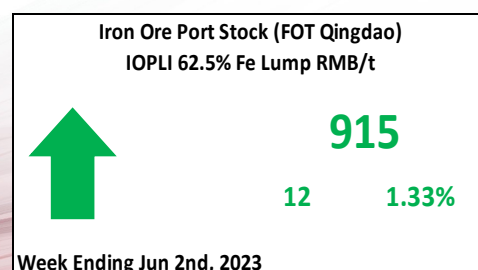
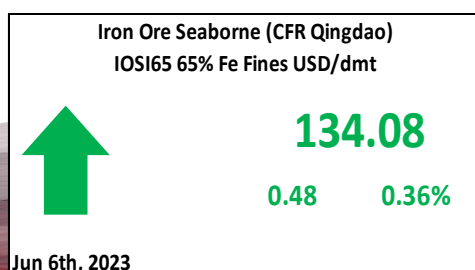
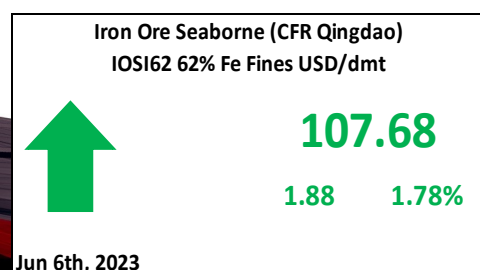
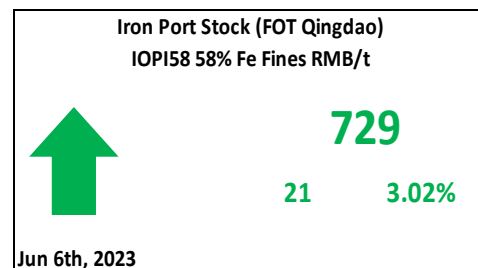
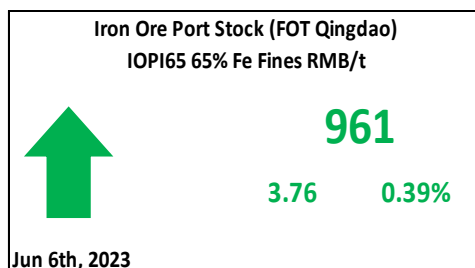
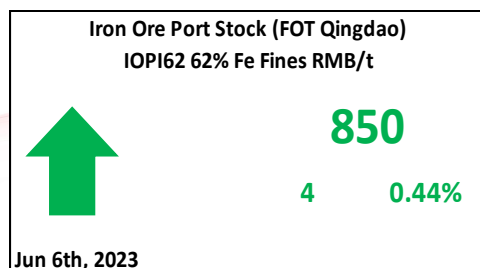


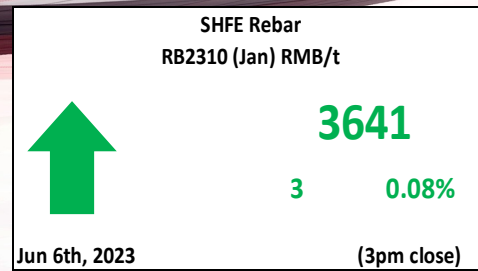
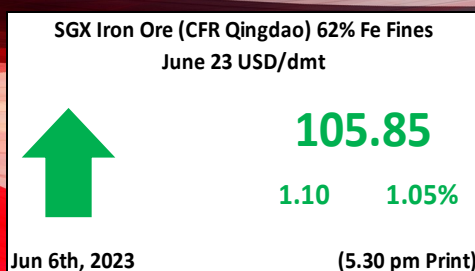
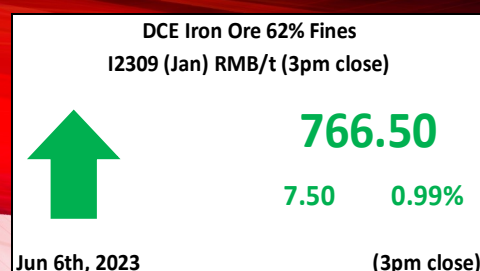


