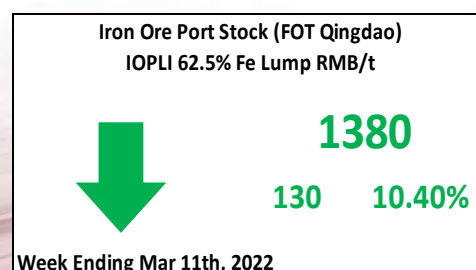
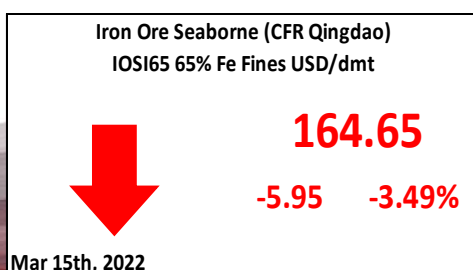
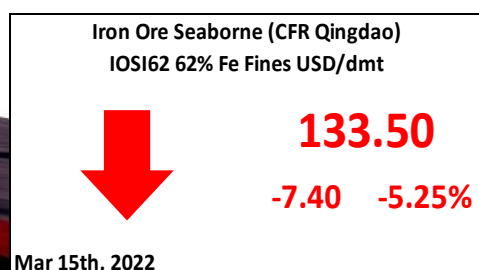
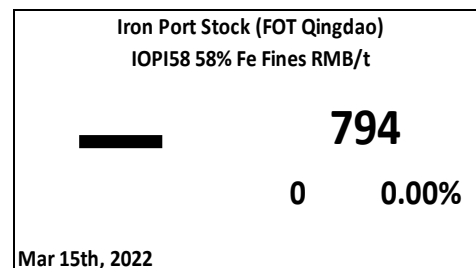
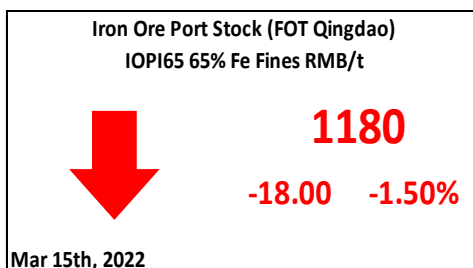
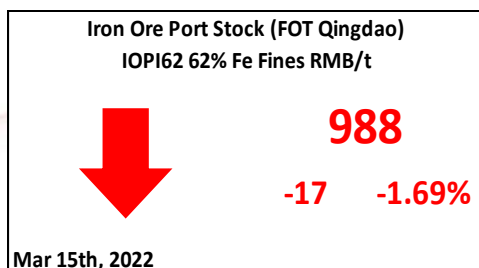


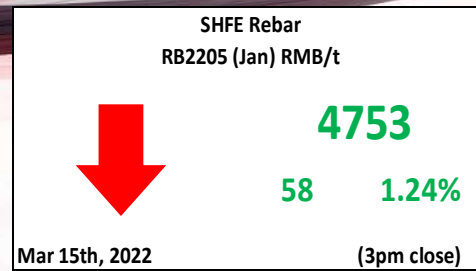
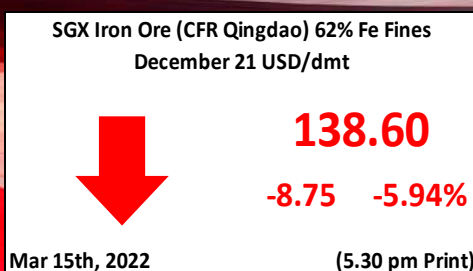
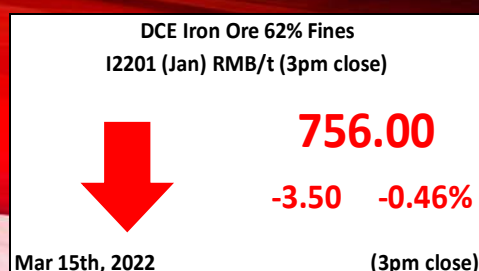


# MMi Dashboard

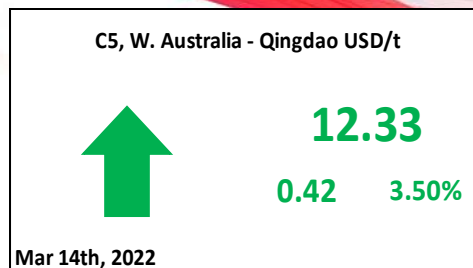
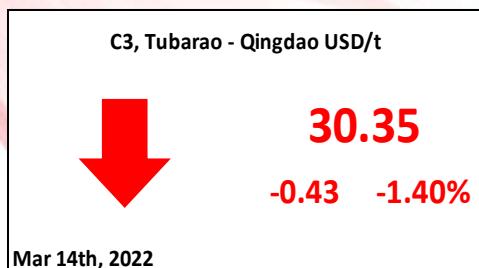
## Iron Ore Price Indices



