












## MMi Dashboard



## Iron Ore Price Indices

<b>Iron Ore Port Stock (FOT Qingdao)</b> <b>IOPI62 62% Fe Fines RMB/t</b>  <b>696</b> 2 0.29% May 12th, 2020	<b>Iron Ore Port Stock (FOT Qingdao)</b> <b>IOPI65 65% Fe Fines RMB/t</b>  <b>809</b> 2 0.25% May 12th, 2020	<b>Iron Port Stock (FOT Qingdao)</b> <b>IOPI58 58% Fe Fines RMB/t</b>  <b>608</b> 8 1.33% May 12th, 2020
<b>Iron Ore Seaborne (CFR Qingdao)</b> <b>IOSI62 62% Fe Fines USD/dmt</b>  <b>90.10</b> 2.05 2.33% May 12th, 2020	<b>Iron Ore Seaborne (CFR Qingdao)</b> <b>IOSI65 65% Fe Fines USD/dmt</b>  <b>107.10</b> 1.90 1.81% May 12th, 2020	<b>Iron Ore Port Stock (FOT Qingdao)</b> <b>IOPLI 62.5% Fe Lump RMB/t</b>  <b>804</b> -24 -2.90% Week Ending May 8th, 2020


## Exchange Traded Contracts

<b>DCE Iron Ore 62% Fines</b> <b>I2009 (Sep) RMB/t (3pm close)</b>  <b>638.00</b> 8.00 1.27% May 12th, 2020 (3pm close)	<b>SGX Iron Ore (CFR Qingdao) 62% Fe Fines</b> <b>May'20 USD/dmt</b>  <b>87.25</b> 2.03 2.38% May 12th, 2020 (5.30 pm Print)	<b>SHFE Rebar</b> <b>RB2010 (Oct) RMB/t</b>  <b>3464</b> 12.00 0.35% May 12th, 2020 (3pm close)
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## Freight Rates

<b>C3, Tubarao - Qingdao USD/t</b>  <b>7.79</b> -0.36 -4.42% May 11th, 2020	<b>C5, W. Australia - Qingdao USD/t</b>  <b>3.73</b> -0.21 -5.43% May 11th, 2020
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## Steel Price

<b>Steel Rebar (China Domestic) RMB/t</b>  <b>3530</b> 70 2.02% Week Ending May 8th, 2020
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## Inventory Levels

<b>Iron Ore Inventory at Chinese Ports (35)</b> <b>million tonnes</b>  <b>102.96</b> -2.29 -2.18% Week Ending May 8th, 2020	<b>Steel Inventory in China</b> <b>million tonnes</b>  <b>21.30</b> -1.24 -5.50% Week Ending May 8th, 2020
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## Steel Price

<b>Steel HRC (China Domestic) RMB/t</b>  <b>3400</b> 120 3.66% Week Ending May 8th, 2020
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## IRON ORE PORT STOCK INDEX (IOPI)

May 12th, 2020		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	696	2	0.3%	688	673	619	928	90.60	0.08	0.1%	89.62	88.55	81.37	126.12
IOPI58	58% Fe Fines	608	8	1.3%	597	580	531	823	79.53	0.93	1.2%	78.16	76.62	70.02	112.44
IOPI65	65% Fe Fines	809	2	0.2%	794	801	696	992	105.93	0.05	0.0%	104.04	106.13	91.81	135.34

## IRON ORE SEABORNE INDEX (IOSI)

## MARKET COMMENTARY

May 12th, 2020		CFR Qingdao, USD/dry tonne							A total of 91 vessels carrying 14.05 million mt of iron ore arrived at major Chinese ports during May 3-9, SMM estimates. This was up 1.21 million mt from the prior week, and up 1.72 million mt from the same period last year. For the same week, iron ore deliveries leaving Australian ports declined 2.08 million mt on the week to 15.6 million mt, some 520,000 mt higher than the same period last year. The decline in shipments was due to maintenance at a number of berths at Australian ports. Shipments that departed Brazilian ports were estimated to fall 820,000 mt from the prior week to 5.27 million mt, roughly flat from the level of the same period last year. Separately, SMM expects the operating rates of blast furnaces in China to extend increase to 87.6% in May, 1.2 percentage point higher than April. The average rate in April expanded 2.3 percentage points on the month to 86.4%. Continued increase in demand from Chinese steel mills will keep iron ore prices firm in the near term
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	
IOSI62	62% Fe Fines	90.10	2.05	2.33%	85.91	88.28	80.40	127.50	
IOSI65	65% Fe Fines	107.10	1.90	1.81%	103.35	104.16	91.20	137.95	

