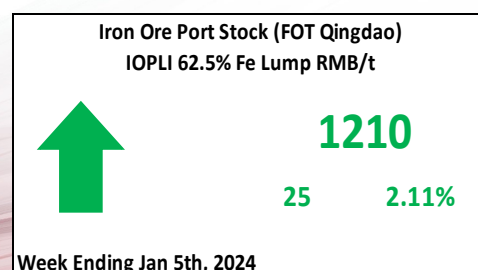
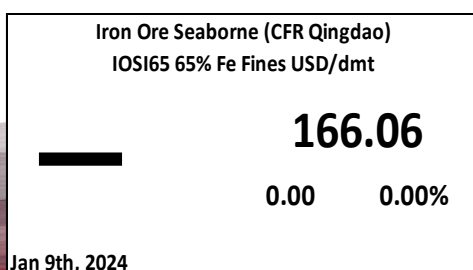
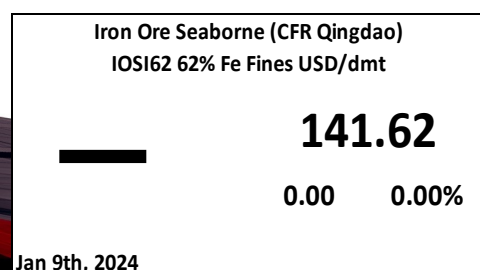
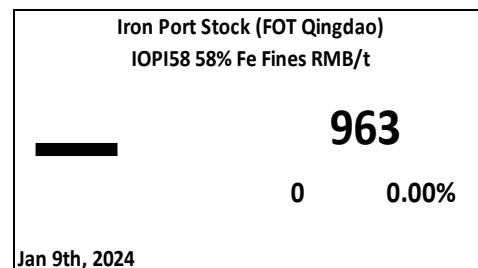
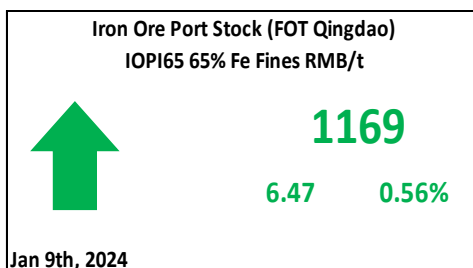
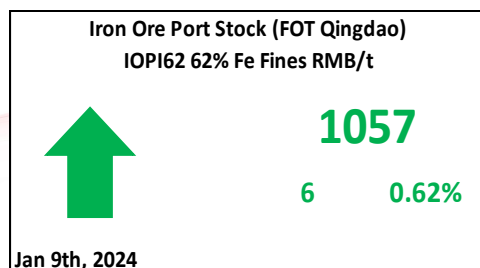


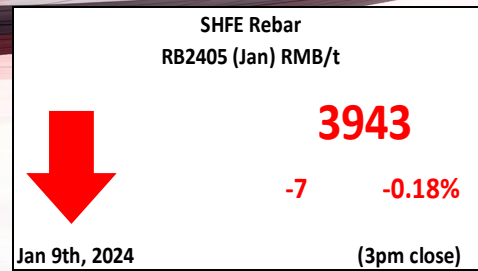
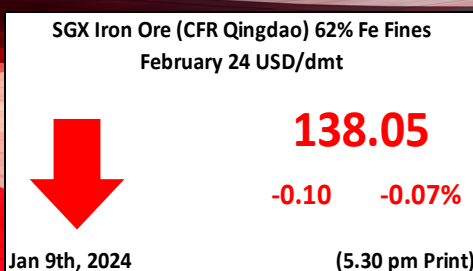
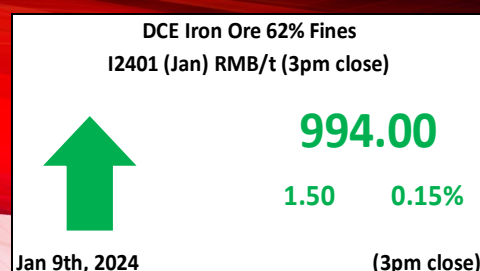


