00	-5.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-50.00	-15.00	Lianyungang	-5.00	0.00	Rizhao	0.00	0.00
Caofeidian	-15.00	0.00	Jingtang	-15.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-35.00	0.00	Lanqiao	0.00	0.00	Nantong	-50.00	-10.00	Tianjin	-15.00	5.00

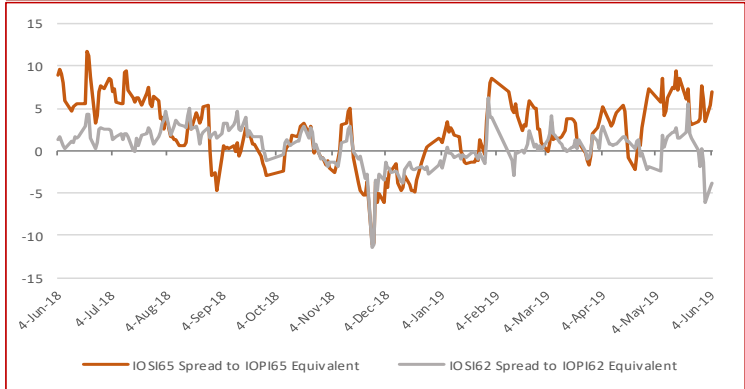
IRON ORE INDEX PREMIUMS/DISCOUNTS



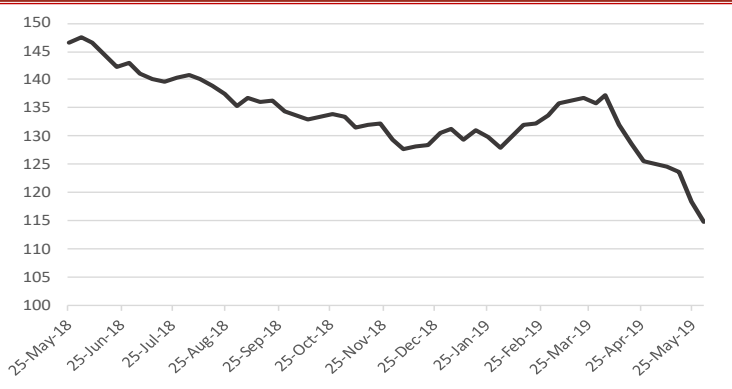
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



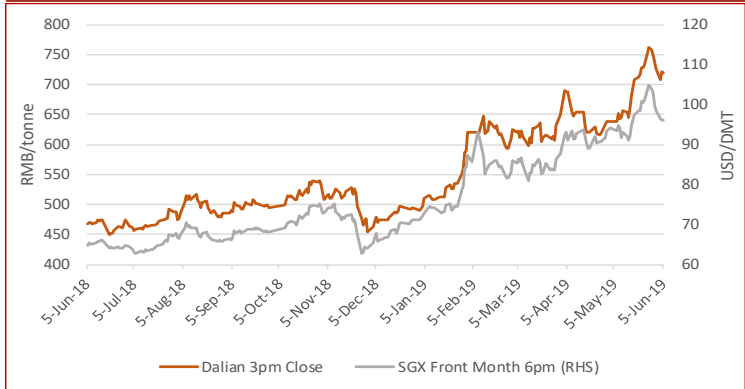
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



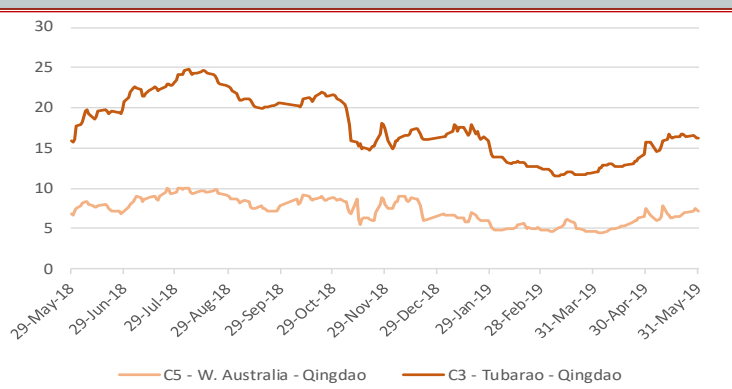
IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending May 31st, 2019				
Province	This week	Change %	Low ²	High ²
Jingtang	12.95	-7.70%	12.95	18.10
Qingdao	15.47	-5.32%	15.47	19.50
Caofeidian	15.59	-7.42%	15.59	20.50
Tianjin	6.99	4.48%	6.69	10.48
Rizhao	13.61	-1.80%	13.61	18.97
Total (35 Ports)	114.85	-2.91%	114.85	147.56