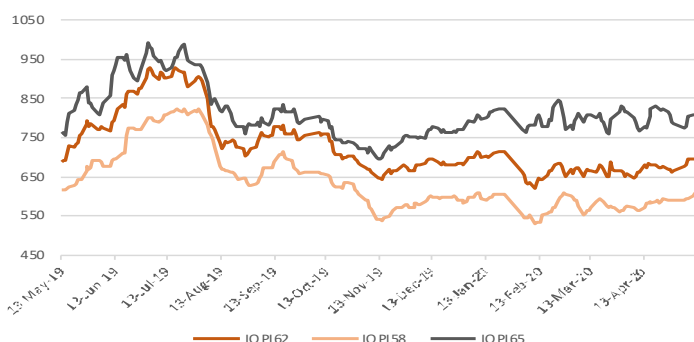
## IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending May 8th, 2020		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	804	-24	-2.9%	804	847	763	1051	101.03	-3.32	-3.18%	101.03	107.11	93.24	133.81

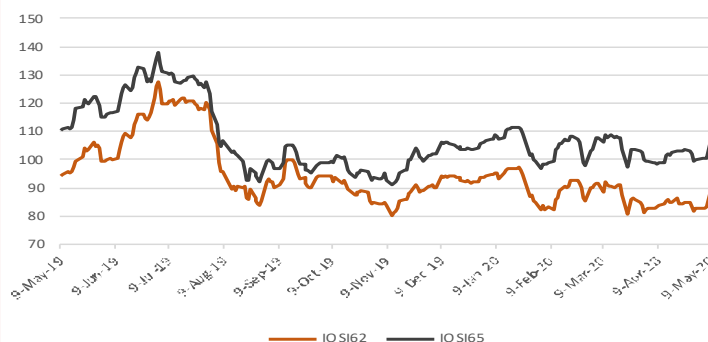
## IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending May 8th, 2020				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	781	-1.3%	763	1032	110.31	-1.45%	109.21	150.03
Hebei	Qian'an	65% Fe Concentrate	Dry	815	0.6%	780	960	115.11	0.43%	110.51	139.35
Liaoning	Anshan	65% Fe Concentrate	Wet	620	-1.6%	605	720	87.57	-1.77%	85.58	104.66
Shandong	Zibo	65% Fe Concentrate	Dry	870	0.0%	795	1040	122.88	-0.19%	113.34	151.33
Week Ending May 8th, 2020				This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	<sup>1</sup> Exchange rate applied: RMB/USD = 7.0919 <sup>2</sup> Last 12 months <sup>3</sup> Weekly exchange rate applied: RMB/USD 7.0803			
China Mines Concentrate Composite Index RMB/WT				712.04	0.01%	670.62	859.50				

## 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

May 12th, 2020		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	January	February	March	April	MTD	QTD	YTD	January	February	March	April	MTD	QTD	YTD
IOPI62	62% Fe Fines	706	655	667	668	688	672	673	94.23	86.23	87.61	87.15	89.62	87.62	88.55
IOPI58	58% Fe Fines	600	563	577	580	597	583	580	80.46	74.33	76.20	75.96	78.16	76.38	76.62
IOPI65	65% Fe Fines	808	797	798	804	794	802	801	108.54	105.84	105.60	105.61	104.04	105.31	106.13

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

## FREIGHT RATES

May 12th, 2020		CFR Qingdao, USD/dry tonne							FREIGHT RATES - DRY BULK US\$/wet tonne						
Index	Fe Content	January	February	March	April	MTD	QTD	YTD	Route	Designation	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>	
IOSI62	62% Fe Fines	93.85	87.46	88.60	83.84	85.91	84.30	88.28	W. Australia - Qingdao	C5	3.73	-0.21	-5.43%	3.73	11.42
IOSI65	65% Fe Fines	107.56	102.94	105.31	100.97	103.35	101.50	104.16	Tubarao - Qingdao	C3	7.79	-0.36	-4.42%	7.79	29.10