MMi Dashboard

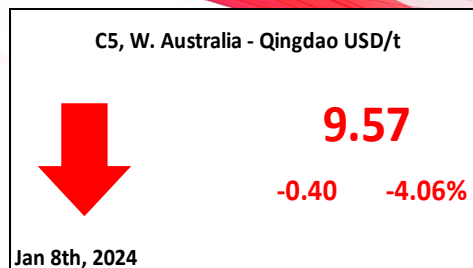
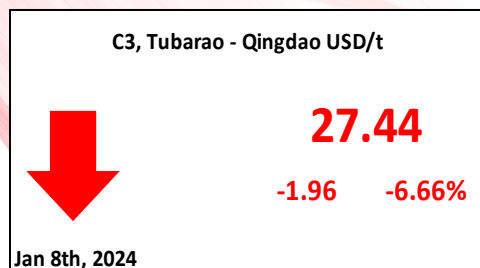
Iron Ore Price Indices



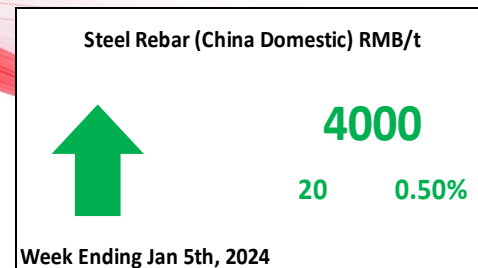
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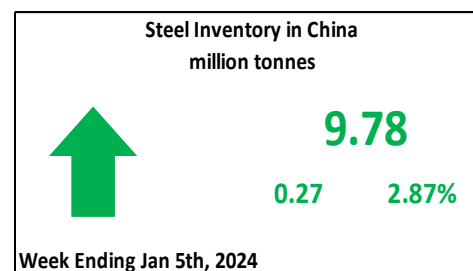
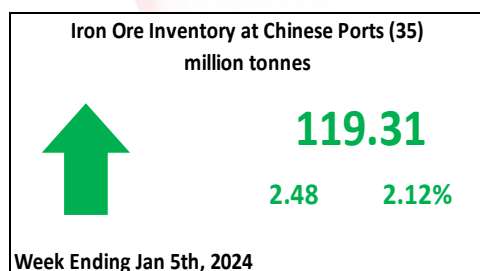
Freight Rates



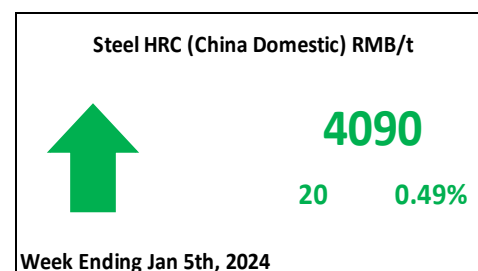
Steel Price



Inventory Levels



Steel Price



IRON ORE PORT STOCK INDEX (IOPI)

Jan 9th, 2024		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	1057	6.5	0.62%	868	887	770	1063	139.37	-0.53	-0.4%	114.91	120.34	100.95	140.24
IOPI58	58% Fe Fines	963	0.0	0.00%	772	772	680	963	128.06	-0.05	0.0%	102.88	105.06	89.86	128.13
IOPI65	65% Fe Fines	1169	6.5	0.56%	985	1020	881	1175	154.50	-0.53	-0.3%	130.80	139.02	116.19	155.37

IRON ORE SEABORNE INDEX (IOSI)

MARKET COMMENTARY

Jan 9th, 2024		CFR Qingdao, USD/dry tonne							DCE iron ore futures fell today by 0.25%, the main contract I2405 closed 994. Traders ship according to market conditions; Some steel mills tended to be wait-and-see, and purchased on demand. PBF at Shandong port dealt 1040-1043 yuan/mt; the same as yesterday; PBF at Tangshan port dealt 1060 yuan/mt; the same as yesterday; According to the blast furnace maintenance data tracked and researched by SMM yesterday, as the Spring Festival approaches and steel mills experience losses, some steel mills have increased their blast furnace maintenance plans. This week (January 6th to January 12th), the impact of blast furnace maintenance on molten iron was 2.1247 million tons, an increase of 3700 tons compared to last week's maintenance. This week's molten iron production reached a new low in the second half of the year. The demand for iron ore has declined. The pace of steel mills replenishing inventory before the holiday is relatively slow, and spot transactions continue to be low. The mining price fluctuates weakly. Recently, winter storage policies for steel mills have been gradually relaxed, with a focus on winter storage replenishment and financial data in the later stage.						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²							
IOSI62	62% Fe Fines	141.62	0.00	0.00%	115.82	115.82	99.20	146.75							
IOSI65	65% Fe Fines	166.06	0.00	0.00%	129.79	129.79	115.45	168.37							

IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending Jan 5th, 2024		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	1210	25	2.1%	983	1036	903	1210	153.57	3.26	2.17%	125.61	136.01	114.47	153.57

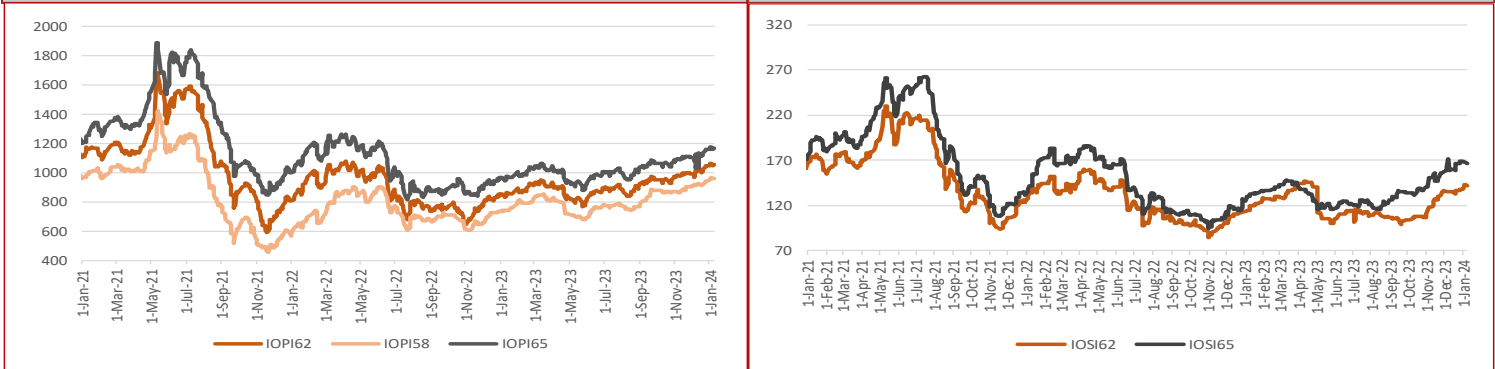
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending Jan 5th, 2024				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	1211	2.6%	779	1645	170.68	2.64%	110.31	255.69
Hebei	Qian'an	65% Fe Concentrate	Dry	1300	3.2%	780	1630	183.23	3.18%	110.51	251.57
Liaoning	Anshan	65% Fe Concentrate	Wet	970	3.2%	620	1310	136.72	3.20%	87.40	202.32
Shandong	Zibo	65% Fe Concentrate	Dry	1277	2.8%	800	1752	179.99	2.83%	0.00	272.32
Week Ending Jan 5th, 2024				This week	Change %	Low ²	High ²				
China Mines Concentrate Composite Index RMB/WT				1136.82	2.28%	706.36	1511.22				

¹ Exchange rate applied: RMB/USD = 6.7522 ² Last 12 months
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

Jan 9th, 2024		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	September	October	November	December	MTD	QTD	YTD	September	October	November	December	MTD	QTD	YTD
IOPI62	62% Fe Fines	945	947	988	1017	868	863	887	122.79	123.14	129.07	133.85	114.91	114.39	120.34
IOPI58	58% Fe Fines	838	869	884	924	772	767	772	109.67	113.94	116.42	122.63	102.88	102.37	105.06
IOPI65	65% Fe Fines	1057	1059	1100	1124	985	981	1020	137.74	138.13	144.10	148.34	130.80	130.55	139.02

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

FREIGHT RATES

Jan 9th, 2024		CFR Qingdao, USD/dry tonne							Jan 8th, 2024		FREIGHT RATES - DRY BULK US\$/wet tonne				
Index	Fe Content	September	October	November	December	MTD	QTD	YTD	Route	Designation	Change	Change %	Low ²	High ²	
IOSI62	62% Fe Fines	104.25	106.44	124.61	135.51	112.14	114.64	115.82	W. Australia - Qingdao	C5	9.57	-0.40	-4.06%	3.57	16.77
IOSI65	65% Fe Fines	132.40	135.69	150.46	161.63	122.86	128.31	129.79	Tubarao - Qingdao	C3	27.44	-1.96	-6.66%	6.70	36.40

