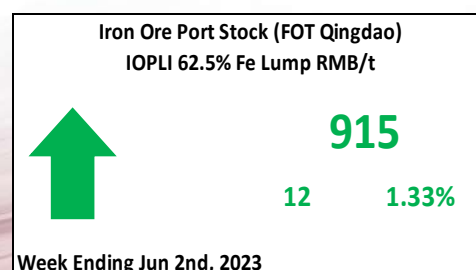
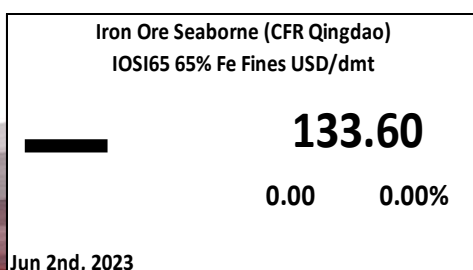
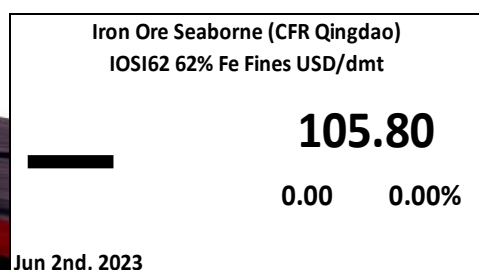
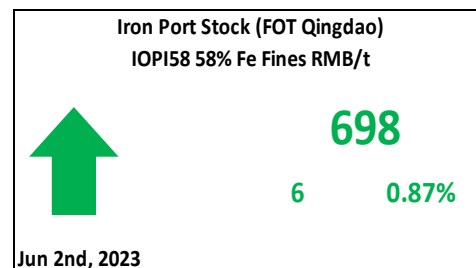
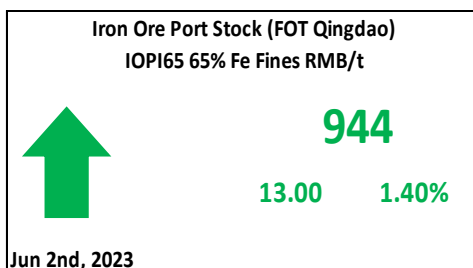
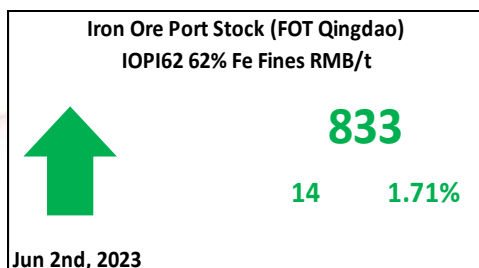


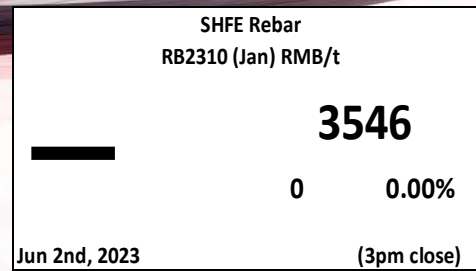
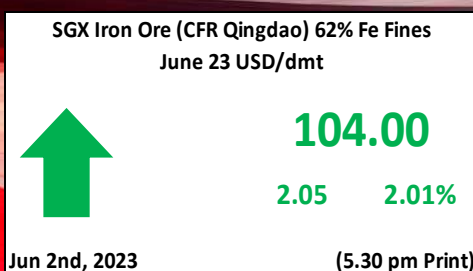
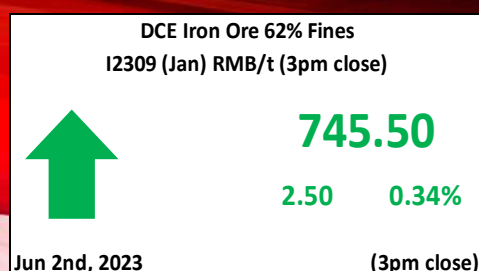


