

Daily Iron Ore Index Report

June 5, 2018

IRON ORE PORT STOCK INDEX (IOPI)

June 5, 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	466	-3	-0.6%	468	479	443	559	63.97	-0.39	-0.6%	64.32	66.31	61.36	77.89
IOPI58	58% Fe Fines	327	1	0.3%	328	325	304	376	43.67	0.18	0.4%	43.77	43.70	40.67	50.97
IOPI65	65% Fe Fines	560	-2	-0.4%	562	587	541	690	77.70	-0.23	-0.3%	77.96	82.25	75.83	97.10

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending June 1, 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	592	-3.0%	579	682	92.38	-3.3%	90.35	106.43
Hebei	Qian'an	65% Fe Concentrate	Dry	645	0.8%	630	710	100.65	0.4%	98.31	110.80
Liaoning	Anshan	65% Fe Concentrate	Wet	485	0.0%	445	550	75.68	-0.4%	69.44	85.83
Shandong	Zibo	65% Fe Concentrate	Dry	665	0.0%	620	690	103.77	-0.4%	96.75	107.67
Week Ending June 1, 2018				This week	Change %	Low ⁴	High ⁴				
China Mines Concentrate Composite Index RMB/WT				551.00	-0.2%	534.50	612.27				

¹ Exchange rate applied: RMB/USD = 6.4157

³ Weekly exchange rate applied: RMB/USD 6.4082

² Since March 1

⁴ Last 12 months

MARKET COMMENTARY

High-grade Australian iron ore and Brazilian low-alumina iron ore were the preferred grades traded on the physical iron ore port stock market, with quotes trying to rise higher, in line with the DCE market. Nonetheless, concluded trades stood lower, reflected in today's 62% port stock index print. Eastern Chinese mills were subdued compared to those in north China due to ongoing production cuts. SMM also learned that mills in Xuzhou, which have been shut since April, are expected to restart in late June.

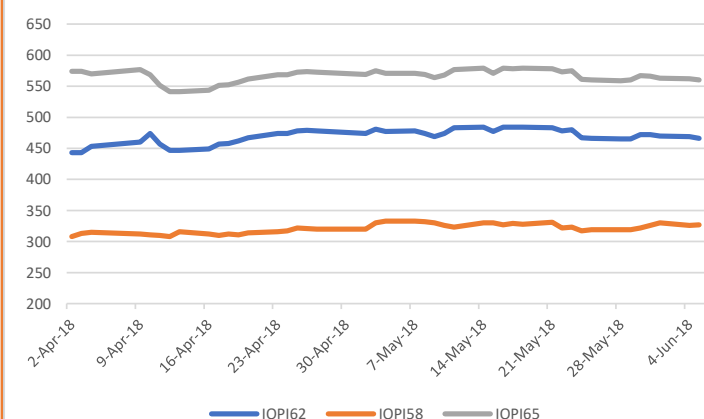
PLATFORM TRADES AND TENDERS

61% Fines trades at 63.01 USD/dry tonne for 100,000t for 20-29 June LAYCAN
61% Fines trades at 63.26 USD/dry tonne for 170,000t for 24 June—3 July LAYCAN

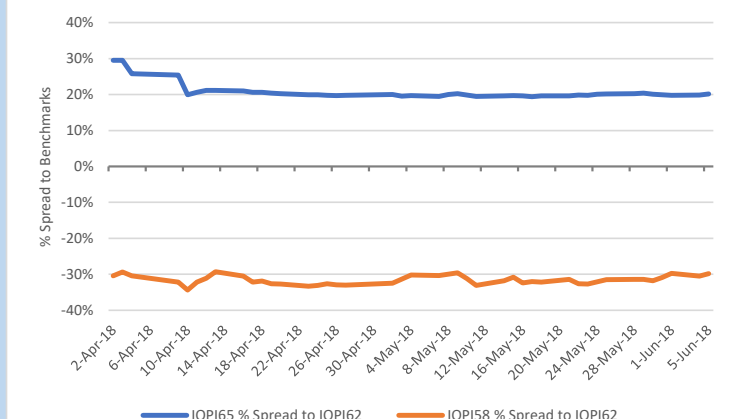
IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT

June 5, 2018		PORT STOCK INDEX (RMB/WT)	
Fe Content		Spread to IOPI62	% Spread to IOPI62
58% Fe Fines		-139	-29.83%
65% Fe Fines		94	20.17%

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



IRON ORE HIGH/LOW GRADE PREMIUM/DISCOUNT



IRON ORE FUTURES CONTRACTS

Closing Date	DCE			SGX		
	05 June 3pm close			05 June 6pm		
Contract	I1809	Change	Change %	June'18	Change	Change %
Closing Price	467.0	7.0	1.52%	64.81	0.44	0.68%
Vol traded ('000 lots)	1,952.2	-304.8	-13.51%	5.77	-1.72	-22.94%
Open positions ('000 lots)	1,748.8	4.7	0.27%	109.92	-2.36	-2.10%
Day Low	458.0	0.0	0.00%	64.10	0.07	0.11%
Day High	467.0	-1.5	-0.32%	64.91	0.01	0.02%

