Metals Market Index MMi

MMi Dashboard

Iron Ore Price Indices

Iron Ore Port Stock (FOT Qingdao)
IOPI62 62% Fe Fines RMB/t
697
-5 -0.71%
October 29th 2019

Iron Ore Port Stock (FOT Qingdao)
IOPI65 65% Fe Fines RMB/t
733
-5 -0.68%
October 29th 2019

Iron Port Stock (FOT Qingdao)
IOPI58 58% Fe Fines RMB/t
617
-16 -2.53%
October 29th 2019

Iron Ore Seaborne (CFR Qingdao)
IOSI62 62% Fe Fines USD/dmt
88.35
-0.80 -0.90%
October 29th 2019

Iron Ore Seaborne (CFR Qingdao)
IOSI65 65% Fe Fines USD/dmt
95.55
-0.60 -0.62%
October 29th 2019

Iron Ore Port Stock (FOT Qingdao)
IOPLI 62.5% Fe Lump RMB/t
819
-11 -1.33%
Week Ending October 25th, 2019

Exchange Traded Contracts

DCE Iron Ore 62% Fines
I2001 (Jan) RMB/t
622.00
-5.00 -0.80%
October 29th 2019 (3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines
November'19 USD/dmt
84.04
-0.60 -0.71%
October 29th 2019 (5.30 pm Print)

SHFE Rebar
RB2001 (Jan) RMB/t
3348
21.00 0.63%
October 29th 2019 (3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t
20.60
0.16 0.78%
October 28th 2019

C5, W. Australia - Qingdao USD/t
9.26
0.00 -0.04%
October 28th 2019

Steel Price

Steel Rebar (China Domestic) RMB/t
3670
0 0.00%
Week Ending October 25th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35)
million tonnes
118.79
1.28 1.09%
Week Ending October 25th, 2019

Steel Inventory in China
million tonnes
12.45
0.01 0.06%
Week Ending October 25th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t
3510
0 0.00%
Week Ending October 25th, 2019

IRON ORE PORT STOCK INDEX (IOPI)

October 29th 2019		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	697	-5	-0.7%	725	728	535	928	91.13	-0.49	-0.5%	94.84	97.22	68.50	126.12
IOPI58	58% Fe Fines	617	-16	-2.5%	639	640	375	823	81.11	-2.03	-2.4%	84.00	85.62	46.88	112.44
IOPI65	65% Fe Fines	733	-5	-0.7%	762	795	654	992	96.03	-0.48	-0.5%	99.86	106.60	85.47	135.34

IRON ORE SEABORNE INDEX (IOSI)

October 29th 2019		CFR Qingdao, USD/dry tonne						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low [2]	High [2]
IOSI62	62% Fe Fines	88.35	-0.80	-0.90%	91.40	95.06	62.95	127.50
IOSI65	65% Fe Fines	95.55	-0.60	-0.62%	97.86	106.55	83.20	137.95

MARKET COMMENTARY

Physical iron ore port stock fell by 5-15yuan/mt during the morning session and concluded transaction were low, though most mills in Shandong and Tangshan have resumed production. Mills prefer to hold low inventory levels due to the increasing supply of iron ore and the low steel profit margins . Major Chinese ports saw arrivals of seaborne iron ore rising last week, after two consecutive weeks of decline, SMM data showed on Tuesday October 29. SMM estimates that 96 vessels carrying 13.37 million mt of iron ore arrived at major Chinese ports during October 20-26, up 2.87 million mt from the week ended October 19. Arrivals at ports in Shandong province expanded significantly. Last week, iron ore deliveries leaving Australian ports increased 1.43 million mt from the prior week to 13.64 million mt. Shipments that departed Brazilian ports were also estimated to climb, by 1.51 million mt on the week. Greater shipments are expected to further grow iron ore port inventories in China in the weeks ahead.

IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending October 25th, 2019		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne [3]						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low [2]	High [2]	Price	W-oW	Change %	MTD	YTD	Low [2]	High [2]
IOPLI62	62.5% Fe Lump	819	-11	-1.3%	829	885	736	1051	100.45	-1.37	-1.35%	101.74	112.19	91.65	133.81

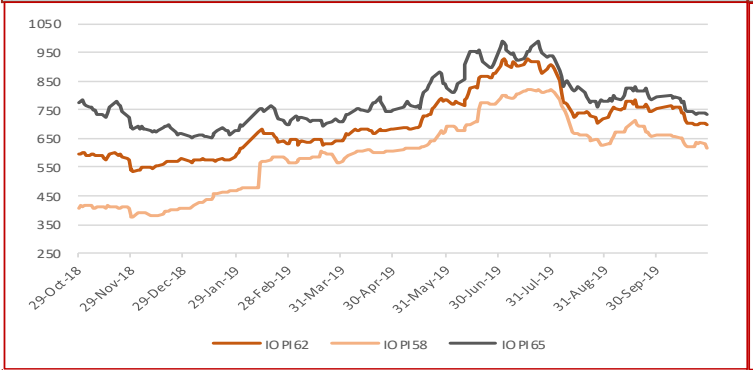
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending October 25th, 2019				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	820	-3.8%	644	1032	115.96	-3.73%	93.58	150.03
Hebei	Qian'an	65% Fe Concentrate	Dry	900	-0.6%	690	960	127.27	-0.53%	100.26	139.35
Liaoning	Anshan	65% Fe Concentrate	Wet	650	0.0%	535	745	91.92	0.02%	77.39	104.66
Shandong	Zibo	65% Fe Concentrate	Dry	855	-4.5%	740	1040	120.91	-4.45%	106.55	151.33

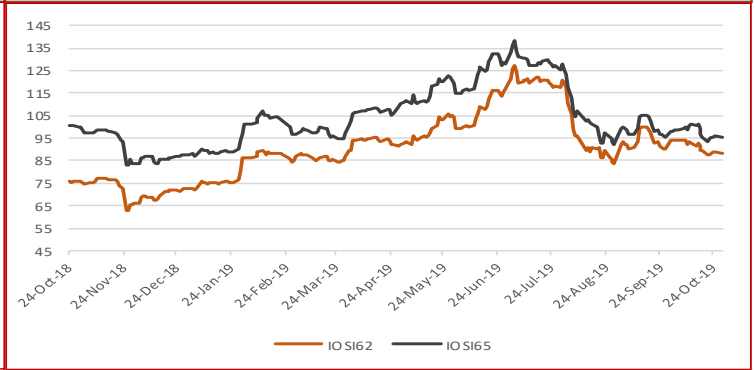
Week Ending October 25th, 2019	This week	Change %	Low [2]	High [2]
China Mines Concentrate Composite Index RMB/WT	749.58	-1.6%	609.04	859.50

[1] Exchange rate applied: RMB/USD = 7.0617 [2]Last 12 months
[3] Weekly exchange rate applied: RMB/USD 7.0715

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

October 29th 2019		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	June	July	August	September	MTD	QTD	YTD
IOPI62	62% Fe Fines	825	909	759	758	**725**	725	728	98.40	111.42	123.29	100.18	**94.84**	94.84	97.22
IOPI58	58% Fe Fines	726	809	691	674	**639**	639	640	86.39	98.60	110.47	91.86	**84.00**	84.00	85.62
IOPI65	65% Fe Fines	901	954	823	803	**762**	762	795	110.00	121.97	129.53	108.92	**99.86**	99.86	106.60

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

October 29th 2019		CFR Qingdao, USD/dry tonne						
Index	Fe Content	June	July	August	September	MTD	QTD	YTD
IOSI62	62% Fe Fines	108.57	120.82	92.61	93.76	**91.40**	91.40	95.06
IOSI65	65% Fe Fines	124.49	129.53	101.34	99.42	**97.86**	97.86	106.55