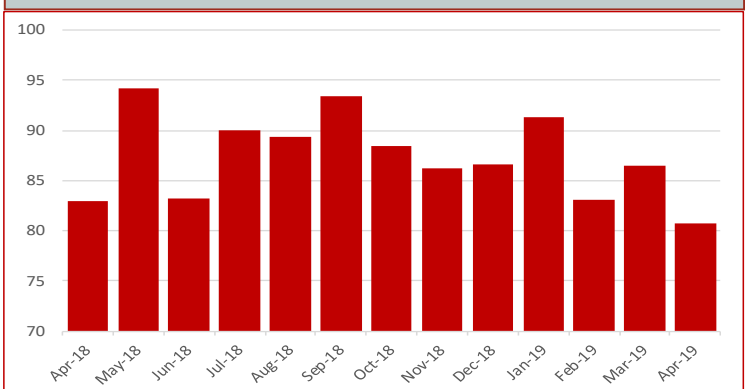
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	June 5th 3pm close			June 5th Feb 5.30 pm		
Contract	I1909	Change	Change %	Jul'19	Change	Change %
Closing Price	719.50	-1.0	-0.14%	96.25	0.10	0.10%
Vol traded ('000 lots)	142.77	-32.1	-18.36%	4.21	-7.30	-63.40%
Open positions ('000 lots)	151.85	0.2	0.12%	151.15	4.32	2.94%
Day Low	712.0	5.0	0.71%	95.95	1.86	1.98%
Day High	725.0	2.0	0.28%	96.72	0.40	0.42%

DRY BULK FREIGHT RATES (USD/MT)



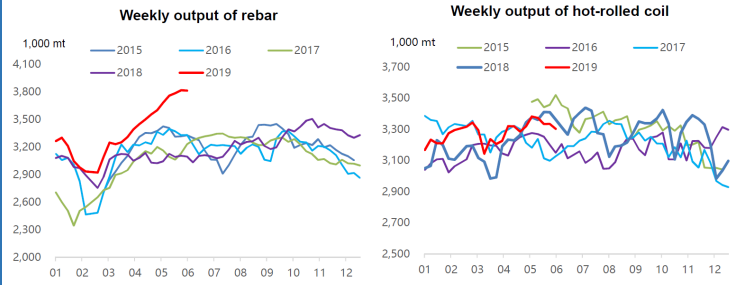
TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne

Product	31/5/2019	Change	Change %
ReBar HRB400 φ18mm	3,990.0	-100	-2.44%
Wirerod Q300 φ6.5mm	4,230.0	-70	-1.63%
HRC Q235/SS400 5.5mm*1500*C	3,930.0	-80	-2.00%
CRC SPCC/ST12 1.0mm*1250*2500	4,220.0	-30	-0.71%
Medium & Heavy Plate Q235B 20mm	4,000.0	-80	-1.96%
GI ST02Z 1.0mm*1000*C	4,620.0	-10	-0.22%
Colour Coated Plate	7,100.0	-50	-0.70%



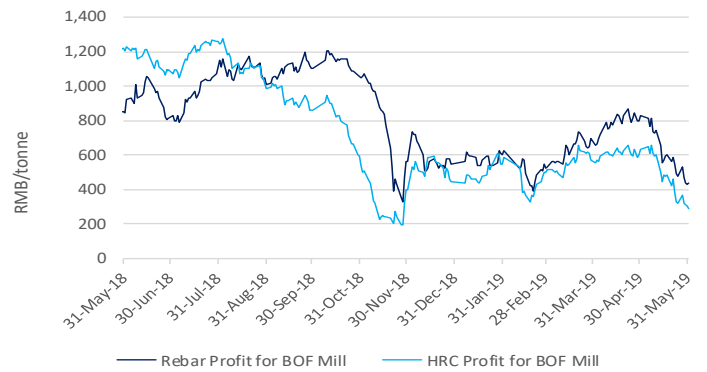
CHINESE STEEL MILL PROFITABILITY

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	104.30	1.00	Mmi CFR Equivalent index for 1st Feb
Coke	2,210	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,220	0	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,323	-36	Q234, incl. tax
Rebar cost - Blast furnace	3,566	-40	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	434	-40	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,640	-43	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	290	-27	based on Shanghai prices, incl. tax

