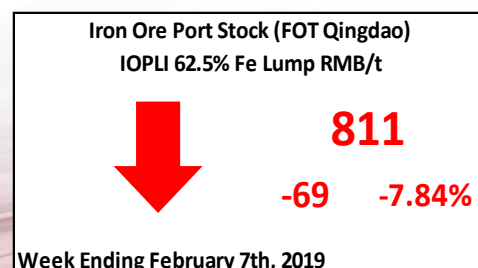
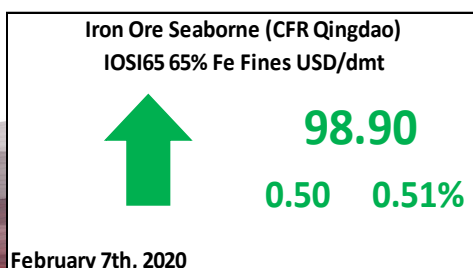
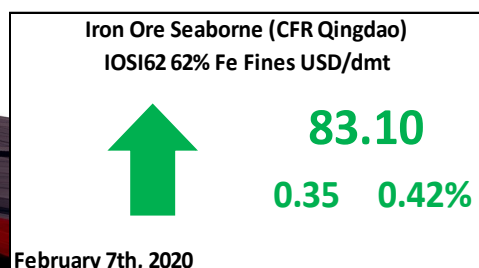
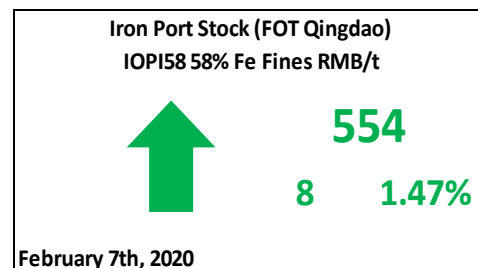
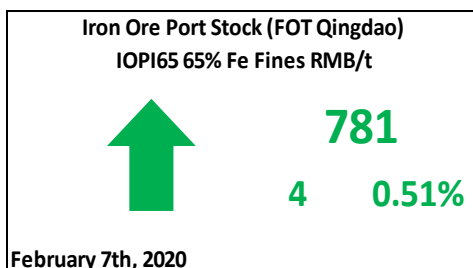
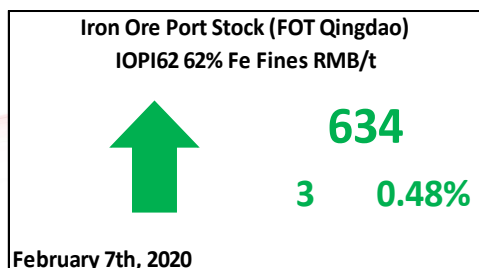


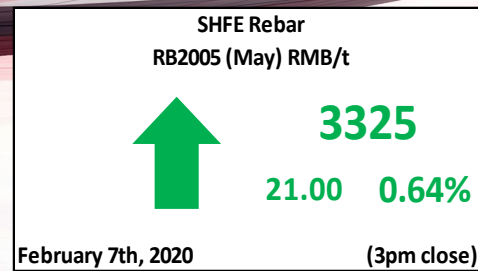
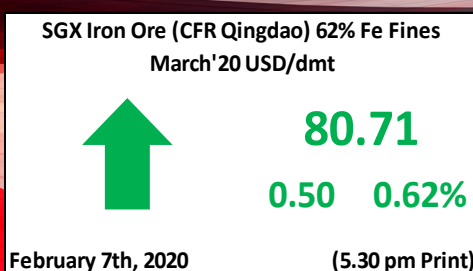
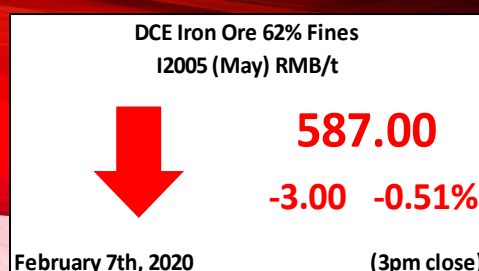


