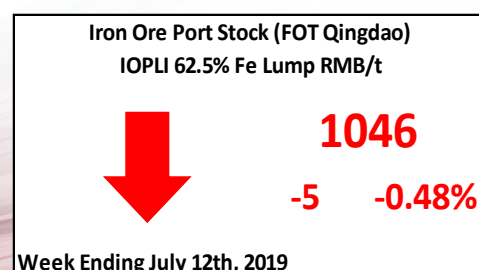
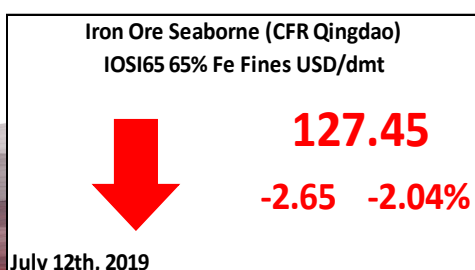
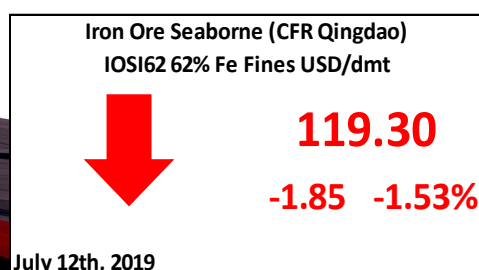
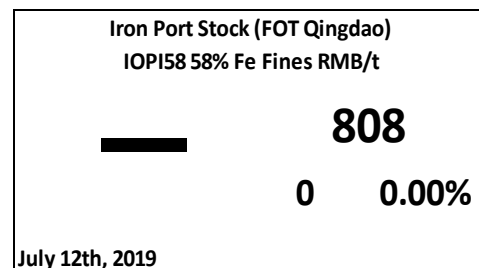
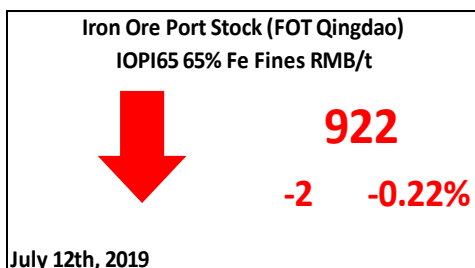
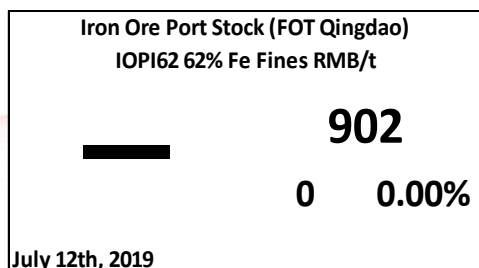


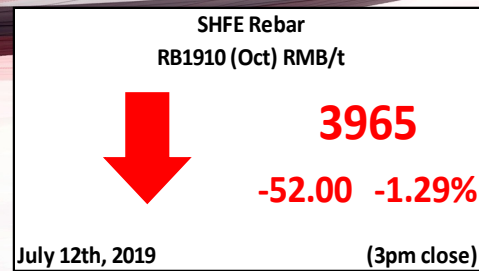
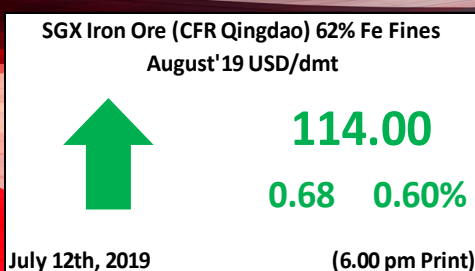
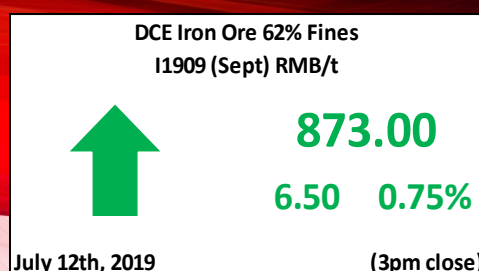