MMi Dashboard

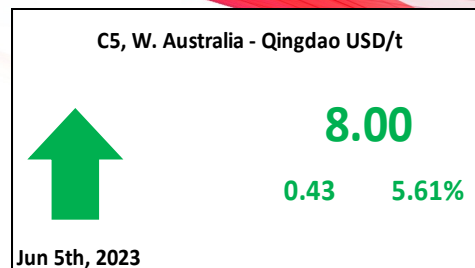
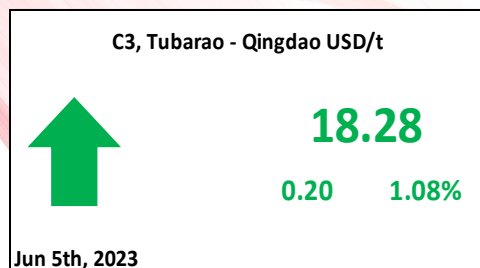
Iron Ore Price Indices



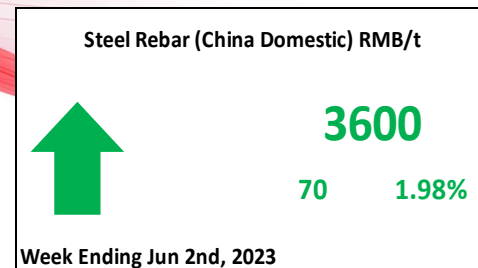
Exchange Traded Contracts



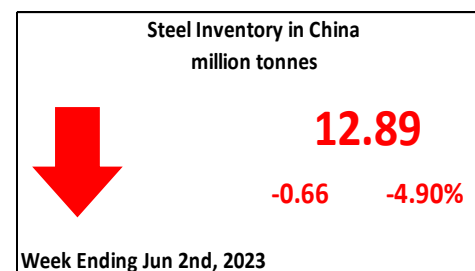
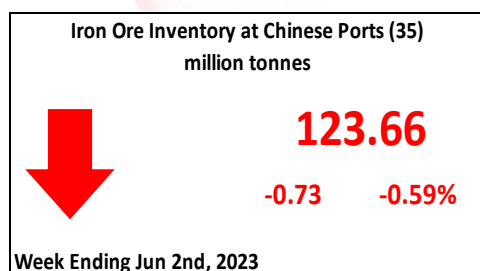
Freight Rates



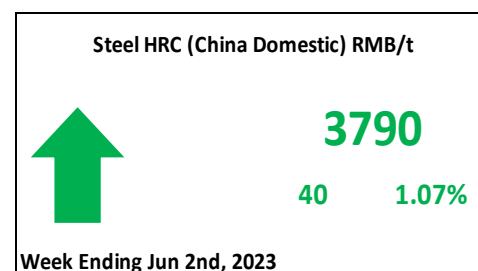
Steel Price



Inventory Levels



Steel Price



IRON ORE PORT STOCK INDEX (IOPI)

Jun 6th, 2023		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	850	4	0.4%	869	880	858	892	111.19	0.24	0.2%	120.06	120.58	117.93	122.93
IOPI58	58% Fe Fines	729	21	3.0%	813	798	761	793	95.90	2.70	2.9%	113.29	110.17	105.29	110.04
IOPI65	65% Fe Fines	961	4	0.4%	981	992	970	1003	126.30	0.21	0.2%	136.05	136.43	133.84	138.73

IRON ORE SEABORNE INDEX (IOSI)