FREIGHT RATES

October 28th 2019		FREIGHT RATES - DRY BULK US$/wet tonne				
Route	Designation		Change	Change %	Low [2]	High [2]
W. Australia - Qingdao	C5	9.26	0.00	-0.04%	4.39	11.42
Tubarao - Qingdao	C3	20.60	0.16	0.78%	11.61	29.10

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

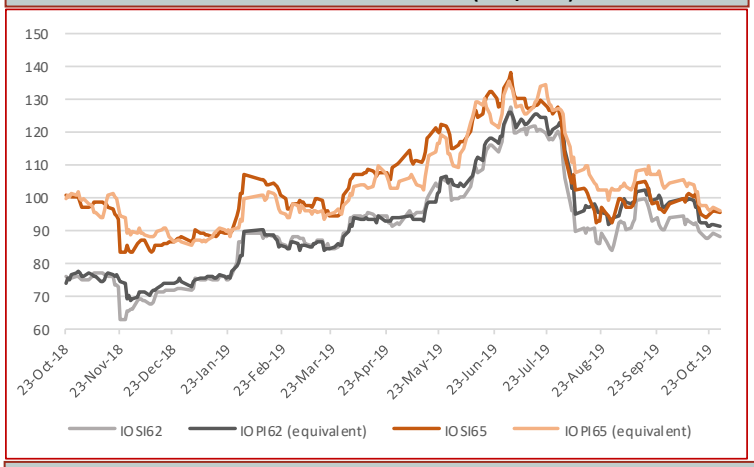
Week Ending October 25th, 2019		FOT Qingdao (inc. 16% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne [1]						
Index	Fe Content	June	July	August	September	MTD	QTD	YTD	May	June	July	September	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	1009	1046	870	803	**829**	835	885	128.00	132.99	108.80	98.44	**101.74**	102.39	112.19

IRON ORE INDEX PREMIUMS/DISCOUNTS

October 29th 2019		PORT STOCK INDEX (RMB/WT)	
Index	Fe Content	Spread to IOPI62	% Spread to IOPI62
IOPI58	58% Fe Fines	-80	-11.48%
IOPI65	65% Fe Fines	36	5.16%

October 29th 2019		SEABORNE INDEX (USD/DMT)	
Index	Fe Content	Spread to IOSI62	% Spread to IOSI62
IOSI65	65% Fe Fines	7.20	8.15%

IRON ORE INDEX COMPARISONS (USD/DMT)



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

IRON ORE BRAND SPOT PRICE ASSESMENTS

October 29th 2019	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI62
Roy Hill	678	-5	-19
SIMEC Fines	688	-4	-9
PB Fines	678	-3	-19
Newman Fines	702	-5	5
MAC Fines	688	-5	-9
Jimblebar Blended Fines	639	2	-58
Carajas Fines	736	-5	39
Brazilian SSF	708	-5	11
Brazilian Blend Fines	702	-5	5
RTX Fines	664	3	-33
West Pilbara Fines	675	-5	-22

October 29th 2019	SEABORNE INDEX (USD/DMT)		
	Price	Change	Diff to IOSI62
Roy Hill	87.16	-0.56	-1.19
SIMEC Fines	86.11	-0.21	-2.24
PB Fines	87.59	-0.63	-0.76
Newman Fines	88.69	-0.72	0.34
MAC Fines	86.71	-0.51	-1.64
Jimblebar Blended Fines	79.66	0.01	-8.69
Carajas Fines	95.61	-0.80	7.26
Brazilian SSF	89.29	-0.17	0.94
Brazilian Blend Fines	89.41	-0.55	1.06
RTX Fines	82.11	-0.46	-6.24
West Pilbara Fines	86.96	-0.61	-1.39

October 29th 2019	PORT STOCK INDEX (RMB/WT)		
	Price	Change	Diff to IOPI58
SSF	564	-3	-53
FMG Blended Fines	619	-13	2
Robe River	569	-4	-48
Western Fines	568	-10	-49
Atlas Fines	555	-9	-62
Yandi	590	-14	-27

IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port Stock Index Product Differentials (RMB/wet tonne)

	Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	8.00	0.00
	High Grade Fe 63 - 64%	8.00	0.00
	High Grade Fe 64 - 65%	8.00	0.00
	High Grade Fe 65 - 65.5%	8.00	0.00
	Low Grade Fe	17.00	-3.00
1% Alumina	High Fe Grade Al <2.25%	3.00	0.00
	High Fe Grade Al 2.25-4%	23.00	-6.00
	Low Fe Grade Al <2.25%	7.00	0.00
	Low Fe Grade Al 2.25-4%	23.00	-10.00
1% Silica	High Fe Grade Si <4%	4.00	0.00
	High Fe Grade Si 4-6.5%	3.00	0.00
	Low Fe Grade	21.00	0.00
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	3.00	-1.00
	High Fe Grade 0.115%<P<0.15%	0.00	0.00
	Low Fe Grade 0.09<P<0.1%	0.00	0.00

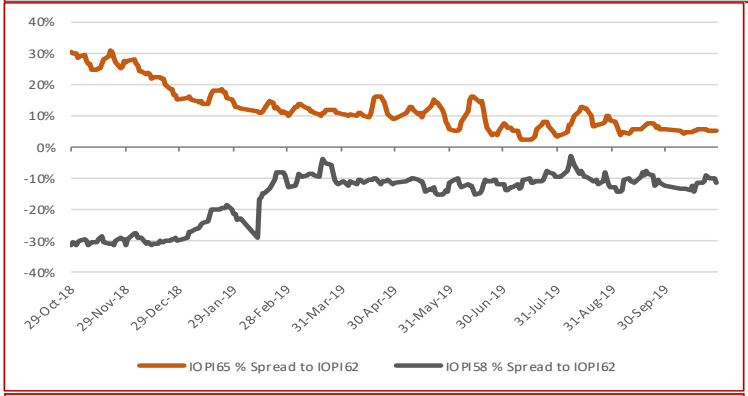
Seaborne Index Product Differentials (USD/dry tonne)

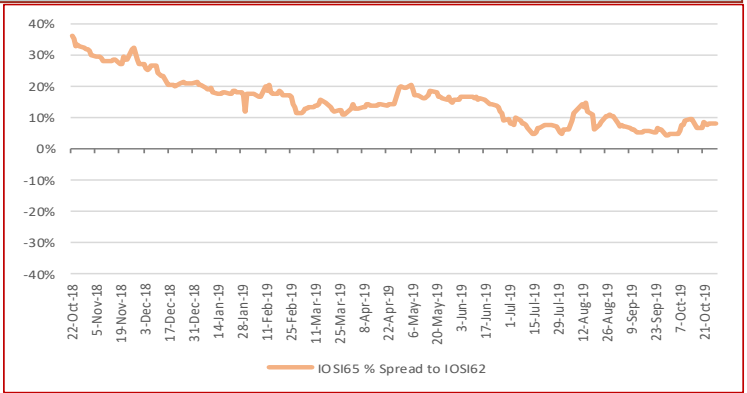
	Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	0.50	0.00
	High Grade Fe 63 - 64%	1.50	0.00
	High Grade Fe 64 - 65%	1.50	0.00
	High Grade Fe 65 - 65.5%	1.50	0.00
1% Alumina	High Fe Grade Al <2.25%	1.75	0.00
	High Fe Grade Al 2.25-4%	1.75	-0.25
1% Silica	High Fe Grade Si <4%	1.00	0.00
	High Fe Grade Si 4 - 6.5%	0.50	-0.25
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.00	0.00
	High Fe Grade 0.115%<P<0.15%	2.25	0.00