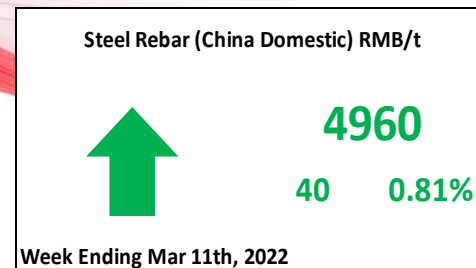
## Exchange Traded Contracts



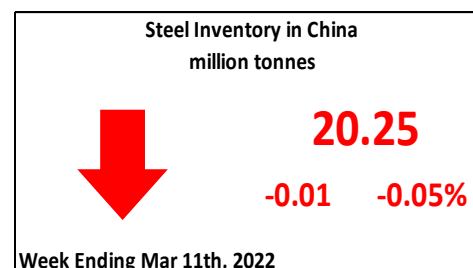
## Freight Rates



## Steel Price



## Inventory Levels



## Steel Price



## IRON ORE PORT STOCK INDEX (IOPI)

Mar 15th, 2022		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	988	-17	-1.7%	1012	937	587	1680	144.83	-3.72	-2.5%	149.59	137.77	84.25	247.30
IOPI58	58% Fe Fines	794	0	0.0%	775	694	454	1421	116.83	-0.91	-0.8%	114.77	102.12	64.78	210.83
IOPI65	65% Fe Fines	1180	-18	-1.5%	1214	1132	843	1894	173.795	-4.09	-2.3%	180.30	167.41	122.83	278.61

## IRON ORE SEABORNE INDEX (IOSI)

## MARKET COMMENTARY

Mar 15th, 2022		CFR Qingdao, USD/dry tonne							DCE iron ore futures market fell by 4.61%, the main contract closed 756, the quotation in the morning was decreased by 20.30 yuan/mt over yesterday, but as the disk continues to go up, the price was increased. Market wash-and-see sentiment increased, some steel purchasing intentions are still weak, total transactions remained marginal. PBF at Shandong port dealt 920,930 yuan/mt; decreased 10 yuan/mt over yesterday. SSF at Shandong port dealt 500,500 yuan/mt; decreased 10.30 yuan/mt over yesterday. PBF at Tangshan port dealt 930 yuan/mt; decreased 10 yuan/mt over yesterday. SMM tracking data shows that a total of 67 ships arrived at Major ports in China from March 07 to March 13, and the cargo arrival volume is estimated to be 10.285 million tons, which is 980,000 tons more than the previous period and 2.075 million tons less than the same period last year. During this period, the outbound shipments from Australia increased by 540,000 tons to 16.11 million tons, down by 460,000 tons compared with the same period last year. Brazil's outbound shipments in this period decreased by 2 million tons to 3.88 million tons, down 2.18 million tons compared with the same period last year. The amount of imported ore to Hong Kong in this period decreased slightly, and the overall shipments from Australia and Brazil decreased significantly. In the past two days, many blast furnaces have resumed production, and the demand for iron ore has increased slowly, which has given certain support to the ore price. However, considering the geopolitical factors such as the impact of the short-term mineral prices continue wide shocks.							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>								
IOSI62	62% Fe Fines	133.50	-7.40	-5.25%	138.47	139.98	93.75	230.50								
IOSI65	65% Fe Fines	164.65	-5.95	-3.49%	168.76	165.42	108.20	262.95								

## IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending Mar 11th, 2022		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>3</sup>						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	W-o-W	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPLI62	62.5% Fe Lump	1380	130	10.4%	1315	1140	730	1868	195.51	18.80	10.64%	186.11	160.89	101.31	262.13

## IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

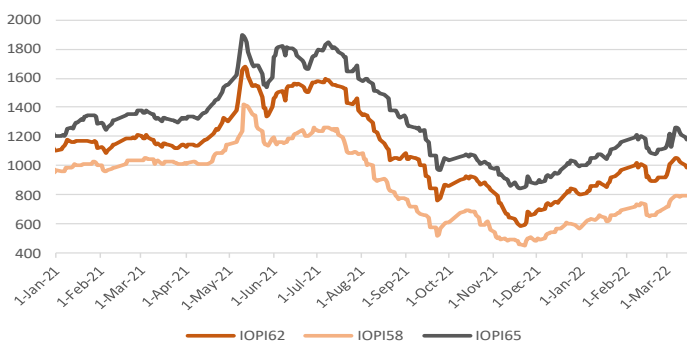
Week Ending Mar 11th, 2022		RMB/tonne (excluding tax) <sup>3</sup>						USD/tonne (excluding tax) <sup>3</sup>			
Province	Region	Product	Basis	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Hebei	Hanxing	66% Fe Concentrate	Dry	1160	5.5%	779	1645	183.40	5.33%	110.31	1175.00
Hebei	Qian'an	65% Fe Concentrate	Dry	1125	5.6%	780	1630	177.86	5.51%	110.51	1125.00
Liaoning	Anshan	65% Fe Concentrate	Wet	900	0.0%	620	1310	142.29	-0.11%	87.40	910.00
Shandong	Zibo	65% Fe Concentrate	Dry	1180	6.3%	800	1752	186.56	6.18%	122.55	1200.00

Week Ending Mar 11th, 2022

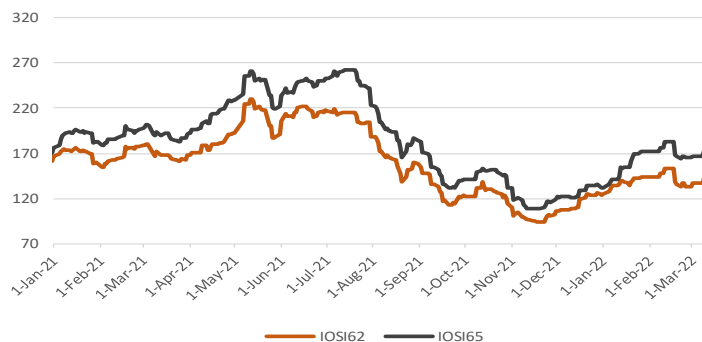
	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
China Mines Concentrate Composite Index RMB/WT	1047.61	5.67%	706.36	1511.22

<sup>1</sup> Exchange rate applied: RMB/USD = 6.4934 <sup>2</sup> Last 12 months  
<sup>3</sup> Weekly exchange rate applied: RMB/USD 6.5044

## 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

Mar 15th, 2022		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	November	December	January	February	MTD	QTD	YTD	November	December	January	February	MTD	QTD	YTD
IOPI62	62% Fe Fines	694	770	886	946	1012	937	937	100.58	112.01	129.82	139.07	149.59	137.77	137.77
IOPI58	58% Fe Fines	500	560	646	696	775	694	694	72.07	81.21	94.58	102.36	114.77	102.12	102.12
IOPI65	65% Fe Fines	888	962	1079	1139	1214	1132	1132	129.88	141.30	159.15	168.36	180.30	167.41	167.41

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

## FREIGHT RATES

Mar 15th, 2022		CFR Qingdao, USD/dry tonne							Mar 14th, 2022							
Index	Fe Content	November	December	January	February	MTD	QTD	YTD	Route		Designation	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>	
IOSI62	62% Fe Fines	99.03	115.86	137.61	142.80	138.47	139.98	139.98	W. Australia - Qingdao		C5	12.33	0.42	3.50%	3.57	16.77
IOSI65	65% Fe Fines	114.32	127.26	155.72	172.28	168.76	165.42	165.42	Tubarao - Qingdao		C3	30.35	-0.43	-1.40%	6.70	36.40

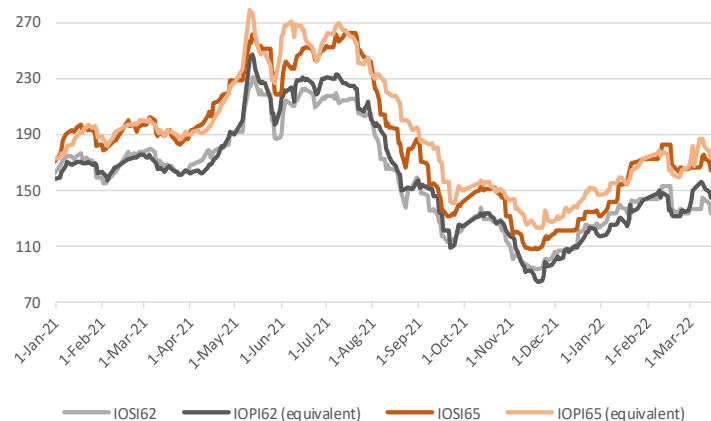
## IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Mar 11th, 2022		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	November	December	January	February	MTD	QTD	YTD	November	December	January	February	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	800	877	1049	1145	1315	1140	1140	196.49	147.90	147.80	161.53	186.11	160.89	160.89