## MMi Dashboard

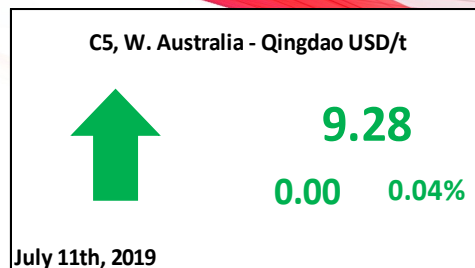
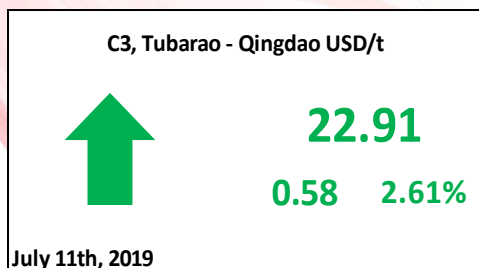
## Iron Ore Price Indices



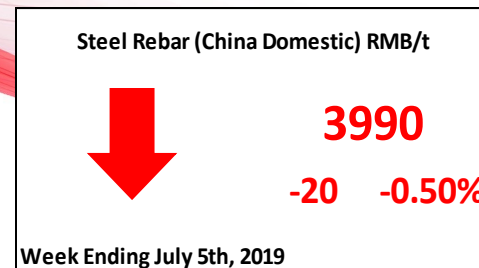
## Exchange Traded Contracts



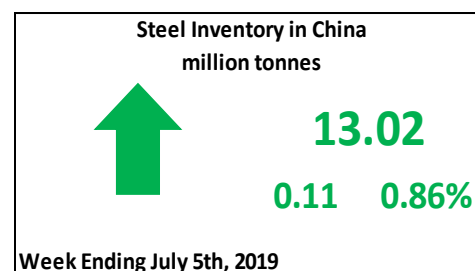
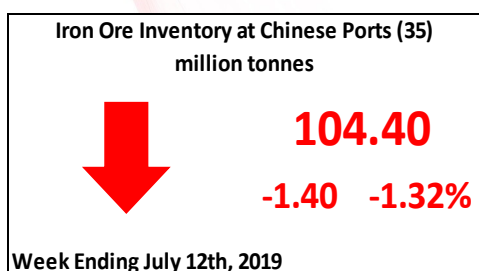
## Freight Rates



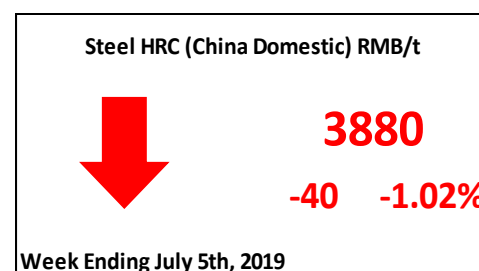
## Steel Price



## Inventory Levels



## Steel Price



## IRON ORE PORT STOCK INDEX (IOPI)

July 12th, 2019		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	902	0	0.0%	912	700	468	928	122.44	0.03	0.0%	123.68	94.08	62.21	126.12
IOPI58	58% Fe Fines	808	0	0.0%	798	607	344	808	110.47	0.02	0.0%	108.98	81.62	43.55	110.45
IOPI65	65% Fe Fines	922	-2	-0.2%	955	777	623	992	125.24	-0.26	-0.2%	129.77	104.92	83.98	135.34

## IRON ORE SEABORNE INDEX (IOSI)

## MARKET COMMENTARY

July 12th, 2019		CFR Qingdao, USD/dry tonne							As of July 12, iron ore stocks across 35 Chinese ports shrank 1.41 million mt from a week ago and 34.88 million mt from a year ago, and stood at 104.4 million mt, SMM statistics showed. Daily average deliveries from the 35 ports increased 88,000 mt from a week ago and 79,600 mt from a year ago, and stood at 2.65 million mt last week. Output controls drove most steel mills in Tangshan to restock only as needed, and this kept daily average deliveries from Caofeidian port and Jingtang port stable around 250,000 mt. Higher arrivals may grow stocks across these two ports next week. Deliveries from major ports along the Yangtze River inched up last week as improved profits incentivized some steel mills to raise operating rates of blast furnaces. Tight supplies across some ports along the Yangtze River eased after more non-mainstream ore arrived.							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>								
IOSI62	62% Fe Fines	119.30	-1.85	-1.53%	122.09	93.75	62.95	127.50								
IOSI65	65% Fe Fines	127.45	-2.65	-2.04%	132.14	107.73	83.20	137.95								

## IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending July 12th, 2019		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne <sup>4</sup>						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>	Price	W-o-W	Change %	MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>
IOPLI62	62.5% Fe Lump	1046	-5	-0.5%	1049	895	611	1051	132.90	-0.91	-0.68%	133.35	114.63	77.55	133.81

## IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending July 5th, 2019				RMB/tonne (excluding tax) <sup>4</sup>				USD/tonne (excluding tax) <sup>4</sup>			
Province	Region	Product	Basis	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
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

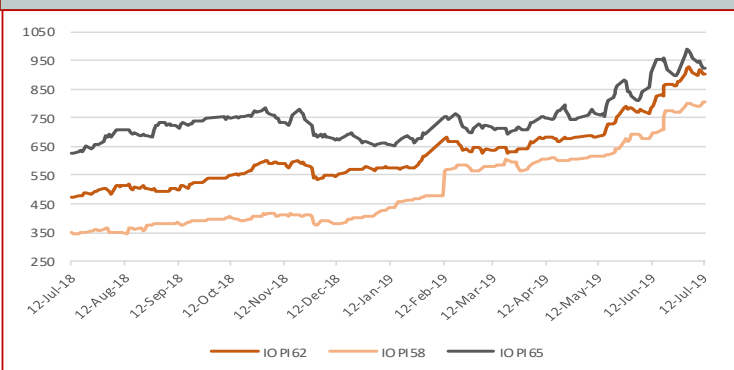
Week Ending July 5th, 2019

This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
811.12	1.8%	552.39	834.48

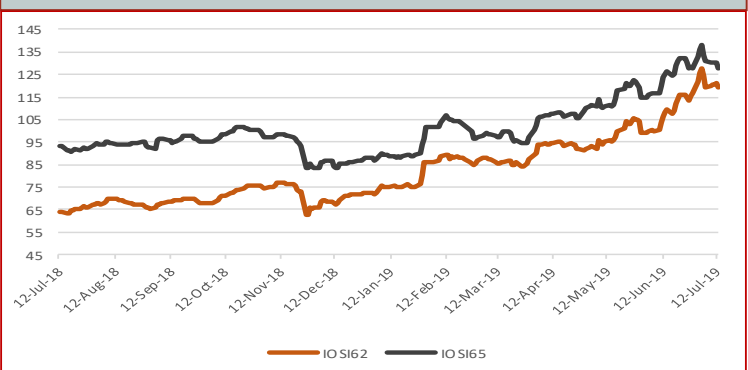
China Mines Concentrate Composite Index RMB/WT

<sup>1</sup> Exchange rate applied: RMB/USD = 6.866 <sup>2</sup> Last 12 months <sup>3</sup> Since June 1  
<sup>4</sup> Weekly exchange rate applied: RMB/USD 6.8786

## 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 12th, 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	912	912	700	87.09	85.37	98.40	111.42	123.68	123.68	94.08
IOPI58	58% Fe Fines	583	600	637	726	798	798	607	75.22	77.49	86.39	98.60	108.98	108.98	81.62
IOPI65	65% Fe Fines	714	753	812	901	955	955	777	98.08	95.78	110.00	121.97	129.77	129.77	104.92

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

## FREIGHT RATES

July 12th, 2019		CFR Qingdao, USD/dry tonne							July 11th, 2019							
Index	Fe Content	March	April	May	June	MTD	QTD	YTD	Route		Designation	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>	
IOSI62	62% Fe Fines	86.18	93.42	98.68	108.57	122.09	122.09	93.75	W. Australia - Qingdao		C5	9.28	0.00	0.04%	4.39	10.00
IOSI65	65% Fe Fines	97.22	106.75	115.53	124.49	132.14	132.14	107.73	Tubarao - Qingdao		C3	22.91	0.58	2.61%	11.61	24.76

