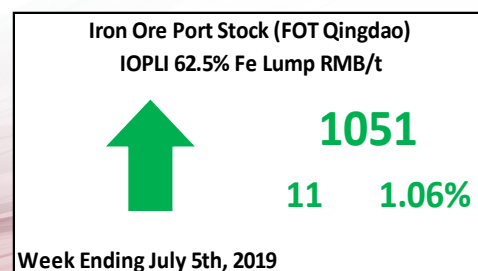
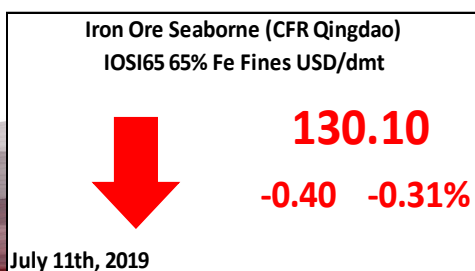
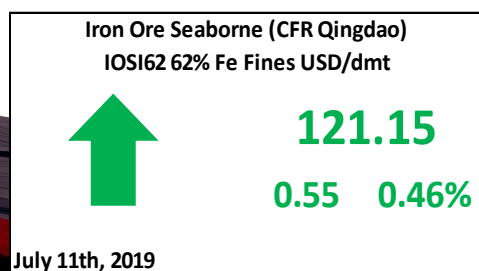
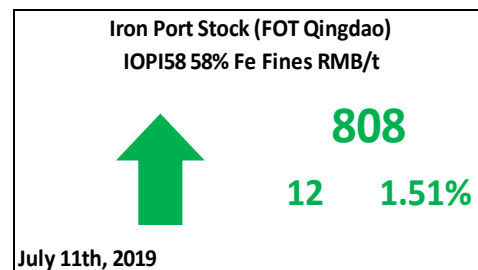
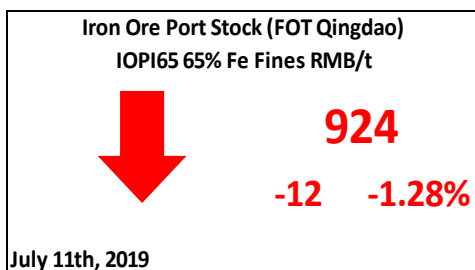
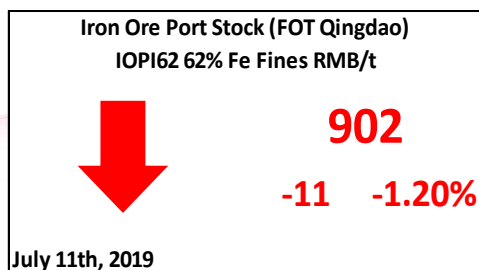


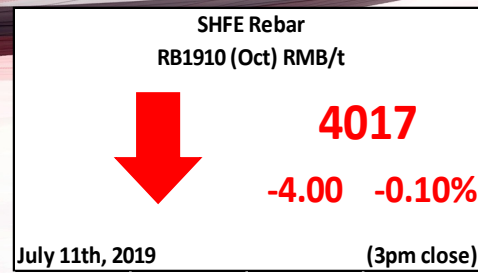
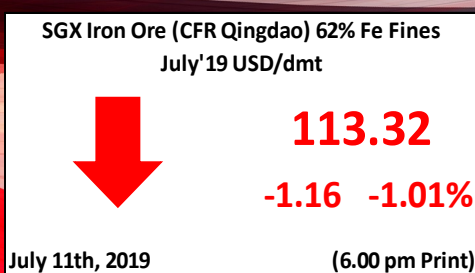
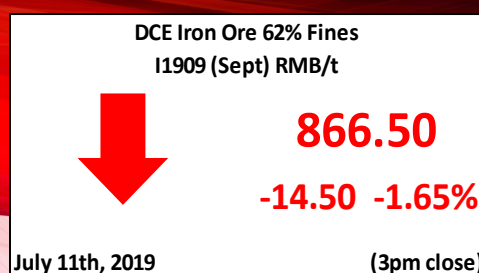


