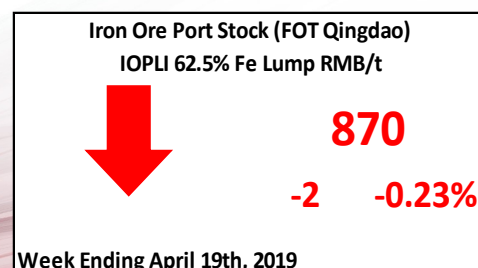
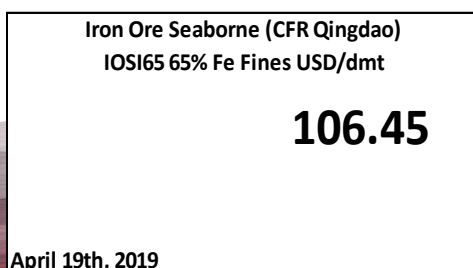
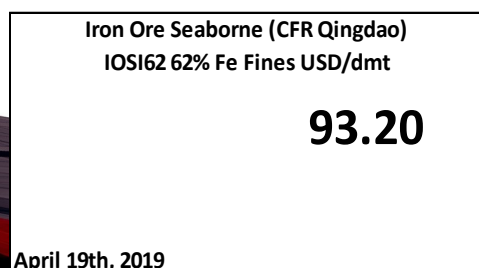
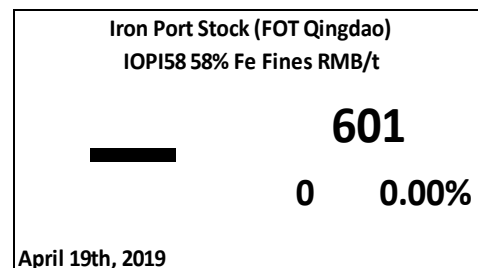
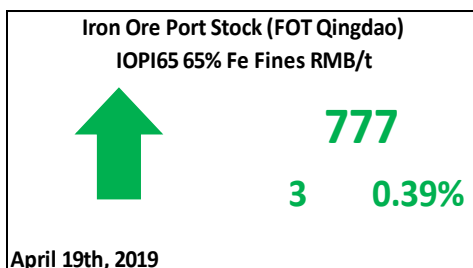
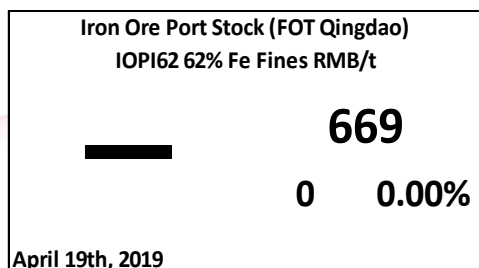


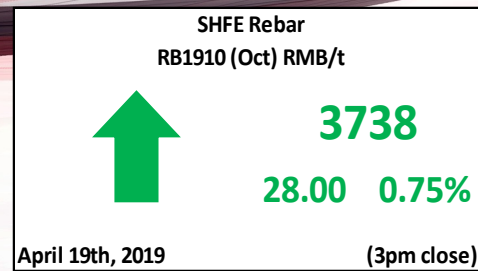
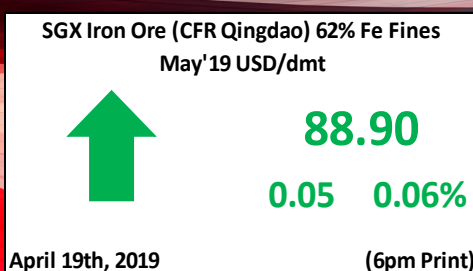
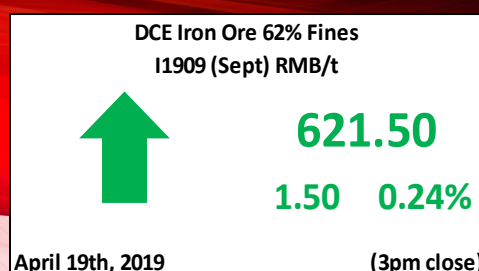


