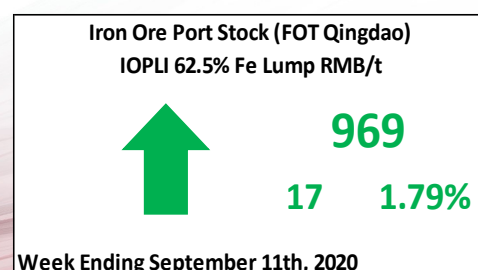
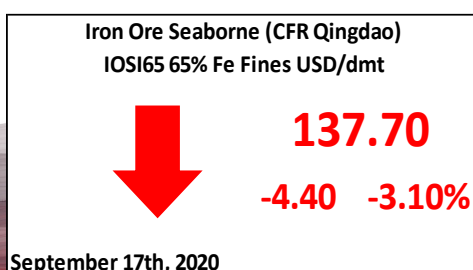
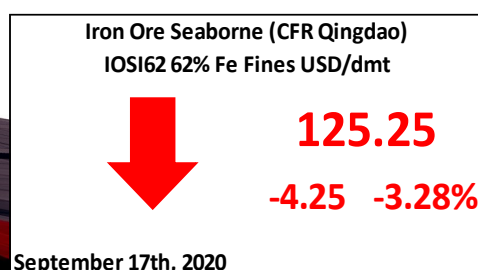
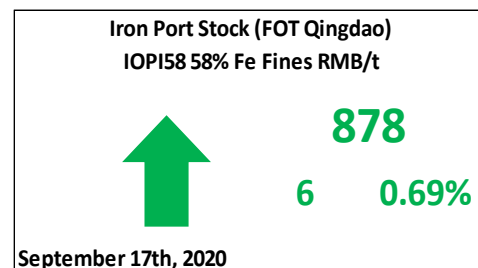
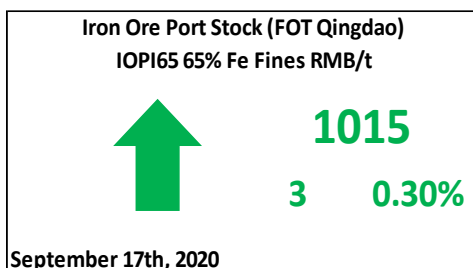
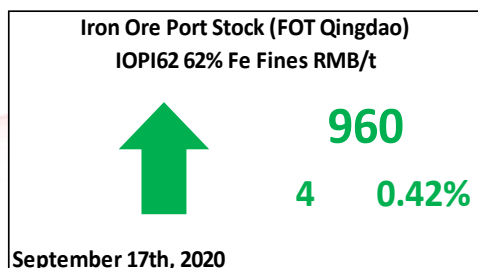


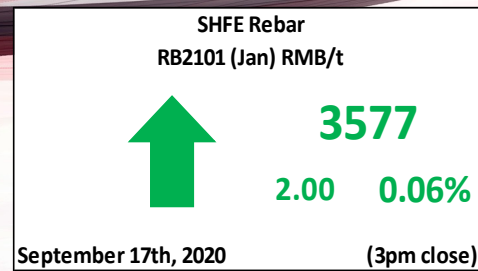
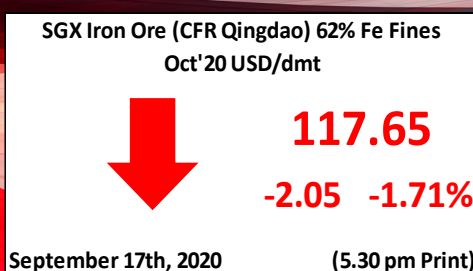
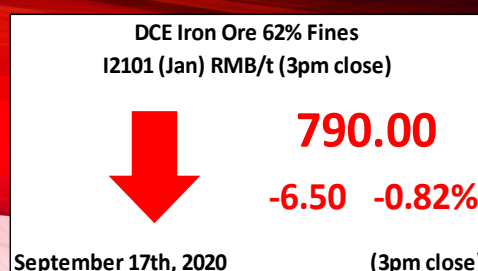