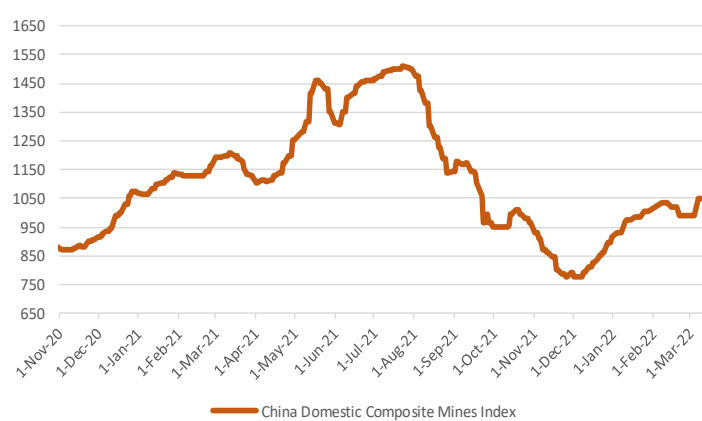
## IRON ORE INDEX PREMIUMS/DISCOUNTS

Mar 15th, 2022		PORT STOCK INDEX (RMB/WT)				Mar 15th, 2022		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	-194		-19.64%		IOSI65	65% Fe Fines	31.15		23.33%	
IOPI65	65% Fe Fines	192		19.43%							

## IRON ORE INDEX COMPARISONS (USD/DMT)



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



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

Mar 15th, 2022				Mar 15th, 2022			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	926	-17	-62	Roy Hill	129.00	-7.40	-4.50
SIMEC Fines	863	-17	-125	SIMEC Fines	125.50	-7.40	-8.00
PB Fines	954	-17	-34	PB Fines	129.75	-7.40	-3.75
Newman Fines	975	-17	-13	Newman Fines	132.65	-7.40	-0.85
MAC Fines	931	-17	-57	MAC Fines	129.75	-7.40	-3.75
Jimblebar Blended Fines	851	-17	-137	Jimblebar Blended Fines	122.15	-7.40	-11.35
Carajas Fines	1168	-17	180	Carajas Fines	163.05	-7.40	29.55
Brazilian SSF	955	-17	-33	Brazilian SSF	137.25	-7.40	3.75
Brazilian Blend Fines	965	-17	-23	Brazilian Blend Fines	133.90	-12.40	0.40
RTX Fines	872	-17	-116	RTX Fines	123.40	-7.39	-10.10
West Pilbara Fines	899	-16	-89	West Pilbara Fines	127.75	-7.40	-5.75

Mar 15th, 2022			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	794	0	0
FMG Blended Fines	803	0	9
Robe River	799	0	5
Western Fines	808	0	14
Atlas Fines	801	0	7
Yandi	788	0	-6