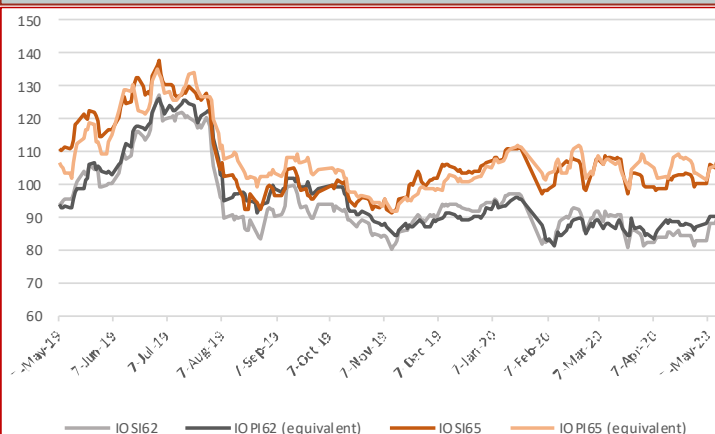
## IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending May 8th, 2020		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	January	February	March	April	MTD	QTD	YTD	January	February	March	April	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	868	834	868	832	804	832	847	108.99	106.19	110.46	101.03	101.03	104.89	107.11

## IRON ORE INDEX PREMIUMS/DISCOUNTS

May 12th, 2020		PORT STOCK INDEX (RMB/WT)		May 12th, 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	-88	-12.64%	IOSI65	65% Fe Fines	17.00	18.87%
IOPI65	65% Fe Fines	113	16.24%				

## IRON ORE INDEX COMPARISONS (USD/DMT)



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



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

May 12th, 2020				May 12th, 2020			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	649	2	-47	Roy Hill	86.92	2.40	-3.18
SIMEC Fines	618	2	-78	SIMEC Fines	85.00	2.58	-5.10
PB Fines	671	2	-25	PB Fines	89.85	2.23	-0.25
Newman Fines	695	2	-1	Newman Fines	91.06	1.95	0.96
MAC Fines	655	2	-41	MAC Fines	86.45	2.53	-3.65
Jimblebar Blended Fines	603	2	-93	Jimblebar Blended Fines	81.05	3.40	-9.05
Carajas Fines	809	2	113	Carajas Fines	106.89	2.33	16.79
Brazilian SSF	689	2	-7	Brazilian SSF	92.91	2.05	2.81
Brazilian Blend Fines	720	2	24	Brazilian Blend Fines	93.04	1.93	2.94
RTX Fines	641	2	-55	RTX Fines	85.05	2.73	-5.05
West Pilbara Fines	639	2	-57	West Pilbara Fines	85.62	2.55	-4.48

May 12th, 2020			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	546	8	-62
FMG Blended Fines	593	8	-15
Robe River	557	8	-51
Western Fines	523	8	-85
Atlas Fines	610	8	2
Yandi	595	8	-13

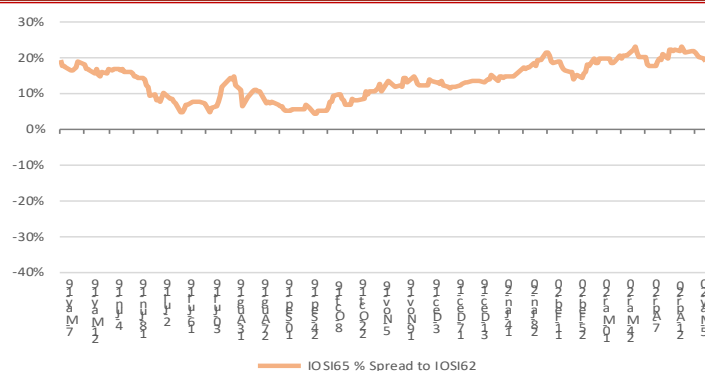
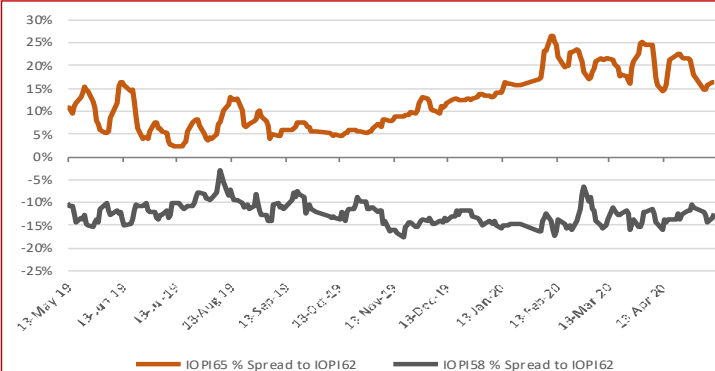
## IRON ORE INDEX NORMALISATION DIFFERENTIALS