MMi Dashboard

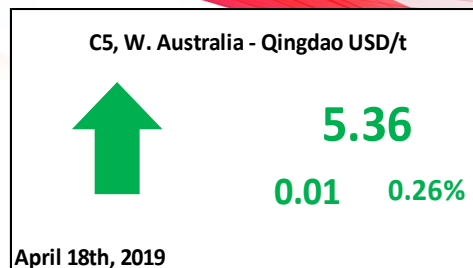
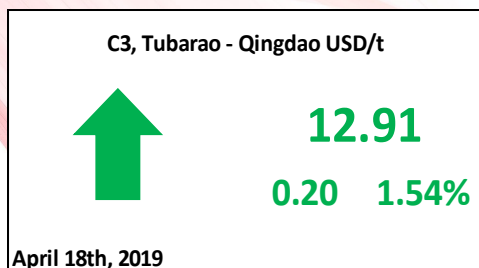
Iron Ore Price Indices



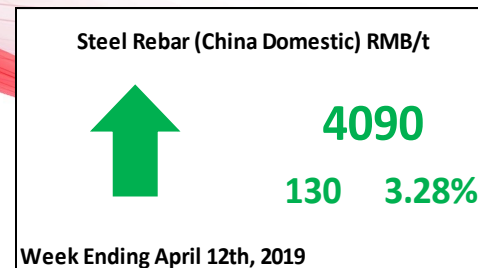
Exchange Traded Contracts



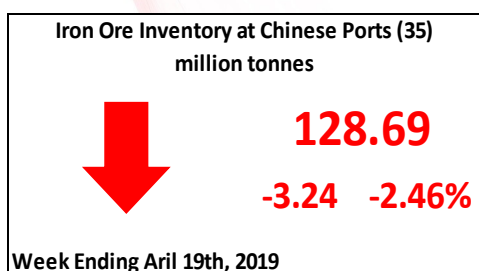
Freight Rates



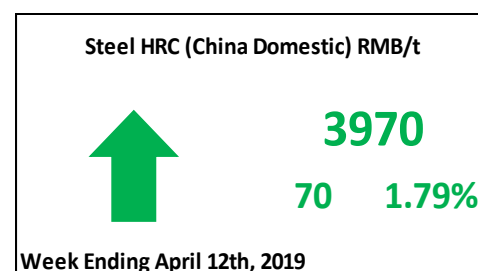
Steel Price



Inventory Levels



Steel Price



IRON ORE PORT STOCK INDEX (IOPI)

April 19th, 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	669	0	0.0%	672	631	453	683	91.97	-0.18	-0.2%	92.34	84.27	61.66	93.76
IOPI58	58% Fe Fines	601	0	0.0%	599	542	314	610	82.21	-0.16	-0.2%	81.80	71.90	41.71	83.42
IOPI65	65% Fe Fines	777	3	0.4%	748	711	567	784	107.46	0.22	0.2%	103.20	95.52	77.7	107.46

IRON ORE SEABORNE INDEX (IOSI)

MARKET COMMENTARY

April 19th, 2019		CFR Qingdao, USD/dry tonne							As of April 19, iron ore stocks across 35 Chinese ports shrank 3.24 million mt from a week ago and 18.19 million mt from a year ago, and stood at 128.69 million mt, SMM statistics showed lower arrivals due to the tropical cyclone and high deliveries from ports accounting for the decline. Daily average deliveries from ports decreased 104,000 mt from the prior week to 2.54 million mt last week. Demand from steel mills remain strong. Today's transactions picked though prices are relatively stable. Handan city announced an orange alert for heavy pollution, to last from April 20 to April 25, sintering capacity is heard to be cut by 50%. Tangshan city announced the implementation of emission reduction measures on sintering machines to last from April 19 to April 20, but as mills have sinter inventory in plants, it may have little impact on demand, SMM will follow up.							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ³	High ³	Price	Change	Change %	MTD	YTD	Low ³	High ³	
IOSI62	62% Fe Fines	93.20			93.63	84.90	62.95	95.25								
IOSI65	65% Fe Fines	106.45			106.34	98.06	83.20	108.50								

IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending April 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-o-W	Change %	MTD	YTD	Low ³	High ³
IOPLI62	62.5% Fe Lump	870	-2	-0.2%	867	836	565	872	112.78	0.03	0.03%	112.32	107.75	76.63	112.78