MARKET COMMENTARY

Jun 6th, 2023		CFR Qingdao, USD/dry tonne							DCE iron ore futures tight , the main contract closed 766.5 , an increase of 1.32% throughout the day, some traders were active to sell, Some steel mills tended to be wait-and-see, and purchasing enthusiasm is not high. total transactions remained insipid. PBF at Shandong port dealt 820-830 yuan/mt; increased 5-10 yuan/mt over yesterday. SSF at Shandong port dealt 690-695 yuan/mt; increased 7-12 yuan/mt over yesterday. PBF at Tangshan port dealt 845 yuan/mt; increased 10 yuan/mt over yesterday. Recently, the market has strong expectations for real estate and economic growth measures in the near future. The recent environmental restrictions on production in Hebei Tangshan and Hebei Qinhuangdao have driven up steel prices and provided some support for mining prices. In addition, the latest blast furnace maintenance data from SMM yesterday showed that there are still 12 blast furnaces planned to resume production in June, and there is still room for growth in overall molten iron production. The demand for iron ore is still strong, and there has been no significant increase in imported ore arrival at the port. Port inventory is still in a state of destocking, and short-term ore prices may continue to fluctuate.
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	
IOSI62	62% Fe Fines	107.68	1.88	1.78%	114.26	123.36	83.90	146.75	
IOSI65	65% Fe Fines	134.08	0.48	0.36%	125.20	139.42	94.45	170.35	

IRON ORE PORT LUMP INDEX (IOPLI)

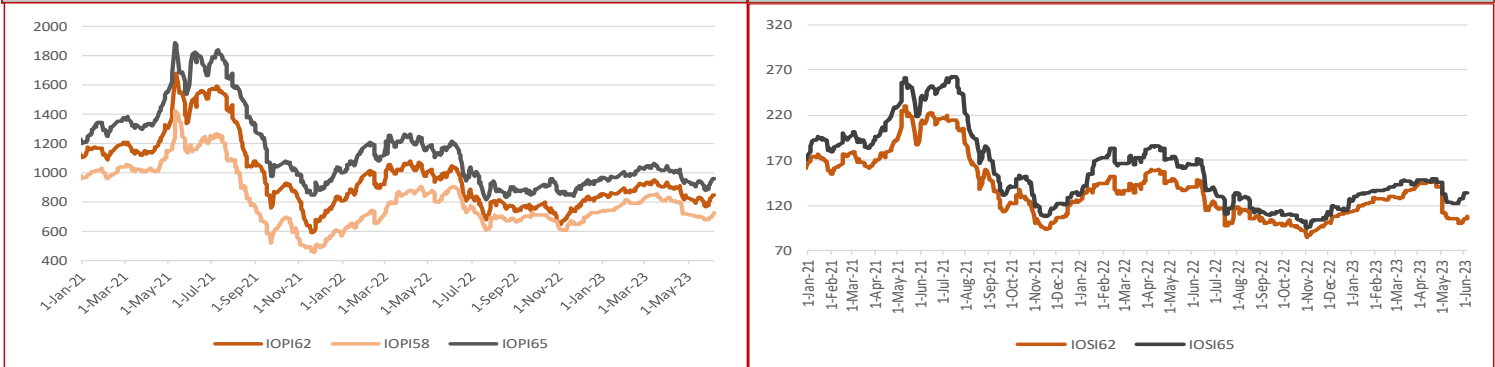
Week Ending Jun 2nd, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ³						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	915	12	1.3%	926	1024	770	1275	115.45	0.98	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) 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	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 ²	High ²	¹ Exchange rate applied: RMB/USD = 6.7522 ² Last 12 months				
China Mines Concentrate Composite Index RMB/WT				857.13	-1.30%	706.36	1511.22	³ 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 6th, 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 6th, 2023		CFR Qingdao, USD/dry tonne							FREIGHT RATES - DRY BULK US\$/wet tonne						
Index	Fe Content	February	March	April	May	MTD	QTD	YTD	Route	Designation	Change	Change %	Low ²	High ²	
IOSI62	62% Fe Fines	127.73	134.77	144.76	108.53	112.14	113.91	123.36	W. Australia - Qingdao	C5	8.00	0.43	5.61%	3.57	16.77
IOSI65	65% Fe Fines	138.06	145.14	147.67	127.20	122.86	125.15	139.42	Tubarao - Qingdao	C3	18.28	0.20	1.08%	6.70	36.40