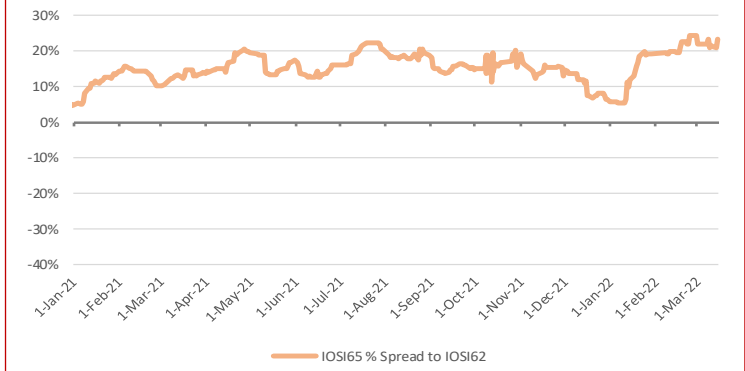
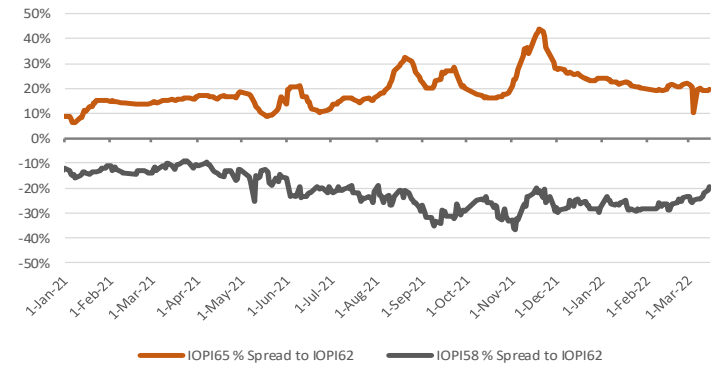
## IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	58.00	3.00	1% Fe	High Grade Fe 60 - 63%	4.50	0.00
	High Grade Fe 63 - 64%	56.00	0.00		High Grade Fe 63 - 64%	1.75	-0.25
	High Grade Fe 64 - 65%	56.00	0.00		High Grade Fe 64 - 65%	1.75	-0.25
	High Grade Fe 65 - 65.5%	56.00	0.00		High Grade Fe 65 - 65.5%	1.75	-0.25
1% Alumina	Low Grade Fe	82.00	5.00	1% Alumina	High Fe Grade Al <2.25%	7.00	0.25
	High Fe Grade Al <2.25%	11.00	-5.00		High Fe Grade Al 2.25-4%	2.50	0.00
	High Fe Grade Al 2.25-4%	56.00	3.00				
	Low Fe Grade Al <2.25%	100.00	0.00				
1% Silica	Low Fe Grade Al 2.25-4%	75.00	-5.00	1% Silica	High Fe Grade Si <4%	6.50	0.00
	High Fe Grade Si <4%	5.00	0.00		High Fe Grade Si 4 - 6.5%	5.00	-0.25
	High Fe Grade Si 4-6.5%	12.00	4.00				
0.01% Phosphorus	Low Fe Grade	20.00	5.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	2.00	-0.25
	High Fe Grade 0.09%<P<0.115%	5.00	0.00		High Fe Grade 0.115%<P<0.15%	1.00	0.00
	High Fe Grade 0.115%<P<0.15%	5.00	0.00				
	Low Fe Grade 0.09%<P<0.1%	14.00	2.00				

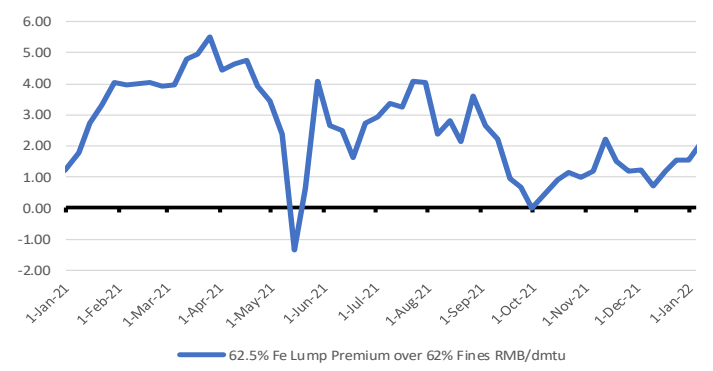
## Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-100.00	0.00	Fangcheng	-25.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	0.00	0.00	Jiangyin	-30.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-20.00	-20.00	Jingtang	-20.00	-20.00	Majishan	0.00	0.00	Taichang	-25.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-30.00	0.00

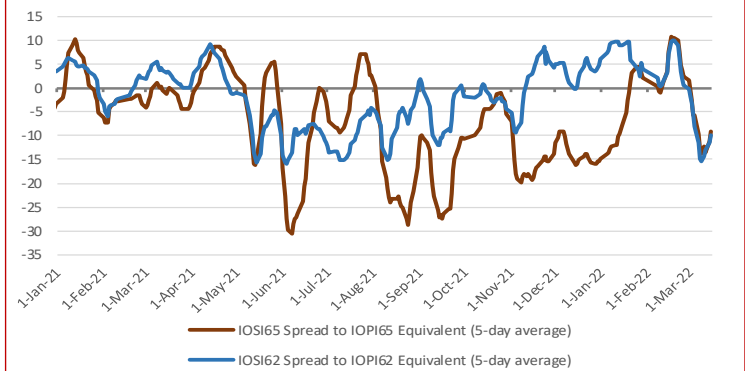
IRON ORE INDEX PREMIUMS/DISCOUNTS



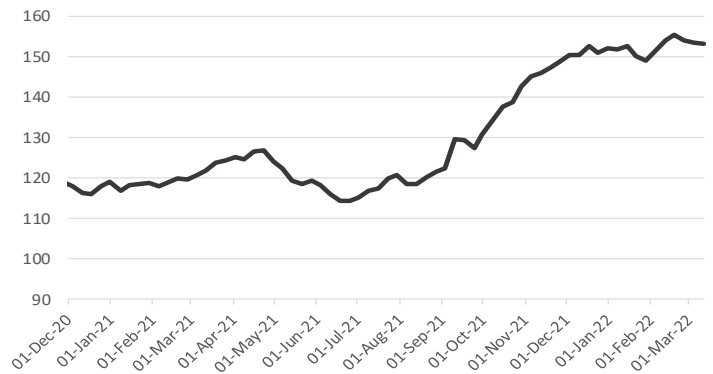
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