IRON ORE PORT INVENTORIES

Week Ending June 1, 2018 (million tonnes)				
Province	This week	Change %	Low ⁴	High ⁴
Jingtang	17.74	2.25%	17.10	19.00
Qingdao	19.20	1.05%	16.80	19.97
Caofeidian	20.27	-2.74%	20.27	25.30
Tianjin	9.95	-0.70%	9.20	11.00
Rizhao	18.71	-0.85%	16.88	19.00
Total (35 Ports)	147.56	0.72%	144.80	150.04

FREIGHT RATES

June 4, 2018		FREIGHT RATES - DRY BULK US\$/wet tonne				
Route	Designation	Change	Change %	Low ⁴	High ⁴	
W. Australia - Qingdao	C5	7.78	0.26	3.45%	4.383	9.98
Tubarao - Qingdao	C3	17.97	0.24	1.33%	10.796	21.273

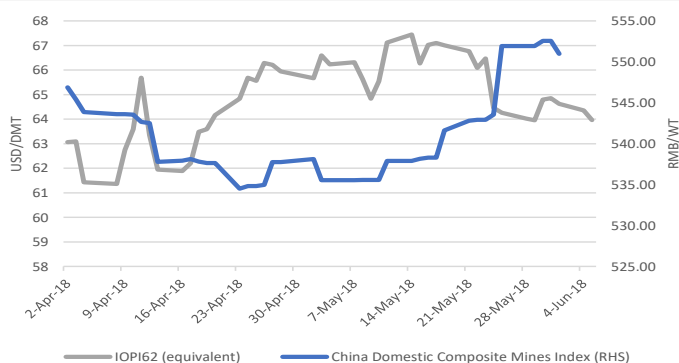
BLOOMBERG

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 5, 2018	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI62
Roy Hill	454	-3	-12
PB Fines	464	-3	-2
Newman Fines	475	-3	9
MAC Fines	457	-3	-9
Jimblebar Blended Fines	440	-3	-26
Carajas Fines	588	-3	122
Brazilian SSF	472	-3	6
Brazilian Blend Fines	470	-3	4

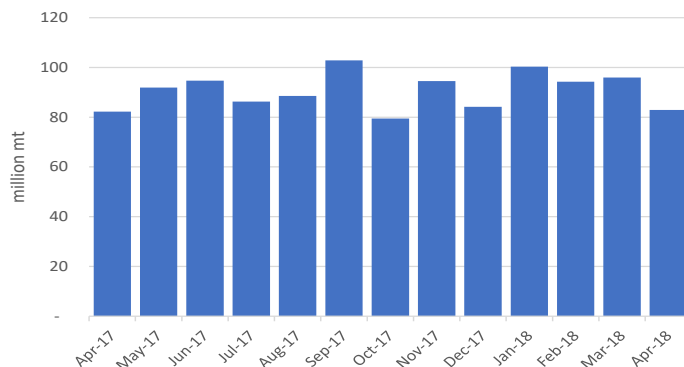
AVERAGE IRON ORE BRAND SPECIFICATIONS FOR PORT STOCK SALES

June 5, 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	61.83%	2.22%	3.49%	0.100%	8.21%
Newman Fines	62.82%	2.28%	3.97%	0.055%	7.49%
MAC Fines	61.06%	2.16%	4.56%	0.085%	7.36%
Jimblebar Blended Fines	61.50%	2.76%	4.20%	0.119%	7.25%
Carajas Fines	65.43%	1.33%	1.50%	0.079%	7.80%
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%

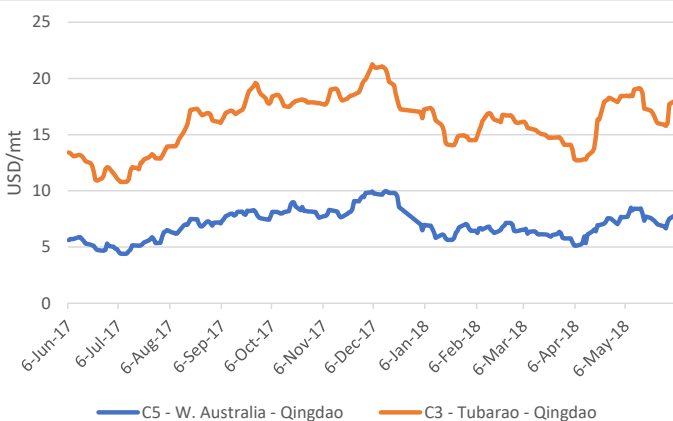
TOTAL IRON ORE INVENTORIES AT CHINA PORTS