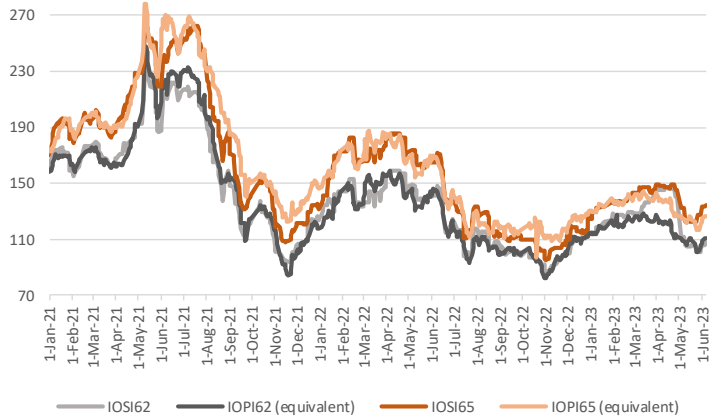
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Jun 2nd, 2023		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
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 6th, 2023		PORT STOCK INDEX (RMB/WT)		Jun 6th, 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	-121	-14.21%	IOSI65	65% Fe Fines	26.40	24.52%
IOPI65	65% Fe Fines	112	13.15%				

IRON ORE INDEX COMPARISONS (USD/DMT)



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



IRON ORE BRAND SPOT PRICE ASSESSMENTS

Jun 6th, 2023				Jun 6th, 2023			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	793	4	-57	Roy Hill	103.15	1.85	-4.53
SIMEC Fines	722	4	-128	SIMEC Fines	99.65	1.85	-8.03
PB Fines	818	4	-32	PB Fines	103.90	1.85	-3.78
Newman Fines	819	4	-31	Newman Fines	106.75	1.80	-0.93
MAC Fines	800	4	-50	MAC Fines	104.00	1.95	-3.68
Jimblebar Blended Fines	715	4	-135	Jimblebar Blended Fines	96.30	1.85	-11.38
Carajas Fines	1030	4	180	Carajas Fines	137.20	1.85	29.52
Brazilian SSF	814	5	-36	Brazilian SSF	111.45	1.90	3.77
Brazilian Blend Fines	832	4	-18	Brazilian Blend Fines	113.00	1.80	5.32
RTX Fines	733	4	-117	RTX Fines	97.50	1.80	-10.18
West Pilbara Fines	761	4	-89	West Pilbara Fines	102.00	1.95	-5.68
Jun 6th, 2023							
PORT STOCK INDEX (RMB/WT)							
	Price	Change	Diff to IOPI58				
SSF	729	22	0				
FMG Blended Fines	738	22	9				
Robe River	739	23	10				
Western Fines	741	22	12				
Atlas Fines	736	23	7				
Yandi	722	22	-7				

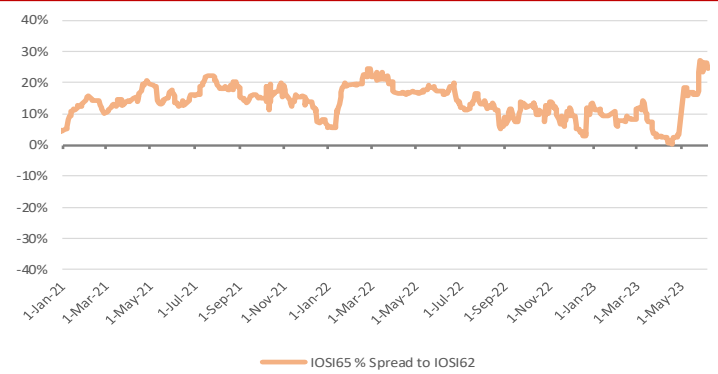
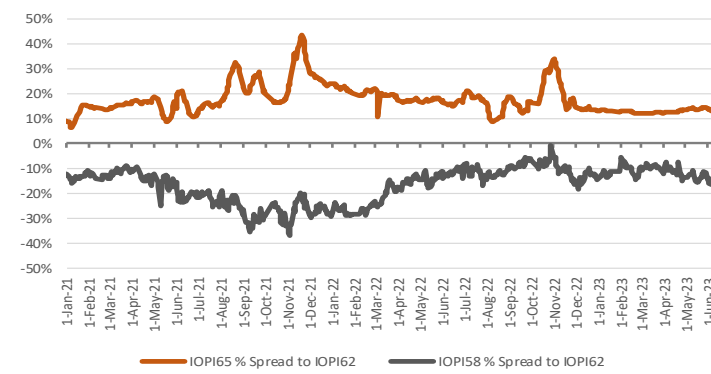
IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	9.00	1.00	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
	Low Grade Fe	29.00	-2.00	1% Alumina	High Fe Grade Al <2.25%	1.00	0.00
1% Alumina	High Fe Grade Al <2.25%	42.00	7.00		High Fe Grade Al 2.25-4%	1.25	0.00
	High Fe Grade Al 2.25-4%	5.00	0.00		High Fe Grade Si <4%	3.00	0.00
	Low Fe Grade Al <2.25%	25.00	6.00		High Fe Grade Si 4 - 6.5%	4.25	0.00
	Low Fe Grade Al 2.25-4%	32.00	0.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	1.50	0.00
1% Silica	High Fe Grade Si <4%	45.00	-6.00		High Fe Grade 0.115%<P<0.15%	8.50	0.00
	High Fe Grade Si 4 - 6.5%	7.00	-3.00		Low Fe Grade 0.09<P<0.1%	5.00	0.00
	Low Fe Grade	22.00	-3.00				