MMi Dashboard

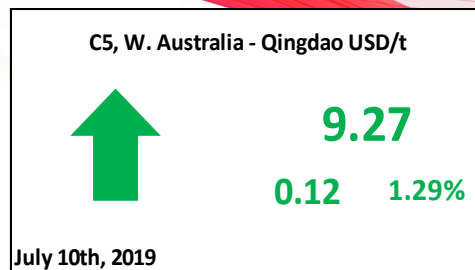
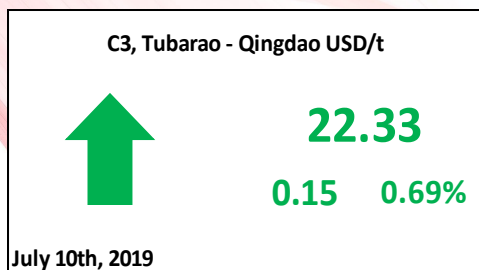
Iron Ore Price Indices



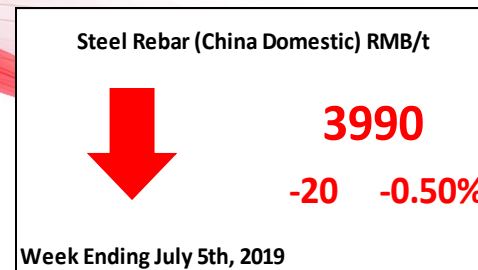
Exchange Traded Contracts



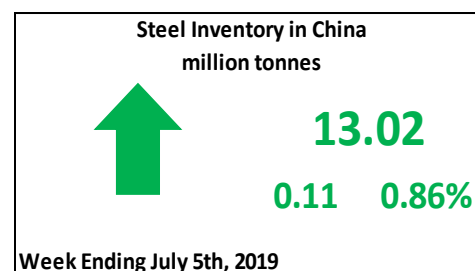
Freight Rates



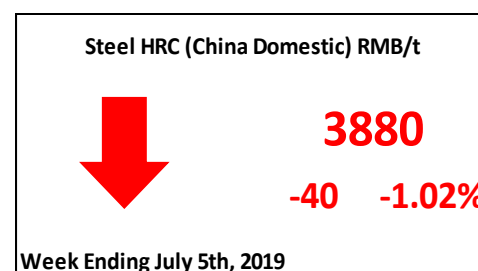
Steel Price



Inventory Levels



Steel Price



IRON ORE PORT STOCK INDEX (IOPI)

July 11th, 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	902	-11	-1.2%	913	698	468	928	122.41	-1.22	-1.0%	123.82	93.86	62.21	126.12
IOPI58	58% Fe Fines	808	12	1.5%	797	606	344	808	110.45	1.98	1.8%	108.81	81.39	43.55	110.45
IOPI65	65% Fe Fines	924	-12	-1.3%	959	776	623	992	125.50	-1.35	-1.1%	130.28	104.76	83.98	135.34

IRON ORE SEABORNE INDEX (IOSI)

MARKET COMMENTARY

July 11th, 2019		CFR Qingdao, USD/dry tonne							Yesterdays slow trading day was followed by todays, as mill demand remained low. Some traders in North China lowered their quotes in order to sell though some still are unwilling to compromise, believing the physical iron ore port stock market to remain strong. Today's steel inventory data pull steel prices lower, and thus impacting mill purchasing demand. As this week's steel production has dropped due to the strict production limits in Tangshan and Wu'an, this has restrained iron ore demand.							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ³	High ³								
IOSI62	62% Fe Fines	121.15	0.55	0.46%	122.40	93.55	62.95	127.50								
IOSI65	65% Fe Fines	130.10	-0.40	-0.31%	132.66	107.58	83.20	137.95								

IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending July 5th, 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	1051	11	1.1%	1051	889	610	1051	133.81	1.46	1.10%	133.81	113.93	77.55	133.81