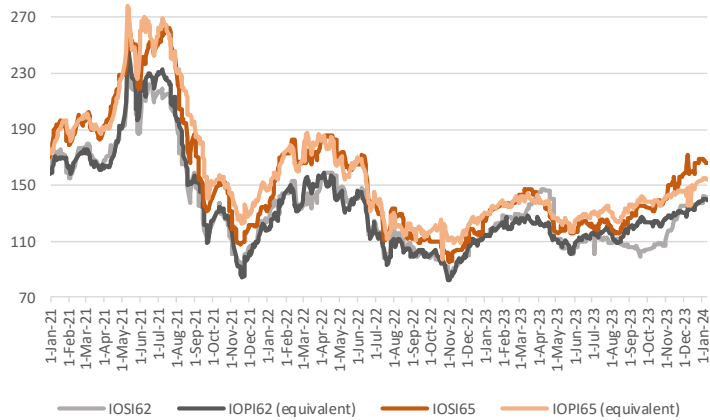
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending Jan 5th, 2024		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	September	October	November	December	MTD	QTD	YTD	September	October	November	December	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	1043	1113	1155	1177	933	978	1017	130.25	139.38	145.07	149.11	119.96	125.16	134.98

IRON ORE INDEX PREMIUMS/DISCOUNTS

Jan 9th, 2024		PORT STOCK INDEX (RMB/WT)		Jan 9th, 2024		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	-94	-8.87%	IOSI65	65% Fe Fines	24.44	17.26%
IOPI65	65% Fe Fines	112	10.57%				

IRON ORE INDEX COMPARISONS (USD/DMT)



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



IRON ORE BRAND SPOT PRICE ASSESSMENTS

Jan 9th, 2024				Jan 9th, 2024			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	1000	7	-57	Roy Hill	137.10	0.00	-4.52
SIMEC Fines	933	7	-124	SIMEC Fines	133.60	0.00	-8.02
PB Fines	1023	8	-34	PB Fines	137.85	0.00	-3.77
Newman Fines	1027	7	-30	Newman Fines	140.75	0.00	-0.87
MAC Fines	1007	7	-50	MAC Fines	137.85	0.00	-3.77
Jimblebar Blended Fines	923	6	-134	Jimblebar Blended Fines	130.25	0.00	-11.37
Carajas Fines	1238	7	181	Carajas Fines	171.15	0.00	29.53
Brazilian SSF	1025	7	-32	Brazilian SSF	145.35	0.00	3.73
Brazilian Blend Fines	1036	7	-21	Brazilian Blend Fines	146.95	0.00	5.33
RTX Fines	941	7	-116	RTX Fines	131.45	0.00	-10.17
West Pilbara Fines	967	7	-90	West Pilbara Fines	135.85	0.00	-5.77
Jan 9th, 2024							
PORT STOCK INDEX (RMB/WT)							
	Price	Change	Diff to IOPI58				
SSF	961	-1	-2				
FMG Blended Fines	973	-1	10				
Robe River	974	-1	11				
Western Fines	977	-1	14				
Atlas Fines	970	-1	7				
Yandi	952	-1	-11				

