

## Daily Iron Ore Index Report

June 12, 2018

### IRON ORE PORT STOCK INDEX (IOPI)

June 12, 2018		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% 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	478	3	0.6%	473	479	443	559	65.76	0.38	0.6%	65.06	66.25	61.36	77.89
IOPI58	58% Fe Fines	329	-5	-1.5%	329	325	304	376	43.99	-0.77	-1.7%	44.04	43.74	40.67	50.97
IOPI65	65% Fe Fines	603	2	0.3%	576	587	541	690	84.03	0.22	0.3%	80.19	82.20	75.83	97.10

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

Week Ending June 8, 2018				RMB/tonne (excluding tax)				USD/tonne (excluding tax) <sup>3</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	592	0.0%	579	682	92.41	0.0%	90.38	106.45
Hebei	Qian'an	65% Fe Concentrate	Dry	645	0.0%	630	710	100.68	0.0%	98.34	110.82
Liaoning	Anshan	65% Fe Concentrate	Wet	515	0.0%	445	550	75.68	0.0%	69.46	85.85
Shandong	Zibo	65% Fe Concentrate	Dry	665	0.0%	620	690	103.80	0.0%	96.78	107.70
Week Ending June 8, 2018				This week	Change %	Low <sup>4</sup>	High <sup>4</sup>				
China Mines Concentrate Composite Index RMB/WT				551.00	0.0%	534.50	612.27				

<sup>1</sup> Exchange rate applied: RMB/USD = 6.4121

<sup>3</sup> Weekly exchange rate applied: RMB/USD 6.4065

<sup>2</sup> Since March 1

<sup>4</sup> Last 12 months

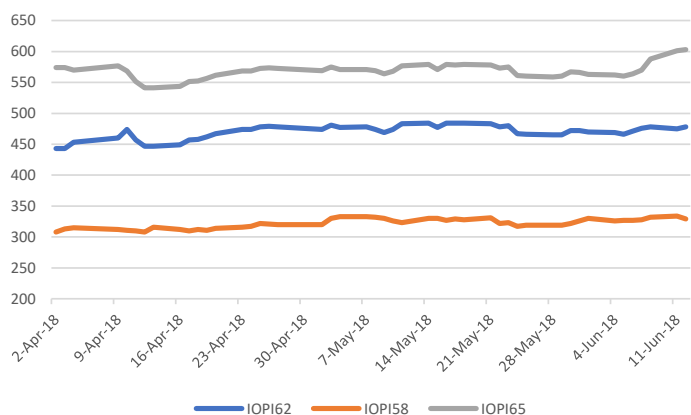
### MARKET COMMENTARY

The physical iron ore port stock market saw small movements today, as the 62% IOPI index erased yesterday's losses. News that steel production in Zhenjiang, Changzhou and Zhangjiagang will face limitations seemed to have little impact on the broader spot iron ore spot market. SMM confirmed that production will be cut by around 50% in Zhenjiang and Changzhou between June 11-24. Demand for iron ore is expected to weaken. Steel prices in Hangzhou rose by 40-80yuan/mt this afternoon, with some spot iron ore rising in tandem.

### PLATFORM TRADES AND TENDERS

61% Fines trades at 64.55USD/dmt for 170,000t 1-10 July LAYCAN  
61% Fines trades at 64.55USD/dmt for 190,000t 1—10 July LAYCAN  
61% Fines trades at 65.60 USD/dmt for 190,000t 29 June—8 July LAYCAN

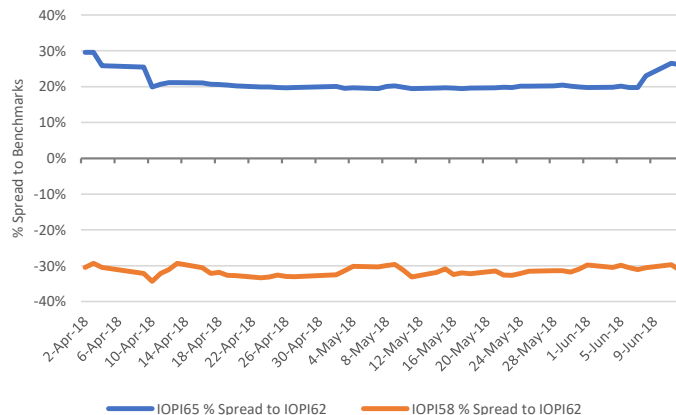
### IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)



### IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT

June 12, 2018		PORT STOCK INDEX (RMB/WT)	
Fe Content		Spread to IOPI62	% Spread to IOPI62
58% Fe Fines		-149	-31.17%
65% Fe Fines		125	26.15%

### IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT



### IRON ORE FUTURES CONTRACTS

Closing Date	DCE			SGX		
	12 June 3pm close			12 June 6pm		
Contract	I1809	Change	Change %	June'18	Change	Change %
Closing Price	473.5	3.5	0.74%	65.80	0.40	0.61%
Vol traded ('000 lots)	1,930.5	530.1	37.85%	6.86	5.86	585.61%
Open positions ('000 lots)	1,698.6	92.6	5.77%	112.02	0.09	0.08%
Day Low	464.5	-1.5	-0.32%	65.03	-0.37	-0.57%
Day High	474.0	1.5	0.32%	65.85	0.45	0.69%

### IRON ORE PORT INVENTORIES

Week Ending June 8, 2018 (million tonnes)				
Province	This week	Change %	Low <sup>4</sup>	High <sup>4</sup>
Jingtang	18.1	2.03%	17.10	19.00
Qingdao	19.50	1.56%	16.80	19.97
Caofeidian	19.9	-1.83%	19.90	25.30
Tianjin	9.6	-3.52%	9.20	11.00
Rizhao	18.74	0.16%	16.88	19.00
Total (35 Ports)	146.53	-0.70%	144.80	150.04

### FREIGHT RATES

June 11, 2018		FREIGHT RATES - DRY BULK US\$/wet tonne				
Route	Designation	Change	Change %	Low <sup>4</sup>	High <sup>4</sup>	
W. Australia - Qingdao	C5	7.78	-0.30	-3.74%	4.383	9.98
Tubarao - Qingdao	C3	18.78	-0.46	-2.39%	10.796	21.273

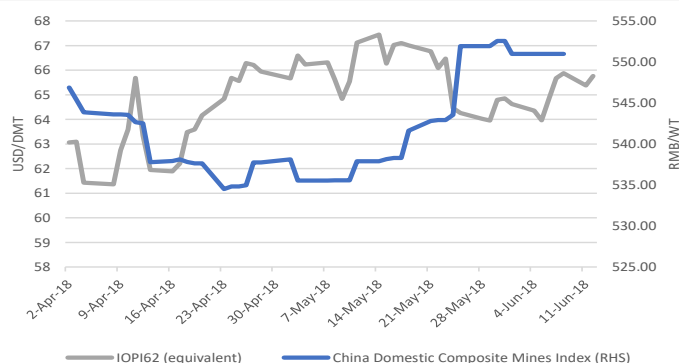
### BLOOMBERG

BLOOMBERG TICKERS		
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)
IOPI62	IRCNQ001	IRCNQ004
IOPI58	IRCNQ002	IRCNQ005
IOPI65	IRCNQ003	IRCNQ006

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### MMi BENCHMARK IRON ORE PRICES



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



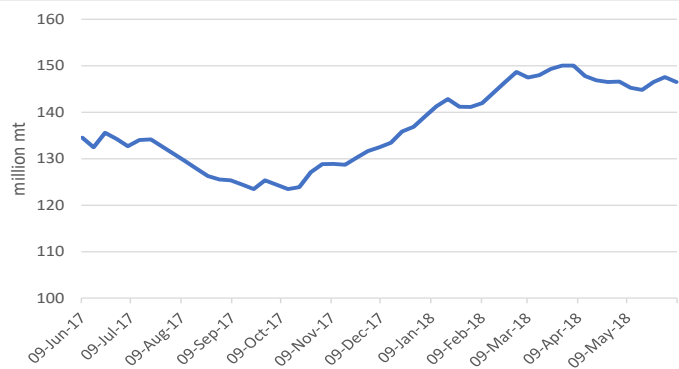
### IRON ORE BRAND SPOT PRICE ASSESSMENTS

June 12, 2018	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI62
Roy Hill	466	3	-12
PB Fines	467	2	-11
Newman Fines	477	3	-1
MAC Fines	468	3	-10
Jimblebar Blended Fines	452	2	-26
Carajas Fines	630	3	152
Brazilian SSF	484	3	6
Brazilian Blend Fines	482	3	4

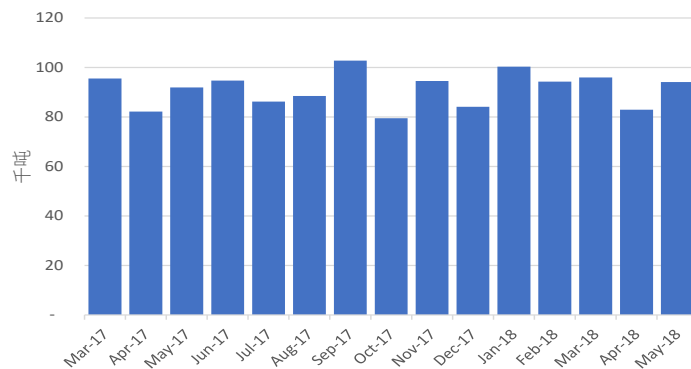
### AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