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending July 5th, 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	989	1.3%	600	989	144.06	1.34%	91.97	144.06
Hebei	Qian'an	65% Fe Concentrate	Dry	905	1.7%	655	905	131.82	1.70%	100.26	131.82
Liaoning	Anshan	65% Fe Concentrate	Wet	685	3.8%	465	745	99.78	3.80%	68.21	99.78
Shandong	Zibo	65% Fe Concentrate	Dry	1010	0.0%	660	1010	147.11	0.01%	99.75	147.11

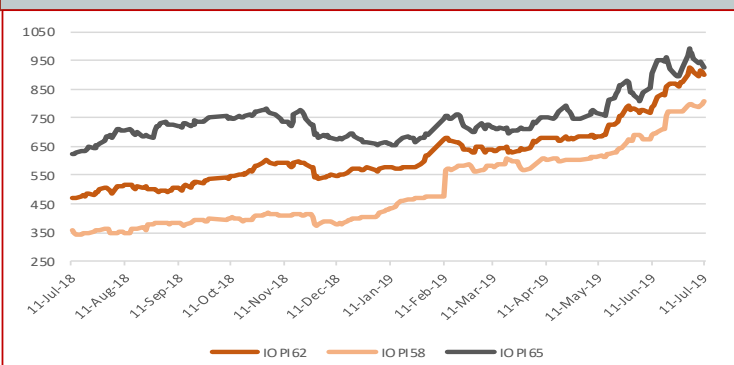
Week Ending July 5th, 2019

This week	Change %	Low ²	High ²
811.12	1.8%	552.39	811.12

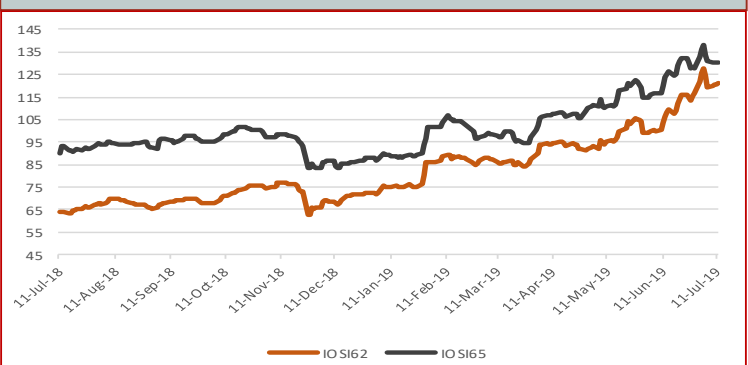
China Mines Concentrate Composite Index RMB/WT

¹ Exchange rate applied: RMB/USD = 6.8677² Last 12 months ³ Since June 1
⁴ Weekly exchange rate applied: RMB/USD 6.8654

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

July 11th, 2019		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	March	April	May	June	MTD	QTD	YTD	March	April	May	June	MTD	QTD	YTD
IOPI62	62% Fe Fines	639	675	729	825	913	913	698	87.09	85.37	98.40	111.42	123.82	123.82	93.86
IOPI58	58% Fe Fines	583	600	637	726	797	797	606	75.22	77.49	86.39	98.60	108.81	108.81	81.39
IOPI65	65% Fe Fines	714	753	812	901	959	959	776	98.08	95.78	110.00	121.97	130.28	130.28	104.76

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

FREIGHT RATES

July 11th, 2019		CFR Qingdao, USD/dry tonne							July 10th, 2019							
Index	Fe Content	March	April	May	June	MTD	QTD	YTD	Route		Designation	Change	Change %	Low ²	High ²	
IOSI62	62% Fe Fines	86.18	93.42	98.68	108.57	122.40	122.40	93.55	W. Australia - Qingdao		C5	9.27	0.12	1.29%	4.39	10.00
IOSI65	65% Fe Fines	97.22	106.75	115.53	124.49	132.66	132.66	107.58	Tubarao - Qingdao		C3	22.33	0.15	0.69%	11.61	24.76

