Metals Market Index MMi

MMi Dashboard

Iron Ore Price Indices

Iron Ore Port Stock (FOT Qingdao)
IOPI62 62% Fe Fines RMB/t
879
-16 -1.79%
July 25th, 2019

Iron Ore Port Stock (FOT Qingdao)
IOPI65 65% Fe Fines RMB/t
949
-17 -1.76%
July 25th, 2019

Iron Port Stock (FOT Qingdao)
IOPI58 58% Fe Fines RMB/t
810
-4 -0.49%
July 25th, 2019

Iron Ore Seaborne (CFR Qingdao)
IOSI62 62% Fe Fines USD/dmt
117.50
-1.45 -1.22%
July 25th, 2019

Iron Ore Seaborne (CFR Qingdao)
IOSI65 65% Fe Fines USD/dmt
126.40
-1.40 -1.10%
July 25th, 2019

Iron Ore Port Stock (FOT Qingdao)
IOPLI 62.5% Fe Lump RMB/t
1049
3 0.29%
Week Ending July 19th, 2019

Exchange Traded Contracts

DCE Iron Ore 62% Fines
I1909 (Sept) RMB/t
871.50
11.50 1.34%
July 25th, 2019 (3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines
August'19 USD/dmt
112.76
1.76 1.59%
July 25th, 2019 (6.00 pm Print)

SHFE Rebar
RB1910 (Oct) RMB/t
3940
41.00 1.05%
July 25th, 2019 (3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t
23.73
-2.87 -10.78%
July 24th, 2019

C5, W. Australia - Qingdao USD/t
9.55
-1.16 -10.87%
July 24th, 2019

Steel Price

Steel Rebar (China Domestic) RMB/t
4045
55 1.38%
Week Ending July 19th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35)
million tonnes
107.10
2.70 2.59%
Week Ending July 19th, 2019

Steel Inventory in China
million tonnes
13.84
0.41 3.02%
Week Ending July 19th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t
3896
46 1.19%
Week Ending July 19th, 2019

IRON ORE PORT STOCK INDEX (IOPI)

July 25th, 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	879	-16	-1.8%	912	714	484	928	119.09	-2.02	-1.7%	123.70	96.03	62.54	126.12
IOPI58	58% Fe Fines	810	-4	-0.5%	807	621	347	823	110.64	-0.36	-0.3%	110.24	83.59	43.55	112.44
IOPI65	65% Fe Fines	949	-17	-1.8%	957	789	646	992	128.89	-2.14	-1.6%	130.03	106.59	85.30	135.34

IRON ORE SEABORNE INDEX (IOSI)

July 25th, 2019		CFR Qingdao, USD/dry tonne						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low [3]	High [3]
IOSI62	62% Fe Fines	117.50	-1.45	-1.22%	121.25	95.44	62.95	127.50
IOSI65	65% Fe Fines	126.40	-1.40	-1.10%	130.17	109.02	83.20	137.95

MARKET COMMENTARY

Port iron ore transactions picked up today, as mills accelerated their buy programmes. According to SMM, some mills in East China are relatively bearish on market direction and as such, have no intention to increase their iron ore inventory for this moment. The Tangshan government reaffirmed their production policy requiring the sintering machines and shaft furnace for all mills in Tangshan to shut down and keep their blast furnaces warm but prohibit any production from July 26 to July 28. Mills classified "A" were just required to cut off 20% of their sintering machine and shaft furnace capacity. Deliveries from Caofeidian are still forbidden.

IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending July 19th, 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-oW	Change %	MTD	YTD	Low [3]	High [3]
IOPLI62	62.5% Fe Lump	1049	3	0.3%	1049	900	613	1051	133.41	0.51	0.38%	133.37	115.30	77.55	133.81