MMi Dashboard

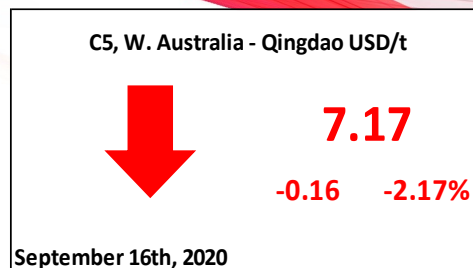
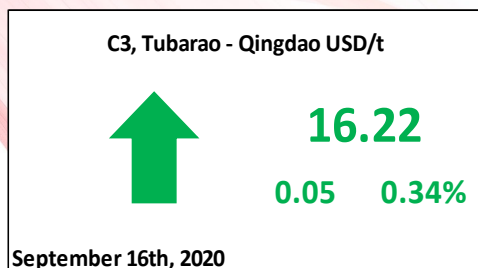
Iron Ore Price Indices



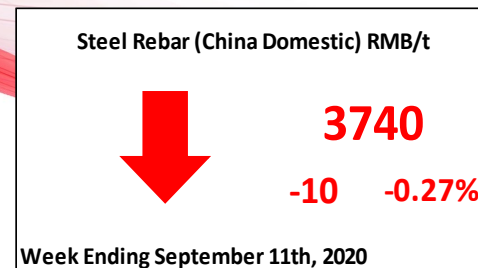
Exchange Traded Contracts



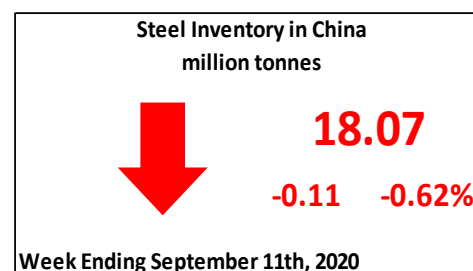
Freight Rates



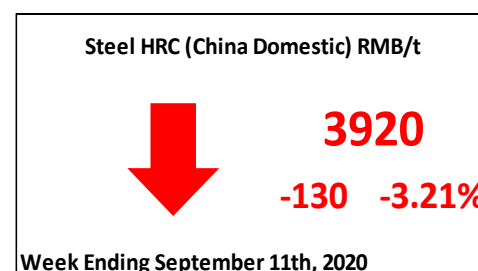
Steel Price



Inventory Levels



Steel Price



IRON ORE PORT STOCK INDEX (IOPI)

September 17th, 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	960	4	0.4%	968	771	619	983	132.47	0.86	0.7%	132.41	102.13	81.37	133.69
IOPI58	58% Fe Fines	878	6	0.7%	877	680	531	892	122.14	1.13	0.9%	120.92	90.61	70.02	122.70
IOPI65	65% Fe Fines	1015	3	0.3%	1016	881	696	1022	140.29	0.74	0.5%	139.26	117.23	91.81	139.87

IRON ORE SEABORNE INDEX (IOSI)

MARKET COMMENTARY

September 17th, 2020		CFR Qingdao, USD/dry tonne							Physical port stock prices rose slightly following DCE iron ore futures afternoon close. PBF traded at 930yuan/mt Tangshan and 912yuan/mt in Shandong. Total concluded transactions rose as some mills increased their procurements. Some mills in North China planned to restock next week as they are close to the ports, standing on the side-lines today. According to SMM, domestic mills' operating rates have fallen for four consecutive weeks to 88.3% as more and more mills conducted maintenance due to the thin profits. Although iron ore inventory at ports continued to rise, the restocking before the National Day Holiday may still offer support to iron ore prices.							
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²	
IOSI62	62% Fe Fines	125.25	-4.25	-3.28%	130.08	100.09	80.40	132.25								
IOSI65	65% Fe Fines	137.70	-4.40	-3.10%	142.42	114.43	91.20	144.85								

IRON ORE PORT LUMP INDEX (IOPLI)