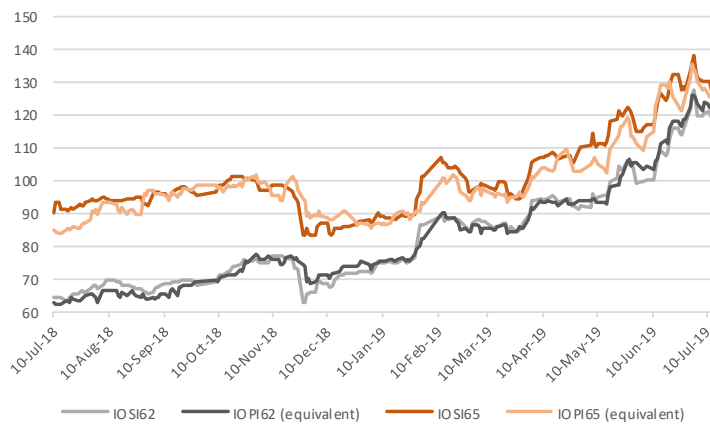
## IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending July 12th, 2019		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne <sup>1</sup>						
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	1049	1049	895	99.57	111.03	117.12	128.00	133.35	133.35	114.63

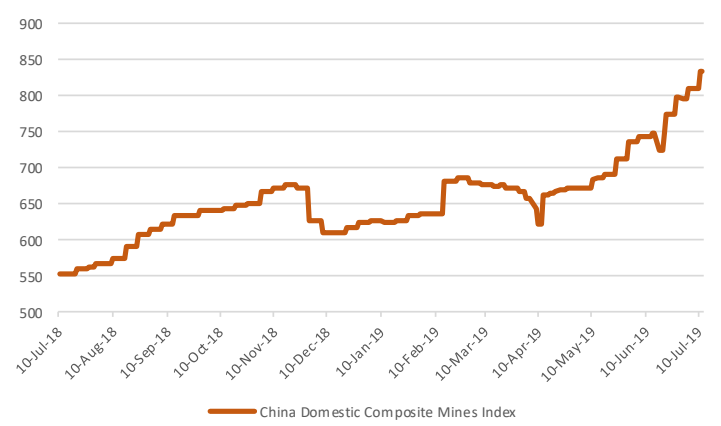
## IRON ORE INDEX PREMIUMS/DISCOUNTS

July 12th, 2019				PORT STOCK INDEX (RMB/WT)				July 12th, 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	8.15		6.83%					
IOPI65	65% Fe Fines	20		2.22%											

## IRON ORE INDEX COMPARISONS (USD/DMT)



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



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

July 12th, 2019				July 12th, 2019			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IO SI62
Roy Hill	860	-2	-42	Roy Hill	116.15	-2.07	-3.15
SIMEC Fines	814	-5	-88	SIMEC Fines	114.22	-2.43	-5.08
PB Fines	885	0	-17	PB Fines	119.22	-1.93	-0.08
Newman Fines	906	0	4	Newman Fines	121.04	-1.93	1.74
MAC Fines	874	-2	-28	MAC Fines	116.87	-2.03	-2.43
Jimblebar Blended Fines	865	-2	-37	Jimblebar Blended Fines	115.60	-2.30	-3.70
Carajas Fines	923	-2	21	Carajas Fines	124.94	-3.66	5.64
Brazilian SSF	816	-7	-86	Brazilian SSF	118.99	-2.78	-0.31
Brazilian Blend Fines	870	-3	-32	Brazilian Blend Fines	120.36	-2.29	1.06
RTX Fines	863	-2	-39	RTX Fines	115.92	-1.98	-3.38
West Pilbara Fines	861	-2	-41	West Pilbara Fines	114.85	-2.02	-4.45

July 12th, 2019			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	752	-4	-56
FMG Blended Fines	811	-1	3
Robe River	753	-2	-55
Western Fines	773	-5	-35
Atlas Fines	761	-5	-47
Yandi	840	0	32