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%	20.00	0.00	1% Fe	High Grade Fe 60 - 63%	2.25	-0.25
	High Grade Fe 63 - 64%	5.00	0.00		High Grade Fe 63 - 64%	3.75	0.25
	High Grade Fe 64 - 65%	5.00	0.00		High Grade Fe 64 - 65%	3.75	0.25
	High Grade Fe 65 - 65.5%	5.00	0.00		High Grade Fe 65 - 65.5%	3.75	0.25
	Low Grade Fe	1.00	0.00	1% Alumina	High Fe Grade Al <2.25%	2.75	0.00
1% Alumina	High Fe Grade Al <2.25%	27.00	0.00		High Fe Grade Al 2.25-4%	0.50	-0.50
	High Fe Grade Al 2.25-4%	5.00	0.00		High Fe Grade Si <4%	2.00	0.00
	Low Fe Grade Al <2.25%	34.00	0.00		High Fe Grade Si 4 - 6.5%	0.25	0.00
	Low Fe Grade Al 2.25-4%	45.00	0.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.50	0.00
1% Silica	High Fe Grade Si <4%	24.00	0.00		High Fe Grade 0.115%<P<0.15%	0.50	0.00
	High Fe Grade Si 4-6.5%	22.00	0.00				
	Low Fe Grade	33.00	0.00				
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	6.00	0.00				
	High Fe Grade 0.115%<P<0.15%	4.00	0.00				
	Low Fe Grade 0.09%<P<0.1%	3.00	0.00				

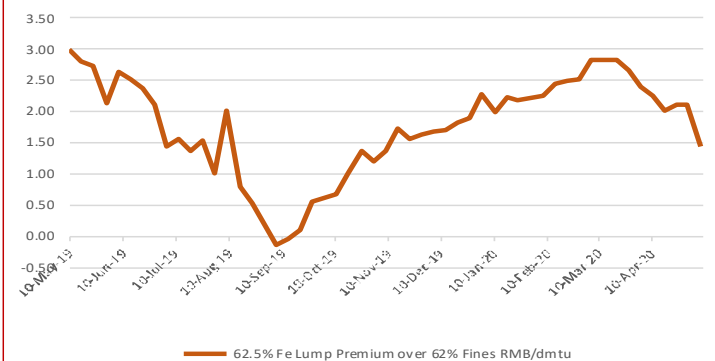
## Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-35.00	0.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	-5.00	0.00	Jiangyin	-20.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	-10.00	0.00	Jingtang	-10.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-35.00	0.00	Lanqiao	0.00	0.00	Nantong	-20.00	0.00	Tianjin	-20.00	0.00

