

Daily Iron Ore Index Report

July 02, 2018

IRON ORE PORT STOCK INDEX (IOPI)

July 02 2018		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% 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	472	0	0.0%	472	477	443	559	62.89	0.01	0.0%	62.89	65.87	61.36	77.89
IOPI58	58% Fe Fines	325	-16	-4.7%	325	327	304	376	42.07	-2.26	-5.1%	42.07	43.79	40.67	50.97
IOPI65	65% Fe Fines	617	-5	-0.8%	617	590	541	690	83.42	-0.70	-0.8%	83.42	82.40	75.83	97.10

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending June 29, 2018				RMB/tonne (excluding tax)				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	597	-0.7%	579	682	91.07	-2.1%	88.32	104.04
Hebei	Qian'an	65% Fe Concentrate	Dry	655	1.6%	630	710	99.92	0.05%	96.10	108.31
Liaoning	Anshan	65% Fe Concentrate	Wet	495	0.0%	445	550	75.51	-0.2%	67.88	83.90
Shandong	Zibo	65% Fe Concentrate	Dry	660	-2.2%	620	690	100.68	-3.7%	94.58	105.26
Week Ending June 29, 2018				This week	Change %	Low ⁴	High ⁴				
China Mines Concentrate Composite Index RMB/WT				553.65	-0.3%	514.23	628.33				

¹ Exchange rate applied: RMB/USD = 6.6657 ² Since March 1
³ Weekly exchange rate applied: RMB/USD 6.5554 ⁴ Last 12 months

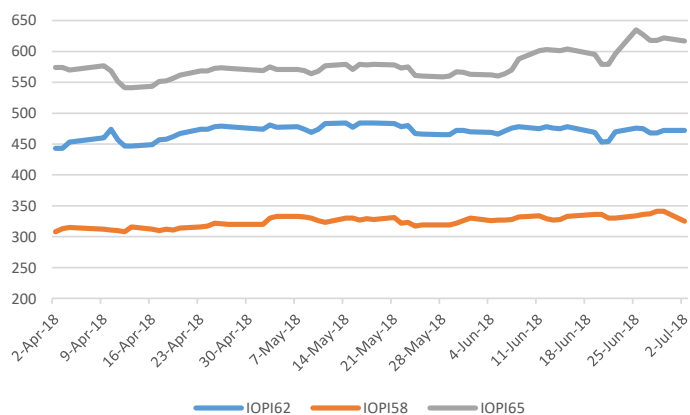
MARKET COMMENTARY

Traders tried to maintain their offers for high-grade ore today despite the fall in iron ore futures prices on the Dalian Commodity Exchange. One trader in east China said he was unwilling to lower his offer prices substantially due to relatively high costs. Mills were rather cautious, preferring to focus their efforts on procuring lump which has been trading well of late.

PLATFORM TRADES AND TENDERS

61% Fe Fines traded at \$62.38 USD/tonne for 100,000t 17—26 July LAYCAN
61% Fe Fines traded at \$63.45 USD/tonne for 100,000t 19—28 July LAYCAN
61% Fe Fines traded at \$62.43USD/tonne for 100,000t 18—27 July LAYCAN

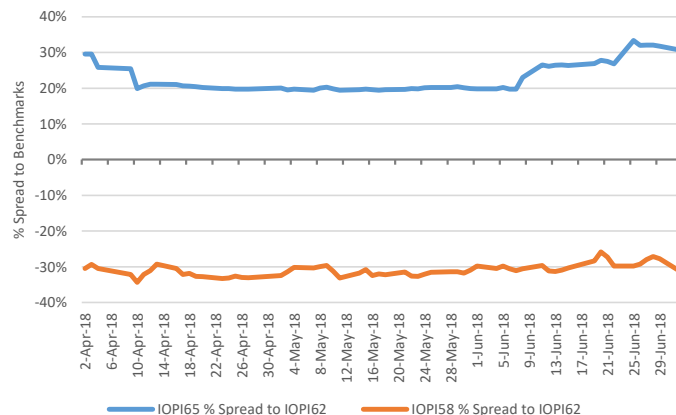
IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)



IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT

July 02 2018	PORT STOCK INDEX (RMB/WT)	
Fe Content	Spread to IOPI62	% Spread to IOPI62
58% Fe Fines	-147	-31.14%
65% Fe Fines	145	30.72%

IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT



IRON ORE FUTURES CONTRACTS

Closing Date	DCE			SGX		
	02 July 3pm close			02 July 6pm		
Contract	I1809	Change	Change %	July'18	Change	Change %
Closing Price	463.0	-11.0	-2.32%	64.33	-0.51	-0.79%
Vol traded ('000 lots)	1,783.2	3.1	0.18%	9.14	5.39	143.78%
Open positions ('000 lots)	1,327.5	-54.3	-3.93%	91.11	-0.92	-0.99%
Day Low	460.5	-9.5	-2.02%	63.99	-0.45	-0.70%
Day High	466.5	-8.0	-1.69%	64.62	-0.38	-0.58%

IRON ORE PORT INVENTORIES

Week Ending June 29, 2018 (million tonnes)				
Province	This week	Change %	Low ⁴	High ⁴
Jingtang	17.33	-3.02%	14.11	19.00
Qingdao	18.50	-0.80%	15.60	19.97
Caofeidian	20.5	1.43%	16.62	25.30
Tianjin	8.7	0.58%	7.96	11.00
Rizhao	18.97	0.74%	13.10	19.00
Total (35 Ports)	143.06	0.62%	123.49	150.04

FREIGHT RATES

June 29, 2018						
FREIGHT RATES - DRY BULK US\$/wet tonne						
Route	Designation	Change	Change %	Low ⁴	High ⁴	
W. Australia - Qingdao	C5	7.16	0.12	1.68%	4.058	9.98
Tubarao - Qingdao	C3	20.76	1.09	5.55%	9.854	21.273

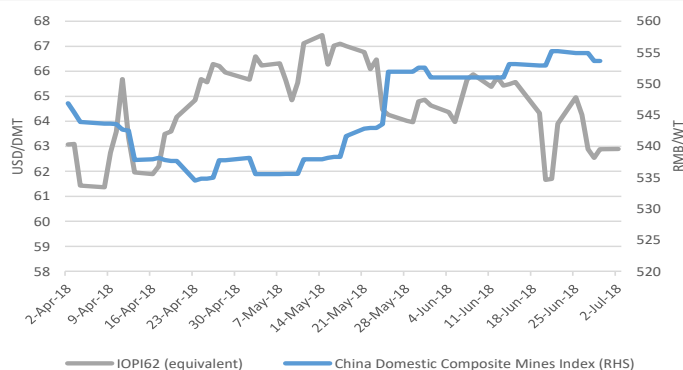
BLOOMBERG

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)



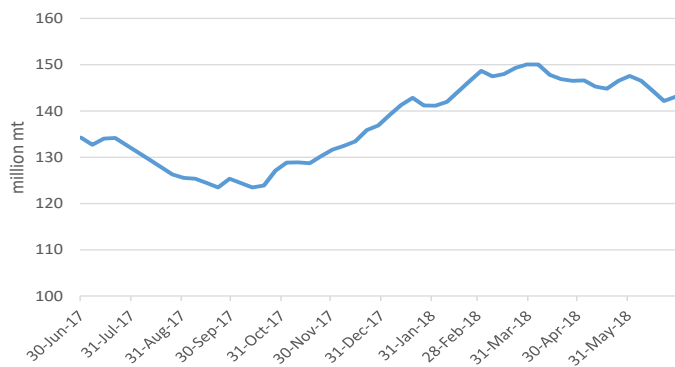
IRON ORE BRAND SPOT PRICE ASSESSMENTS

July 02 2018	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI62
Roy Hill	446	0	-26
PB Fines	454	2	-18
Newman Fines	486	-1	14
MAC Fines	459	0	-13
Jimblebar Blended Fines	421	2	-51
Carajas Fines	638	4	166
Brazilian SSF	517	0	45
Brazilian Blend Fines	518	0	46