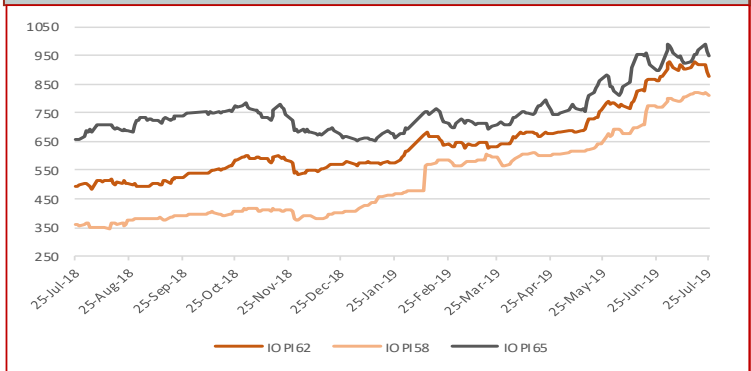
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending July 19th, 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	1019	-1.3%	601	1032	148.28	-1.17%	91.97	150.03
Hebei	Qian'an	65% Fe Concentrate	Dry	950	2.7%	680	950	138.24	2.80%	100.26	138.24
Liaoning	Anshan	65% Fe Concentrate	Wet	705	0.0%	465	745	102.59	0.09%	68.21	102.59
Shandong	Zibo	65% Fe Concentrate	Dry	1040	3.0%	660	1040	151.33	3.07%	99.75	151.33

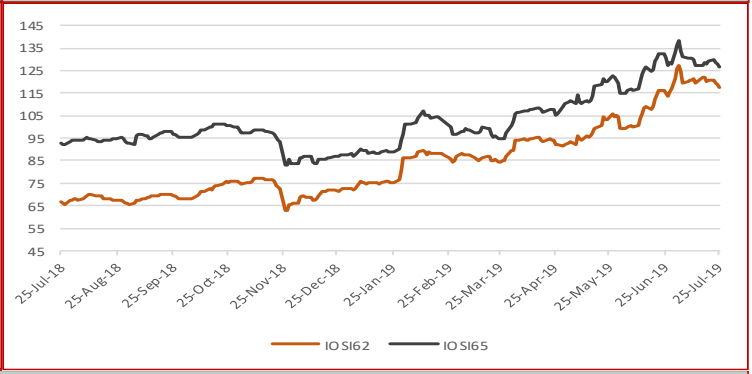
Week Ending July 19th, 2019	This week	Change %	Low [2]	High [2]
China Mines Concentrate Composite Index RMB/WT	850.71	1.9%	552.82	850.71

[1] Exchange rate applied: RMB/USD = 6.8837 [2] Last 12 months [3] Since June 1
[4] Weekly exchange rate applied: RMB/USD 6.8722

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 25th, 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	714	87.09	85.37	98.40	111.42	123.70	123.70	96.03
IOPI58	58% Fe Fines	583	600	637	726	807	807	621	75.22	77.49	86.39	98.60	110.24	110.24	83.59
IOPI65	65% Fe Fines	714	753	812	901	957	957	789	98.08	95.78	110.00	121.97	130.03	130.03	106.59

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

July 25th, 2019		CFR Qingdao, USD/dry tonne						
Index	Fe Content	March	April	May	June	MTD	QTD	YTD
IOSI62	62% Fe Fines	86.18	93.42	98.68	108.57	121.25	121.25	95.44
IOSI65	65% Fe Fines	97.22	106.75	115.53	124.49	130.17	120.17	109.02

FREIGHT RATES

July 24th, 2019		FREIGHT RATES - DRY BULK US$/wet tonne				
Route	Designation		Change	Change %	Low [2]	High [2]
W. Australia - Qingdao	C5	9.55	-1.16	-10.87%	4.39	11.15
Tubarao - Qingdao	C3	23.73	-2.87	-10.78%	11.61	27.52

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

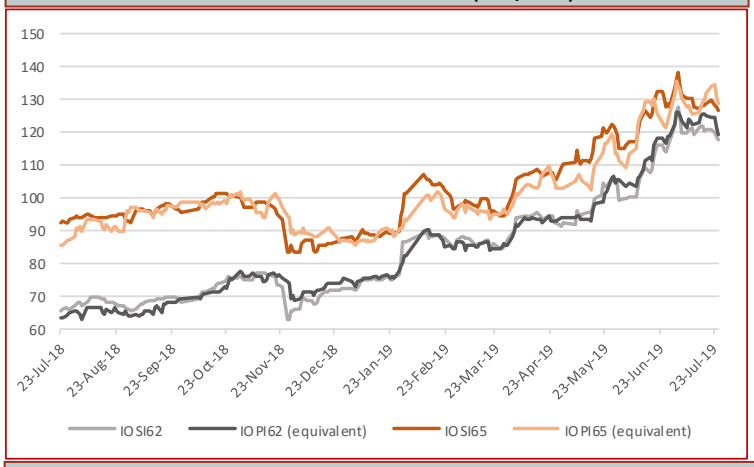
Week Ending July 19th, 2019		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne [1]						
Index	Fe Content	March	April	May	June	MTD	QTD	YTD	March	April	May	June	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	858	872	919	1009	1049	1049	900	99.57	111.03	117.12	128.00	133.37	133.37	115.30