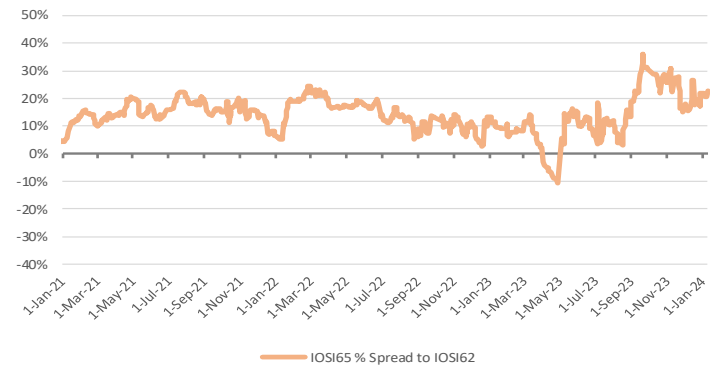
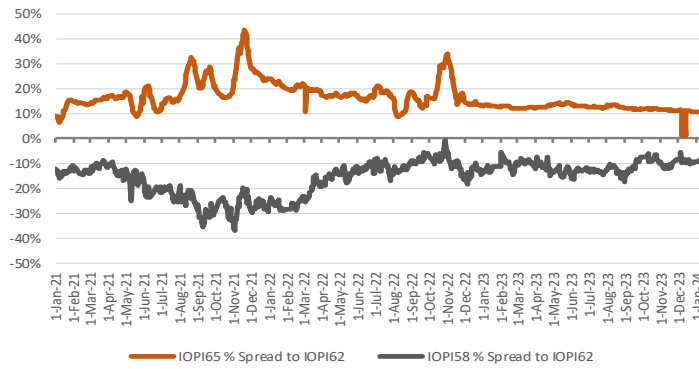
IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	26.00	0.00	1% Fe	High Grade Fe 60 - 63%	10.00	0.00
	High Grade Fe 63 - 64%	25.00	0.00		High Grade Fe 63 - 64%	10.00	0.00
	High Grade Fe 64 - 65%	25.00	0.00		High Grade Fe 64 - 65%	10.00	0.00
	High Grade Fe 65 - 65.5%	25.00	0.00		High Grade Fe 65 - 65.5%	10.00	0.00
1% Alumina	Low Grade Fe	8.00	-2.00	1% Alumina	High Fe Grade Al <2.25%	3.25	0.25
	High Fe Grade Al <2.25%	32.00	5.00		High Fe Grade Al 2.25-4%	1.00	-0.25
	High Fe Grade Al 2.25-4%	5.00	0.00				
	Low Fe Grade Al <2.25%	25.00	-5.00				
1% Silica	Low Fe Grade Al 2.25-4%	5.00	0.00	1% Silica	High Fe Grade Si <4%	2.25	0.25
	High Fe Grade Si <4%	19.00	0.00		High Fe Grade Si 4 - 6.5%	2.25	0.25
	High Fe Grade Si 4 - 6.5%	5.00	0.00				
	Low Fe Grade	5.00	-1.00				
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	6.00	-1.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.50	0.00
	High Fe Grade 0.115%<P<0.15%	6.00	-1.00		High Fe Grade 0.115%<P<0.15%	2.25	-0.25
	Low Fe Grade 0.09<P<0.1%	5.00	0.00				

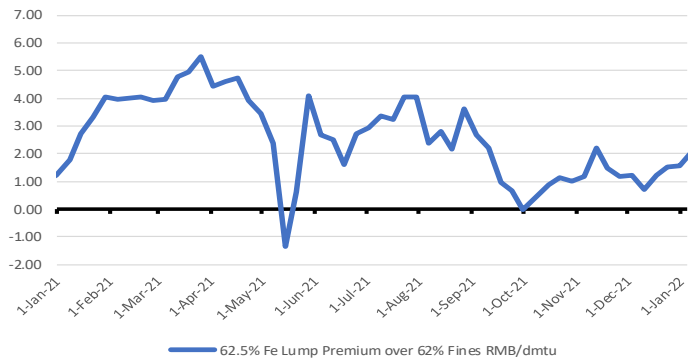
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

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	-20.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-20.00	0.00	Jingtang	-20.00	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	-40.00	0.00

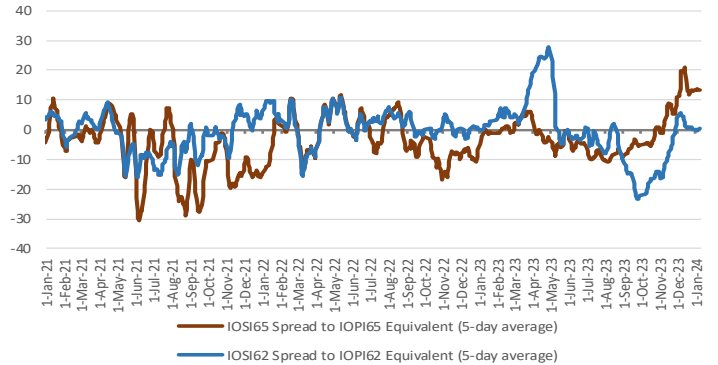
IRON ORE INDEX PREMIUMS/DISCOUNTS



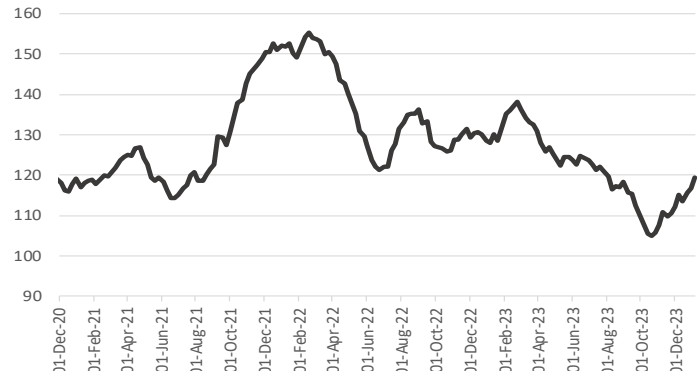
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