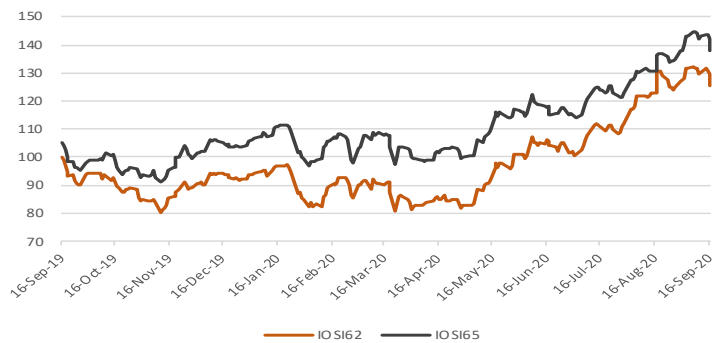
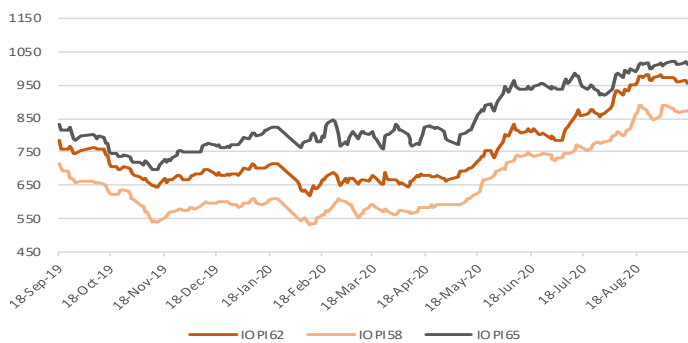
Week Ending September 11th, 2020		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ³						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	969	17	1.8%	961	871	785	969	126.86	2.39	1.92%	125.66	110.58	97.02	126.86

IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending September 11th, 2020				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	1066	2.4%	763	1071	155.90	2.48%	109.21	155.90
Hebei	Qian'an	65% Fe Concentrate	Dry	1040	1.2%	780	1040	152.09	1.24%	110.51	152.09
Liaoning	Anshan	65% Fe Concentrate	Wet	780	-0.6%	620	785	114.07	-0.56%	87.40	114.71
Shandong	Zibo	65% Fe Concentrate	Dry	1115	0.9%	795	1115	163.06	0.98%	113.34	163.06
Week Ending September 11th, 2020				This week	Change %	Low ²	High ²	Exchange rate applied: RMB/USD = 6.7675 ² Last 12 months ³ Weekly exchange rate applied: RMB/USD 6.8379			
China Mines Concentrate Composite Index RMB/WT				924.68	0.95%	702.47	924.68				

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

September 17th, 2020		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	May	June	July	August	MTD	QTD	YTD	May	June	July	August	MTD	QTD	YTD
IOPI62	62% Fe Fines	720	807	844	948	968	911	771	87.15	93.74	105.69	127.65	132.41	122.44	102.13
IOPI58	58% Fe Fines	638	730	758	838	877	815	680	75.96	83.60	96.40	113.63	120.92	110.31	90.61
IOPI65	65% Fe Fines	847	943	948	992	1016	980	881	105.61	110.98	124.25	133.70	139.26	131.95	117.23

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

FREIGHT RATES

September 17th, 2020		CFR Qingdao, USD/dry tonne							September 16th, 2020		FREIGHT RATES - DRY BULK US\$/wet tonne				
Index	Fe Content	May	June	July	August	MTD	QTD	YTD	Route	Designation	Change	Change %	Low ²	High ²	
IOSI62	62% Fe Fines	92.47	103.49	108.23	124.02	130.08	119.34	100.09	W. Australia - Qingdao	C5	7.17	-0.16	-2.17%	3.57	11.42
IOSI65	65% Fe Fines	110.12	117.06	121.21	132.95	142.42	130.66	114.43	Tubarao - Qingdao	C3	16.22	0.05	0.34%	6.70	29.10