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

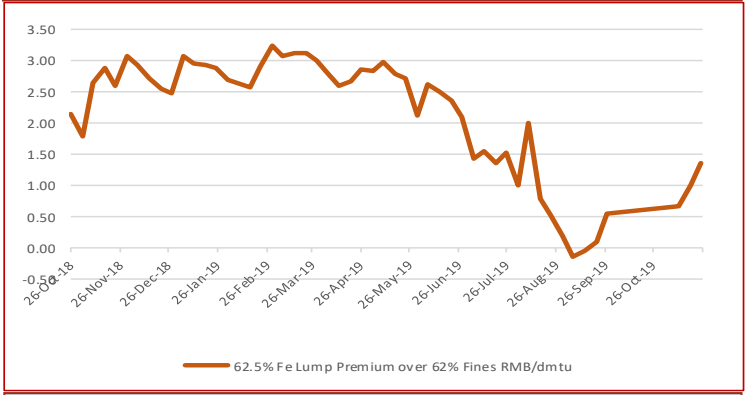
Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-50.00	0.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-25.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	0.00	0.00	Jingtang	0.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-50.00	0.00	Lanqiao	0.00	0.00	Nantong	-10.00	0.00	Tianjin	-15.00	0.00

IRON ORE INDEX PREMIUMS/DISCOUNTS

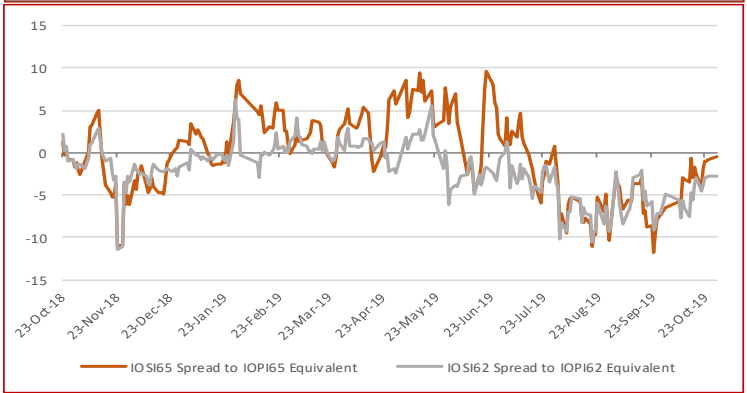




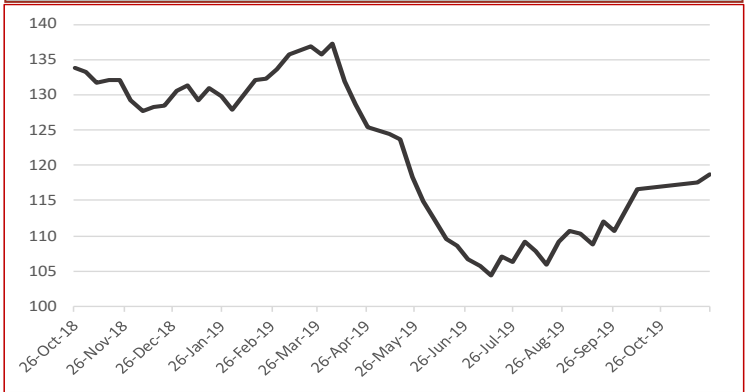
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



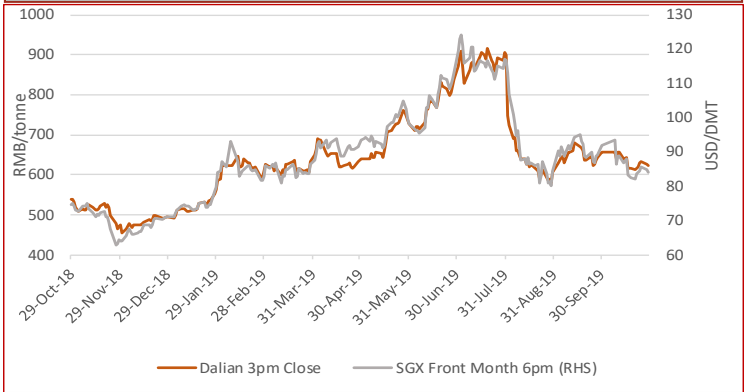
IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES (MILLION TONNES)