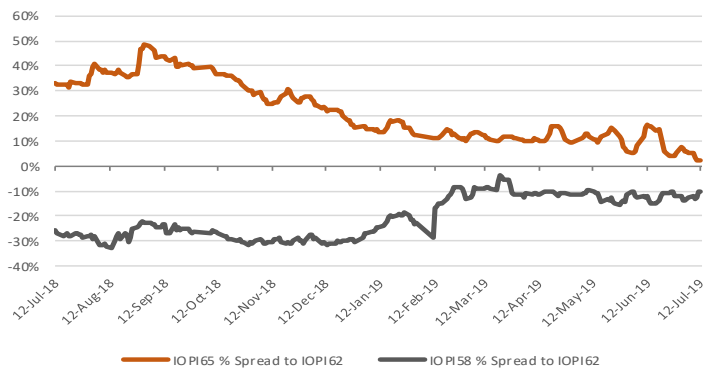
## IRON ORE INDEX NORMALISATION DIFFERENTIALS

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	0.00	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%	1.25	-0.50	
	High Grade Fe 64 - 65%	7.00	0.00		High Grade Fe 64 - 65%	1.25	-0.50	
	High Grade Fe 65 - 65.5%	7.00	0.00		High Grade Fe 65 - 65.5%	1.25	-0.50	
	Low Grade Fe	15.00	0.00					
1% Alumina	High Fe Grade Al <2.25%	3.00	-2.00	1% Alumina	High Fe Grade Al <2.25%	0.25	-0.25	
	High Fe Grade Al 2.25-4%	1.00	1.00		High Fe Grade Al 2.25-4%	0.00	0.00	
	Low Fe Grade Al <2.25%	62.00	0.00					
	Low Fe Grade Al 2.25-4%	40.00	3.00					
1% Silica	High Fe Grade Si <4%	0.00	0.00	1% Silica	High Fe Grade Si <4%	0.25	-0.25	
	High Fe Grade Si 4-6.5%	43.00	2.00		High Fe Grade Si 4 - 6.5%	0.25	0.25	
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%	4.00	-1.00					

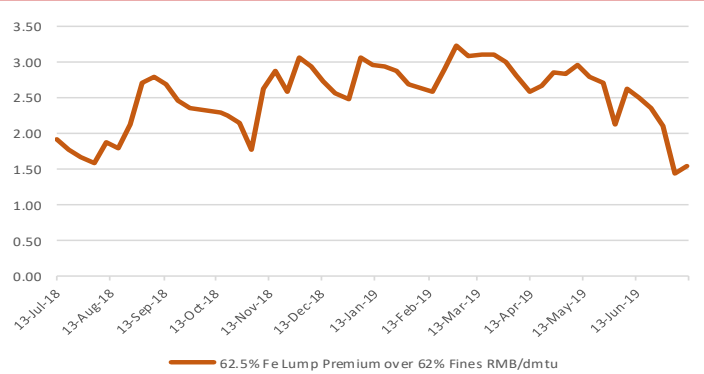
## Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

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

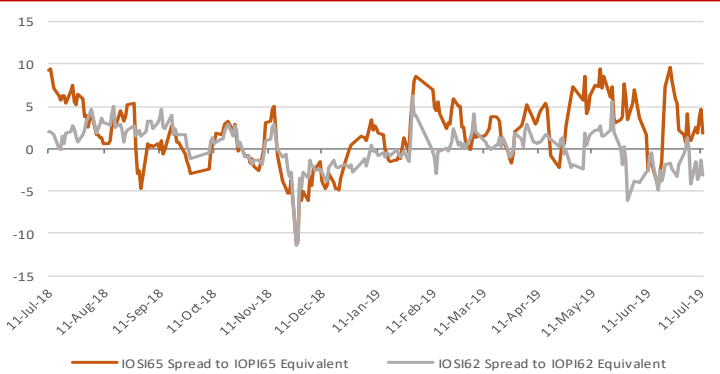
IRON ORE INDEX PREMIUMS/DISCOUNTS



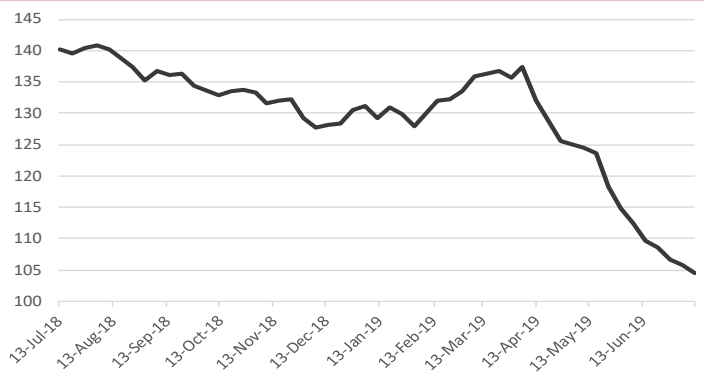
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