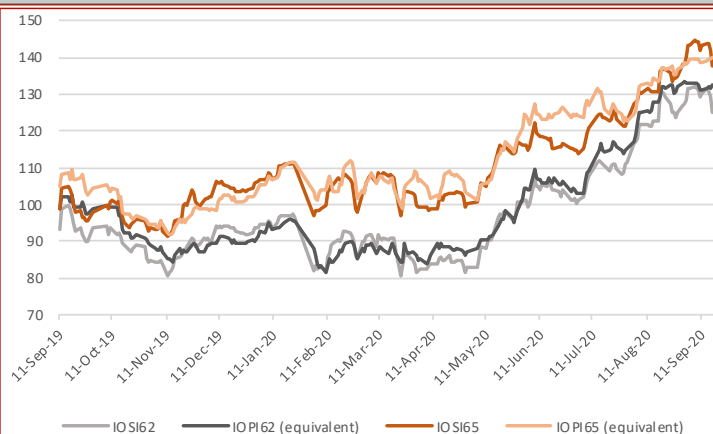
IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending September 11th, 2020		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	May	June	July	August	MTD	QTD	YTD	May	June	July	August	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	832	888	875	932	961	911	871	104.46	111.88	111.35	120.08	125.66	117.13	110.58

IRON ORE INDEX PREMIUMS/DISCOUNTS

September 17th, 2020				PORT STOCK INDEX (RMB/WT)		September 17th, 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	-82	-8.54%	IOSI65	65% Fe Fines	12.45	9.94%				
IOPI65	65% Fe Fines	55	5.73%								

IRON ORE INDEX COMPARISONS (USD/DMT)



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



IRON ORE BRAND SPOT PRICE ASSESSMENTS

September 17th, 2020				September 17th, 2020			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	917	8	-43	Roy Hill	114.91	-4.25	-10.34
SIMEC Fines	896	20	-64	SIMEC Fines	103.54	-4.25	-21.71
PB Fines	935	5	-25	PB Fines	121.46	-4.25	-3.79
Newman Fines	961	4	1	Newman Fines	122.84	-4.25	-2.41
MAC Fines	925	9	-35	MAC Fines	116.27	-4.25	-8.98
Jimblebar Blended Fines	872	13	-88	Jimblebar Blended Fines	112.81	-4.25	-12.44
Carajas Fines	1016	3	56	Carajas Fines	137.46	-4.25	12.21
Brazilian SSF	936	19	-24	Brazilian SSF	111.19	-4.25	-14.06
Brazilian Blend Fines	974	8	14	Brazilian Blend Fines	123.31	-4.25	-1.94
RTX Fines	899	14	-61	RTX Fines	112.79	-4.25	-12.46
West Pilbara Fines	909	10	-51	West Pilbara Fines	114.26	-4.25	-10.99

September 17th, 2020			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	851	6	-27
FMG Blended Fines	877	6	-1
Robe River	858	6	-20
Western Fines	870	6	-8
Atlas Fines	877	5	-1
Yandi	889	4	11

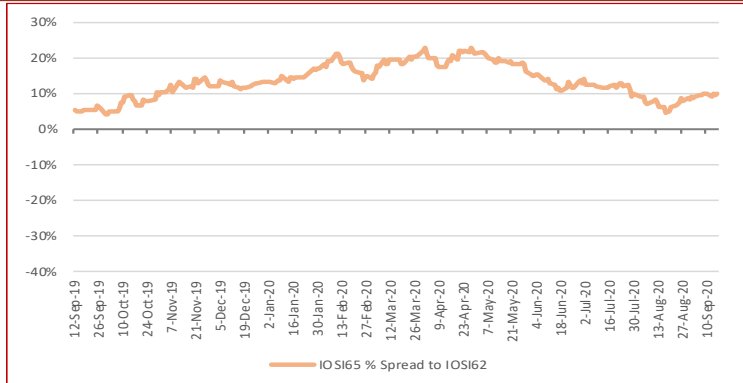
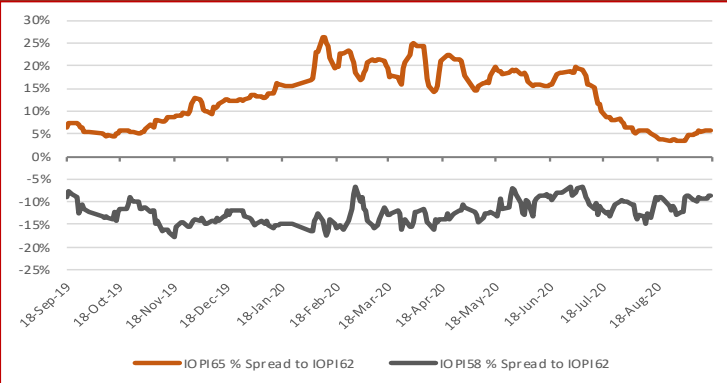
IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	15.00	-1.00	1% Fe	High Grade Fe 60 - 63%	3.25	0.00
	High Grade Fe 63 - 64%	15.00	0.00		High Grade Fe 63 - 64%	2.00	0.00
	High Grade Fe 64 - 65%	15.00	0.00		High Grade Fe 64 - 65%	2.00	0.00
	High Grade Fe 65 - 65.5%	15.00	0.00		High Grade Fe 65 - 65.5%	2.00	0.00
	Low Grade Fe	0.00	0.00				
1% Alumina	High Fe Grade Al <2.25%	9.00	0.00	1% Alumina	High Fe Grade Al <2.25%	1.75	0.00
	High Fe Grade Al 2.25-4%	42.00	-6.00		High Fe Grade Al 2.25-4%	5.25	0.00
	Low Fe Grade Al <2.25%	28.00	-3.00				
	Low Fe Grade Al 2.25-4%	27.00	0.00				
1% Silica	High Fe Grade Si <4%	1.00	0.00	1% Silica	High Fe Grade Si <4%	1.50	0.00
	High Fe Grade Si 4-6.5%	22.00	-6.00		High Fe Grade Si 4 - 6.5%	6.50	0.00
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	1.00	0.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.00	0.00
	High Fe Grade 0.115%<P<0.15%	1.00	0.00		High Fe Grade 0.115%<P<0.15%	0.75	0.00
	Low Fe Grade 0.09<P<0.1%	3.00	0.00				