MMi Dashboard

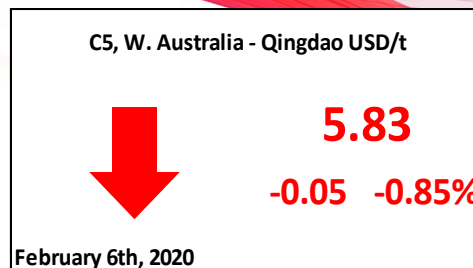
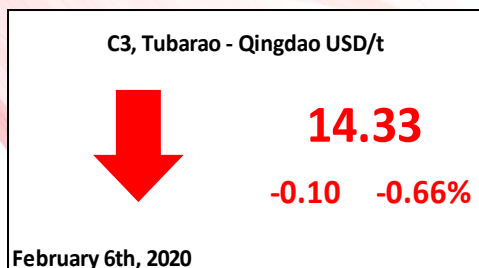
Iron Ore Price Indices



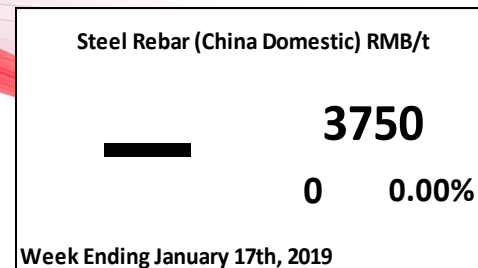
Exchange Traded Contracts



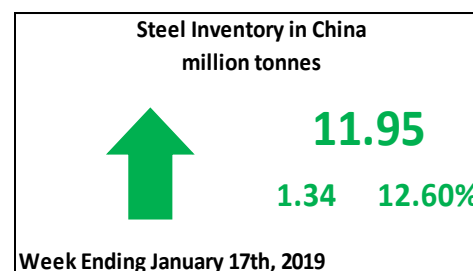
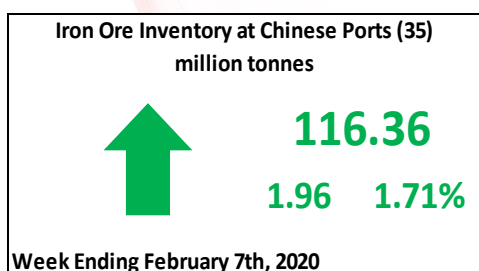
Freight Rates



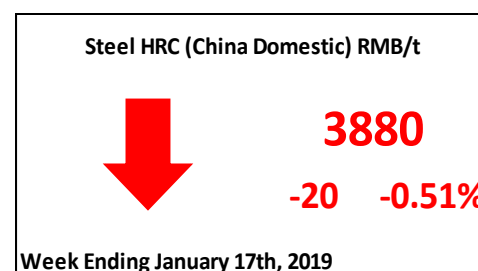
Steel Price



Inventory Levels



Steel Price



IRON ORE PORT STOCK INDEX (IOPI)

February 7th, 2020		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	634	3	0.5%	643	691	601	928	83.55	0.67	0.8%	84.88	92.00	79.73	126.12
IOPI58	58% Fe Fines	554	8	1.5%	549	588	471	823	73.32	1.34	1.9%	72.62	78.59	61.64	112.44
IOPI65	65% Fe Fines	781	4	0.5%	772	800	679	992	103.82	0.87	0.8%	102.62	107.13	90.58	135.34

IRON ORE SEABORNE INDEX (IOSI)

MARKET COMMENTARY

February 7th, 2020		CFR Qingdao, USD/dry tonne							SMM data showed that iron ore stocks across 35 Chinese ports totalled 116.36 million mt as of February 7, up 1.96 million mt from pre-holiday levels, but 12.76 million mt lower than a year ago. Daily average deliveries from the 35 ports decreased 364,000 mt from pre-holiday levels to 2.55 million mt this week. Staff at most companies worked at home due to the epidemic. Sharp decline in iron ore prices in the spot and futures markets side-lined traders. Steel mills in Shandong and south China showed little buying interest due to transportation restrictions. Daily average deliveries from Jingtang port, Tangshan recovered to over 300,000 mt after the transport ban was lifted on February 1, while daily average deliveries from Caofedian port remained around 200,000 mt.							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²								
IOSI62	62% Fe Fines	83.10	0.35	0.42%	82.81	91.73	80.40	127.50								
IOSI65	65% Fe Fines	98.90	0.50	0.51%	98.19	105.76	91.20	137.95								

IRON ORE PORT LUMP INDEX (IOPLI)