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

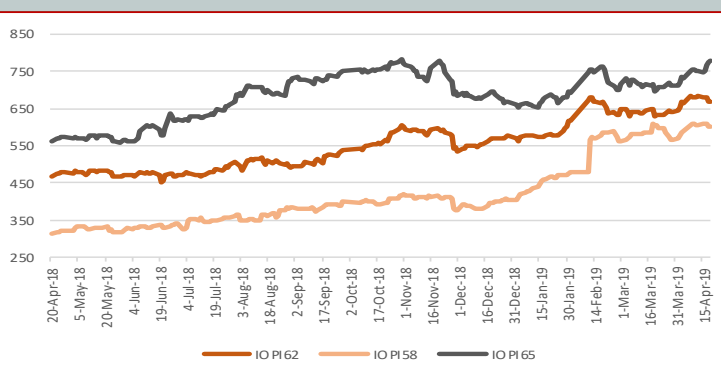
Week Ending April 12th, 2019				RMB/tonne (excluding tax) ⁴				USD/tonne (excluding tax) ⁴			
Province	Region	Product	Basis	This week	Change %	Low ²	High ²	This week	Change %	Low ²	High ²
Hebei	Hanxing	66% Fe Concentrate	Dry	807	5.5%	579	807	120.18	5.49%	91.97	120.18
Hebei	Qian'an	65% Fe Concentrate	Dry	765	4.1%	630	815	113.92	4.08%	100.26	117.34
Liaoning	Anshan	65% Fe Concentrate	Wet	565	0.0%	445	745	84.14	0.00%	68.21	88.86
Shandong	Zibo	65% Fe Concentrate	Dry	820	4.5%	620	860	122.11	4.46%	99.75	127.11

Week Ending April 12th, 2019

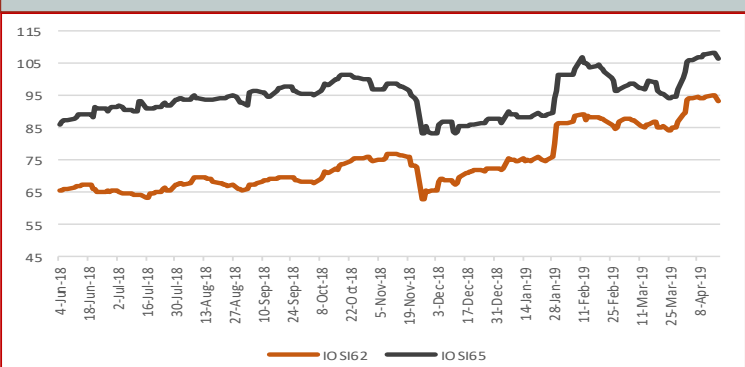
This week	Change %	Low ²	High ²	
China Mines Concentrate Composite Index RMB/WT	640.18	-0.6%	534.50	685.87

¹ Exchange rate applied: RMB/USD = 6.7043 ² Last 12 months ³ Since June 1
⁴ Weekly exchange rate applied: RMB/USD 6.7152

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

April 19th, 2019		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	December	January	February	March	MTD	QTD	YTD	December	January	February	March	MTD	QTD	YTD
IOPI62	62% Fe Fines	559	580	654	639	672	673	631	72.55	76.16	87.09	85.37	92.34	92.37	84.27
IOPI58	58% Fe Fines	392	448	569	583	599	599	542	50.47	57.99	75.22	77.49	81.80	81.77	71.90
IOPI65	65% Fe Fines	681	670	733	714	748	746	711	99.05	88.65	98.08	95.78	103.20	102.87	95.52

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

FREIGHT RATES

April 19th, 2019		CFR Qingdao, USD/dry tonne							April 18th, 2019				FREIGHT RATES - DRY BULK US\$/wet tonne			
Index	Fe Content	December	January	February	March	MTD	QTD	YTD	Route	Designation	Change	Change %	Low ²	High ²		
IOSI62	62% Fe Fines	69.96	76.09	87.39	86.18	93.63	93.63	84.90	W. Australia - Qingdao	C5	5.36	0.01	0.26%	4.39	10.00	
IOSI65	65% Fe Fines	85.95	89.92	102.56	97.22	106.34	106.34	98.06	Tubarao - Qingdao	C3	12.91	0.20	1.54%	11.61	24.76	