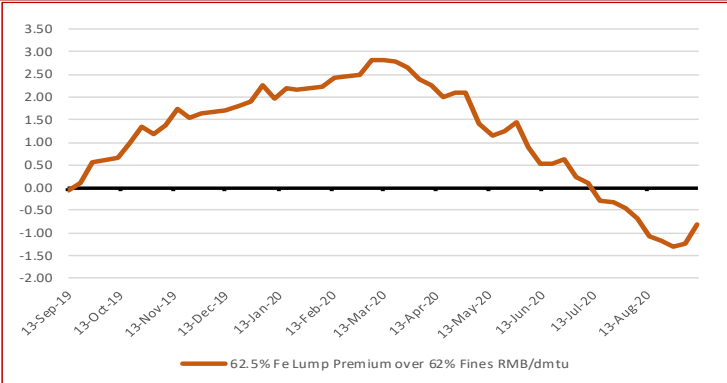
Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-25.00	0.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	0.00	0.00	Jiangyin	-10.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-5.00	0.00	Jingtang	-5.00	0.00	Majishan	0.00	0.00	Taichang	-10.00	0.00
Dalian	-25.00	0.00	Lanqiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	0.00	0.00

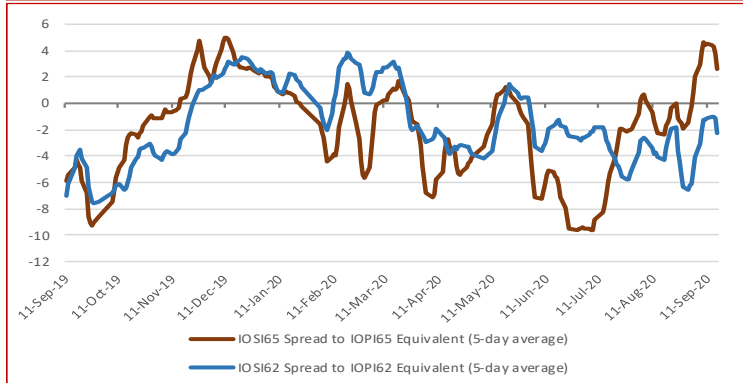
IRON ORE INDEX PREMIUMS/DISCOUNTS



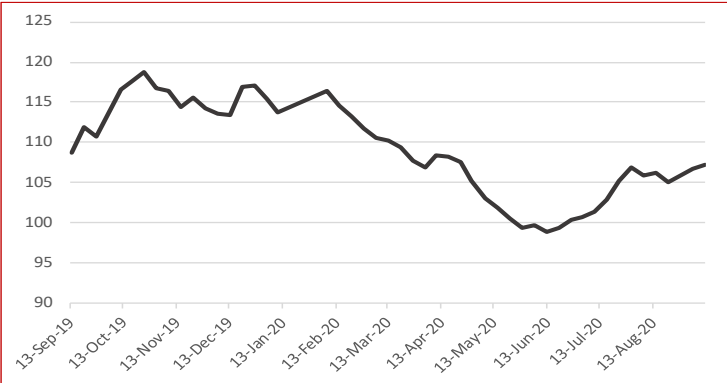
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



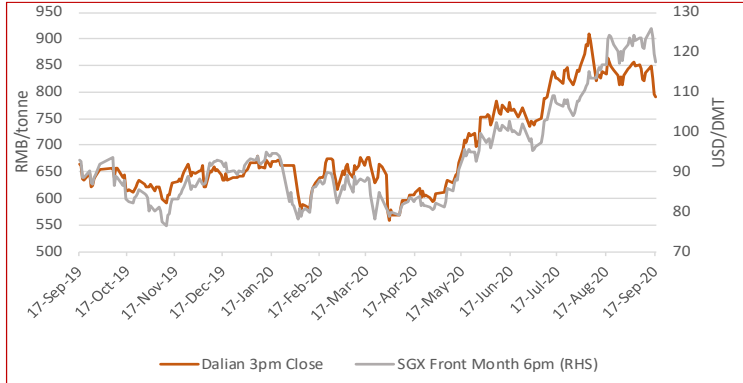
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



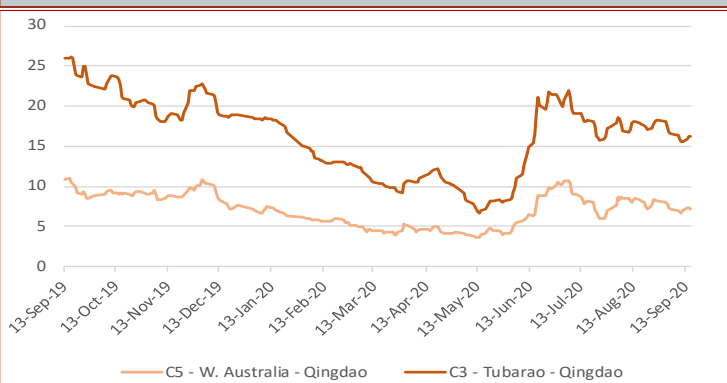
IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending September 11th, 2020				