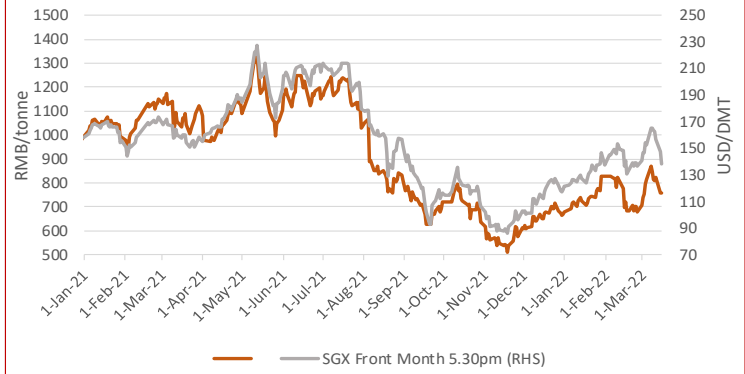
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending Mar 11th, 2022				
Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Jingtang	15.17	-0.72%	12.26	19.20
Qingdao	25.64	-0.39%	9.41	25.74
Caofeidian	14.84	0.27%	11.25	16.25
Tianjin	11.98	5.27%	7.14	12.97
Rizhao	19.26	4.05%	9.44	19.26
<b>Total (35 Ports)</b>	<b>153.24</b>	<b>-0.26%</b>	<b>98.80</b>	<b>155.39</b>

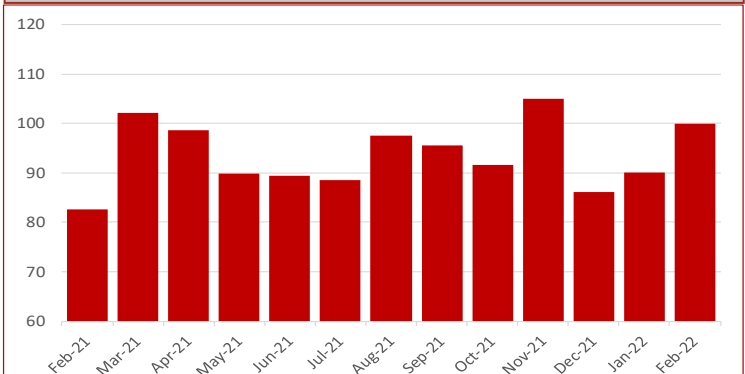
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Mar 15th, 3pm close			Mar 15th, 5:30pm		
Contract	12205	Change	Change %	Nov. 21	Change	Change %
Closing Price	756.00	-3.50	-0.46%	138.60	-8.75	-5.94%
Vol traded ('000 lots)	68.66	4.07	6.31%	5.78	1.05	22.28%
Open positions ('000 lots)	43.90	-1.36	-3.00%	22.21	-0.90	-3.89%
Day Low	742.0	-16.00	-2.11%	136.95	-5.90	-4.13%
Day High	783.5	-38.00	-4.63%	148.50	-12.20	-7.59%

DRY BULK FREIGHT RATES (USD/MT)



TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

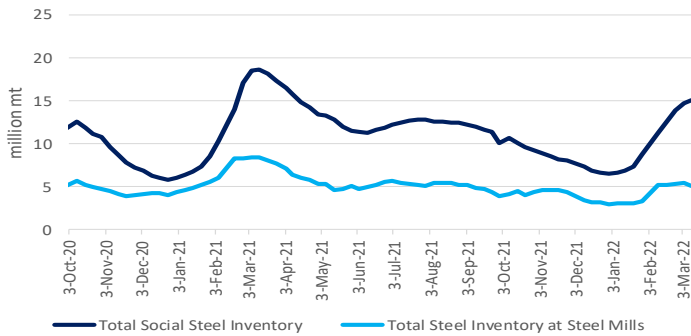
Product	2022/3/11	Change	Change %
ReBar HRB400 φ18mm	4,960	40	0.81%
Wirerod Q300 φ6.5mm	5,150	40	0.78%
HRC Q235/SS400 5.5mm*1500*C	5,120	-40	-0.78%
CRC SPCC/ST12 1.0mm*1250*2500	5,680	40	0.71%
Medium & Heavy Plate Q235B 20mm	5,160	20	0.39%
GI ST02Z 1.0mm*1000*C	5,860	60	1.03%
Colour Coated Plate	8,300	100	1.22%