# MMi Dashboard

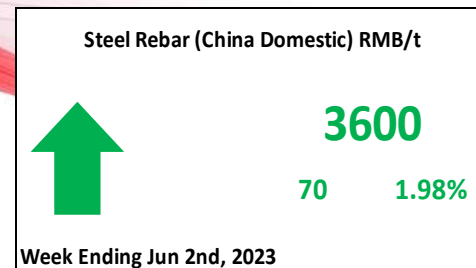
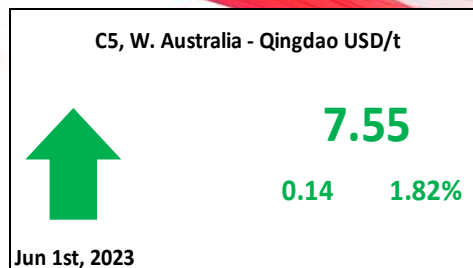
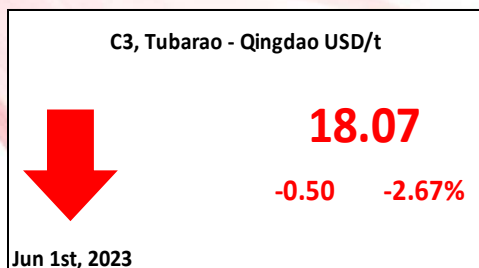
## Iron Ore Price Indices



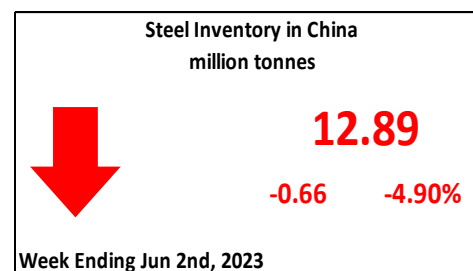
## Exchange Traded Contracts



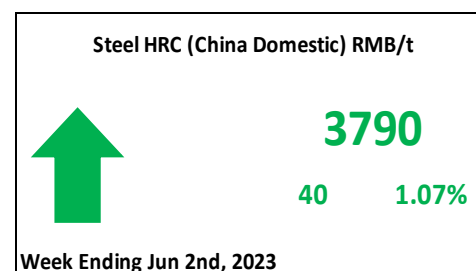
## Freight Rates



## Inventory Levels



## Steel Price



## IRON ORE PORT STOCK INDEX (IOPI)

Jun 2nd, 2023		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	833	14	1.7%	869	880	858	892	109.16	1.94	1.8%	120.06	120.58	117.93	122.93
IOPI58	58% Fe Fines	698	6	0.9%	813	798	761	793	91.85	0.86	0.9%	113.29	110.17	105.29	110.04
IOPI65	65% Fe Fines	944	13	1.4%	981	992	970	1003	124.21	1.81	1.5%	136.05	136.43	133.84	138.73

## IRON ORE SEABORNE INDEX (IOSI)

## MARKET COMMENTARY

Jun 2nd, 2023		CFR Qingdao, USD/dry tonne							DCE iron ore futures rose by 2.9% today, the main contract closed at 745.5. The traders' willingness to ship is general. The steel mills are not active to purchase. The overall trading sentiment of the market is general. PBF at Tangshan port deal 825 yuan/mt, increase 5 yuan/mt. Today, market sentiment continued to rise, and rumors of good real estate came again, which boosted the mentality to a certain extent. In the future, as the end of season surge of overseas mines approaches, the supply chain is relatively loose, while the supply and demand pattern of low inventory operation in steel mills may be loose. Considering the recent collective surge in commodity prices and a shift in market expectations, the news has given the market some confidence and boosted the trading atmosphere; However, from the perspective of the industrial chain, the profits of steel mills are still under pressure, and the sustainability of finished product demand is questionable. It is expected that ore prices will fluctuate widely.							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>								
IOSI62	62% Fe Fines	105.80	0.00	0.00%	114.33	123.45	83.90	147.90								
IOSI65	65% Fe Fines	133.60	0.00	0.00%	125.12	139.45	94.45	171.85								

## IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending Jun 2nd, 2023		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	915	12	1.3%	926	1024	770	1275	115.45	0.98	0.86%	119.93	137.46	94.72	172.09