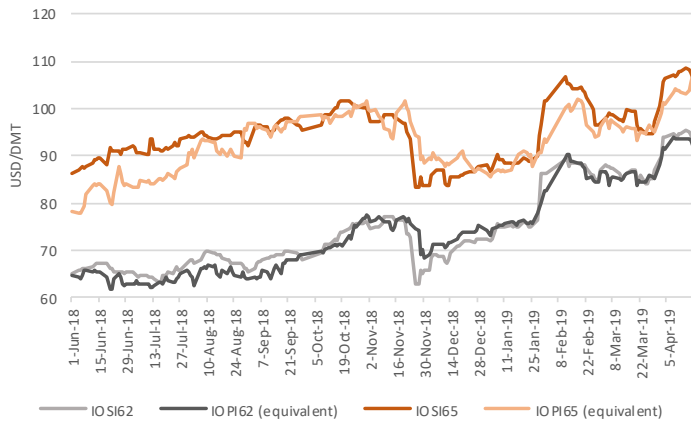
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending April 19th, 2019		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne ¹						
Index	Fe Content	December	January	February	March	MTD	QTD	YTD	December	January	February	March	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	749	782	842	858	867	866	836	96.21	94.22	99.57	111.03	112.32	112.08	107.75

IRON ORE INDEX PREMIUMS/DISCOUNTS

April 19th, 2019		PORT STOCK INDEX (RMB/WT)				April 19th, 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	-68		-10.16%		IOSI65	65% Fe Fines	13.25		14.22%	
IOPI65	65% Fe Fines	108		16.14%							

IRON ORE INDEX COMPARISONS



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



IRON ORE BRAND SPOT PRICE ASSESSMENTS

April 19th, 2019				April 19th, 2019			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	644	0	-25	Roy Hill	88.96		-4.24
SIMEC Fines	616	0	-53	SIMEC Fines	86.51		-6.69
PB Fines	651	-2	-18	PB Fines	92.34		-0.86
Newman Fines	671	-1	2	Newman Fines	95.66		2.46
MAC Fines	646	-1	-23	MAC Fines	87.51		-5.69
Jimblebar Blended Fines	613	-5	-56	Jimblebar Blended Fines	84.51		-8.69
Carajas Fines	786	5	117	Carajas Fines	106.91		13.71
Brazilian SSF	680	7	11	Brazilian SSF	96.01		2.81
Brazilian Blend Fines	683	4	14	Brazilian Blend Fines	96.51		3.31
RTX Fines	620	-5	-49	RTX Fines	85.29		-7.91

April 19th, 2019			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	571	0	-30
FMG Blended Fines	608	0	7
Robe River	571	0	-30
Western Fines	596	0	-5
Atlas Fines	578	0	-23
Yandi	623	0	22

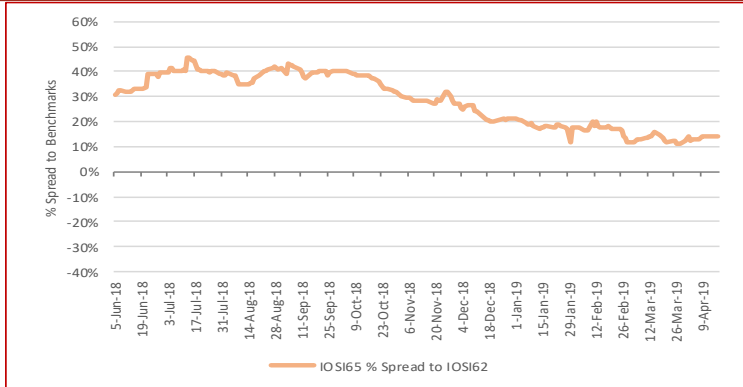
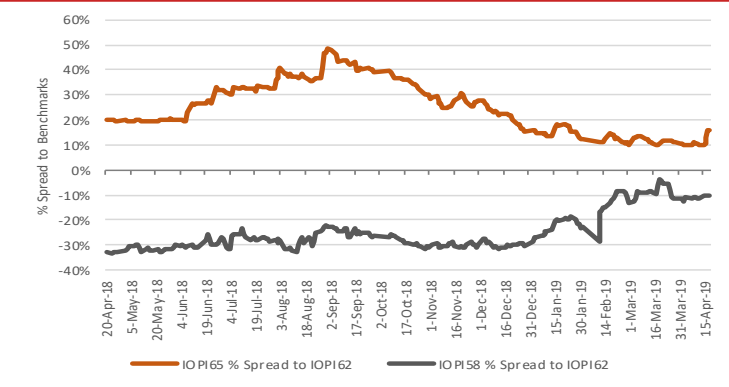
IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	11.00	0.00	1% Fe	High Grade Fe 60 - 63%	3.00	0.00
	High Grade Fe 63 - 64%	24.00	0.00		High Grade Fe 63 - 64%	2.75	0.00
	High Grade Fe 64 - 65%	24.00	0.00		High Grade Fe 64 - 65%	2.75	0.00
	High Grade Fe 65 - 65.5%	24.00	0.00		High Grade Fe 65 - 65.5%	2.75	0.00
1% Alumina	Low Grade Fe	13.00	0.00	1% Alumina	High Fe Grade Al <2.25%	2.75	0.00
	High Fe Grade Al <2.25%	35.00	5.00		High Fe Grade Al 2.25-4%	2.25	0.00
	High Fe Grade Al 2.25-4%	13.00	0.00				
	Low Fe Grade Al <2.25%	43.00	0.00				
1% Silica	Low Fe Grade Al 2.25-4%	15.00	0.00	1% Silica	High Fe Grade Si <4%	1.25	0.00
	High Fe Grade Si <4%	8.00	0.00		High Fe Grade Si 4 - 6.5%	0.25	0.00
0.01% Phosphorus	High Fe Grade Si 4-6.5%	19.00	0.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.75	0.00
	Low Fe Grade	2.00	0.00		High Fe Grade 0.115%<P<0.15%	0.50	0.00
	High Fe Grade 0.09%<P<0.115%	6.00	2.00				
	High Fe Grade 0.115%<P<0.15%	3.00	0.00				
	Low Fe Grade 0.09%<P<0.1%	0.00	0.00				