CHINESE STEEL MILL PROFITABILITY

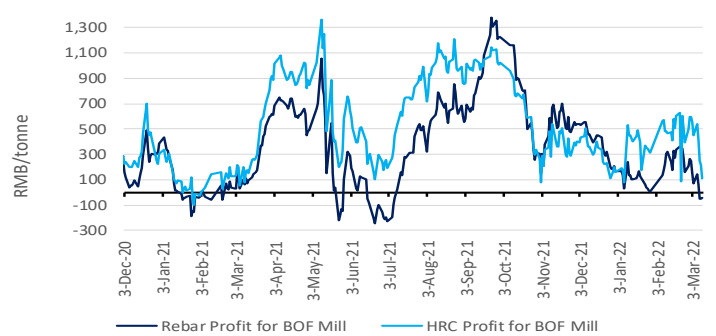
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)			
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	152.60	8	Mmi CFR Equivalent index for 1st Feb
Coke	3,620	200	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	3,770	80	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	4,327	124	Q234, incl. tax
Rebar cost - Blast furnace	4,924	140	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	-44	-110	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	4,840	126	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	260	-186	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

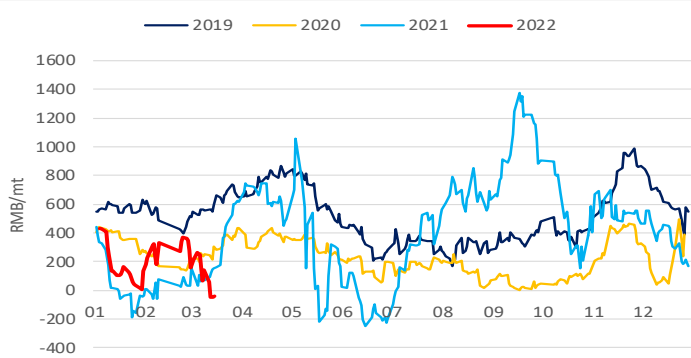
CHINESE STEEL INVENTORIES



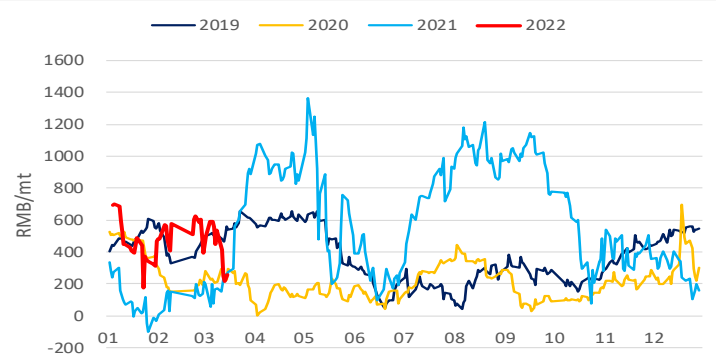
CHINESE STEEL MILL PROFITABILITY



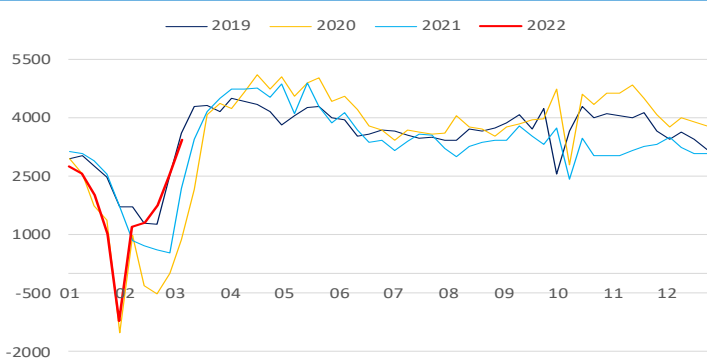
CHINESE STEEL MILL PROFITABILITY—Rebar



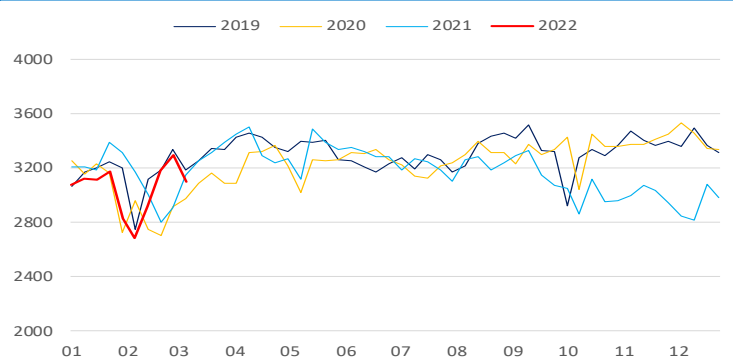
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