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

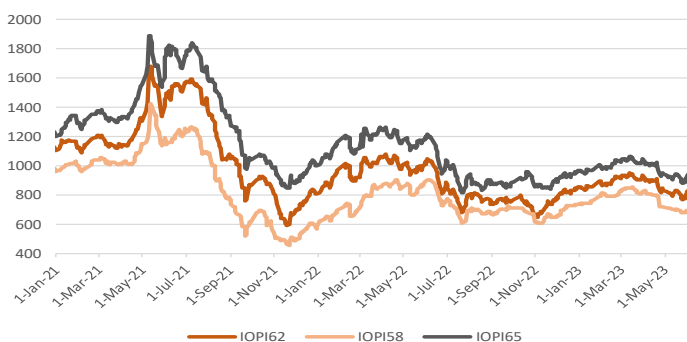
Week Ending Jun 2nd, 2023				RMB/tonne (excluding tax) <sup>3</sup>				USD/tonne (excluding tax) <sup>3</sup>			
Province	Region	Product	Basis	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Hebei	Hanxing	66% Fe Concentrate	Dry	906	-5.3%	779	1645	127.92	-5.81%	110.31	255.69
Hebei	Qian'an	65% Fe Concentrate	Dry	1000	1.0%	780	1630	141.20	0.50%	110.51	251.57
Liaoning	Anshan	65% Fe Concentrate	Wet	715	-1.4%	620	1310	100.96	-1.88%	87.40	202.32
Shandong	Zibo	65% Fe Concentrate	Dry	906	-6.0%	800	1752	127.92	-6.49%	117.19	272.32

Week Ending Jun 2nd, 2023

This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	
China Mines Concentrate Composite Index RMB/WT	857.13	-1.30%	706.36	1511.22

<sup>1</sup> Exchange rate applied: RMB/USD = 6.7522    <sup>2</sup> Last 12 months  
<sup>3</sup> Weekly exchange rate applied: RMB/USD = 6.87528

## 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

Jun 2nd, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	February	March	April	May	MTD	QTD	YTD	February	March	April	May	MTD	QTD	YTD
IOPI62	62% Fe Fines	892	924	879	804	869	881	880	121.64	124.91	118.84	106.85	120.06	120.90	120.58
IOPI58	58% Fe Fines	799	832	782	698	813	792	798	109.79	113.41	106.43	93.21	113.29	109.35	110.17
IOPI65	65% Fe Fines	1003	1036	991	916	981	993	992	137.36	140.49	134.47	122.23	136.05	136.72	136.43

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

## FREIGHT RATES

Jun 2nd, 2023		CFR Qingdao, USD/dry tonne							Jun 1st, 2023						
Index	Fe Content	February	March	April	May	MTD	QTD	YTD	FREIGHT RATES - DRY BULK US\$/wet tonne						
Index	Fe Content	February	March	April	May	MTD	QTD	YTD	Route	Designation	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>	
IOSI62	62% Fe Fines	127.73	134.77	144.76	108.53	112.14	113.97	123.45	W. Australia - Qingdao	C5	7.55	0.14	1.82%	3.57	16.77
IOSI65	65% Fe Fines	138.06	145.14	147.67	127.20	122.86	125.08	139.45	Tubarao - Qingdao	C3	18.07	-0.50	-2.67%	6.70	36.40

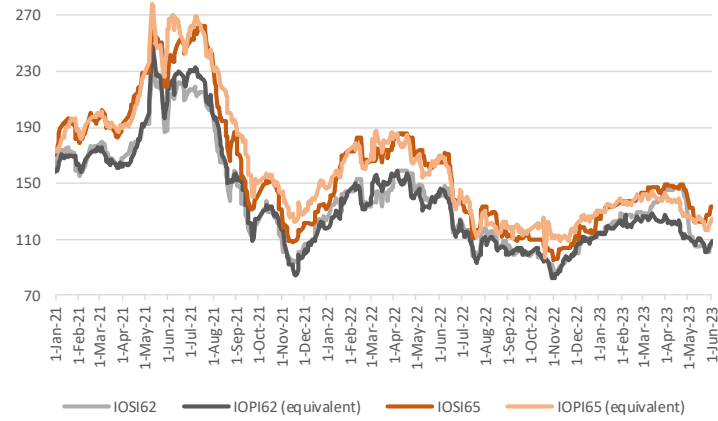
## IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Jun 2nd, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	February	March	April	May	MTD	QTD	YTD	February	March	April	May	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	988	1012	983	919	925	924	1032	129.95	131.15	132.68	117.67	119.39	119.98	137.99