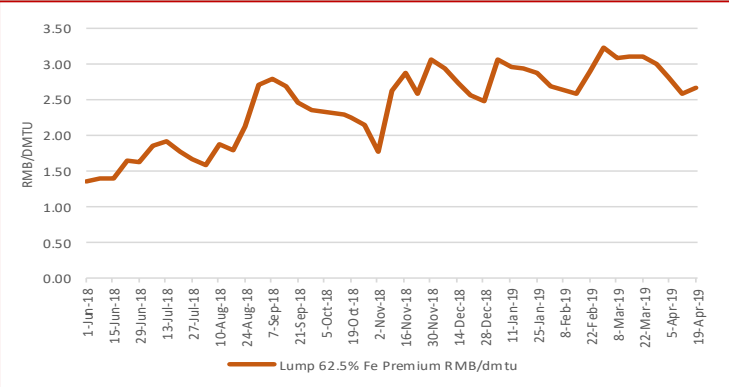
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-35.00	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	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	-5.00	0.00	Jingtang	-5.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-10.00	0.00	Lanqiao	0.00	0.00	Nantong	-20.00	0.00	Tianjin	-15.00	0.00

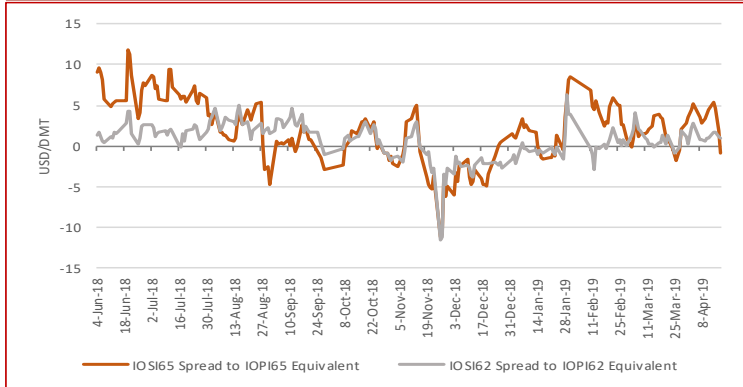
IRON ORE INDEX PREMIUMS/DISCOUNTS



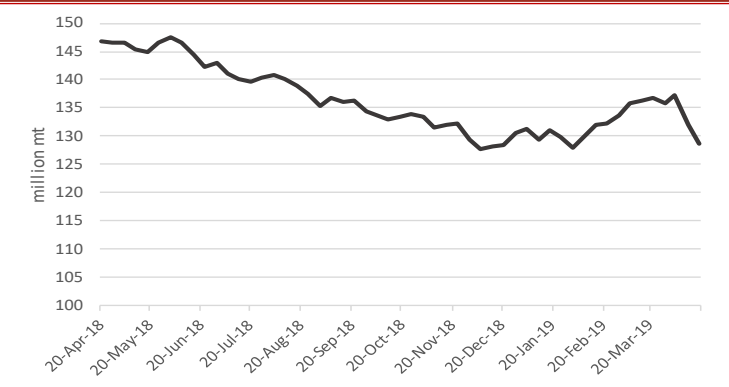
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (62.5% FE LUMP—62% FE FINES)