IRON ORE INDEX PREMIUMS/DISCOUNTS

July 25th, 2019		PORT STOCK INDEX (RMB/WT)	
Index	Fe Content	Spread to IOPI62	% Spread to IOPI62
IOPI58	58% Fe Fines	-69	-7.85%
IOPI65	65% Fe Fines	70	7.96%

July 25th, 2019		SEABORNE INDEX (USD/DMT)	
Index	Fe Content	Spread to IOSI62	% Spread to IOSI62
IOSI65	65% Fe Fines	8.90	7.57%

IRON ORE INDEX COMPARISONS (USD/DMT)



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

IRON ORE BRAND SPOT PRICE ASSESMENTS

July 25th, 2019	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI62
Roy Hill	830	-16	-49
SIMEC Fines	763	-17	-116
PB Fines	862	-15	-17
Newman Fines	884	-16	5
MAC Fines	843	-16	-36
Jimblebar Blended Fines	828	-16	-51
Carajas Fines	958	-16	79
Brazilian SSF	791	-16	-88
Brazilian Blend Fines	856	-16	-23
RTX Fines	832	-16	-47
West Pilbara Fines	826	-16	-53

July 25th, 2019	SEABORNE INDEX (USD/DMT)		
	Price	Change	Diff to IOSI62
Roy Hill	114.46	-1.45	-3.04
SIMEC Fines	112.19	-1.45	-5.31
PB Fines	116.66	-1.45	-0.84
Newman Fines	118.75	-1.45	1.25
MAC Fines	112.44	-1.45	-5.06
Jimblebar Blended Fines	104.74	-1.45	-12.76
Carajas Fines	126.30	-1.45	8.80
Brazilian SSF	117.50	-1.45	0.00
Brazilian Blend Fines	118.75	-1.45	1.25
RTX Fines	109.39	-1.45	-8.11
West Pilbara Fines	113.56	-1.45	-3.94

July 25th, 2019	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI58
SSF	750	-5	-60
FMG Blended Fines	813	-4	3
Robe River	746	-4	-64
Western Fines	782	-4	-28
Atlas Fines	765	-4	-45
Yandi	832	-5	22

IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port Stock Index Product Differentials (RMB/wet tonne)

	Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	6.00	0.00
	High Grade Fe 63 - 64%	15.00	0.00
	High Grade Fe 64 - 65%	15.00	0.00
	High Grade Fe 65 - 65.5%	15.00	0.00
	Low Grade Fe	19.00	0.00
1% Alumina	High Fe Grade Al <2.25%	20.00	0.00
	High Fe Grade Al 2.25-4%	8.00	0.00
	Low Fe Grade Al <2.25%	51.00	0.00
	Low Fe Grade Al 2.25-4%	43.00	0.00
1% Silica	High Fe Grade Si <4%	7.00	0.00
	High Fe Grade Si 4-6.5%	52.00	0.00
	Low Fe Grade	6.00	0.00
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	1.00	0.00
	High Fe Grade 0.115%<P<0.15%	5.00	0.00
	Low Fe Grade 0.09<P<0.1%	1.00	0.00

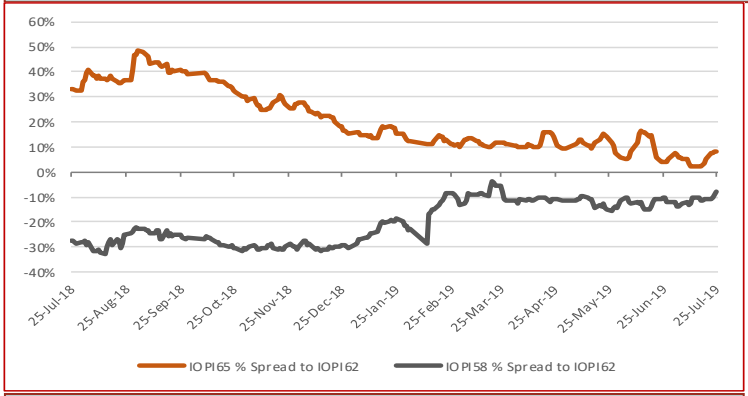
Seaborne Index Product Differentials (USD/dry tonne)