## IRON ORE INDEX PREMIUMS/DISCOUNTS

Jun 2nd, 2023		PORT STOCK INDEX (RMB/WT)		Jun 2nd, 2023		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	-135	-16.21%	IOSI65	65% Fe Fines	27.80	26.28%
IOPI65	65% Fe Fines	111	13.33%				

## IRON ORE INDEX COMPARISONS (USD/DMT)



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



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

Jun 2nd, 2023				Jun 2nd, 2023			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	776	14	-57	Roy Hill	101.30	0.00	-4.50
SIMEC Fines	704	14	-129	SIMEC Fines	97.80	0.00	-8.00
PB Fines	802	14	-31	PB Fines	102.05	0.00	-3.75
Newman Fines	801	14	-32	Newman Fines	104.95	0.00	-0.85
MAC Fines	783	14	-50	MAC Fines	102.05	0.00	-3.75
Jimblebar Blended Fines	698	15	-135	Jimblebar Blended Fines	94.45	0.00	-11.35
Carajas Fines	1013	14	180	Carajas Fines	135.35	0.00	29.55
Brazilian SSF	796	14	-37	Brazilian SSF	109.55	0.00	3.75
Brazilian Blend Fines	815	14	-18	Brazilian Blend Fines	111.20	0.00	5.40
RTX Fines	716	14	-117	RTX Fines	95.70	0.00	-10.10
West Pilbara Fines	744	13	-89	West Pilbara Fines	100.05	0.00	-5.75

Jun 2nd, 2023			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	698	6	0
FMG Blended Fines	707	6	9
Robe River	707	6	9
Western Fines	710	6	12
Atlas Fines	704	6	6
Yandi	691	5	-7

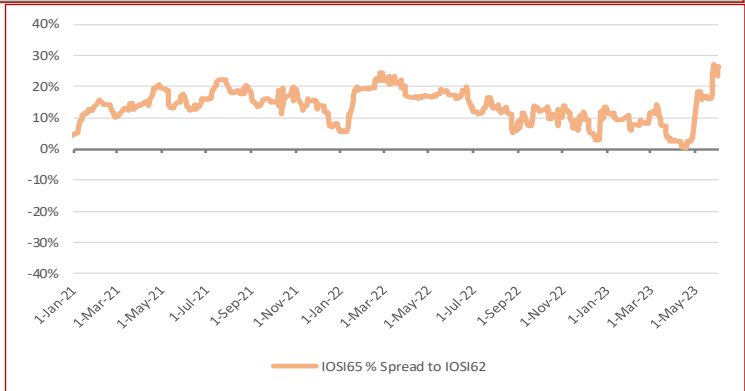
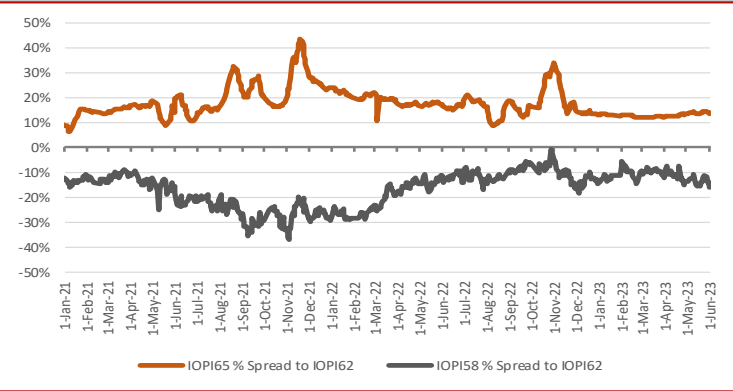
## IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	7.00	0.00	1% Fe	High Grade Fe 60 - 63%	1.50	0.00
	High Grade Fe 63 - 64%	5.00	0.00		High Grade Fe 63 - 64%	9.00	0.00
	High Grade Fe 64 - 65%	5.00	0.00		High Grade Fe 64 - 65%	9.00	0.00
	High Grade Fe 65 - 65.5%	5.00	0.00		High Grade Fe 65 - 65.5%	9.00	0.00
1% Alumina	Low Grade Fe	32.00	-2.00	1% Alumina	High Fe Grade Al <2.25%	1.00	0.00
	High Fe Grade Al <2.25%	30.00	8.00		High Fe Grade Al 2.25-4%	1.25	0.00
	High Fe Grade Al 2.25-4%	5.00	0.00				
	Low Fe Grade Al <2.25%	12.00	7.00				
1% Silica	Low Fe Grade Al 2.25-4%	32.00	4.00	1% Silica	High Fe Grade Si <4%	3.00	1.00
	High Fe Grade Si <4%	58.00	0.00		High Fe Grade Si 4 - 6.5%	4.25	0.00
	High Fe Grade Si 4 - 6.5%	10.00	0.00				
0.01% Phosphorus	Low Fe Grade	26.00	-1.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	1.50	0.00
	High Fe Grade 0.09%<P<0.115%	7.00	-2.00		High Fe Grade 0.115%<P<0.15%	8.50	-0.25
	High Fe Grade 0.115%<P<0.15%	7.00	-2.00		Low Fe Grade 0.09<P<0.1%	5.00	0.00