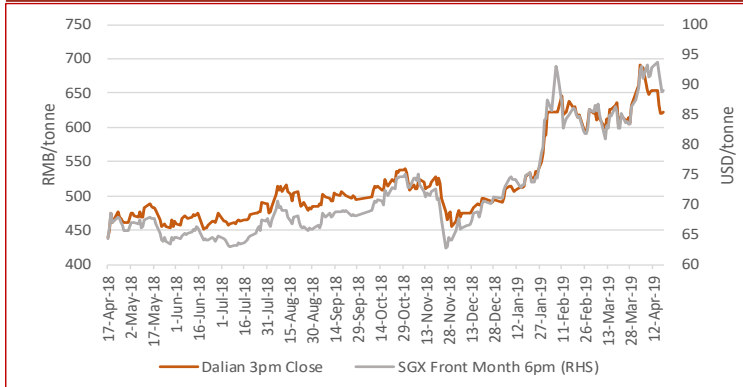
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS



TOTAL IRON ORE INVENTORIES AT CHINA PORTS



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES

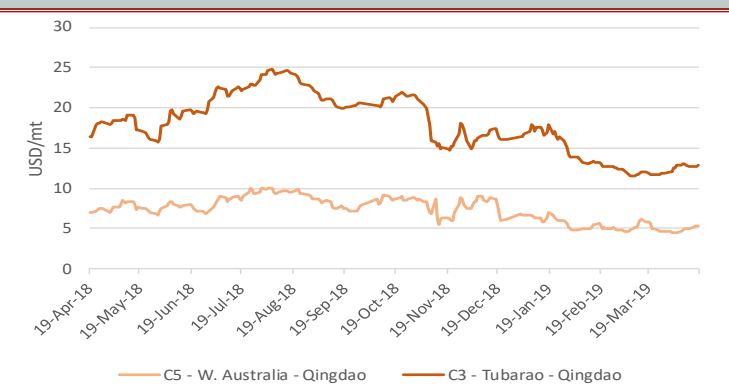
Week Ending April 19th, 2019 (million tonnes)

Province	This week	Change %	Low ²	High ²
Jingtang	15.56	-4.25%	13.29	18.10
Qingdao	17.13	1.78%	16.09	19.70
Caofeidian	16.72	-5.59%	16.30	24.04
Tianjin	7.39	-5.01%	7.39	10.80
Rizhao	16.06	-2.55%	14.00	19.00
Total (35 Ports)	128.69	-2.46%	127.72	147.80

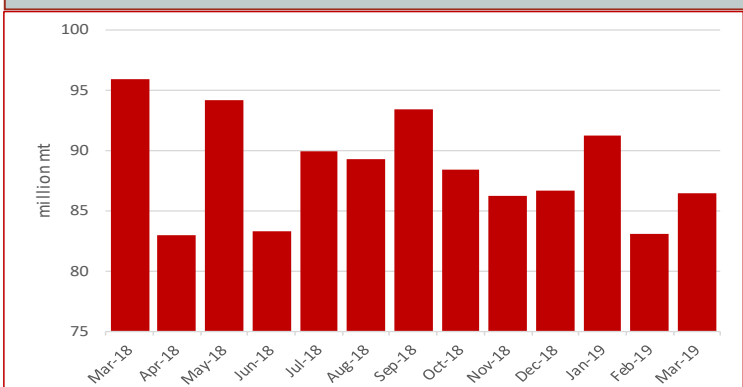
IRON ORE FUTURES CONTRACTS

Closing Date	DCE			SGX		
	19th Apr 3pm close			19th Apr Feb 6 pm		
Contract	I1909	Change	Change %	May'19	Change	Change %
Closing Price	621.50	1.5	0.24%	88.90	0.05	0.06%
Vol traded ('000 lots)	186.66	10.9	6.23%	9.29	0.00	0.00%
Open positions ('000 lots)	125.21	-0.2	-0.14%	113.91	0.00	0.00%
Day Low	613.0	-2.0	-0.33%	88.80	0.00	0.00%
Day High	623.0	-3.0	-0.48%	89.95	0.00	0.00%