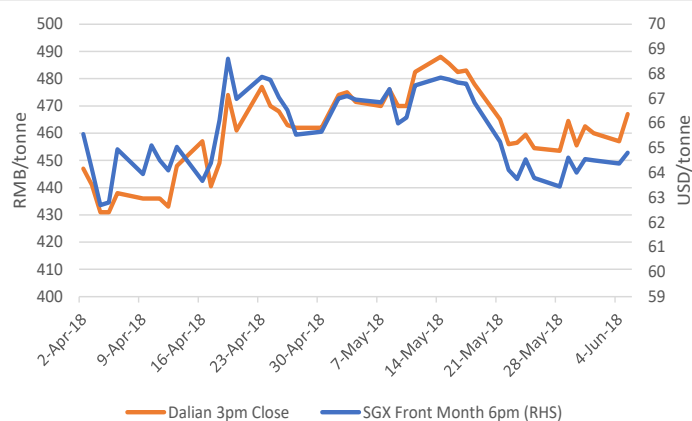
TOTAL CHINA IRON ORE IMPORT VOLUMES



DRY BULK FREIGHT RATES



FUTURE TRADING—FRONT MONTH CLOSING PRICE



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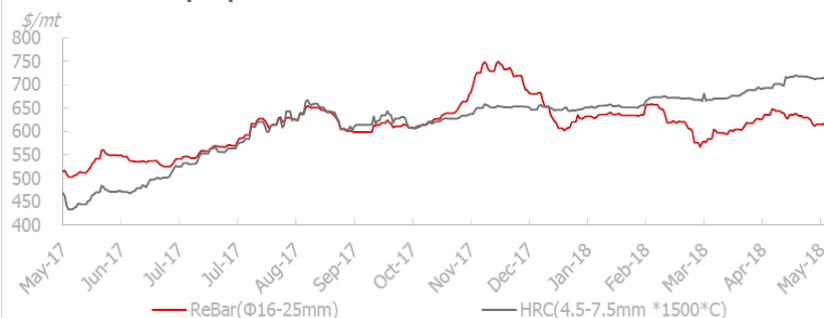
STEEL SPOT MARKET—CHINA

Steel Spot Market RMB/tonne

Product	6/1/2018	Change	Change %	5/25/2018	Change	Change %
ReBar HRB400 ϕ 18mm	4,052.4	120.7	3.07%	3,932	-86	-2.14%
Wirerod Q300 ϕ 6.5mm	4,400.0	176.1	4.17%	4,224	-73	-1.69%
HRC Q235/SS400 5.5mm*1500*C	4,289.8	56.0	1.32%	4,234	-18	-0.41%
CRC SPCC/ST12 1.0mm*1250*2500	4,670.0	60.0	1.30%	4,610	-6	-0.13%
Medium & Heavy Plate Q235B 20mm	4,590.0	37.0	0.81%	4,553	-20	-0.44%
GI ST02Z 1.0mm*1000*C	5,335.0	25.0	0.47%	5,310	-5	-0.09%
Billet Q235 150*150mm	3,670.0	50.0	1.38%	3,620	10	0.28%

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

Rebar and HRC spot prices



CHINESE STEEL INVENTORIES

Steel Inventories³ (unit: 1000 tonnes)

Product	6/1/2018	5/25/2018	Change	Change %
Rebar	5,154	5,505	-351	-6.38%
Wirerod	1,554	1,716	-162	-9.44%
Hot-rolled Coil	1,987	2,046	-59	-2.88%
Medium & Thick Plate	835	823	12	1.46%
Cold-rolled Coil	1,179	1,120	59	5.27%
Total	10,709	11,210	-501	-4.47%

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
Iron ore Port Index FOT Qingdao (inc. 17% VAT), I	466	-18	MMI index for 25th May 2018
Coke	2,050	100	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,090	-50	steel scrap (6mm) in Zhangjiagang, exl. tax
Billet Cost	2,723	22	Q234, incl. tax
Rebar cost - Blast furnace	2,975	23	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	755	-203	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,050	22	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	1,170	-52	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
			6/1/2018	5/25/2018	
Rebar	BS4449 460B 12-25mm, + chrome	-13%	620	620	0
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	565	570	-5
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	600	600	0
Cold-rolled coil	SPCC 1.0mm	-13%	635	630	5
Medium & Heavy plate	A-level Ship plate 12-25mm	0%	620	620	0
Galvanised	ST02Z/SGCC 1.0mm	-13%	700	690	10

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			

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%	35.00	0.00	Caofeidian	-5.00	0.00
	High Grade Fe 65 - 65.5%	55.00	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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