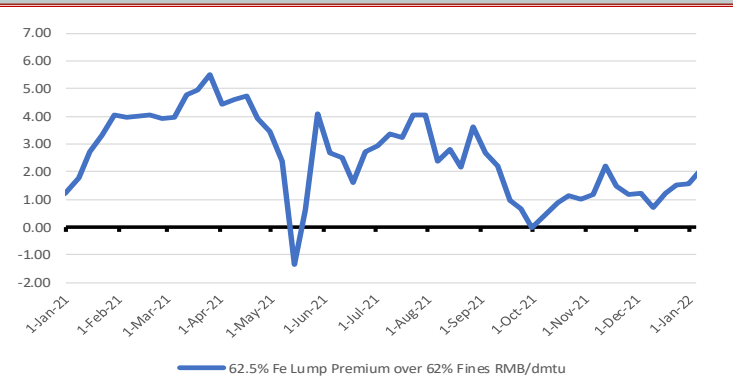
## Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-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	10.00	Jingtang	-30.00	0.00	Majishan	0.00	0.00	Taichang	-30.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-15.00	0.00

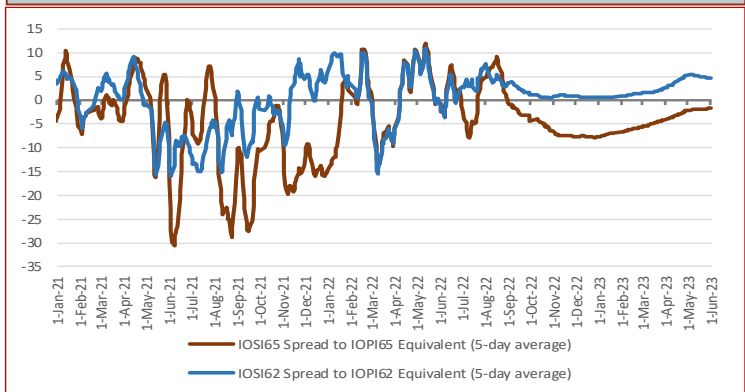
IRON ORE INDEX PREMIUMS/DISCOUNTS



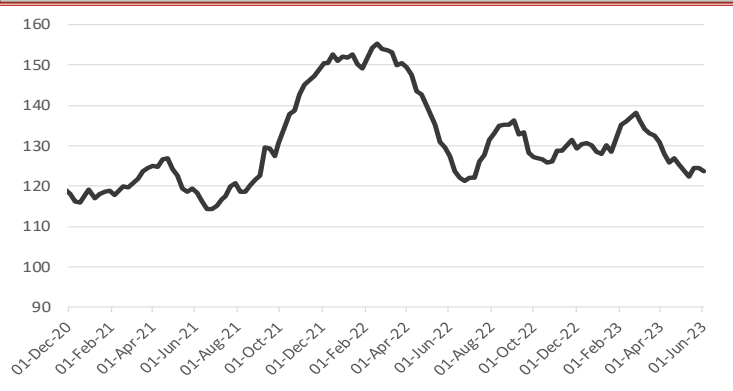
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