June 12, 2018	SPECIFICATIONS APPLIED FOR BRAND ASSESSMENTS				
	Fe	Alumina	Silica	Phos	Moisture
Roy Hill	61.00%	2.20%	4.50%	0.055%	8.00%
PB Fines	61.67%	2.34%	3.62%	0.100%	9.20%
Newman Fines	62.34%	2.45%	4.28%	0.086%	7.62%
MAC Fines	61.05%	2.14%	4.63%	0.083%	7.48%
Jimblebar Blended Fines	61.50%	2.88%	4.17%	0.121%	6.83%
Carajas Fines	65.60%	1.17%	1.50%	0.076%	8.05%
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
Brazilian Blend Fines	62.50%	1.60%	5.00%	0.060%	8.22%

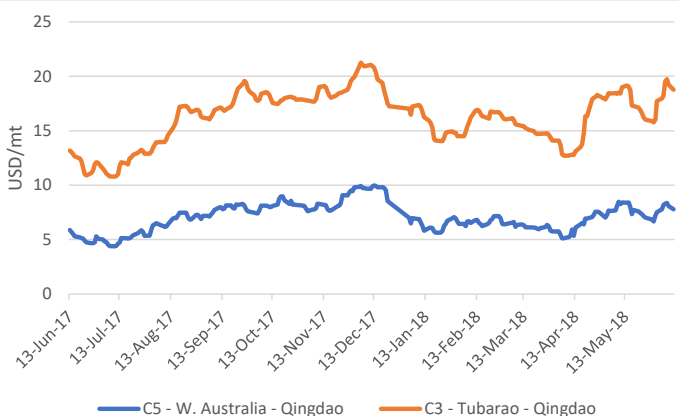
### TOTAL IRON ORE INVENTORIES AT CHINA PORTS



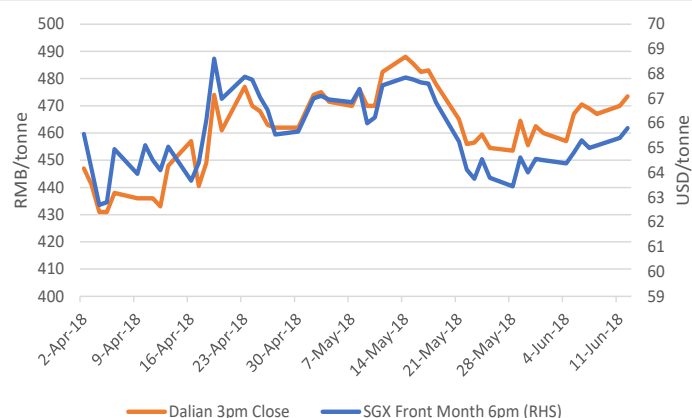
### TOTAL CHINA IRON ORE IMPORT VOLUMES



### DRY BULK FREIGHT RATES



### FUTURE TRADING—FRONT MONTH CLOSING PRICE



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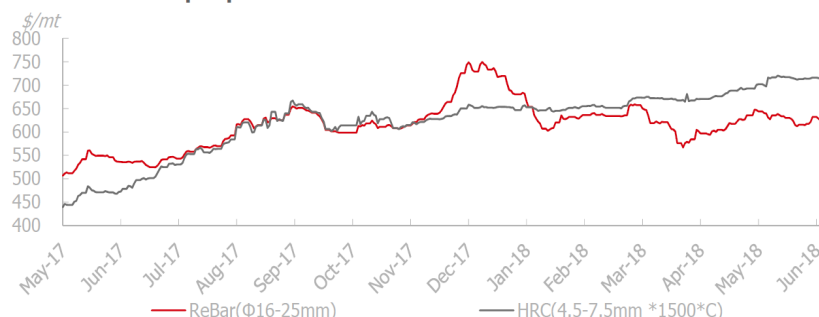
### STEEL SPOT MARKET—CHINA

#### Steel Spot Market RMB/tonne

Product	6/8/2018	Change	Change %	6/1/2018	Change	Change %
ReBar HRB400 $\phi$ 18mm	4,086.0	33.6	0.83%	4,052.4	121	3.07%
Wirerod Q300 $\phi$ 6.5mm	4,450.6	50.6	1.15%	4,400.0	176	4.17%
HRC Q235/SS400 5.5mm*1500*C	4,304.2	14.4	0.34%	4,289.8	56	1.32%
CRC SPCC/ST12 1.0mm*1250*2500	4,720.0	50.0	1.07%	4,670.0	60	1.30%
Medium & Heavy Plate Q235B 20mm	4,586.0	-4.0	-0.09%	4,590.0	37	0.81%
GI ST02Z 1.0mm*1000*C	5,360.0	25.0	0.47%	5,335.0	25	0.47%
Billet Q235 150*150mm	3,680.0	10.0	0.27%	3,670.0	50	1.38%