Province	This week	Change %	Low ²	High ²
Jingtang	15.32	-0.84%	11.97	17.00
Qingdao	11.55	1.40%	9.41	14.00
Caofeidian	13.89	3.58%	12.46	16.78
Tianjin	8.58	2.14%	6.37	8.58
Rizhao	11.53	4.44%	9.44	14.02
Total (35 Ports)	107.28	0.59%	98.80	118.79

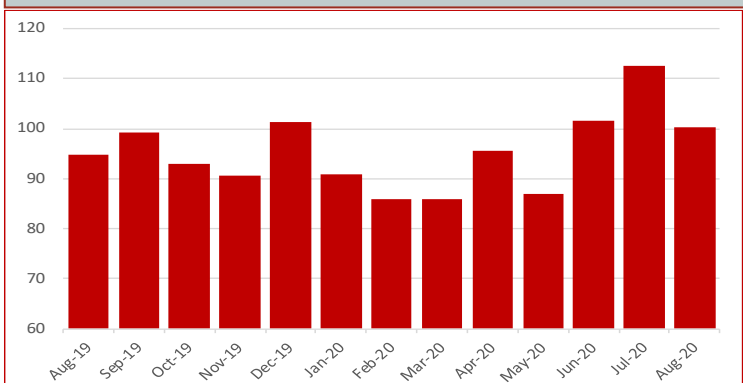
IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	Sep 17th, 3.00 pm dose			Sep 17th, 5.30 pm		
Contract	I2101	Change	Change %	Oct '20	Change	Change %
Closing Price	790.00	-6.5	-0.82%	117.65	-2.05	-1.71%
Vol traded ('000 lots)	110.84	-26.84	-19.49%	27.22	3.98	17.13%
Open positions ('000 lots)	78.65	-2.43	-2.99%	205.02	0.21	0.10%
Day Low	783.5	-9.0	-1.14%	116.65	-2.10	-1.77%
Day High	799.0	-32.5	-3.91%	119.26	-4.22	-3.42%