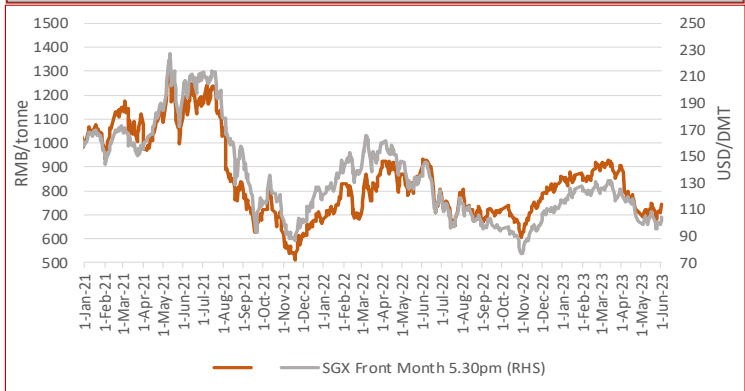
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



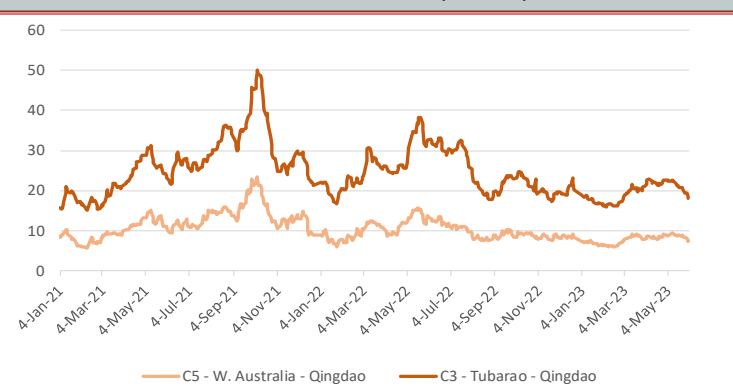
IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending Jun 2nd, 2023				
Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Jingtang	11.88	4.95%	9.84	19.20
Qingdao	24.45	-0.61%	9.41	26.24
Caofeidian	11.97	2.48%	9.05	16.29
Tianjin	8.38	-2.90%	7.14	12.97
Rizhao	16.87	-4.04%	9.44	19.26
<b>Total (35 Ports)</b>	<b>123.66</b>	<b>-0.59%</b>	<b>98.80</b>	<b>155.39</b>

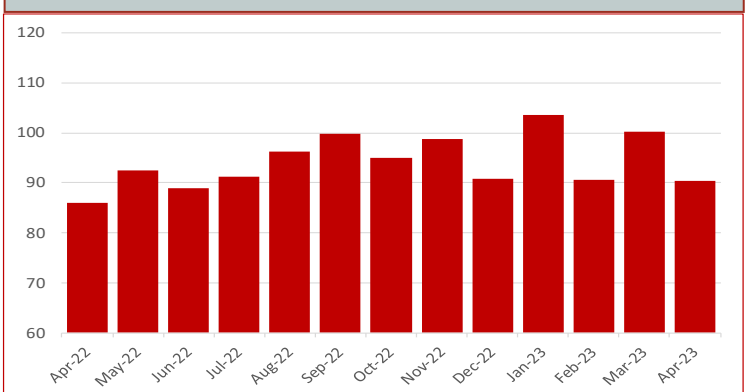
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Jun 2nd, 3pm close			Jun 2nd, 5:30pm		
Contract	12309	Change	Change %	Jun. 23	Change	Change %
Closing Price	745.50	2.50	0.34%	104.00	2.05	2.01%
Vol traded ('000 lots)	96.09	-9.66	-9.14%	1.98	-1.92	-49.19%
Open positions ('000 lots)	80.17	0.01	0.01%	26.49	-0.10	-0.37%
Day Low	732.0	27.50	3.90%	103.75	3.65	3.65%
Day High	755.5	11.00	1.48%	106.50	1.25	1.19%