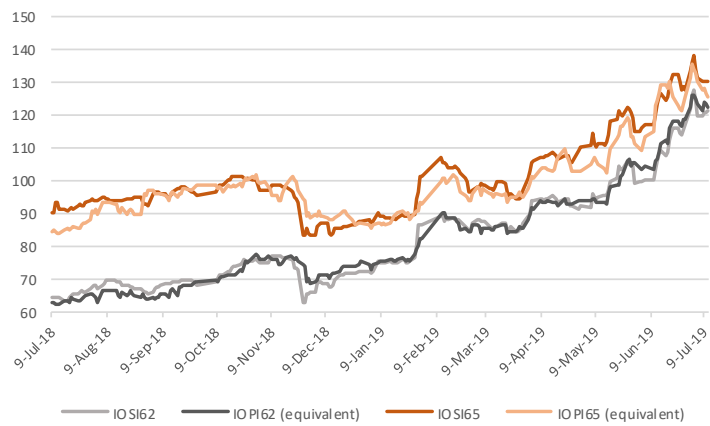
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending July 5th, 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	1051	1051	889	99.57	111.03	117.12	128.00	133.81	133.81	113.93

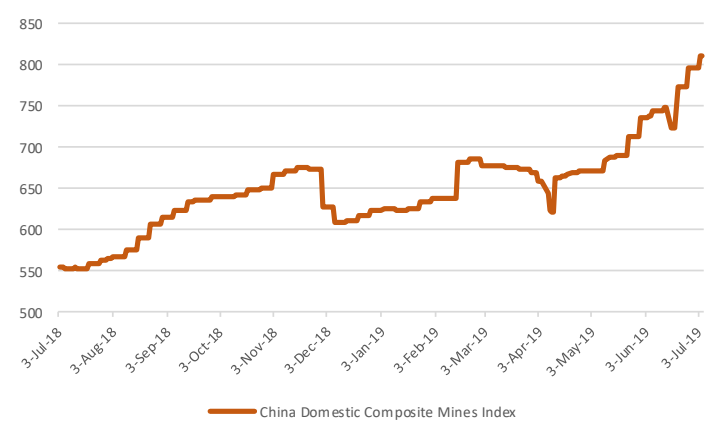
IRON ORE INDEX PREMIUMS/DISCOUNTS

July 11th, 2019		PORT STOCK INDEX (RMB/WT)				July 11th, 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	-94		-10.42%		IOSI65	65% Fe Fines	8.95		7.39%	
IOPI65	65% Fe Fines	22		2.44%							

IRON ORE INDEX COMPARISONS (USD/DMT)



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



IRON ORE BRAND SPOT PRICE ASSESSMENTS

July 11th, 2019				July 11th, 2019			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	862	-11	-40	Roy Hill	118.22	0.55	-2.93
SIMEC Fines	819	-14	-83	SIMEC Fines	116.65	0.55	-4.50
PB Fines	885	-10	-17	PB Fines	121.15	0.55	0.00
Newman Fines	906	-10	4	Newman Fines	122.97	0.55	1.82
MAC Fines	876	-11	-26	MAC Fines	118.90	0.55	-2.25
Jimblebar Blended Fines	867	-9	-35	Jimblebar Blended Fines	117.90	0.55	-3.25
Carajas Fines	925	-13	23	Carajas Fines	128.60	0.55	7.45
Brazilian SSF	823	-19	-79	Brazilian SSF	121.77	0.55	0.62
Brazilian Blend Fines	873	-15	-29	Brazilian Blend Fines	122.65	0.55	1.50
RTX Fines	865	-10	-37	RTX Fines	117.90	0.55	-3.25
West Pilbara Fines	863	-9	-39	West Pilbara Fines	116.87	0.55	-4.28

July 11th, 2019			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	756	3	-52
FMG Blended Fines	812	11	4
Robe River	755	5	-53
Western Fines	778	2	-30
Atlas Fines	766	3	-42
Yandi	840	5	32