DRY BULK FREIGHT RATES (USD/MT)



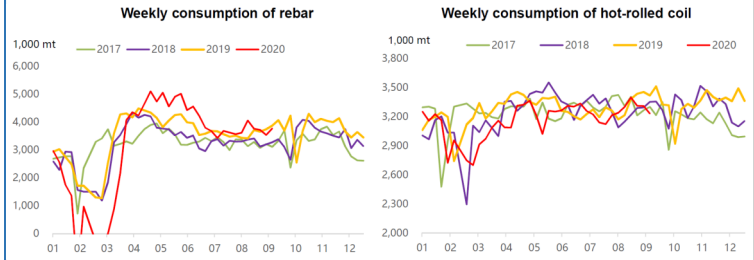
TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne			
Product	11/9/2020	Change	Change %
ReBar HRB400 φ18mm	3,740.0	-10	-0.27%
Wirerod Q300 φ6.5mm	4,060.0	0	0.00%
HRC Q235/SS400 5.5mm*1500*C	3,920.0	-130	-3.21%
CRC SPCC/ST12 1.0mm*1250*2500	4,760.0	40	0.85%
Medium & Heavy Plate Q235B 20mm	3,940.0	-40	-1.01%
GI ST02Z 1.0mm*1000*C	4,840.0	0	0.00%
Colour Coated Plate	7,650.0	50	0.66%

CHINESE STEEL CONSUMPTION



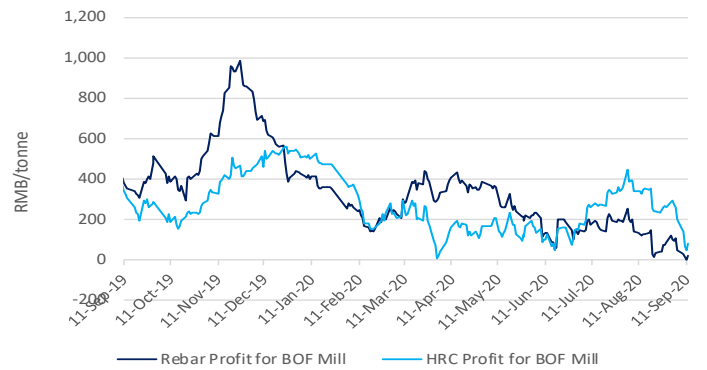
CHINESE STEEL MILL PROFITABILITY

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	129.40	-2.20	Mmi CFR Equivalent index for 1st Feb
Coke	1,960	50	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,440	0	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	3,543	1,009	Q234, incl. tax
Rebar cost - Blast furnace	3,772	9	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	19	-30	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,860	9	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	80	-119	based on Shanghai prices, incl. tax

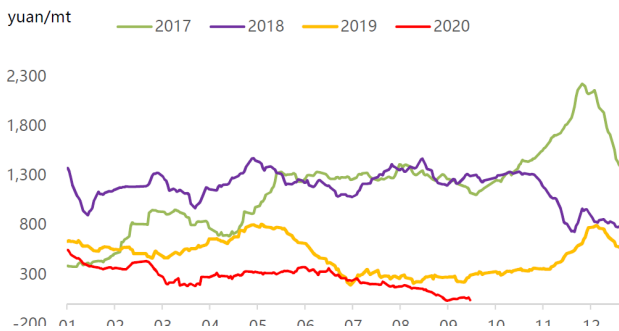
Note: 1. Costs in the table are calculated based on today's market prices and factored our management, sales, financial and depreciations fees.
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