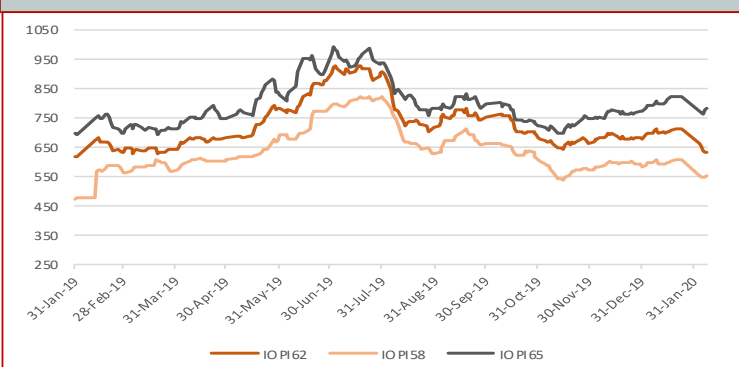
Week Ending February 7th, 2019		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ³						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	811	-69	-7.8%	811	857	763	1051	103.53	-7.76	-6.97%	103.53	107.89	93.24	133.81

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

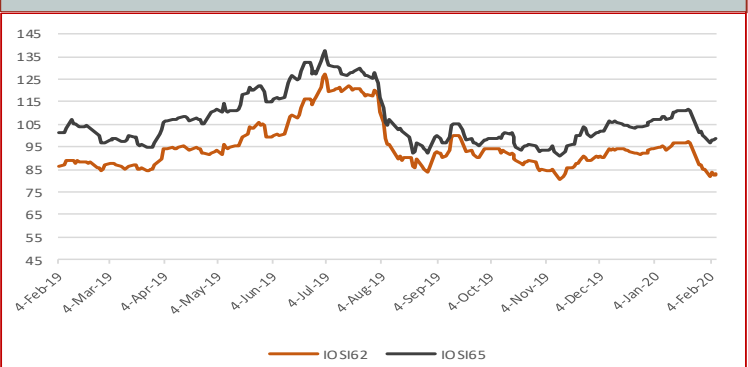
Week Ending January 17th, 2019				RMB/tonne (excluding tax) ³				USD/tonne (excluding tax) ³			
Province	Region	Product	Basis	This week	Change %	Low ²	High ²	This week	Change %	Low ²	High ²
Hebei	Hanxing	66% Fe Concentrate	Dry	847	1.0%	701	1032	122.84	1.78%	103.29	150.03
Hebei	Qian'an	65% Fe Concentrate	Dry	850	0.0%	735	960	123.28	0.82%	109.45	139.35
Liaoning	Anshan	65% Fe Concentrate	Wet	650	0.0%	535	745	94.27	0.82%	79.15	104.66
Shandong	Zibo	65% Fe Concentrate	Dry	830	0.0%	740	1040	120.38	0.82%	109.48	151.33
Week Ending January 17th, 2019				This week	Change %	Low ²	High ²				
China Mines Concentrate Composite Index RMB/WT				728.48	0.63%	621.60	859.50				

¹ Exchange rate applied: RMB/USD = 6.9768 ² Last 12 months
³ Weekly exchange rate applied: RMB/USD 6.9721

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

February 7th, 2020		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	October	November	December	January	MTD	QTD	YTD	October	November	December	January	MTD	QTD	YTD
IOPI62	62% Fe Fines	721	665	683	706	643	691	691	94.29	87.30	89.84	94.23	84.88	92.00	92.00
IOPI58	58% Fe Fines	636	567	592	600	549	588	588	83.57	74.67	78.18	80.46	72.62	78.59	78.59
IOPI65	65% Fe Fines	758	723	764	808	772	800	800	99.32	95.29	100.90	108.54	102.62	107.13	107.13

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

FREIGHT RATES

February 7th, 2020		CFR Qingdao, USD/dry tonne							FREIGHT RATES - DRY BULK US\$/wet tonne						
Index	Fe Content	October	November	December	January	MTD	QTD	YTD	Route	Designation	Change	Change %	Low ²	High ²	
IOSI62	62% Fe Fines	90.81	85.83	92.64	93.85	82.81	91.73	91.73	W. Australia - Qingdao	C5	5.83	-0.05	-0.85%	4.39	11.42
IOSI65	65% Fe Fines	97.45	96.49	104.14	107.56	98.19	105.76	105.76	Tubarao - Qingdao	C3	14.33	-0.10	-0.66%	11.61	29.10