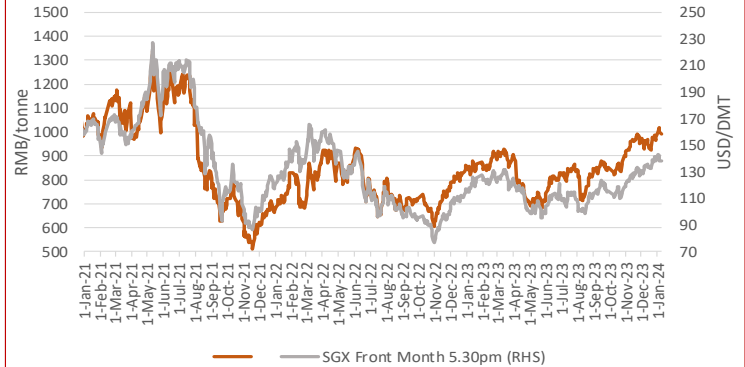
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

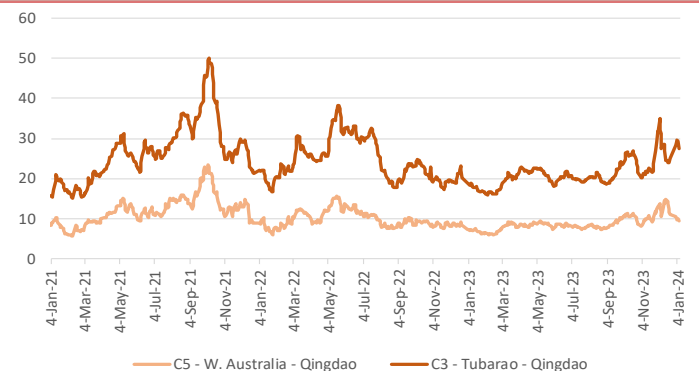
Week Ending Jan 5th, 2024

Province	This week	Change %	Low ²	High ²
Jingtang	9.74	3.51%	8.41	19.20
Qingdao	23.27	1.31%	9.41	26.24
Caofeidian	11.11	1.00%	7.56	16.29
Tianjin	9.17	-1.08%	6.49	12.97
Rizhao	14.74	-0.20%	9.44	19.26
Total (35 Ports)	119.31	2.12%	98.80	155.39

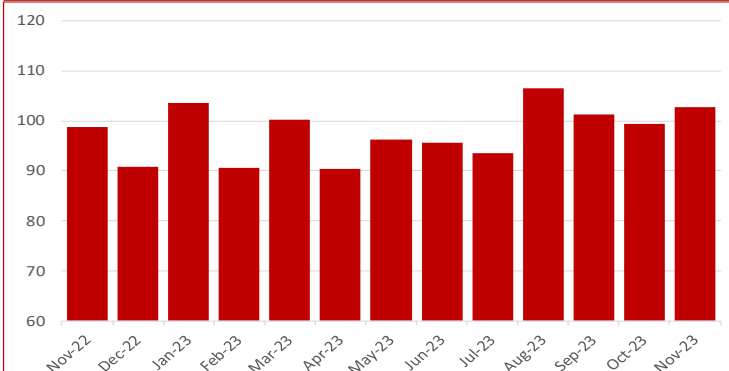
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Jan 9th, 3pm close			Jan 9th, 5:30pm		
Contract	I2405	Change	Change %	Feb. 24	Change	Change %
Closing Price	994.00	1.50	0.15%	138.05	-0.10	-0.07%
Vol traded ('000 lots)	25.56	-1.80	-6.57%	6.47	0.95	17.13%
Open positions ('000 lots)	54.10	-0.01	-0.01%	39.41	0.32	0.82%
Day Low	984.0	-4.00	-0.40%	136.90	0.10	0.07%
Day High	1001.5	-8.00	-0.79%	138.50	-0.85	-0.61%

DRY BULK FREIGHT RATES (USD/MT)