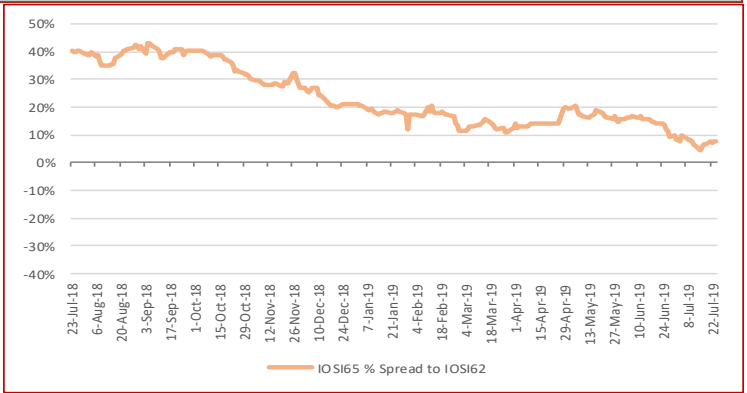
	Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	1.75	0.00
	High Grade Fe 63 - 64%	2.00	0.00
	High Grade Fe 64 - 65%	2.00	0.00
	High Grade Fe 65 - 65.5%	2.00	0.00
1% Alumina	High Fe Grade Al <2.25%	1.50	0.00
	High Fe Grade Al 2.25-4%	1.75	0.00
1% Silica	High Fe Grade Si <4%	0.75	0.00
	High Fe Grade Si 4 - 6.5%	0.75	0.00
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	1.00	0.00
	High Fe Grade 0.115%<P<0.15%	1.00	0.00

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

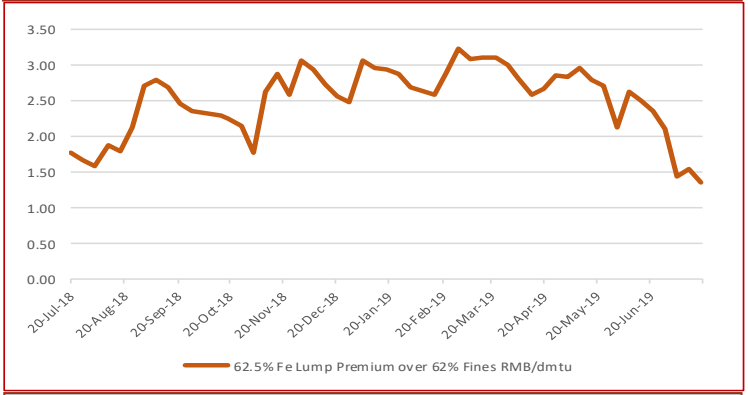
Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-45.00	0.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-20.00	0.00	Lianyungang	-10.00	0.00	Rizhao	0.00	0.00
Caofeidian	-15.00	0.00	Jingtang	-15.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-40.00	0.00	Lanqiao	0.00	0.00	Nantong	-20.00	0.00	Tianjin	-10.00	0.00