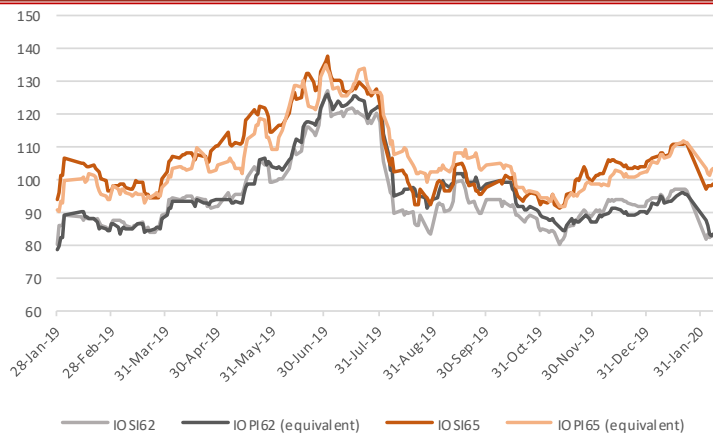
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending February 7th, 2019		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	October	November	December	January	MTD	QTD	YTD	October	November	December	January	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	829	794	825	868	811	857	857	108.80	98.44	97.89	108.99	103.53	107.89	107.89

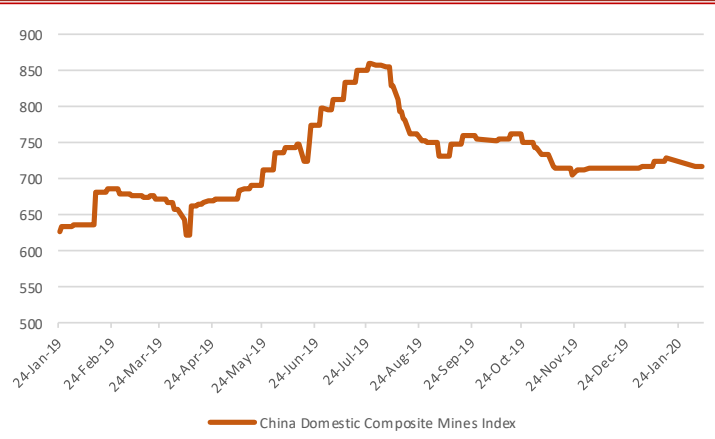
IRON ORE INDEX PREMIUMS/DISCOUNTS

February 7th, 2020				PORT STOCK INDEX (RMB/WT)		February 7th, 2020		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	-80	-12.62%	IOSI65	65% Fe Fines	15.80	19.01%		
IOPI65	65% Fe Fines	147	23.19%						

IRON ORE INDEX COMPARISONS (USD/DMT)



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



IRON ORE BRAND SPOT PRICE ASSESSMENTS

February 7th, 2020				February 7th, 2020			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	583	3	-51	Roy Hill	78.42	0.35	-4.68
SIMEC Fines	554	3	-80	SIMEC Fines	75.27	0.35	-7.83
PB Fines	612	3	-22	PB Fines	82.17	0.35	-0.93
Newman Fines	643	3	9	Newman Fines	84.24	0.37	1.14
MAC Fines	595	5	-39	MAC Fines	77.67	-0.15	-5.43
Jimblebar Blended Fines	523	2	-111	Jimblebar Blended Fines	69.60	-0.27	-13.50
Carajas Fines	787	0	153	Carajas Fines	100.06	1.64	16.96
Brazilian SSF	664	3	30	Brazilian SSF	85.29	0.67	2.19
Brazilian Blend Fines	665	-17	31	Brazilian Blend Fines	86.29	0.54	3.19
RTX Fines	552	3	-82	RTX Fines	76.27	-0.28	-6.83
West Pilbara Fines	581	3	-53	West Pilbara Fines	76.77	0.35	-6.33

February 7th, 2020			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	518	8	-36
FMG Blended Fines	558	8	4
Robe River	515	8	-39
Western Fines	537	8	-17
Atlas Fines	522	8	-32
Yandi	561	9	7