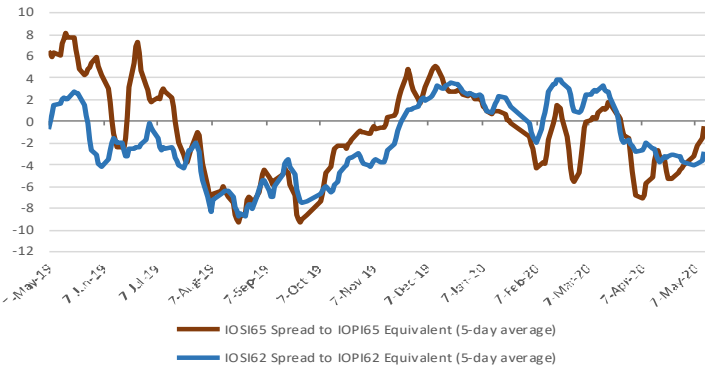
## IRON ORE INDEX PREMIUMS/DISCOUNTS



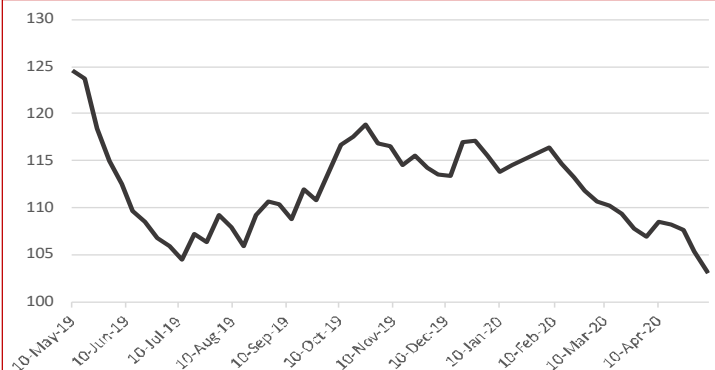
## WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



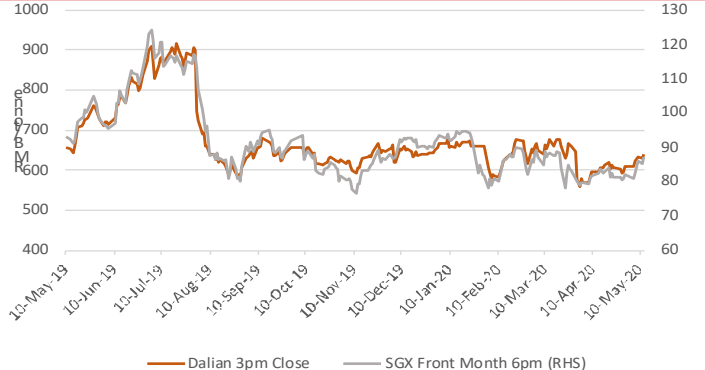
## IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



## TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



## FUTURE TRADING—FRONT MONTH CLOSING PRICE



## IRON ORE PORT INVENTORIES (MILLION TONNES)

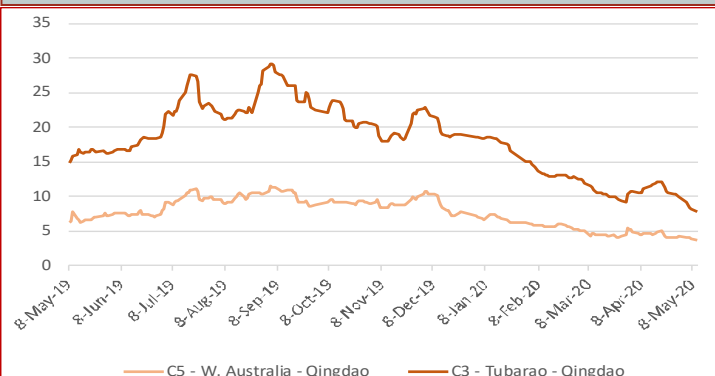
Week Ending May 8th, 2020

Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Jingtang	13.87	-0.57%	10.80	17.00
Qingdao	10.49	-0.85%	10.49	16.34
Caofeidian	12.92	-1.67%	12.92	17.65
Tianjin	7.14	-8.23%	6.37	8.28
Rizhao	10.40	-6.31%	10.40	14.75
Total (35 Ports)	102.96	-2.18%	102.96	124.50