DRY BULK FREIGHT RATES



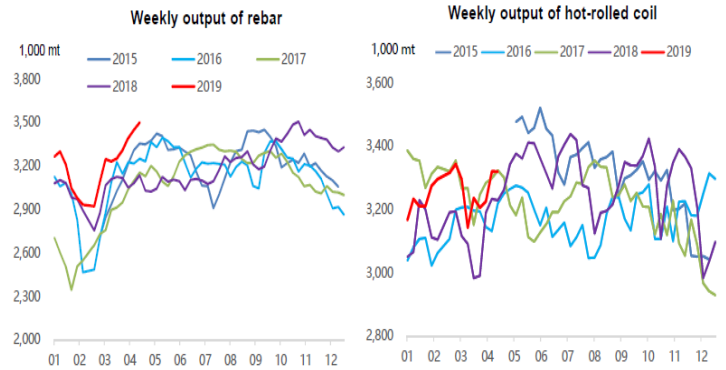
TOTAL CHINA IRON ORE IMPORT VOLUMES



STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne

Product	12/4/2019	Change	Change %
ReBar HRB400 φ18mm	4,090.0	130	3.28%
Wirerod Q300 φ6.5mm	4,270.0	130	3.14%
HRC Q235/SS400 5.5mm*1500*C	3,970.0	70	1.79%
CRC SPPC/ST12 1.0mm*1250*2500	4,350.0	0	0.00%
Medium & Heavy Plate Q235B 20mm	4,090.0	70	1.74%
GI ST02Z 1.0mm*1000*C	4,710.0	40	0.86%
Colour Coated Plate	7,250.0	50	0.69%



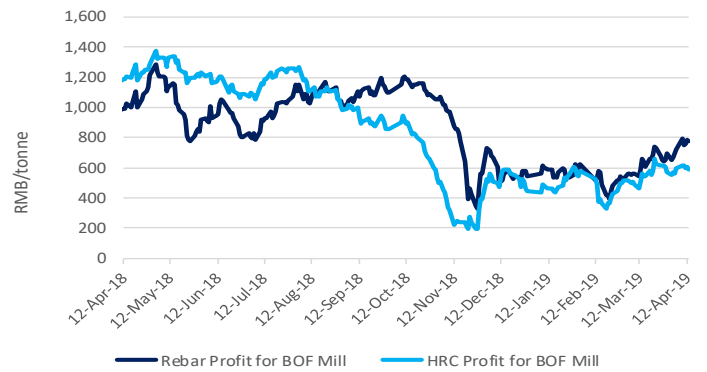
CHINESE STEEL MILL PROFITABILITY

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	94.50	5.62	Mmi CFR Equivalent index for 1st Feb
Coke	1,910	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,230	100	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,054	76	Q234, incl. tax
Rebar cost - Blast furnace	3,304	74	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	776	56	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,378	75	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	592	-5	based on Shanghai prices, incl. tax

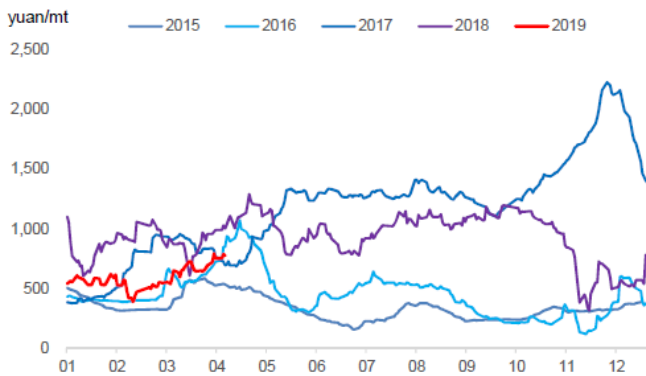
Note: 1. Costs in the table are calculated based on today's market prices and factored our management, sales, financial and depreciations fees.
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