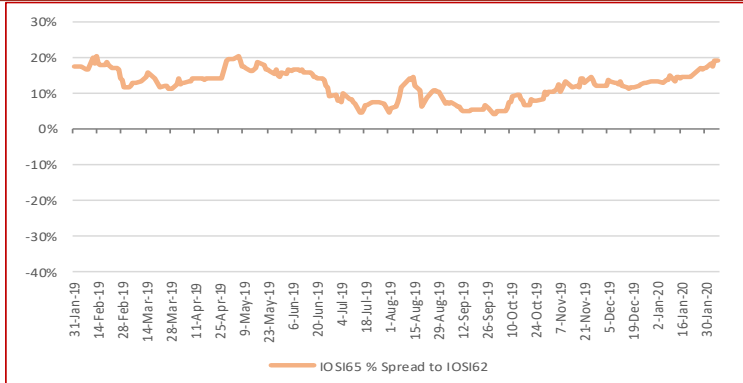
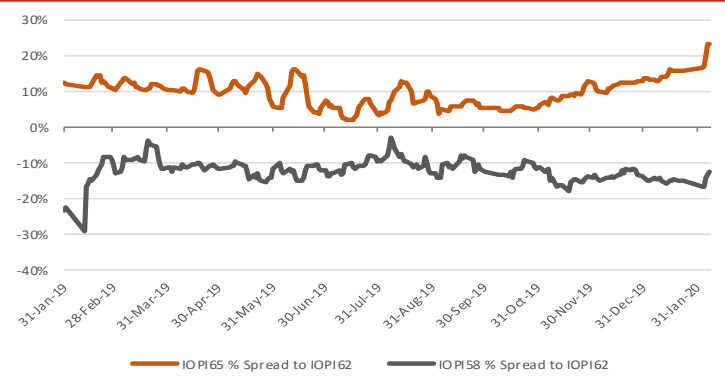
IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	16.00	0.00	1% Fe	High Grade Fe 60 - 63%	3.00	0.00
	High Grade Fe 63 - 64%	11.00	0.00		High Grade Fe 63 - 64%	2.75	0.25
	High Grade Fe 64 - 65%	11.00	0.00		High Grade Fe 64 - 65%	2.75	0.25
	High Grade Fe 65 - 65.5%	11.00	0.00		High Grade Fe 65 - 65.5%	2.75	0.25
1% Alumina	Low Grade Fe	13.00	0.00	1% Alumina	High Fe Grade Al <2.25%	3.25	0.25
	High Fe Grade Al <2.25%	63.00	0.00		High Fe Grade Al 2.25-4%	2.00	0.00
	High Fe Grade Al 2.25-4%	37.00	0.00				
	Low Fe Grade Al <2.25%	36.00	0.00				
1% Silica	Low Fe Grade Al 2.25-4%	17.00	0.00	1% Silica	High Fe Grade Si <4%	2.50	0.25
	High Fe Grade Si <4%	22.00	0.00		High Fe Grade Si 4 - 6.5%	0.75	0.00
0.01% Phosphorus	High Fe Grade Si 4-6.5%	25.00	0.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.50	0.25
	Low Fe Grade	7.00	0.00		High Fe Grade 0.115%<P<0.15%	0.25	0.00
	High Fe Grade 0.09%<P<0.115%	7.00	0.00				
	High Fe Grade 0.115%<P<0.15%	4.00	0.00				
	Low Fe Grade 0.09<P<0.1%	5.00	0.00				

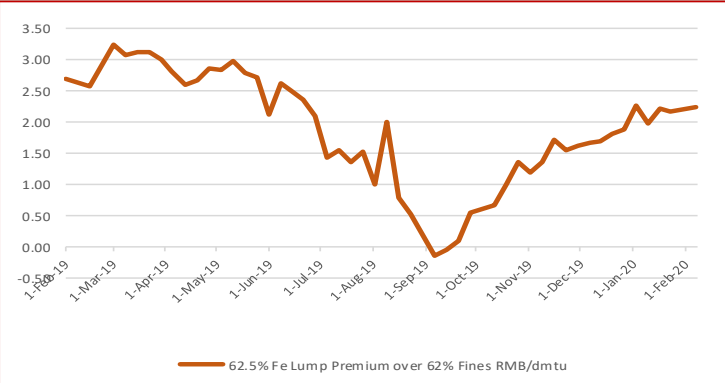
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-50.00	0.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-30.00	0.00	Lianyungang	0.00	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	-50.00	0.00	Lanqiao	0.00	0.00	Nantong	-30.00	0.00	Tianjin	-30.00	0.00