IRON ORE INDEX PREMIUMS/DISCOUNTS

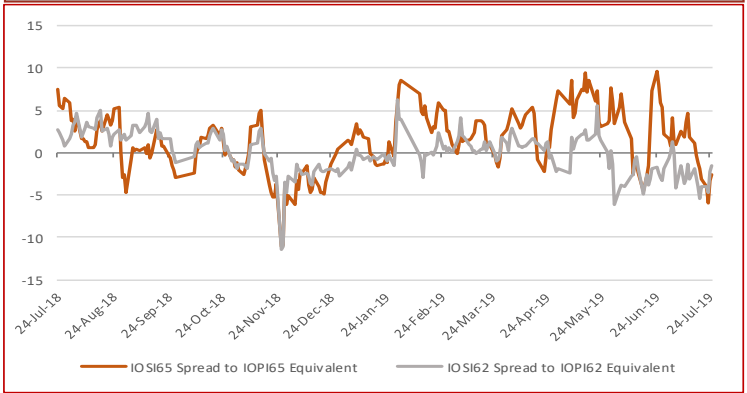




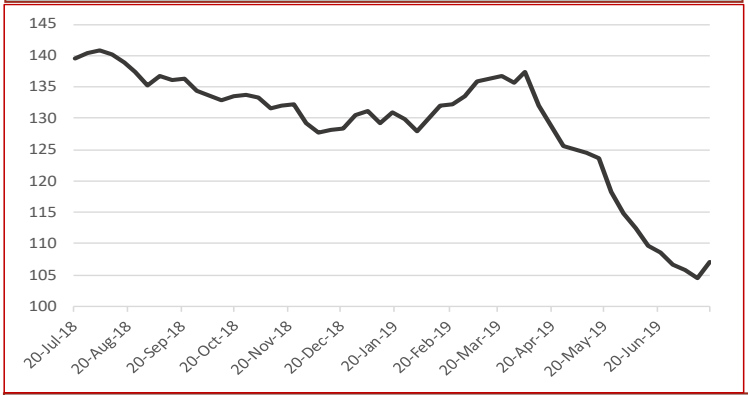
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



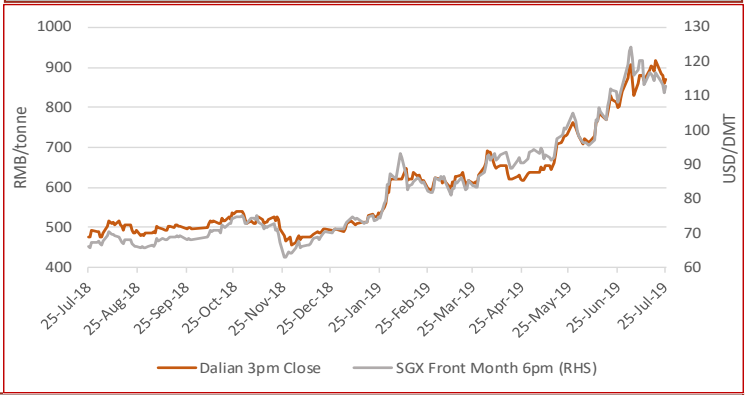
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

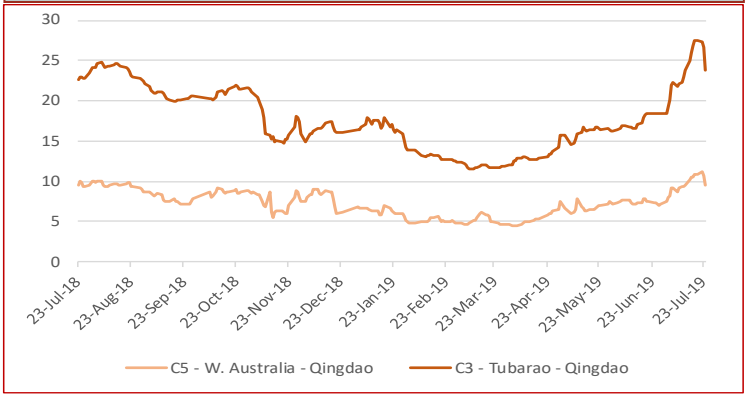
Week Ending July 19th, 2019

Province	This week	Change %	Low [2]	High [2]
Jingtang	11.52	6.67%	10.80	17.20
Qingdao	12.87	-3.74%	12.87	19.01
Caofeidian	14.95	1.91%	14.48	20.10
Tianjin	6.55	0.61%	6.51	10.48
Rizhao	12.38	5.99%	11.65	18.08
Total (35 Ports)	107.10	2.59%	104.40	140.74