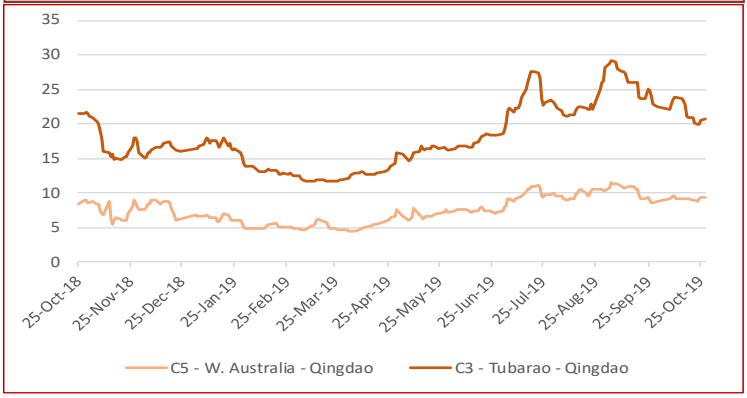
Week Ending October 25th, 2019

Province	This week	Change %	Low [2]	High [2]
Jingtang	17.00	1.92%	10.80	16.68
Qingdao	13.34	-1.19%	12.38	19.01
Caofeidian	16.78	0.36%	14.32	19.96
Tianjin	6.97	-5.81%	6.37	10.05
Rizhao	14.02	2.64%	11.41	17.10
Total (35 Ports)	118.79	1.09%	104.40	137.30

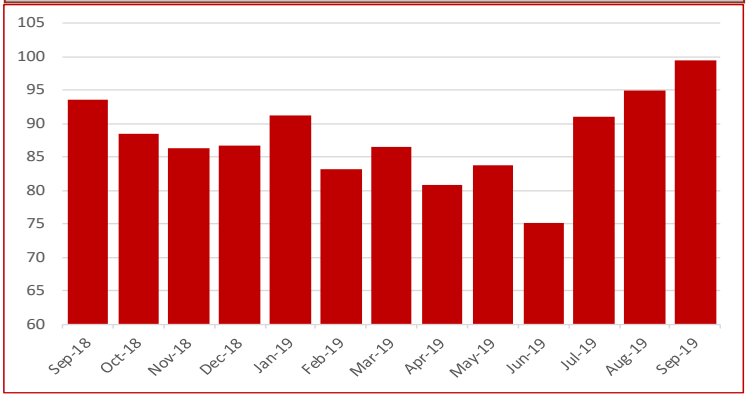
IRON ORE FUTURES CONTRACTS

	DCE (RMB/WMT)			SGX (USD/DMT)		
Closing Date	Oct 29th 3pm close			Oct 29th 5.30 pm		
Contract	I2001	Change	Change %	Nov'19	Change	Change %
Closing Price	622.00	-5.0	-0.80%	84.04	-0.60	-0.71%
Vol traded ('000 lots)	148.53	-21.0	-12.39%	9.50	2.47	35.09%
Open positions ('000 lots)	158.44	-6.9	-4.18%	121.79	0.09	0.08%
Day Low	619.0	-7.0	-1.12%	83.60	-0.70	-0.83%
Day High	627.5	-14.5	-2.26%	84.60	-1.30	-1.51%

DRY BULK FREIGHT RATES (USD/MT)



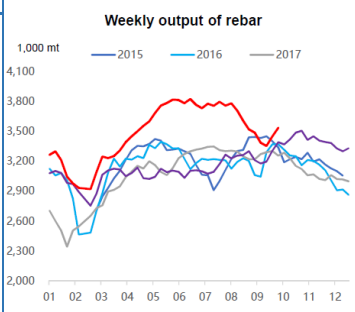
TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)