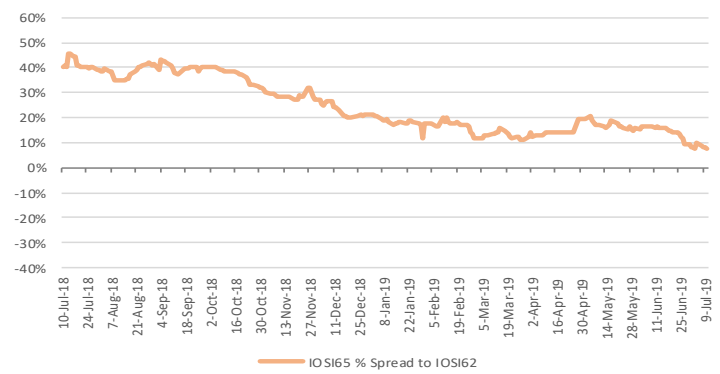
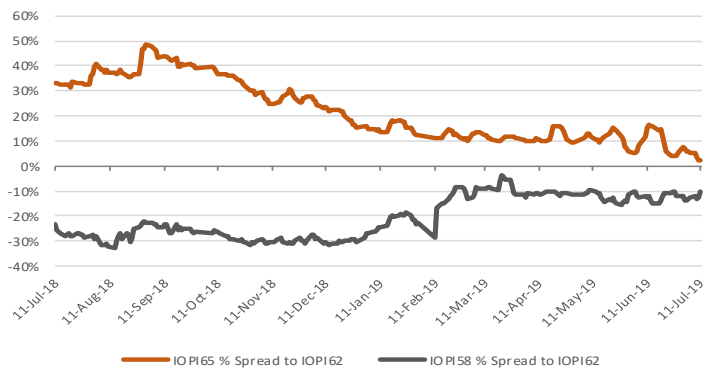
IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	3.00	-2.00	1% Fe	High Grade Fe 60 - 63%	2.25	0.00	
	High Grade Fe 63 - 64%	7.00	0.00		High Grade Fe 63 - 64%	1.75	0.00	
	High Grade Fe 64 - 65%	7.00	0.00		High Grade Fe 64 - 65%	1.75	0.00	
	High Grade Fe 65 - 65.5%	7.00	0.00		High Grade Fe 65 - 65.5%	1.75	0.00	
	Low Grade Fe	15.00	2.00					
1% Alumina	High Fe Grade Al <2.25%	5.00	0.00	1% Alumina	High Fe Grade Al <2.25%	0.50	0.00	
	High Fe Grade Al 2.25-4%	0.00	0.00		High Fe Grade Al 2.25-4%	0.00	0.00	
	Low Fe Grade Al <2.25%	62.00	-3.00					
	Low Fe Grade Al 2.25-4%	37.00	5.00					
1% Silica	High Fe Grade Si <4%	0.00	0.00	1% Silica	High Fe Grade Si <4%	0.50	0.00	
	High Fe Grade Si 4-6.5%	41.00	3.00		High Fe Grade Si 4 - 6.5%	0.00	0.00	
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	1.00	0.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.00	0.00	
	High Fe Grade 0.115%<P<0.15%	8.00	0.00		High Fe Grade 0.115%<P<0.15%	0.50	0.00	
	Low Fe Grade 0.09<P<0.1%	5.00	0.00					

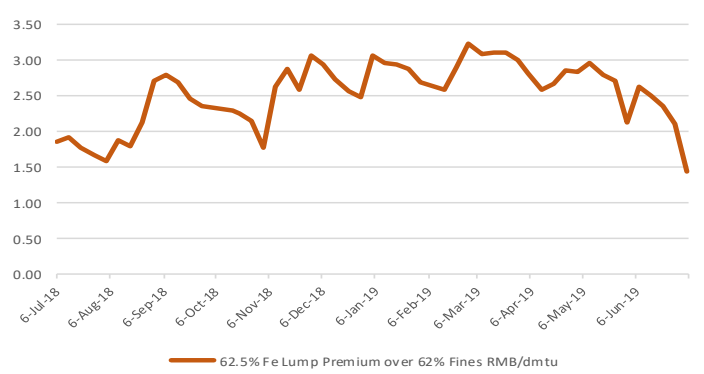
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-15.00	0.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-15.00	0.00	Lianyungang	-10.00	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	-15.00	0.00	Lanqiao	0.00	0.00	Nantong	-25.00	0.00	Tianjin	0.00	0.00