CHINESE STEEL MILL PROFITABILITY

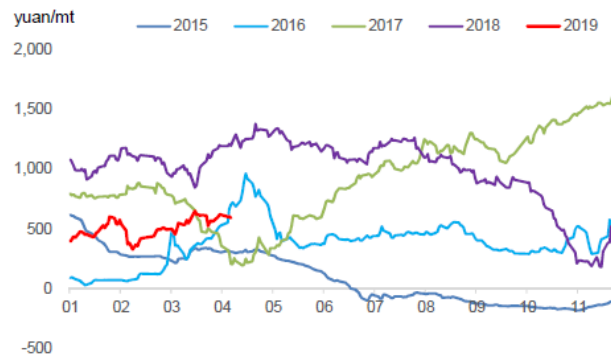


CHINESE STEEL MILL PROFITABILITY

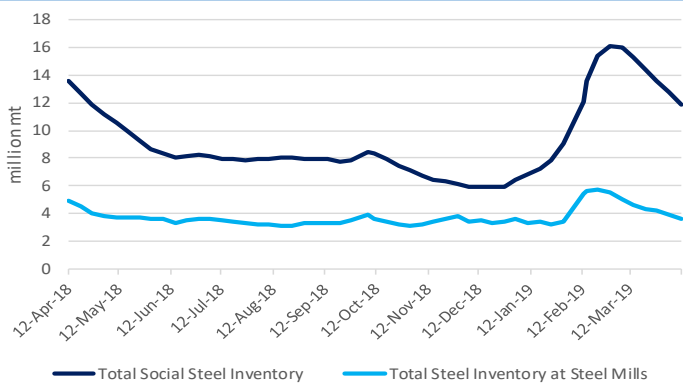
Rebar profits



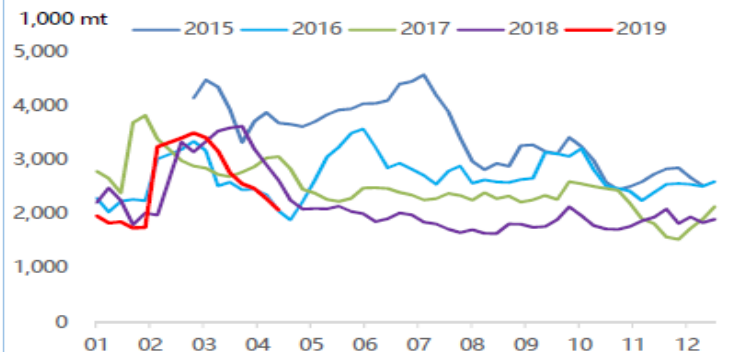
Hot-rolled coil profits



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
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	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
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	
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						SEABORNE BRANDS					
April 19th, 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	60.76%	2.35%	4.31%	0.057%	8.58%	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	61.59%	2.39%	3.67%	0.100%	9.18%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.36%	2.29%	4.18%	0.092%	7.53%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.83%	2.26%	4.84%	0.086%	7.11%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	61.02%	2.94%	4.27%	0.116%	7.43%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	65.28%	1.33%	1.46%	0.076%	8.12%	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	62.69%	1.52%	4.86%	0.072%	8.41%	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%

April 19th, 2019	Specifications applied for 58% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture
SSF	56.72%	3.09%	5.99%	0.050%	8.95%
FMG Blended Fines	58.25%	2.71%	5.65%	0.060%	7.37%
Robe River	56.64%	2.91%	5.58%	0.040%	9.29%
Western Fines	57.88%	2.87%	7.50%	0.060%	7.45%
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%
Yandi	57.10%	1.48%	6.52%	0.040%	8.65%

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

CONTACT US

MMI Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7629 E: jarek@mmiprices.com

SMM Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7630 E: service.en@smm.cn

SMM Shanghai Office Details: 9th FL, Building 9, Lujiazui Software Park, No.20, Lane 91, Pudong, Shanghai Tel: +86 021 5155 0306 E: service.en@smm.cn

Visit www.mmiprices.com for full index price histories and archive of daily reports

This information has been prepared by Metals Market Index ("MMI"). Use of the information presented here is at your sole risk, and any content, material and/or data presented or otherwise obtained through your use of the information in this document is at your own discretion and risk and you will be solely responsible for any damage to you personally or your company or organisation or business associates whatsoever which in anyway results from the use, reliance or application of such content material and/or information. Certain data has been obtained from various sources and any copyright existing in such data shall remain the property of the source. Except for the foregoing, MMI retains all copyright within this document. The copying or redistribution of any part of this document without the express written authority of MMI is forbidden.