DRY BULK FREIGHT RATES (USD/MT)



TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

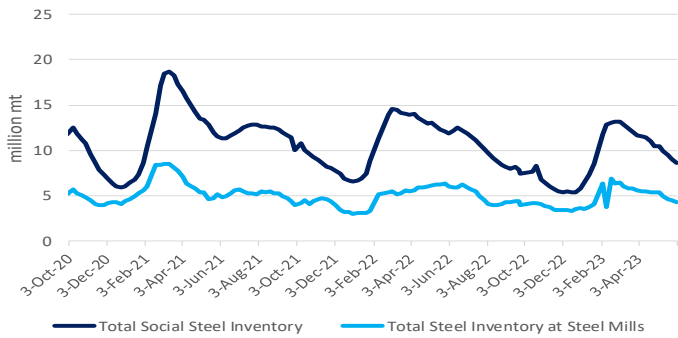
Product	2023/6/2	Change	Change %
ReBar HRB400 φ18mm	3,600	70	1.98%
Wirerod Q300 φ6.5mm	3,890	70	1.83%
HRC Q235/SS400 5.5mm*1500*C	3,790	40	1.07%
CRC SPCC/ST12 1.0mm*1250*2500	4,370	-20	-0.46%
Medium & Heavy Plate Q235B 20mm	3,940	-50	-1.25%
GI ST02Z 1.0mm*1000*C	4,720	-20	-0.42%
Colour Coated Plate	6,900	-50	-0.72%

CHINESE STEEL MILL PROFITABILITY

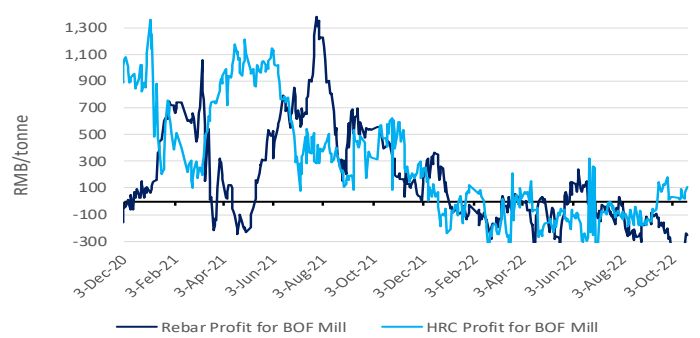
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)			
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	105.80	5	Mmi CFR Equivalent index for 1st Feb
Coke	2,210	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,830	80	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,137	79	Q234, incl. tax
Rebar cost - Blast furnace	3,579	89	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	39	69	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,600	91	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	220	-51	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