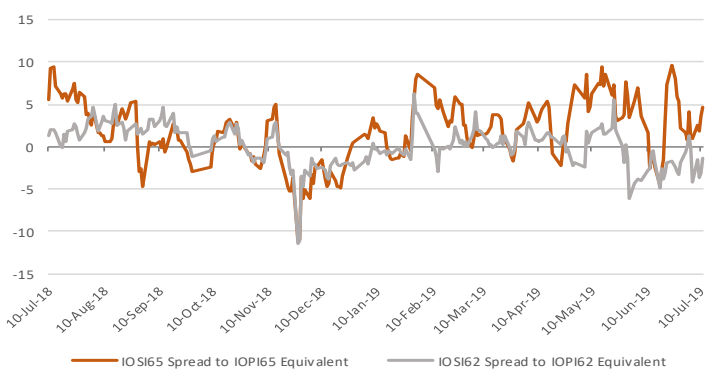
IRON ORE INDEX PREMIUMS/DISCOUNTS



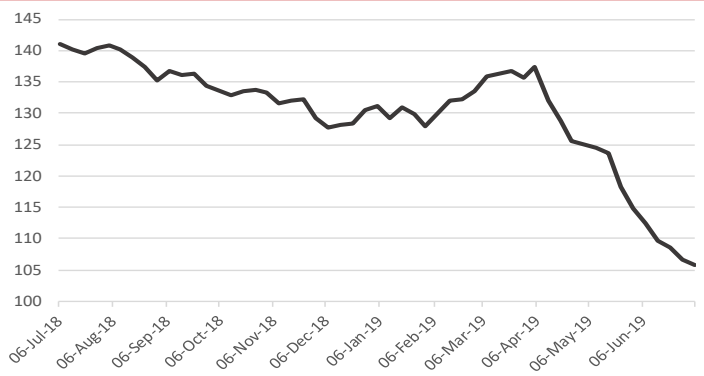
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



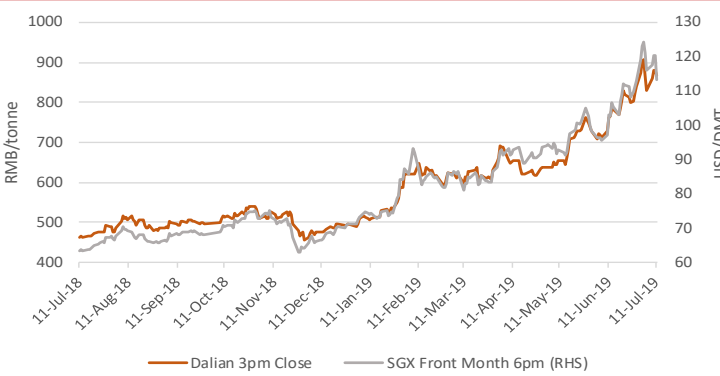
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending July 5th, 2019				
Province	This week	Change %	Low ²	High ²
Jingtang	10.96	-1.88%	10.96	17.20
Qingdao	13.86	-3.48%	13.37	19.01
Caofeidian	14.48	-2.43%	14.48	20.10
Tianjin	7.27	-1.62%	6.69	10.48
Rizhao	11.65	-1.94%	11.65	18.97
Total (35 Ports)	105.80	-0.82%	105.80	140.96