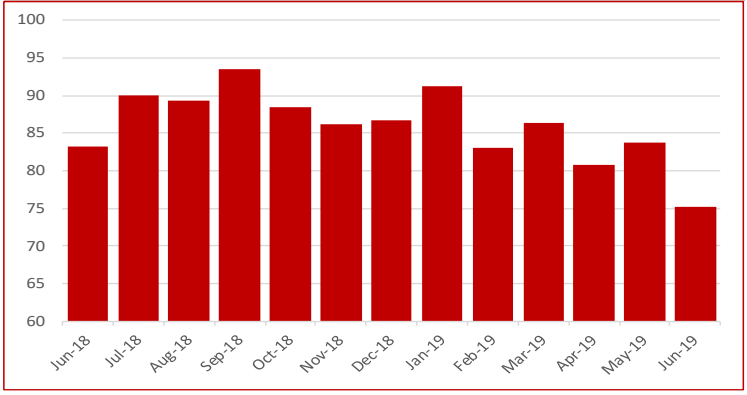
IRON ORE FUTURES CONTRACTS

	DCE (RMB/WMT)			SGX (USD/DMT)		
Closing Date	July 25th 3pm close			July 25th Feb 5.30 pm		
Contract	I1909	Change	Change %	Aug'19	Change	Change %
Closing Price	871.50	11.5	1.34%	112.76	1.76	1.59%
Vol traded ('000 lots)	73.64	-80.9	-52.35%	12.99	-5.58	-30.07%
Open positions ('000 lots)	103.72	-5.2	-4.75%	145.01	1.29	0.90%
Day Low	856.0	14.0	1.66%	110.74	2.29	2.11%
Day High	872.0	-5.5	-0.63%	112.76	0.97	0.87%

DRY BULK FREIGHT RATES (USD/MT)



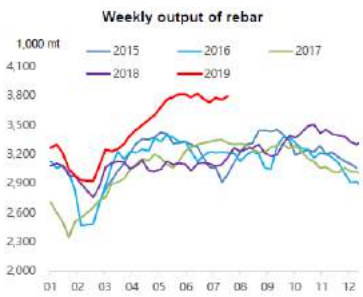
TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)

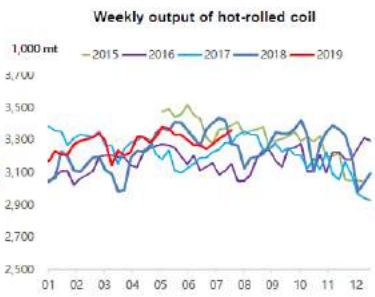


STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne

Product	19/7/2019	Change	Change %
ReBar HRB400 ϕ18mm	4,045.0	55	1.38%
Wirerod Q300 ϕ6.5mm	4,240.0	0	0.00%
HRC Q235/SS400 5.5mm*1500*C	3,896.0	46	1.19%
CRC SPCC/ST12 1.0mm*1250*2500	4,203.0	3	0.07%
Medium & Heavy Plate Q235B 20mm	3,946.0	16	0.41%
GI ST02Z 1.0mm*1000*C	4,560.0	0	0.00%
Colour Coated Plate	6,900.0	0	0.00%





CHINESE STEEL MILL PROFITABILITY

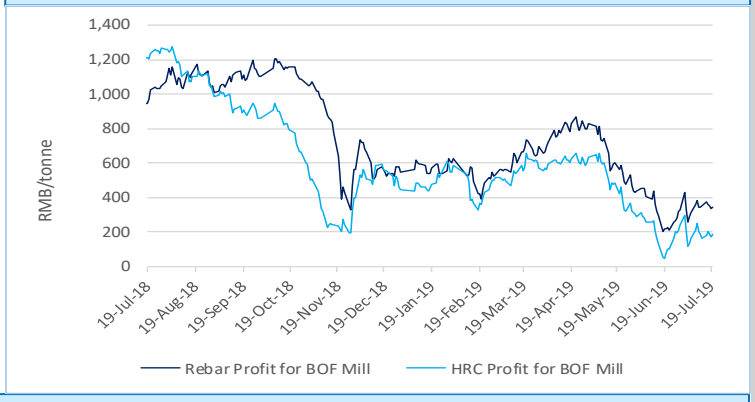
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)

Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt exluding tax	120.25	-0.90	Mmi CFR Equivalent index for 1st Feb
Coke	1,910	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,370	40	steel scrap (6mm) in Zhangjiagang, exl. tax
Billet Cost	3,376	-5	Q234, incl. tax
Rebar cost - Blast furnace	3,627	-4	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	343	-6	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,692	-5	based on actual weight, incl. tax
Hot-rolled coil proft - Blast furnace	188	25	based on Shanghai prices, incl. tax