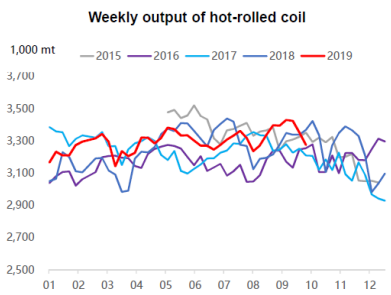


STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne

Product	25/10/2019	Change	Change %
ReBar HRB400 ϕ18mm	3,670.0	0	0.00%
Wirerod Q300 ϕ6.5mm	4,060.0	20	0.50%
HRC Q235/SS400 5.5mm*1500*C	3,510.0	0	0.00%
CRC SPCC/ST12 1.0mm*1250*2500	4,220.0	-20	-0.47%
Medium & Heavy Plate Q235B 20mm	3,700.0	0	0.00%
GI ST02Z 1.0mm*1000*C	4,380.0	-50	-1.13%
Colour Coated Plate	6,850.0	-50	-0.72%





CHINESE STEEL MILL PROFITABILITY

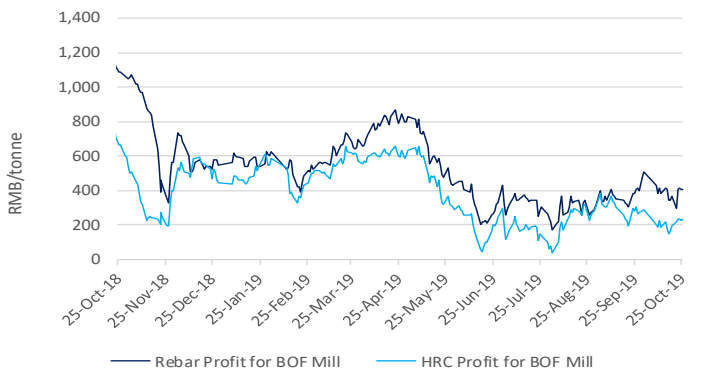
SMM Tracking of Steel Mill P&L - Rebar and Hot-rolled Coil (RMB/tonne)

Category	Price	Change (WoW)	Note
MMi (Fe 62%), USD/mt exluding tax	88.60	-0.90	Mmi CFR Equivalent index for 1st Feb
Coke	1,860	-50	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	2,280	0	steel scrap (6mm) in Zhangjiagang, exl. tax
Billet Cost	2,973	-38	Q234, incl. tax
Rebar cost - Blast furnace	3,211	-39	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	409	39	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,290	-37	based on actual weight, incl. tax
Hot-rolled coil proft - Blast furnace	230	37	based on Shanghai prices, incl. tax

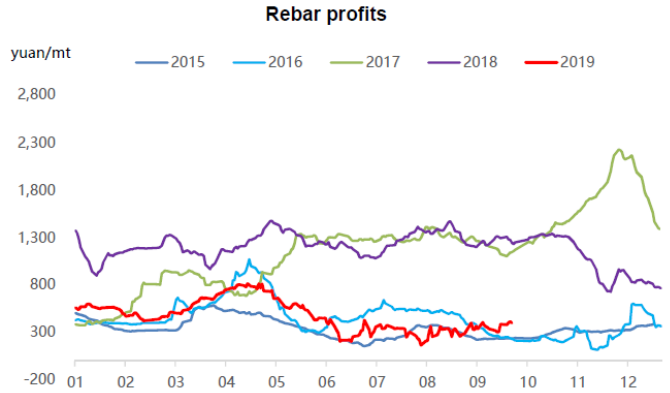
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