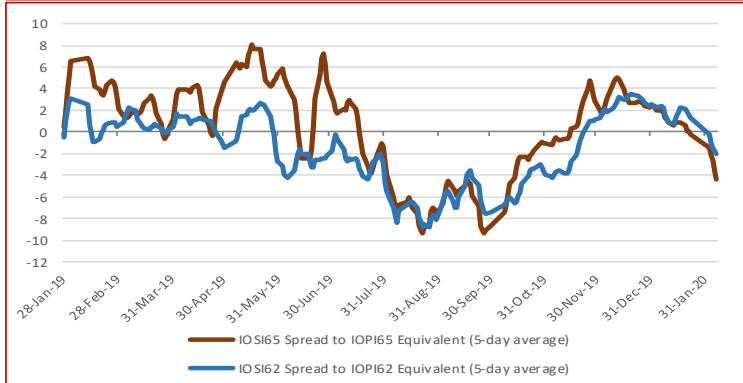
IRON ORE INDEX PREMIUMS/DISCOUNTS



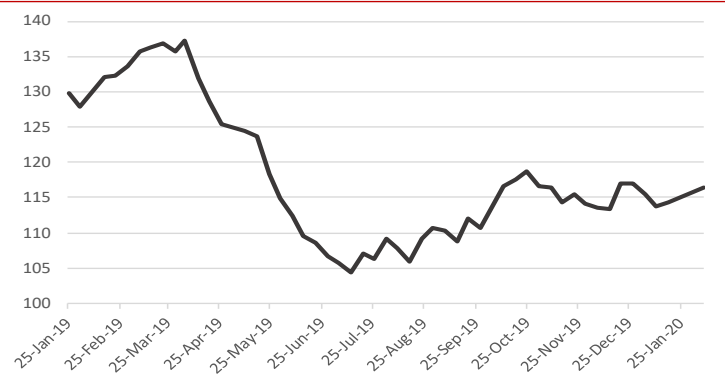
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



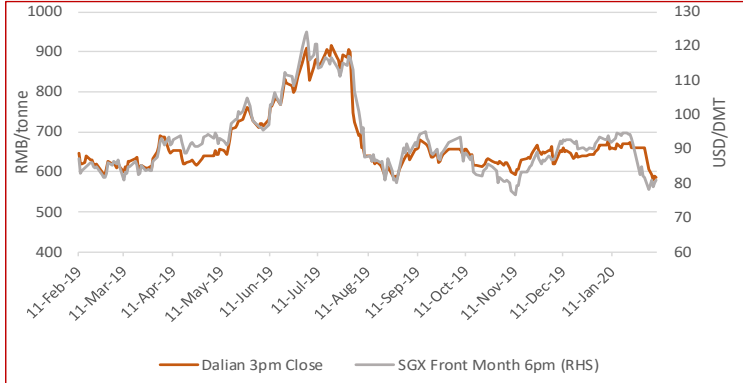
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



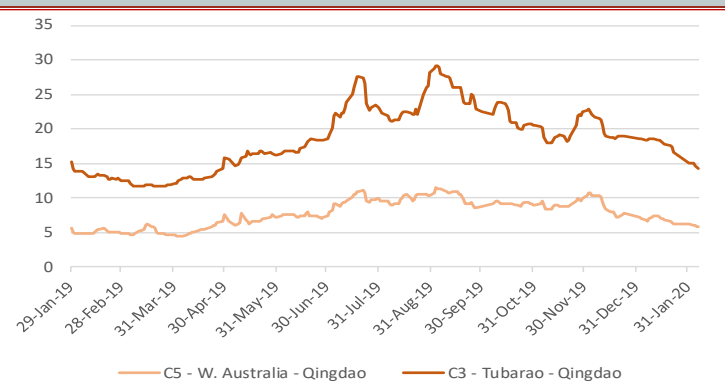
IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending February 7th, 2020				
Province	This week	Change %	Low ²	High ²
Jingtang	16.01	17.38%	10.80	17.00
Qingdao	13.86	-0.14%	12.38	19.01
Caofeidian	15.74	8.18%	13.47	18.98
Tianjin	7.32	-3.56%	6.37	9.40
Rizhao	12.23	-4.90%	11.41	17.10
Total (35 Ports)	116.36	1.71%	104.40	137.30