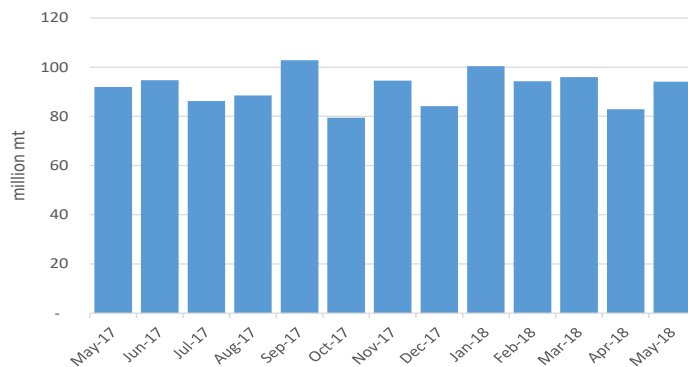
AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

July 02 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	61.71%	2.35%	3.59%	0.100%	9.21%
Newman Fines	62.53%	2.37%	4.14%	0.070%	7.46%
MAC Fines	61.21%	2.12%	4.53%	0.080%	6.99%
Jimblebar Blended Fines	61.32%	2.88%	4.27%	0.120%	6.90%
Carajas Fines	65.44%	1.17%	1.64%	0.070%	8.06%
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
Brazilian Blend Fines	62.90%	1.45%	5.00%	0.060%	8.07%