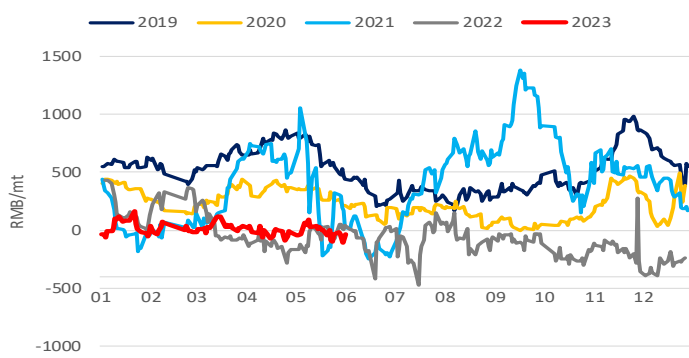
CHINESE STEEL INVENTORIES



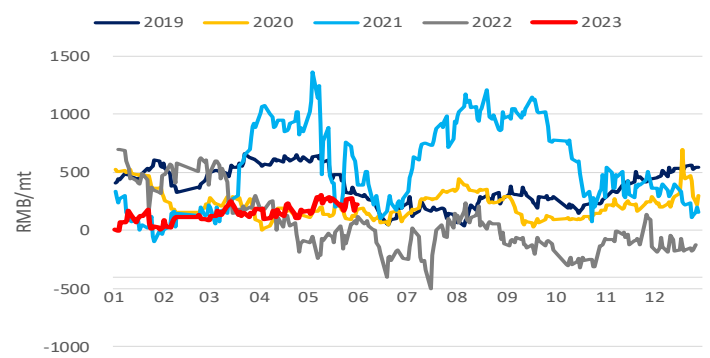
CHINESE STEEL MILL PROFITABILITY



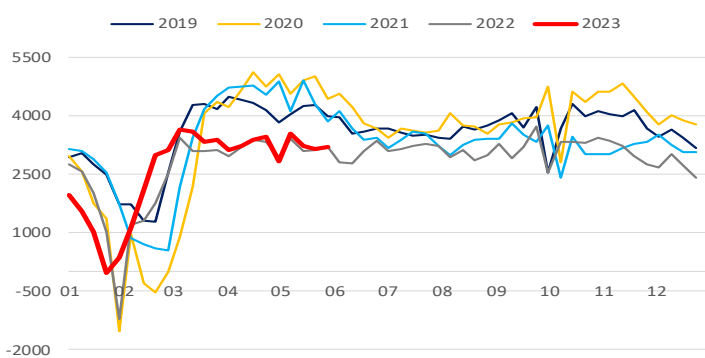
CHINESE STEEL MILL PROFITABILITY—Rebar



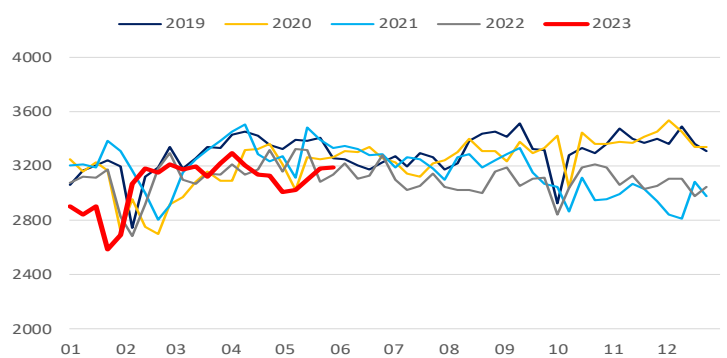
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



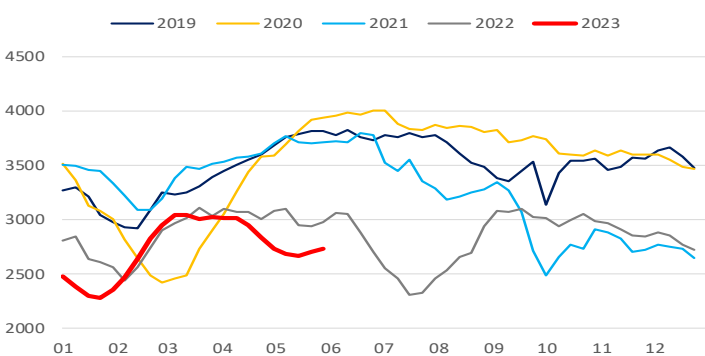
CHINESE STEEL CONSUMPTION—Rebar



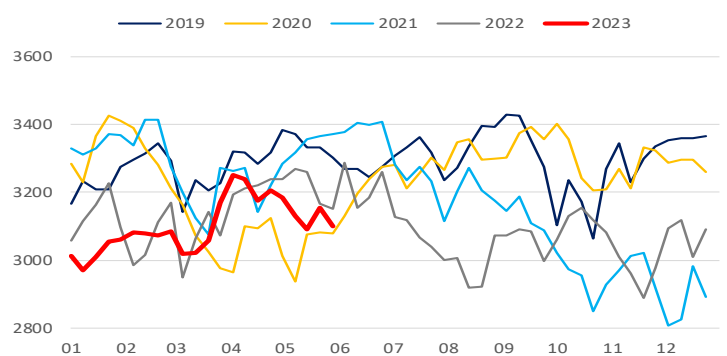
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



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					
Jun 2nd, 2023	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%
Jun 2nd, 2023	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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