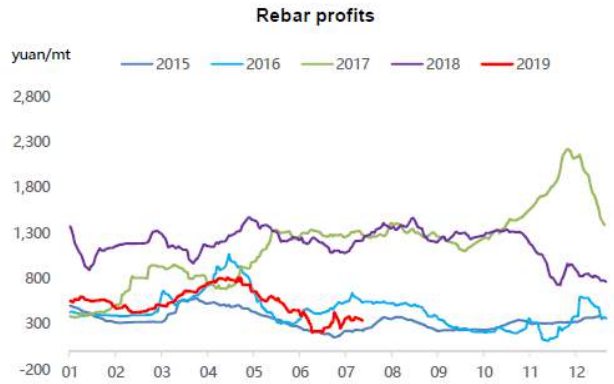
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

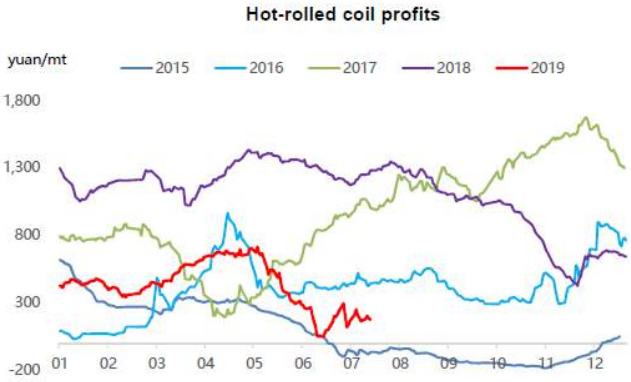
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

CHINESE STEEL MILL PROFITABILITY

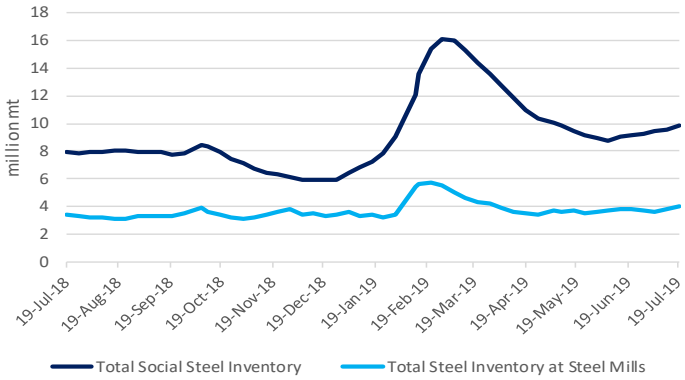


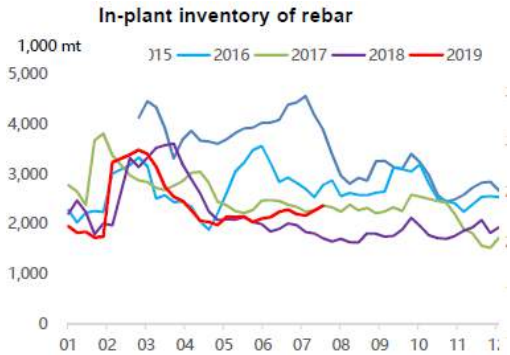
CHINESE STEEL MILL PROFITABILITY





CHINESE STEEL INVENTORIES





IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

Iron Ore Index Specifications (Port and Seaborne)

	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump
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

Iron Ore Index Compilation Rationale and Data Exclusions

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

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

July 25th, 2019	Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture
Roy Hill	61.16%	2.25%	4.61%	0.052%	9.35%
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%
PB Fines	61.49%	2.34%	3.86%	0.100%	9.39%
Newman Fines	62.57%	2.26%	3.96%	0.083%	7.82%
MAC Fines	60.87%	2.24%	4.65%	0.081%	7.57%
Jimblebar Blended Fines	60.89%	2.98%	4.42%	0.113%	7.34%
Carajas Fines	65.54%	1.23%	1.43%	0.068%	8.31%
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
Brazilian Blend Fines	63.00%	1.40%	4.80%	0.076%	8.44%
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%

July 25th, 2019	Specifications applied for 58% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture
SSF	56.71%	3.09%	6.32%	0.059%	8.36%
FMG Blended Fines	58.21%	2.60%	5.48%	0.063%	7.40%
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	57.36%	1.51%	6.28%	0.041%	8.84%

SEABORNE BRANDS

	Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.70%	2.30%	4.90%	0.055%	8.00%
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%
PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%
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 Blend Fines	62.50%	1.50%	5.00%	0.070%	7.00%
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%

BLOOMBERG TICKERS

PORT STOCK INDICES

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

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