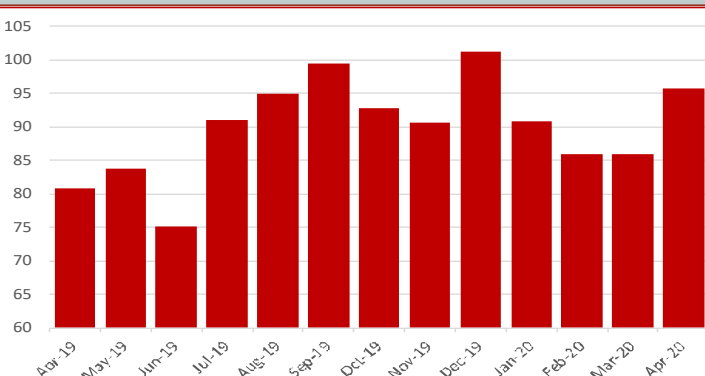
## IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	May 12th, 3.00 pm close			May 12th, 5.30 pm		
Contract	I2009	Change	Change %	June '20	Change	Change %
Closing Price	638.00	8.0	1.27%	87.25	2.03	2.38%
Vol traded ('000 lots)	68.75	-14.23	-17.15%	23.71	2.17	10.07%
Open positions ('000 lots)	75.94	3.51	4.85%	140.21	6.20	4.62%
Day Low	627.5	1.0	0.16%	85.00	0.95	1.13%
Day High	638.0	0.5	0.08%	87.26	1.81	2.12%

## DRY BULK FREIGHT RATES (USD/MT)



## TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



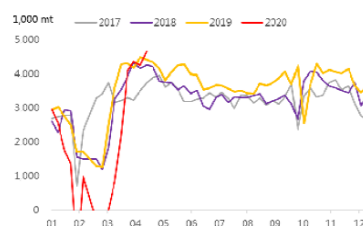
## STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne

Product	8/5/2020	Change	Change %
ReBar HRB400 $\phi$ 18mm	3,530.0	70	2.02%
Wirerod Q300 $\phi$ 6.5mm	3,660.0	60	1.67%
HRC Q235/SS400 5.5mm*1500*C	3,400.0	120	3.66%
CRC SPCC/ST12 1.0mm*1250*2500	3,750.0	80	2.18%
Medium & Heavy Plate Q235B 20mm	3,690.0	100	2.79%
GI ST02Z 1.0mm*1000*C	4,090.0	80	2.00%
Colour Coated Plate	6,400.0	100	1.59%

## CHINESE STEEL CONSUMPTION

Weekly consumption of rebar



Weekly consumption of hot-rolled coil



## CHINESE STEEL MILL PROFITABILITY

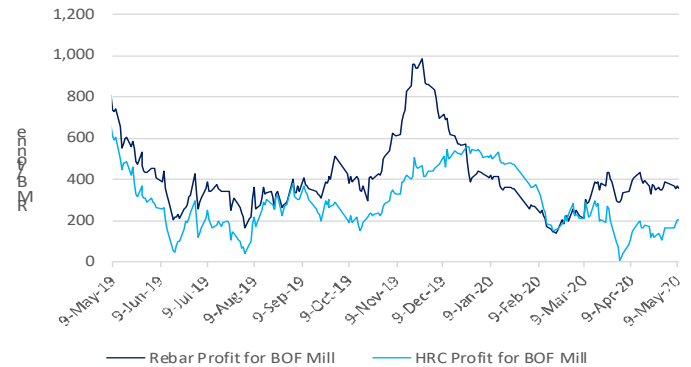
SMM Tracking of Steel Mill P&amp;L - Rebar and Hot-rolled Coil (RMB/tonne)

Category	Price	Change (WoW)	Note
MMI (Fe 62%), USD/mt excluding tax	83.10	-0.10	Mmi CFR Equivalent index for 1st Feb
Coke	1,730	20	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,140	150	steel scrap (6mm) in Zhangjiagang, excl. tax
Billet Cost	2,888	44	Q234, incl. tax
Rebar cost - Blast furnace	3,132	62	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	357	-32	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,205	62	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	205	38	based on Shanghai prices, incl. tax

Note: 1. Costs in the table are calculated based on today's market prices and fact of our management, sales, financial and depreciations fees.