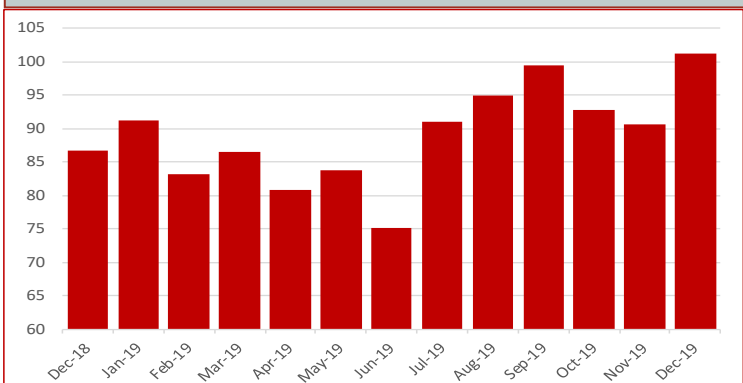
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Feb 7th 3.00 pm close			Feb 7th, 5.30 pm		
Contract	I2005	Change	Change %	Mar'20	Change	Change %
Closing Price	587.00	-3.0	-0.51%	80.71	0.50	0.62%
Vol traded ('000 lots)	56.88	-25.3	-30.74%	17.09	-6.59	-27.82%
Open positions ('000 lots)	56.11	0.29	0.51%	132.53	7.83	6.27%
Day Low	579.5	5.0	0.87%	78.11	0.76	0.98%
Day High	591.5	-2.0	-0.34%	80.81	0.55	0.69%

DRY BULK FREIGHT RATES (USD/MT)



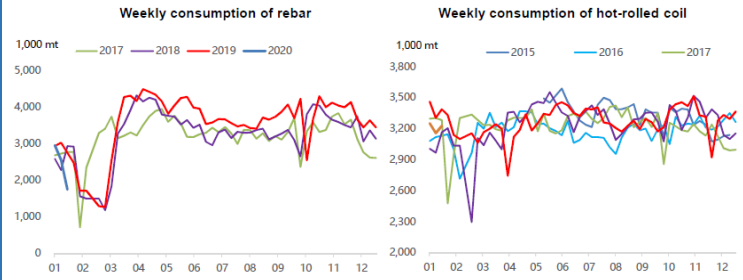
TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne

Product	17/1/2020	Change	Change %
ReBar HRB400 φ18mm	3,750.0	0	0.00%
Wirerod Q300 φ6.5mm	3,830.0	0	0.00%
HRC Q235/SS400 5.5mm*1500*C	3,880.0	-20	-0.51%
CRC SPPC/ST12 1.0mm*1250*2500	4,470.0	0	0.00%
Medium & Heavy Plate Q235B 20mm	3,870.0	0	0.00%
GI ST02Z 1.0mm*1000*C	4,590.0	0	0.00%
Colour Coated Plate	6,900.0	0	0.00%



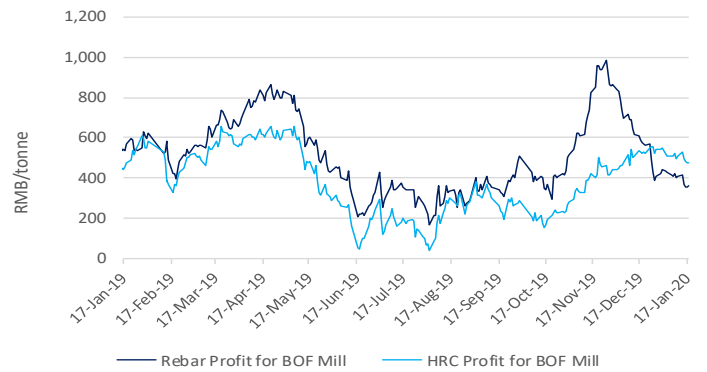
CHINESE STEEL MILL PROFITABILITY

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

Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	97.00	1.90	Mmi CFR Equivalent index for 1st Feb
Coke	1,960	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,290	0	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,089	14	Q234, incl. tax
Rebar cost - Blast furnace	3,322	14	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	358	-54	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,406	15	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	474	-35	based on Shanghai prices, incl. tax

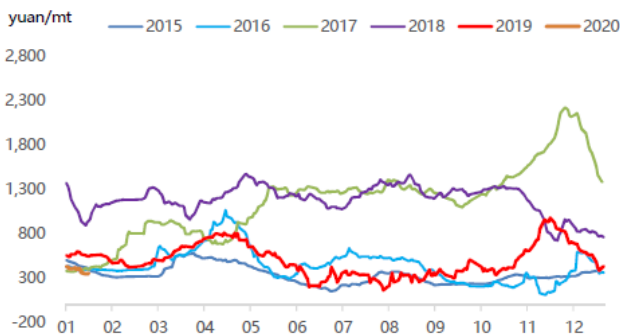
Note: 1. Costs in the table are calculated based on today's market prices and fact our management, sales, financial and depreciations fees.
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