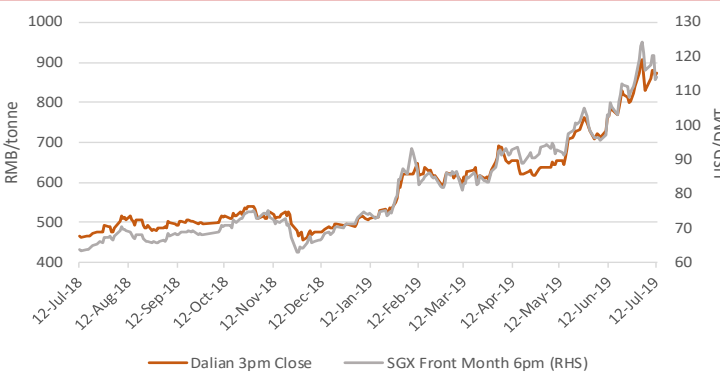
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending July 12th, 2019				
Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Jingtang	10.80	-1.46%	10.80	17.20
Qingdao	13.37	-3.54%	13.37	19.01
Caofeidian	14.67	1.31%	14.48	20.10
Tianjin	6.51	-10.45%	6.51	10.48
Rizhao	11.68	0.26%	11.65	18.73
<b>Total (35 Ports)</b>	<b>104.40</b>	<b>-1.32%</b>	<b>104.40</b>	<b>140.74</b>

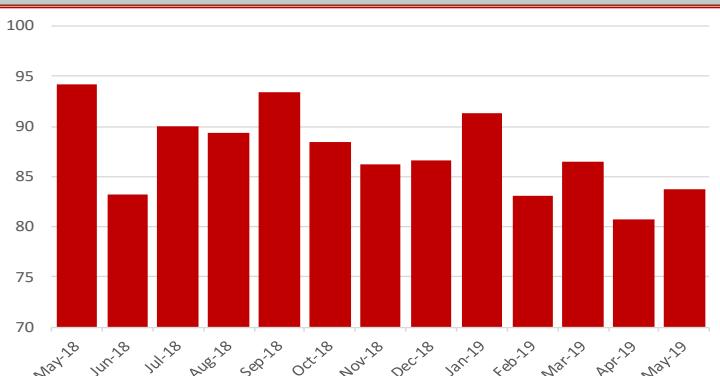
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	July 12th 3pm close			July 12th Feb 5:30 pm		
Contract	I1909	Change	Change %	Aug'19	Change	Change %
Closing Price	873.00	6.5	0.75%	114.00	0.68	0.60%
Vol traded ('000 lots)	155.59	-59.7	-27.71%	9.32	-2.50	-21.12%
Open positions ('000 lots)	140.27	2.1	1.50%	158.84	-0.85	-0.53%
Day Low	866.0	4.0	0.46%	112.63	-0.29	-0.26%
Day High	882.0	-2.0	-0.23%	114.89	-0.61	-0.53%

DRY BULK FREIGHT RATES (USD/MT)



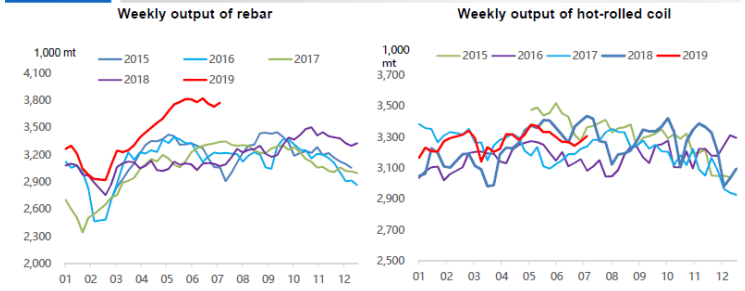
TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