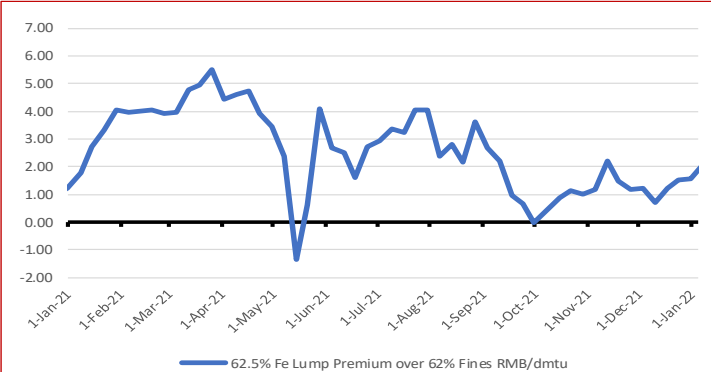
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

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	0.00	Jingtang	-30.00	0.00	Majishan	0.00	0.00	Taicang	-30.00	0.00
Dalian	0.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-15.00	0.00

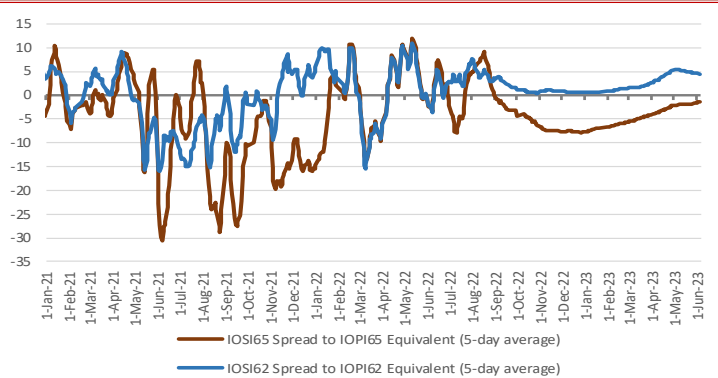
IRON ORE INDEX PREMIUMS/DISCOUNTS



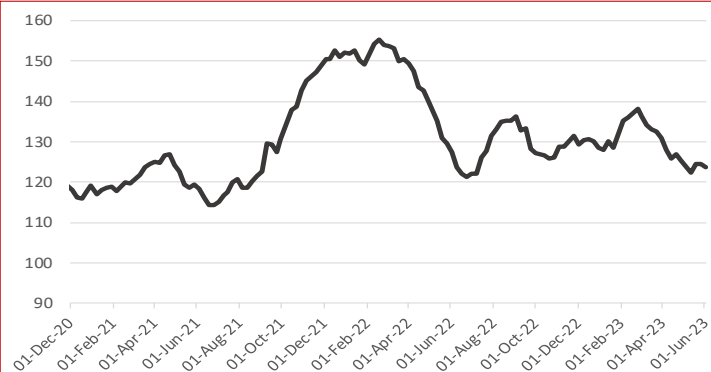
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