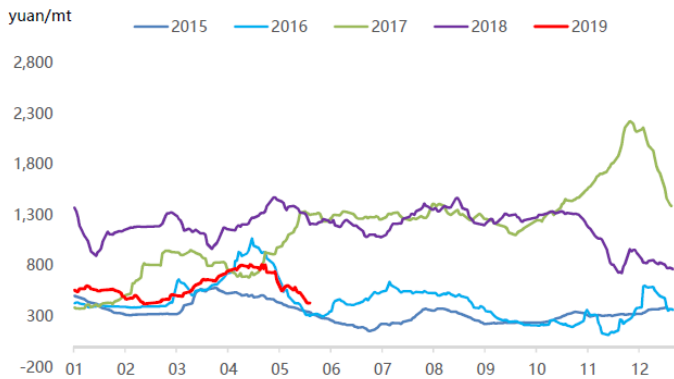
Note: 1.Costs in the table are calculated based on today's market prices and factored our management, sales, financial and depreciations fees.
2.The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

CHINESE STEEL MILL PROFITABILITY

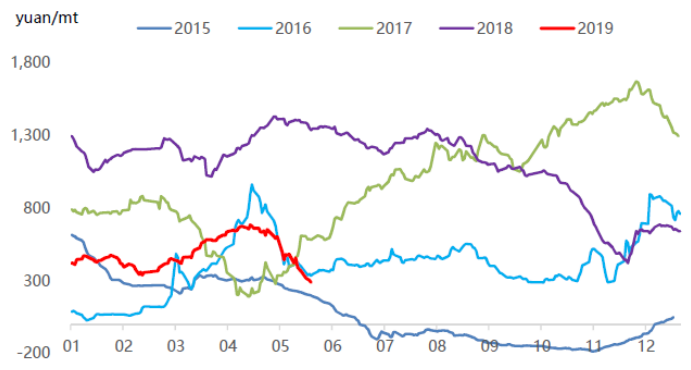


CHINESE STEEL MILL PROFITABILITY

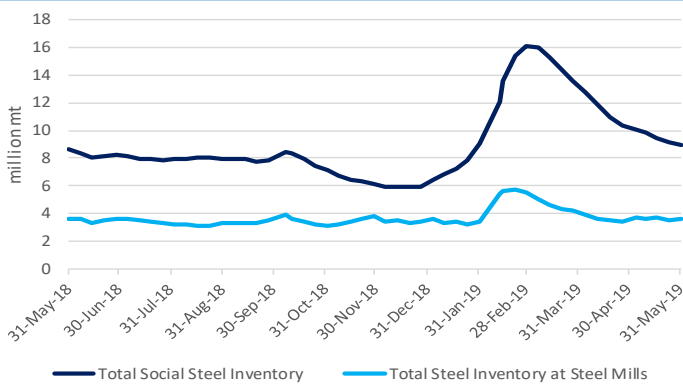
Rebar profits



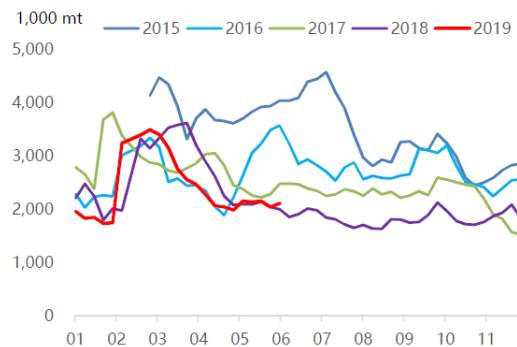
Hot-rolled coil profits



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*			
Port Index	62%	58%	65%
Seaborne Index	0	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					
June 5th, 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	61.52%	2.35%	3.88%	0.101%	9.45%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.56%	2.30%	3.93%	0.083%	7.47%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.67%	2.27%	4.81%	0.081%	7.15%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	60.80%	3.03%	4.41%	0.114%	7.22%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	65.57%	1.27%	1.40%	0.075%	8.53%	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	62.70%	1.50%	4.81%	0.070%	8.11%	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%

June 5th, 2019	Specifications applied for 58% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture
SSF	56.76%	3.06%	6.10%	0.053%	8.80%
FMG Blended Fines	58.15%	2.68%	5.54%	0.062%	7.50%
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	57.13%	1.80%	6.42%	0.047%	8.59%

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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