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%



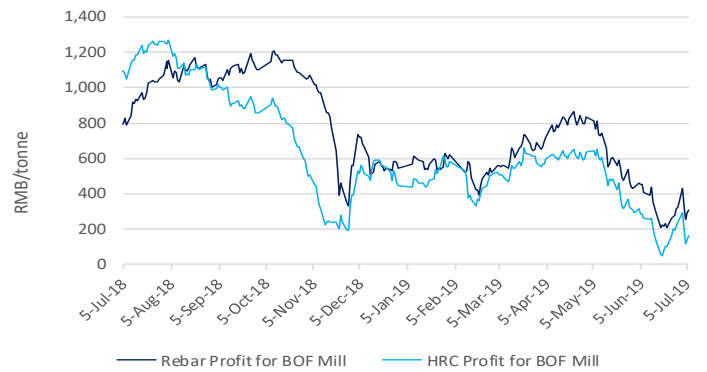
CHINESE STEEL MILL PROFITABILITY

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

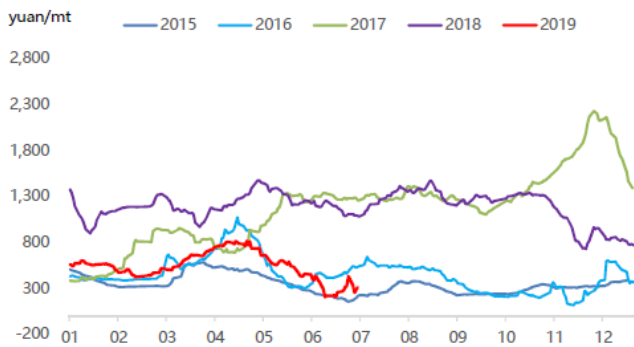
Note: 1. Costs in the table are calculated based on today's market prices and factored our management, sales, financial and depreciations fees.  
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

CHINESE STEEL MILL PROFITABILITY

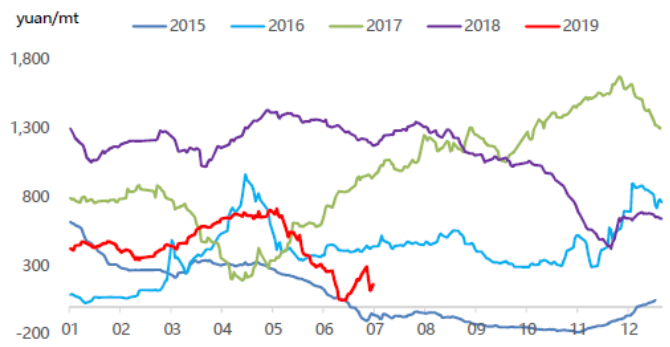


CHINESE STEEL MILL PROFITABILITY

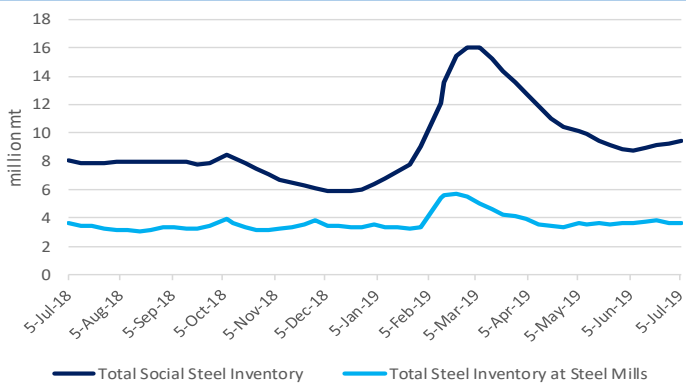
Rebar profits



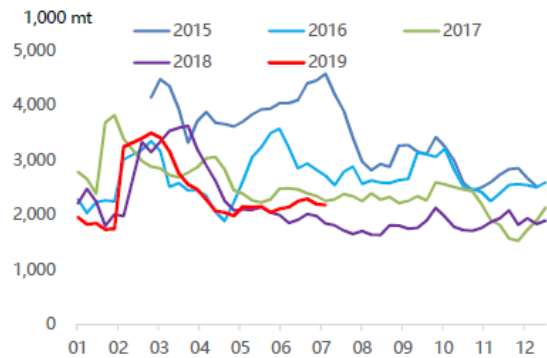
Hot-rolled coil profits



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
	<b>65% Fe Fines</b>	<b>62% Fe Fines</b>	<b>58% Fe Fines</b>	<b>62.5% Fe Lump</b>	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: <a href="http://www.mmiprices.com">www.mmiprices.com</a>
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	
<b>Data Exclusions*</b>					
	<b>62%</b>	<b>58%</b>	<b>65%</b>		
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 12th, 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 12th, 2019	Specifications applied for 58% brand assessments						Specifications applied for 58% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture		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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