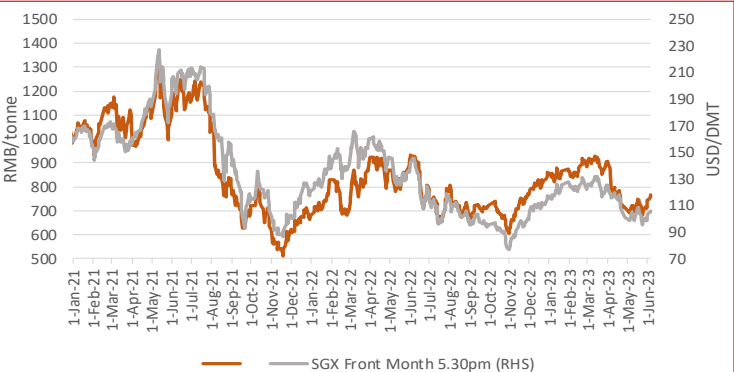
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

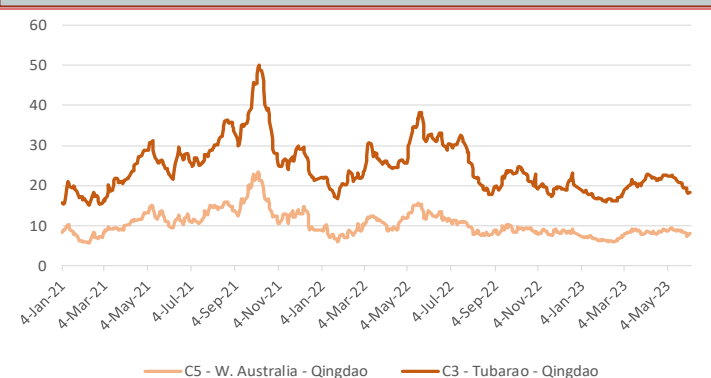
Week Ending Jun 2nd, 2023

Province	This week	Change %	Low ²	High ²
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
Total (35 Ports)	123.66	-0.59%	98.80	155.39

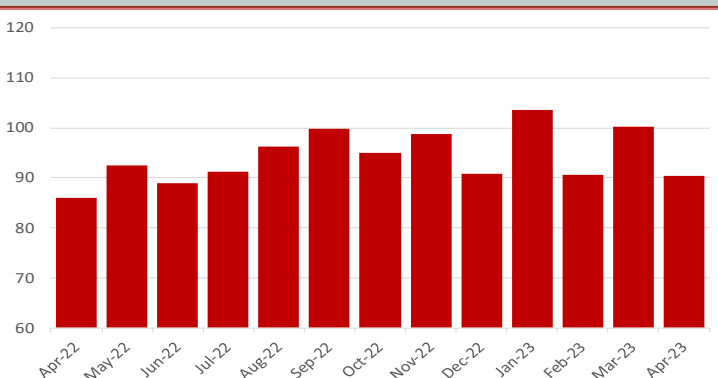
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Jun 6th, 3pm close			Jun 6th, 5:30pm		
Contract	I2309	Change	Change %	Jun. 23	Change	Change %
Closing Price	766.50	7.50	0.99%	105.85	1.10	1.05%
Vol traded ('000 lots)	99.02	8.45	9.33%	2.64	1.22	85.99%
Open positions ('000 lots)	85.38	1.67	2.00%	26.31	-0.26	-0.97%
Day Low	755.0	8.50	1.14%	107.05	1.15	1.09%
Day High	782.5	12.50	1.62%	110.35	-0.05	-0.05%

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	2023/6/2	Change	Change %
ReBar HRB400 ϕ 18mm	3,600	70	1.98%
Wirerod Q300 ϕ 6.5mm	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%