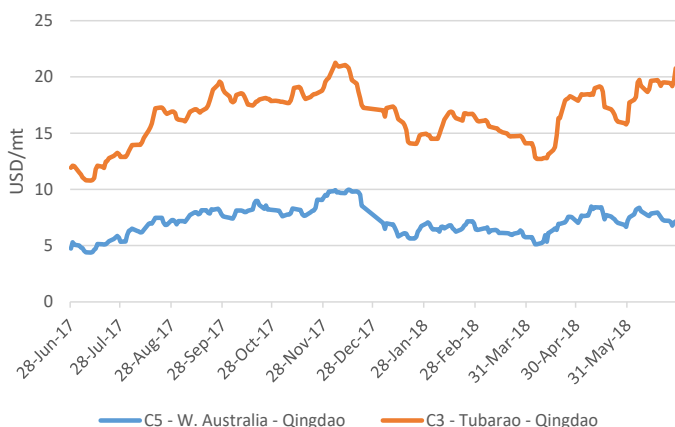
TOTAL IRON ORE INVENTORIES AT CHINA PORTS



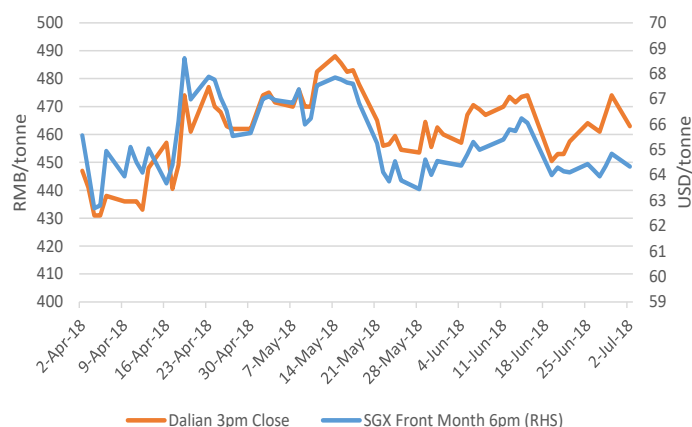
TOTAL CHINA IRON ORE IMPORT VOLUMES



DRY BULK FREIGHT RATES



FUTURE TRADING—FRONT MONTH CLOSING PRICE



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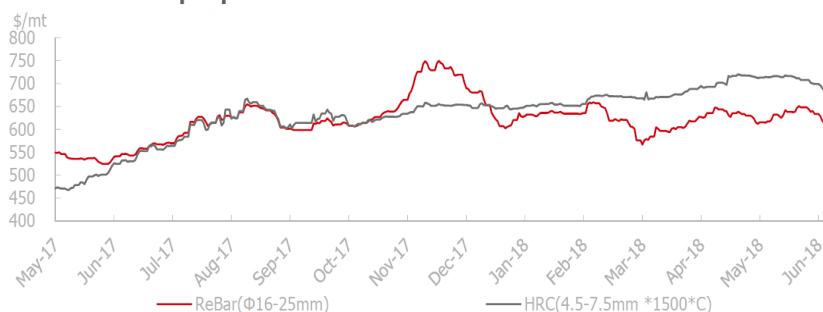
STEEL SPOT MARKET—CHINA

Steel Spot Market RMB/tonne

Product	6/29/2018	Change	Change %	6/22/2018	Change	Change %
ReBar HRB400 φ18mm	4,063.0	-44.0	-1.07%	4,107.0	-61	-1.46%
Wirerod Q300 φ6.5mm	4,368.0	-95.0	-2.13%	4,463.0	-43	-0.95%
HRC Q235/SS400 5.5mm*1500*C	4,264.0	-25.0	-0.58%	4,289.0	-35	-0.81%
CRC SPCC/ST12 1.0mm*1250*2500	4,696.0	-24.0	-0.51%	4,720.0	-13	-0.27%
Medium & Heavy Plate Q235B 20mm	4,376.0	-154.0	-3.40%	4,530.0	-20	-0.44%
GI ST02Z 1.0mm*1000*C	5,335.0	-20.0	-0.37%	5,355.0	-25	-0.46%
Billet Q235 150*150mm	3,600.0	-50.0	-1.37%	3,650.0	-70	-1.88%

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

Rebar and HRC spot prices



Source: SMM

CHINESE STEEL INVENTORIES

Steel Inventories³ (unit: 1000 tonnes)

Product	6/29/2018	6/22/2018	Change	Change %
Rebar	4,835	4,774	61	1.28%
Wirerod	1,326	1,305	21	1.61%
Hot-rolled Coil	2,086	2,044	42	2.05%
Medium & Thick Plate	862	859	3	0.35%
Cold-rolled Coil	1,182	1,181	1	0.08%
Total	10,291	10,163	128	1.26%

³ 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
MMi (Fe 62%), USD/mt exluding tax, latest price	62.88	-1.03	MMi index for 22nd June
Coke	2,320	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,020	-20	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	2,867	6	Q234, incl. tax
Rebar cost - Blast furnace	3,130	11	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	790	-111	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,195	6	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	1,065	-16	based on Shanghai prices, incl. tax

Note: 1 Costs in the table are calculated based on today's market prices and factor 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
			6/29/2018	6/22/2018	
Rebar	BS4449 460B 12-25mm, + chrome	-13%	620	620	0
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	570	565	5
Hot-rolled coil	SS400/Q235 4.0-10mm	-9%	605	605	0
Cold-rolled coil	SPCC 1.0mm	-13%	640	640	0
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	635	630	5
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

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	<p>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.</p> <p>For more details on MMI's iron ore methodology please download the guide published on our website at:</p> <p><u>Data Exclusions*</u> 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</p>	
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				

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%	27.00	-0.50	Bayuquan	-10.00	0.00
	High Grade Fe 63 - 64%	35.00	4.50	Beilun	5.00	0.00
	High Grade Fe 64 - 65%	52.00	0.00	Caofeidian	-5.00	0.00
	High Grade Fe 65 - 65.5%	52.00	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%	27.00	0.00	Jiangyin	-30.00	0.00
	High Fe Grade Al 2.25-4%	27.00	5.00	Jingtang	-5.00	0.00
	Low Fe Grade	15.00	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%	0.00	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	24.00	0.00	Nantong	-30.00	0.00
0.01% Phosphorus	High Fe Grade 0.08%<P<0.115%	1.50	-1.50	Qingdao	0.00	0.00
	High Fe grade 0.115%<P<0.15%	1.50	-1.50	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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