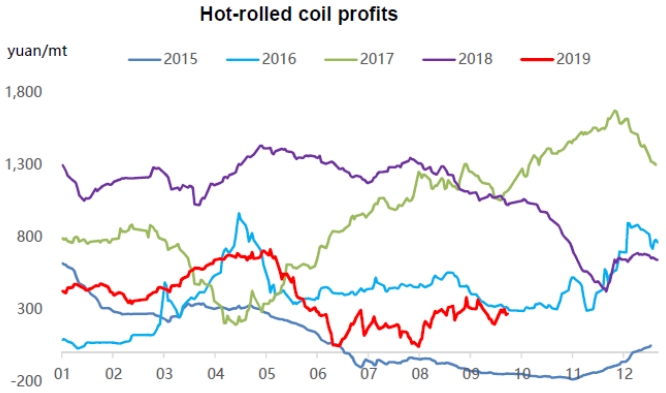
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

CHINESE STEEL MILL PROFITABILITY

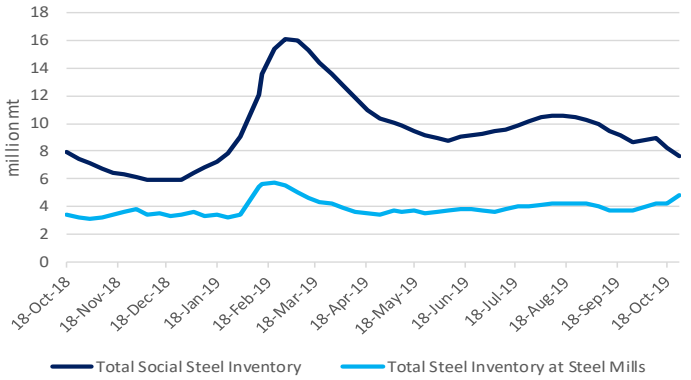


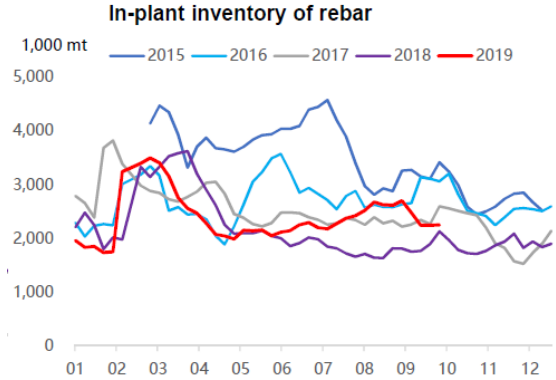
CHINESE STEEL MILL PROFITABILITY





CHINESE STEEL INVENTORIES





IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

Iron Ore Index Specifications (Port and Seaborne)

	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump
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

Iron Ore Index Compilation Rationale and Data Exclusions

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

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

October 29th 2019	Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture
Roy Hill	61.16%	2.25%	4.61%	0.052%	9.35%
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%
PB Fines	61.55%	2.39%	3.69%	0.097%	9.57%
Newman Fines	62.50%	2.19%	4.13%	0.092%	7.74%
MAC Fines	60.87%	2.26%	4.63%	0.080%	7.66%
Jimblebar Blended Fines	60.44%	3.05%	4.59%	0.119%	7.70%
Carajas Fines	65.42%	1.28%	1.36%	0.078%	8.23%
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
Brazilian Blend Fines	62.92%	1.54%	4.60%	0.069%	8.39%
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%

October 29th 2019	Specifications applied for 58% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture
SSF	56.57%	3.05%	6.23%	0.051%	8.19%
FMG Blended Fines	58.18%	2.66%	5.46%	0.057%	7.85%
Robe River	56.28%	2.91%	5.58%	0.035%	9.29%
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%
Yandi	57.22%	1.58%	6.36%	0.041%	9.00%

SEABORNE BRANDS

	Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.70%	2.30%	4.90%	0.055%	8.00%
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%
PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%
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 Blend Fines	62.50%	1.50%	5.00%	0.070%	7.00%
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%

BLOOMBERG TICKERS

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

	SEABORNE INDICES
	CFR Qingdao (USD/DMT)
IOSI62	IRCN0034
IOSI65	IRCN0035

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