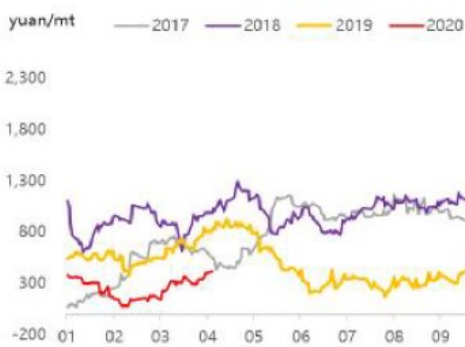
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

## CHINESE STEEL MILL PROFITABILITY

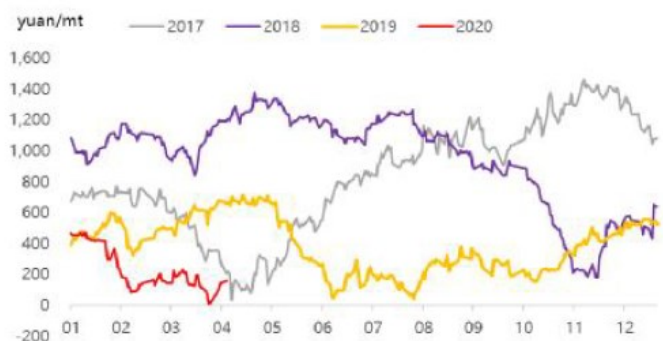


## CHINESE STEEL MILL PROFITABILITY

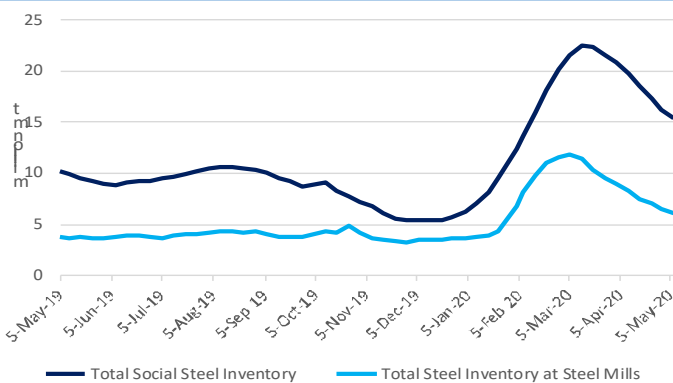
Rebar profits



Hot-rolled coil profits

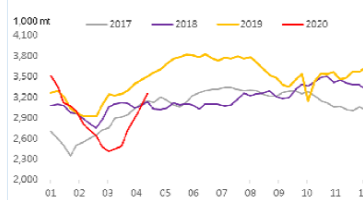


## CHINESE STEEL INVENTORIES

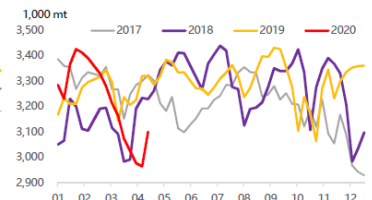


## CHINESE STEEL PRODUCTION

Weekly output of rebar



Weekly output of 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	
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	

Data Exclusions*			
Port Index	62%	58%	65%
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					
May 12th, 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	60.83%	2.31%	4.67%	0.056%	9.15%	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	61.49%	2.34%	3.89%	0.101%	9.38%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.27%	2.41%	4.27%	0.085%	7.92%	Newman Fines	62.40%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.75%	2.34%	4.70%	0.076%	7.97%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	60.16%	3.16%	4.87%	0.113%	7.76%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%
Carajas Fines	65.31%	1.34%	1.55%	0.074%	8.21%	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	62.89%	1.43%	4.66%	0.084%	8.25%	Brazilian Blend Fines	62.50%	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%
May 12th, 2020	Specifications applied for 58% brand assessments										
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.69%	3.09%	6.18%	0.061%	9.12%						
FMG Blended Fines	58.11%	2.64%	5.59%	0.058%	8.11%						
Robe River	56.29%	3.19%	5.74%	0.039%	8.90%						
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	57.05%	1.63%	6.47%	0.036%	9.13%						

BLOOMBERG TICKERS

PORT STOCK INDICES			SEABORNE INDICES	
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)		CFR Qingdao (USD/DMT)
IOP162	IRCNQ001	IRCNQ004	IOS162	IRCN0034
IOP158	IRCNQ002	IRCNQ005	IOS165	IRCN0035
IOP165	IRCNQ003	IRCNQ006		
IOP162	IRCN0036	IRCN0037		

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