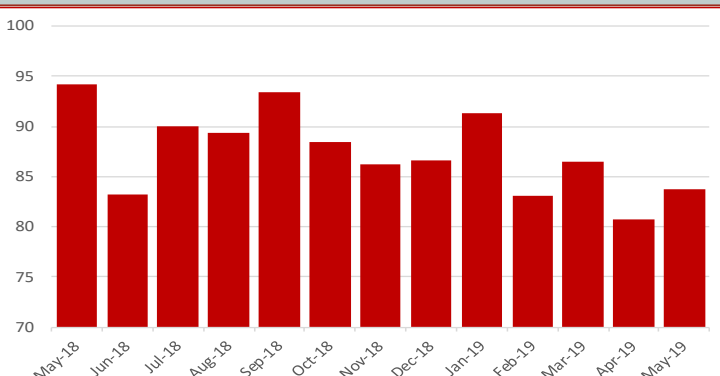
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	July 11th 3pm close			July 11th Feb 5:30 pm		
Contract	11909	Change	Change %	Aug'19	Change	Change %
Closing Price	866.50	-14.5	-1.65%	113.32	-1.16	-1.01%
Vol traded ('000 lots)	215.24	22.3	11.53%	11.82	-3.28	-21.74%
Open positions ('000 lots)	138.19	-2.8	-2.01%	159.69	6.30	4.11%
Day Low	862.0	-6.0	-0.69%	112.92	-1.56	-1.36%
Day High	884.0	-2.5	-0.28%	115.50	-0.86	-0.74%

DRY BULK FREIGHT RATES (USD/MT)



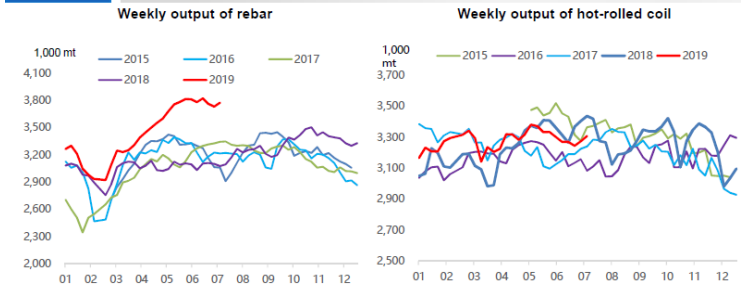
TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne

Product	5/7/2019	Change	Change %
ReBar HRB400 φ18mm	3,990.0	-20	-0.50%
Wirerod Q300 φ6.5mm	4,240.0	-20	-0.47%
HRC Q235/SS400 5.5mm*1500*C	3,880.0	-40	-1.02%
CRC SPCC/ST12 1.0mm*1250*2500	4,200.0	20	0.48%
Medium & Heavy Plate Q235B 20mm	3,980.0	30	0.76%
GI ST02Z 1.0mm*1000*C	4,620.0	30	0.65%
Colour Coated Plate	6,850.0	80	1.18%



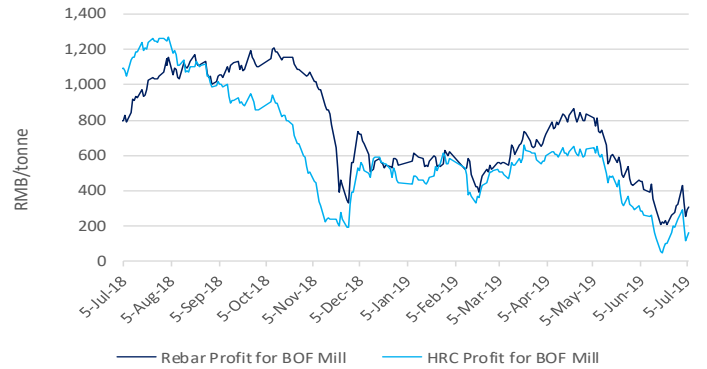
CHINESE STEEL MILL PROFITABILITY

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	124.70	9.40	Mmi CFR Equivalent index for 1st Feb
Coke	1,910	-150	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,330	70	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,418	34	Q234, incl. tax
Rebar cost - Blast furnace	3,670	35	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	310	-15	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,735	34	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	165	-74	based on Shanghai prices, incl. tax