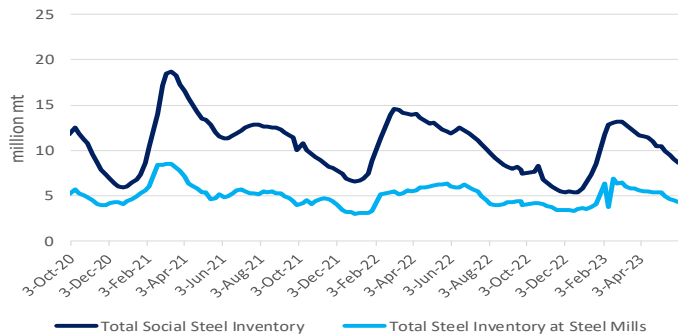
CHINESE STEEL MILL PROFITABILITY

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

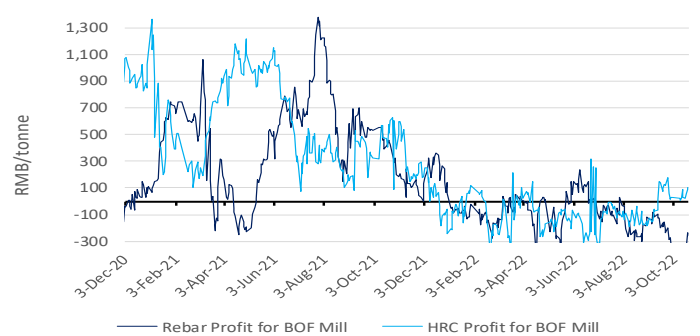
Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt excluding tax	105.80	5	Mmi CFR Equivalent index for 1st Feb
Coke	2,210	0	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,830	80	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,137	79	Q234, incl. tax
Rebar cost - Blast furnace	3,579	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