CHINESE STEEL MILL PROFITABILITY

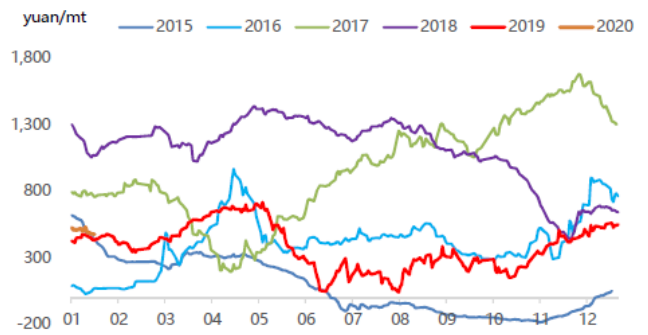


CHINESE STEEL MILL PROFITABILITY

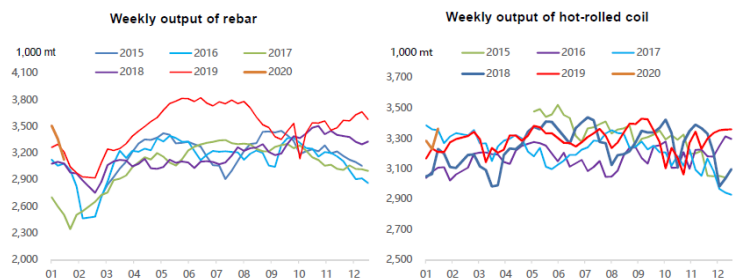
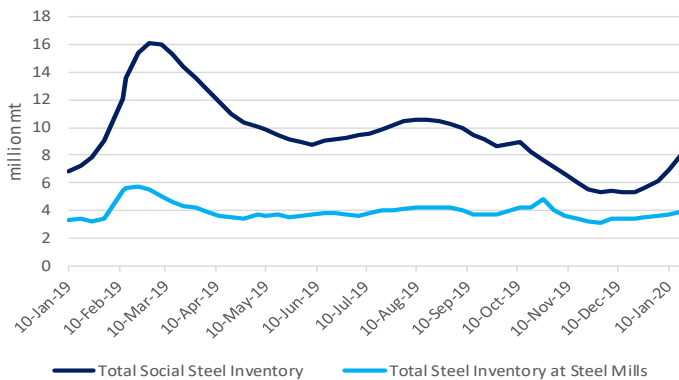
Rebar profits



Hot-rolled coil profits



CHINESE STEEL INVENTORIES



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					
February 7th, 2020	Specifications applied for 62% brand assessments						Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.70%	2.24%	4.89%	0.060%	9.33%	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	61.49%	2.33%	3.82%	0.100%	9.27%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.46%	2.23%	4.10%	0.076%	7.60%	Newman Fines	62.40%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.70%	2.34%	4.68%	0.074%	7.64%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	60.26%	3.08%	4.63%	0.117%	7.75%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%
Carajas Fines	65.20%	1.30%	1.70%	0.082%	7.80%	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	62.63%	1.55%	4.91%	0.072%	8.03%	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%
West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%	West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%
February 7th, 2020	Specifications applied for 58% brand assessments										
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.72%	3.07%	6.18%	0.059%	9.18%						
FMG Blended Fines	58.29%	2.68%	5.59%	0.060%	7.71%						
Robe River	56.31%	3.17%	5.64%	0.041%	9.10%						
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	57.11%	1.55%	6.42%	0.035%	8.98%						

BLOOMBERG TICKERS

PORT STOCK INDICES				SEABORNE INDICES	
FOT Qingdao (RMB/wet tonne)		CFR Qingdao Equivalent (USD/dry tonne)		CFR Qingdao (USD/DMT)	
IOPI62	IRCNQ001		IRCNQ004	IOSI62	IRCNO034
IOPI58	IRCNQ002		IRCNQ005	IOSI65	IRCNO035
IOPI65	IRCNQ003		IRCNQ006		
IOPLI62	IRCNO036		IRCNO037		

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