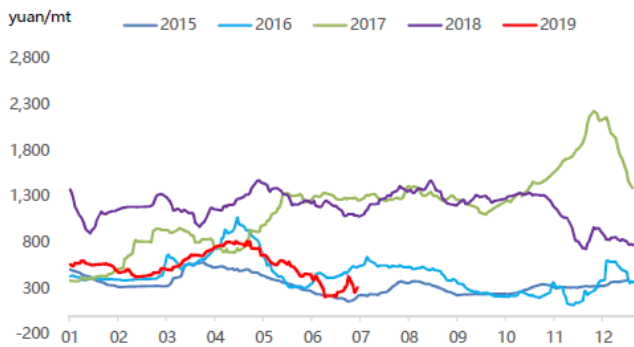
Note: 1. Costs in the table are calculated based on today's market prices and factored our management, sales, financial and depreciations fees.
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

CHINESE STEEL MILL PROFITABILITY

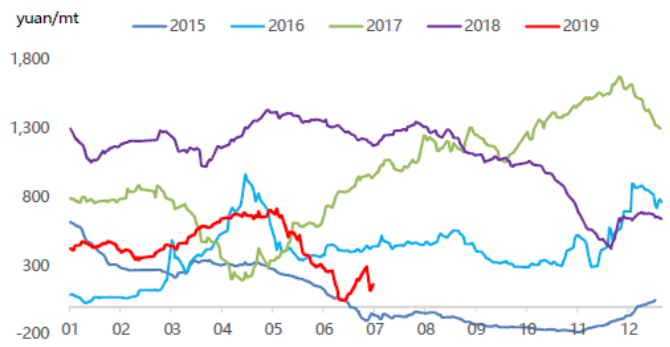


CHINESE STEEL MILL PROFITABILITY

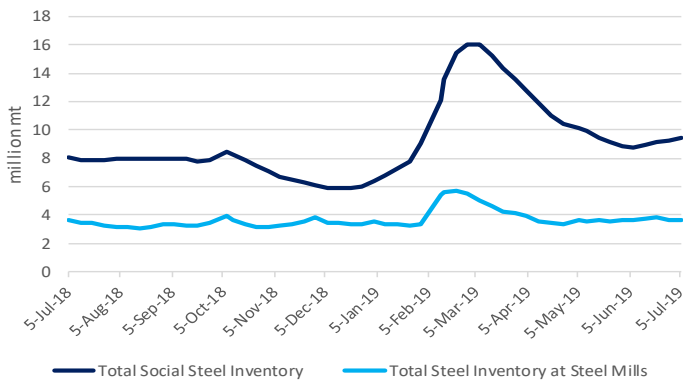
Rebar profits



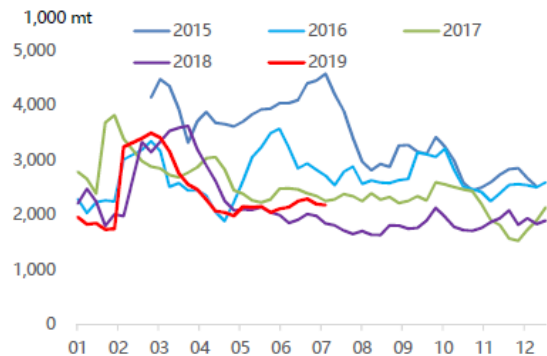
Hot-rolled coil profits



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					
July 11th, 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	61.51%	2.36%	3.86%	0.101%	9.44%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.55%	2.27%	3.99%	0.087%	7.79%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.89%	2.24%	4.67%	0.081%	7.53%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	60.84%	3.00%	4.40%	0.114%	7.28%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	65.64%	1.22%	1.42%	0.067%	8.38%	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	62.85%	1.45%	4.81%	0.073%	8.28%	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%

July 11th, 2019	Specifications applied for 58% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture
SSF	56.72%	3.06%	6.28%	0.058%	8.45%
FMG Blended Fines	58.18%	2.60%	5.46%	0.062%	7.46%
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	57.45%	1.51%	6.24%	0.040%	8.88%

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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