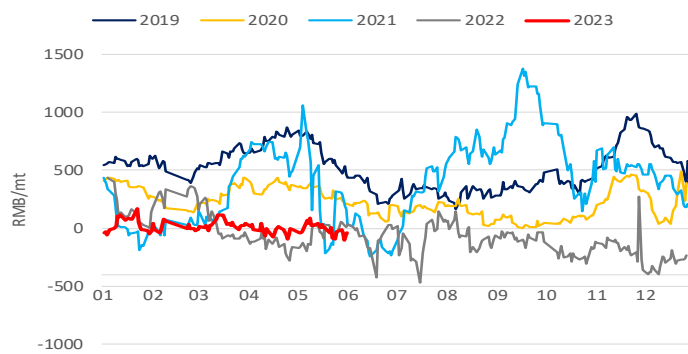
CHINESE STEEL INVENTORIES



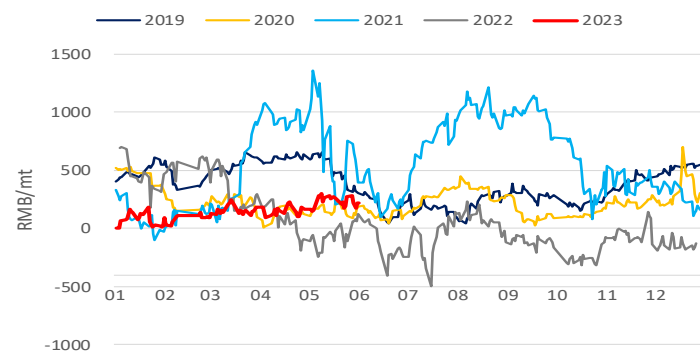
CHINESE STEEL MILL PROFITABILITY



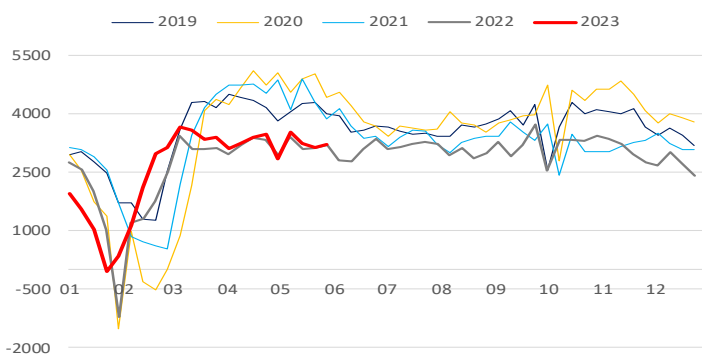
CHINESE STEEL MILL PROFITABILITY—Rebar



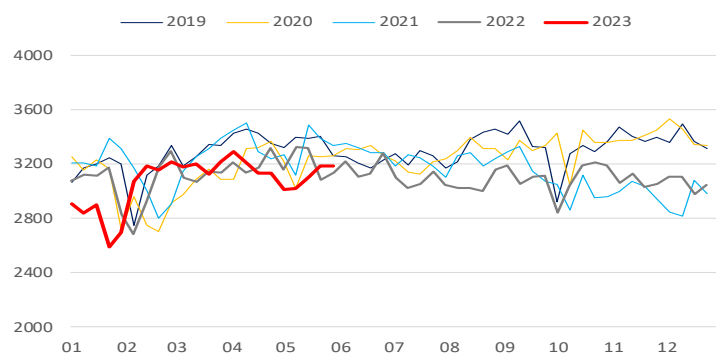
CHINESE STEEL MILL PROFITABILITY—Hot-rolled Coil



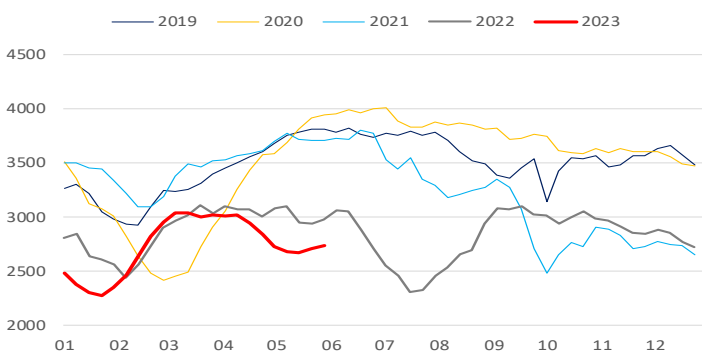
CHINESE STEEL CONSUMPTION—Rebar



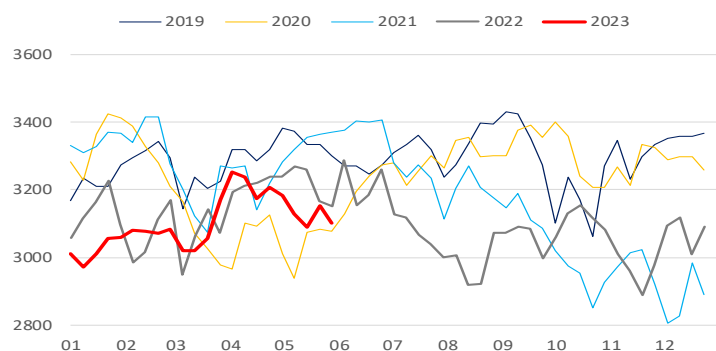
CHINESE STEEL CONSUMPTION—Hot-rolled Coil



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																				
Fe %	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																				
Alumina %	65.00	62.00	58.00	62.50																					
Silica%	1.40	2.25	2.25	1.50																					
Phosphorus %	1.50	4.00	5.50	3.50																					
Sulphur %	0.06	0.09	0.05	0.08																					
Moisture %	0.01	0.02	0.02	0.02																					
	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																					
					<table><tr><th colspan="4">Data Exclusions*</th></tr><tr><td></td><th>62%</th><th>58%</th><th>65%</th></tr><tr><td>Port Index</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Seaborne index</td><td>0</td><td></td><td>0</td></tr><tr><td>Lump Index 62.5</td><td>0</td><td></td><td></td></tr></table>	Data Exclusions*					62%	58%	65%	Port Index	0	0	0	Seaborne index	0		0	Lump Index 62.5	0		
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					
Jun 6th, 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 6th, 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	IOSI62	IRCN0034
IOPI58	IRCNQ002	IRCNQ005	IOSI65	IRCN0035
IOPI65	IRCNQ003	IRCNQ006		
IOPLI62	IRCN0036	IRCN0037		

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