### CHINESE STEEL SPOT MARKET—REBAR & HRC IN USD/TONNE

#### Rebar and HRC spot prices



### CHINESE STEEL INVENTORIES

#### Steel Inventories<sup>3</sup> (unit: 1000 tonnes)

Product	6/8/2018	6/1/2018	Change	Change %
Rebar	4,952	5,154	-202	-3.92%
Wirerod	1,426	1,554	-128	-8.24%
Hot-rolled Coil	1,976	1,987	-11	-0.55%
Medium & Thick Plate	835	835	0	0.00%
Cold-rolled Coil	1,171	1,179	-8	-0.68%
Total	10,359	10,709	-350	-3.27%

<sup>3</sup> SMM statistics cover inventories of major steel products in China's major markets: hot-rolled steel inventories in 33 major cities; rebar and wire inventories in 35 major cities; cold-rolled steel and medium-thick plate inventories in 31 major cities.

### CHINESE STEEL MILL PROFITABILITY

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

Category	Price	Change (WoW)	Note
Iron ore Port Index FOT Qingdao (inc. 17% VAT), I	478	8	MMI index for 25th May 2018
Coke	2,220	70	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,020	0	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	2,820	52	Q234, incl. tax
Rebar cost - Blast furnace	3,073	52	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	907	8	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,148	52	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	1,132	-72	based on Shanghai prices, incl. tax

Note: 1 Costs in the table are calculated based on today's market prices and factor out 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 EXPORT PRICES

#### China Export Prices USD/tonne

Product	Specification	Export tax (+)/Vate rebate (-)	Latest transaction prices		Change
			6/8/2018	6/1/2018	
Rebar	BS4449 460B 12-25mm, + chrome	-13%	620	620	0
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	565	565	0
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	600	600	0
Cold-rolled coil	SPCC 1.0mm	-13%	635	635	0
Medium & Heavy plate	A-level Ship plate 12-25mm	0%	620	620	0
Galvanised	ST02Z/SGCC 1.0mm	-13%	700	700	0

Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market = FOB \* exchange rate \* 1.16 / (1.16 - 0.13); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in China's spot market = FOB \* exchange rate \* 1.16 / (1.16 - 0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB \* exchange rate

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### IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

Iron Ore Index Specifications (Port)				Iron Ore Index Compilation Rationale and Data Exclusions
	65% Fe Fines	62% Fe Fines	58% Fe Fines	
Fe %	65.00	62.00	58.00	
Alumina %	1.40	2.25	2.25	
Silica%	1.50	4.00	5.50	
Phosphorus %	0.06	0.09	0.05	
Sulphur %	0.01	0.02	0.02	
Moisture %	8.00	8.00	9.00	
Sizing	Granular size below 10mm for at least 90% of cargo; maximum of 40% below 150 micron			
Pricing Point	Qingdao Port			
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks			
Payment Terms	L/C at sight			

MMi iron ore port stock 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:

Data Exclusions\*

Port Index: 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.

### IRON ORE PORT INDEX NORMALISATION DIFFERENTIALS

Product Differentials (RMB/wet tonne)				Differentials to Qingdao Port (RMB/wet tonne)		
	Applicable range	Value	Change	Port	Value	Change
1% Fe	High Grade Fe 60 - 63%	8.00	0.00	Bayuquan	-10.00	0.00
	High Grade Fe 63 - 64%	32.00	0.00	Beilun	5.00	0.00
	High Grade Fe 64 - 65%	65.00	0.00	Caofeidian	-5.00	0.00
	High Grade Fe 65 - 65.5%	65.00	0.00	Dalian	0.00	0.00
	Low Grade Fe	6.00	0.00	Fangcheng	0.00	0.00
1% Alumina	High Fe Grade Al <2.25%	14.00	0.00	Jiangyin	-30.00	0.00
	High Fe Grade Al 2.25-4%	15.50	0.00	Jingtang	-5.00	0.00
	Low Fe Grade	14.50	0.00	Lanshan	0.00	0.00
1% Silica	High Fe Grade Si <4%	0.00	0.00	Lanqiao	0.00	0.00
	High Fe Grade Si <4 - 6.5%	8.50	0.00	Lianyungang	0.00	0.00
	High Fe Grade Si <6.5 - 9%	23.00	0.00	Majishan	0.00	0.00
	Low Fe Grade	22.00	0.00	Nantong	-30.00	0.00
0.01% Phosphorus	High Fe Grade 0.08%<P<0.115%	0.00	0.00	Qingdao	0.00	0.00
	High Fe grade 0.115%<P<0.15%	12.50	0.00	Rizhao	0.00	0.00
	Low Fe Grade 0.08 < P < 0.15%	0.00	0.00	Tianjin	-20.00	0.00

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