CHINESE STEEL MILL PROFITABILITY

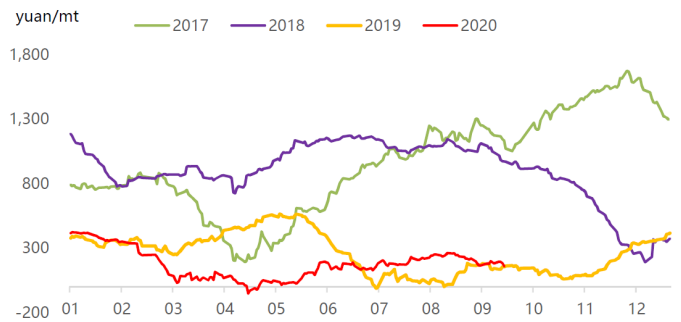


CHINESE STEEL MILL PROFITABILITY

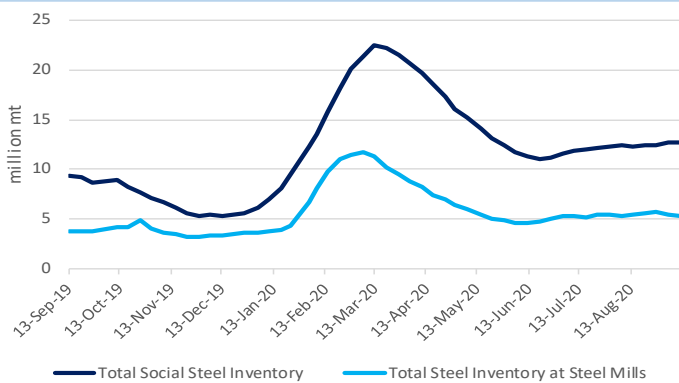
Rebar profits



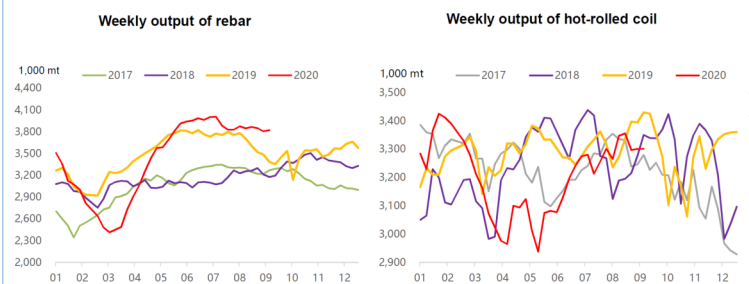
Hot-rolled coil profits



CHINESE STEEL INVENTORIES



CHINESE STEEL PRODUCTION



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					
September 17th, 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	60.95%	2.40%	4.36%	0.056%	9.34%	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	61.63%	2.32%	3.85%	0.100%	9.52%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	9.50%
Newman Fines	62.55%	2.38%	3.94%	0.091%	8.16%	Newman Fines	62.30%	2.40%	4.40%	0.090%	8.00%
MAC Fines	60.66%	2.33%	4.50%	0.082%	8.04%	MAC Fines	60.80%	2.35%	4.70%	0.080%	7.80%
Jimblebar Blended Fines	60.74%	3.09%	4.67%	0.113%	7.64%	Jimblebar Blended Fines	60.50%	3.00%	4.50%	0.120%	8.00%
Carajas Fines	65.06%	1.19%	1.87%	0.067%	8.15%	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	63.19%	1.17%	4.78%	0.082%	7.65%	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%
September 17th, 2020	Specifications applied for 58% brand assessments										
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.52%	3.13%	6.24%	0.058%	9.14%						
FMG Blended Fines	58.18%	2.55%	5.65%	0.054%	8.26%						
Robe River	56.55%	3.20%	5.69%	0.039%	8.29%						
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	57.12%	1.64%	6.44%	0.042%	9.30%						

BLOOMBERG TICKERS

PORT STOCK INDICES				SEABORNE INDICES	
	FOT Qingdao (RMB/wet tonne)		CFR Qingdao Equivalent (USD/dry tonne)		
IOPI62	IRCNQ001		IRCNQ004		IOSI62
IOPI58	IRCNQ002		IRCNQ005		IOSI65
IOPI65	IRCNQ003		IRCNQ006		
IOPLI62	IRCN0036		IRCN0037		
					CFR Qingdao (USD/DMT)
					IRCN0034
					IRCN0035

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