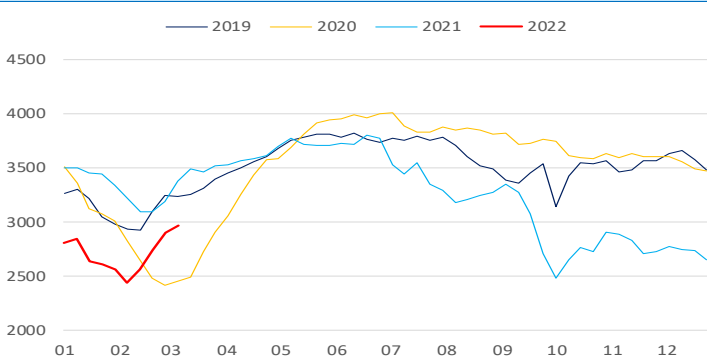
CHINESE STEEL CONSUMPTION—Rebar



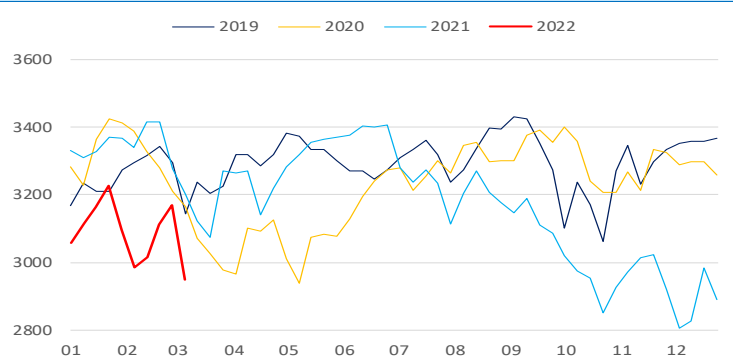
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



CHINESE STEEL PRODUCTION—Rebar



CHINESE STEEL PRODUCTION—Hot-rolled Coil



## IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

Iron Ore Index Specifications (Port and Seaborne)					Iron Ore Index Compilation Rationale and Data Exclusions
	<b>65% Fe Fines</b>	<b>62% Fe Fines</b>	<b>58% Fe Fines</b>	<b>62.5% Fe Lump</b>	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: <a href="http://www.mmiprices.com">www.mmiprices.com</a>
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*			
Port Index	62%	58%	65%
Seaborne index	0	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					
Mar 15th, 2022	Specifications applied for 62% brand assessments						Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.88%	2.35%	4.45%	0.055%	9.26%	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	61.64%	2.31%	3.87%	0.099%	9.45%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	9.50%
Newman Fines	62.49%	2.31%	3.98%	0.090%	7.72%	Newman Fines	62.30%	2.40%	4.30%	0.095%	8.00%
MAC Fines	60.43%	2.38%	4.64%	0.078%	7.57%	MAC Fines	60.80%	2.35%	4.40%	0.075%	7.80%
Jimblebar Blended Fines	60.87%	2.95%	4.53%	0.111%	7.32%	Jimblebar Blended Fines	60.50%	3.10%	4.80%	0.120%	7.80%
Carajas Fines	64.90%	1.39%	1.82%	0.080%	7.78%	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	62.56%	1.58%	4.79%	0.091%	8.72%	Brazilian Blend Fines	63.00%	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%
Mar 15th, 2022	Specifications applied for 58% brand assessments										
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.49%	3.20%	6.19%	0.065%	9.18%						
FMG Blended Fines	58.20%	2.43%	5.54%	0.057%	8.29%						
Robe River	56.44%	3.16%	5.73%	0.042%	8.44%						
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%						
Atlas Fines	58.00%	1.85%	5.50%	0.090%	9.00%						
Yandi	56.87%	1.58%	6.41%	0.042%	9.53%						

## 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		IRCN0034
IOPI58	IRCNQ002		IRCNQ005		IRCN0035
IOPI65	IRCNQ003		IRCNQ006		
IOPLI62	IRCN0036		IRCN0037		

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