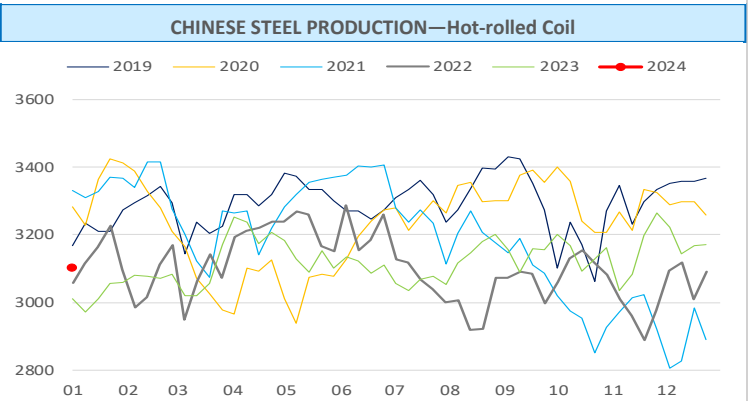
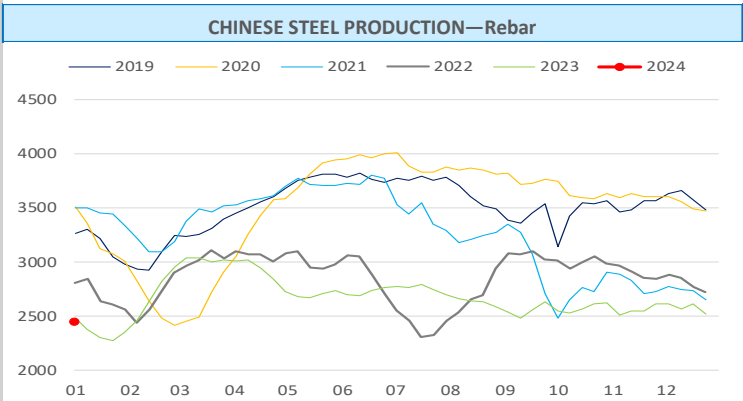
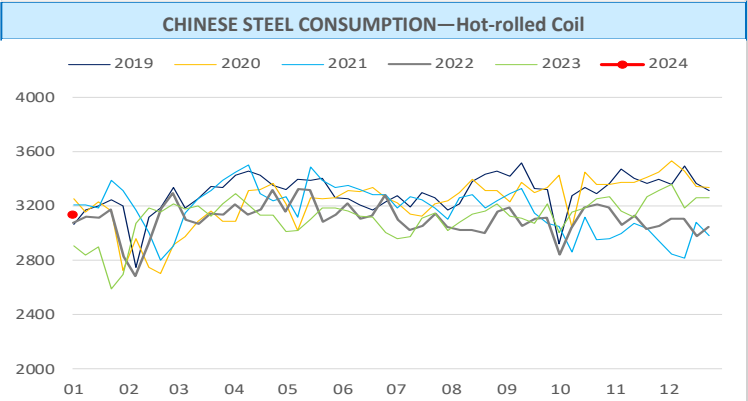
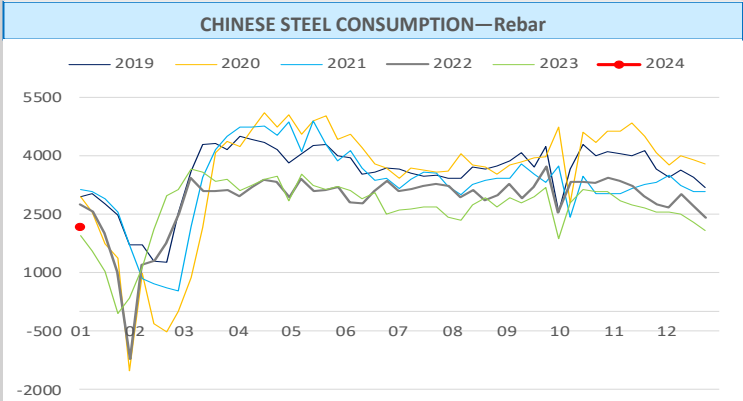
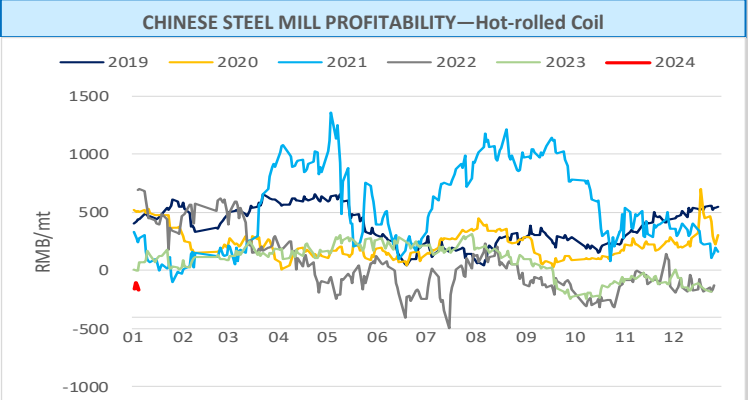
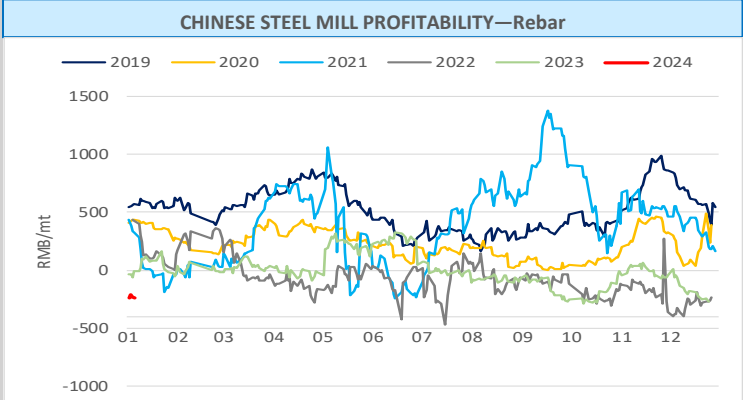
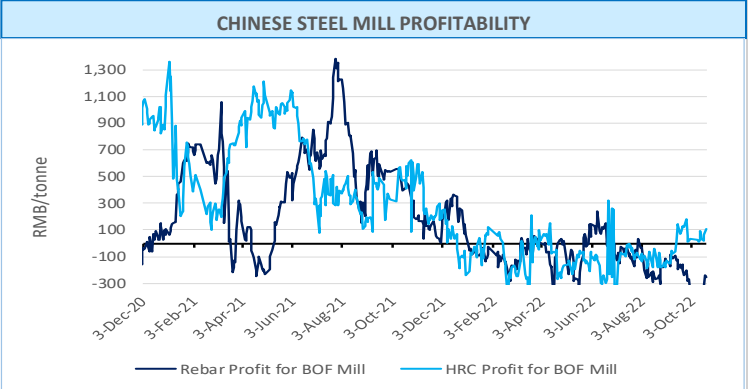
TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA			
Steel Spot Market RMB/tonne			
Product	2024/1/5	Change	Change %
ReBar HRB400 φ18mm	4,000	20	0.50%
Wirerod Q300 φ6.5mm	4,170	10	0.24%
HRC Q235/SS400 5.5mm*1500*C	4,090	20	0.49%
CRC SPCC/ST12 1.0mm*1250*2500	4,850	0	0.00%
Medium & Heavy Plate Q235B 20mm	4,080	20	0.49%
GI ST02Z 1.0mm*1000*C	4,970	0	0.00%
Colour Coated Plate	6,850	-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	142.65	5	Mmi CFR Equivalent index for 1st Feb
Coke	2,670	-110	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	3,060	50	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,478	-10	Q234, incl. tax
Rebar cost - Blast furnace	4,157	-11	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	-237	31	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	4,222	-11	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	-172	11	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



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 65.00	62% Fe Fines 62.00	58% Fe Fines 58.00	62.5% Fe Lump 62.50	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 %	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%	<table><tr><th colspan="4">Data Exclusions*</th></tr><tr><td>Port Index</td><td>62%</td><td>58%</td><td>65%</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*				Port Index	62%	58%	65%	Seaborne index	0		0	Lump Index 62.5	0		
Data Exclusions*																					
Port Index	62%	58%	65%																		
Seaborne index	0		0																		
Lump Index 62.5	0																				
Pricing Point	Qingdao Port (FOT and CFR respectively)			FOT Qingdao Port	* Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified																
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																	

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					
Jan 9th, 2024	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%
Jan 9th, 2024	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		

CONTACT US

MMi Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7629 E: prices@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

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