

# MMi Dashboard

### **Iron Ore Price Indices**

Iron Ore Port Stock (FOT Qingdao)
IOPI62 62% Fe Fines RMB/t

648

0.00%

March 4th, 2019

Iron Ore Port Stock (FOT Qingdao) IOPI65 65% Fe Fines RMB/t

1

**730** 

16 2.24%

March 4th, 2019

Iron Port Stock (FOT Qingdao) IOPI58 58% Fe Fines RMB/t



**567** 

0.71%

March 4th, 2019

Iron Ore Seaborne (CFR Qingdao)
IOSI62 62% Fe Fines USD/dmt



87.90

1.00 1.15%

March 4th, 2019

Iron Ore Seaborne (CFR Qingdao)
IOSI65 65% Fe Fines USD/dmt



98.05

1.15 1.19%

March 4th, 2019

Iron Ore Port Stock (FOT Qingdao)
IOPLI 62.5% Fe Lump RMB/t



864

1 -0.12%

Week Ending March 1st, 2019

### **Exchange Traded Contracts**

DCE Iron Ore 62% Fines I1905 (May) RMB/t



**620.50** 

-5.00 -0.80%

March 4th, 2019

(3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines Mar'19 USD/dmt



85.38

-0.57 -0.66%

March 4th, 2019 (6pm Print)

SHFE Rebar RB1905 (May) RMB/t

**Steel Price** 

Steel Rebar (China Domestic) RMB/t



3811

-4.00 -0.10%

March 4th, 2019

(3pm close)

### **Freight Rates**

C3, Tubarao - Qingdao USD/t



March 1st, 2019

12.45

-0.04 -0.33%

C5, W. Australia - Qingdao USD/t



March 1st, 2019

4.84

-0.03 -0.55%

3887 32 0.83%

- -

Week Ending March 1st, 2019

### **Inventory Levels**

Iron Ore Inventory at Chinese Ports (35) million tonnes



133.57

1.25 0.94%

Week Ending March 1st, 2019

Steel Inventory in China million tonnes



18.62

0.65 3.64%

Week Ending March 1st, 2019

## **Steel Price**

Steel HRC (China Domestic) RMB/t



3856

54 1.42%

Week Ending March 1st, 2019

MMi D	aily Iron Oi	re Inde	x Report										March	4th, 20	019
						IRON OR	E PORT S	TOCK INDEX	X (IOPI)						
March 4t	h 2019		FOT Oir	adao (in	ıc. 16% VAT				1	Oinadao	Fauivalen	t (evc. 16	% VAT), US	D/dry tor	nne 1
		D-i						11:-L 2						Low 2	
Index IOPI62	<b>Fe Content</b> 62% Fe Fines	Price 648	Change 0	Change 9	<b>% MTD</b> 648	<b>YTD</b> 612	Low <sup>2</sup> 443	High <sup>2</sup> 681	Price 86.65	-0.12	Change %	6 MTD 86.71	<b>YTD</b> 80.91	61.36	High <sup>2</sup> 90.41
IOPI58	58% Fe Fines	567	4	0.7%	565	500	304	588	75.33	0.46	0.6%	75.10	65.50	40.67	78.17
IOP165	65% Fe Fines	730	16	2.2%	722	697	541	784	98.11	2.11	2.2%	97.05	92.70	75.83	101.79
101 103	03/01 € 1 111€3						341	704	30.11	2.11				73.03	101.75
Na	2040	J.	RON ORE SEA						lana ana DOS Subura			ET COMM	higher though the n	ald and a decided	
March 4th,					ngdao, USD/d			2	transaction prices l	kept stable, altho	ough quotes early	in the morning pul	led rose by 10-15yu cording to SMM, fro	an/mt. Traders say	y the majority mil
Index	Fe Content	Price	Change	Change 9		YTD	Low <sup>3</sup>	High <sup>3</sup>	with 22 blast furna	ces were told to	shut down . Mill d	lemand for iron or	e may drop off, whic	h could cause a dr	rag iron ore price:
IOSI62	62% Fe Fines	87.90	1.00	1.15%	87.40	81.46	62.95	89.20	nowever, as a prod	auction cut is ber	iericiai to steei pri	ces, the slow down	n in prices may prov	e to be temporary.	
IOSI65	65% Fe Fines	98.05	1.15	1.19%	97.48	95.70	83.20	106.85							
						IRON OR	E PORT LI	JMP INDEX	(IOPLI)						
Week Endin 2019	ig March 1st,		FOT C	ingdao (ir	nc. 16% VAT),	RMB/wet	tonne		С	FR Qingda	o Equivale	nt (exc. 169	% VAT), USD,	dry tonne	1
Index	Fe Content	Price	W-o-W	Change %	6 MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>	Price	W-oW	Change %	MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>
IOPLI62	62.5% Fe Lump	864	-1	-0.1%	864	815	565	865	112.12	0.19	0.2%	112.12	104.54	76.63	112.12
			IRO	N ORE DO	OMESTIC CO	NCENTRA	TE SPOT P	RICE ASSES	SMENTS AN	D COMP	OSITE INDI	EX			
Week Endi	ng March 1st, 2	019				RMB/to	nne (exclu	ding tax) 4				USD/tonne	e (excluding t	ax) <sup>4</sup>	
Province	Region	Produc	ct	Basis	This week	Change	e %	Low <sup>2</sup>	High <sup>2</sup>	This	week	Change %	Low	/ <sup>2</sup>	High <sup>2</sup>
Hebei	Hanxing	66% Fe	e Concentrate	Dry	785	-0.49	%	579	802	11	7.23	0.34%	11.2	23	118.53
Hebei	Qian'an	65% Fe	e Concentrate	Dry	765	-1.39	%	630	815	11	4.25	-0.57%	100.	26	117.34
Liaoning	Anshan	65% Fe	e Concentrate	Wet	595	0.0%	6	445	745	88	3.86	0.73%	68.2	21	88.86
Shandong	Zibo	65% Fe	e Concentrate	Dry	815	-3.09	<b>%</b>	620	860	12	1.71	-2.27%	99.7	75	127.11
Week Ending March 1st, 2019 This v				This we	eek Chan	ge %	Low 5	High <sup>5</sup>	<sup>1</sup> Exchange rate	applied: RMB/	USD = 6.7049 <sup>2</sup>	Since March 1	<sup>3</sup> Since June 1		
China Mines	Concentrate Con	nposite Inc	dex RMB/WT	677.8	33 -1.2	2%	534.50	685.87	<sup>4</sup> Weekly excha	inge rate applie	ed: RMB/USD 6.6	5960 <sup>5</sup> Last 12 mc	onths		
	IRON (	ORE POR	T INDEX, FO	T QINGD	AO (RMB/W	T)			IRON OR	E SEABOI	RNE INDEX	, CFR QIN	GDAO (USE	)/DMT)	
850								115							
750 —					50		-0	105 —							<b>~</b>
650			~~~		4	~~		95 ——		~~	~~	<b>~~</b>	\	/	<b>イ </b>
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550		~~~	~~~	سمسم				75 ——				مسر	١ _	لىسى	
450					~~~			65					h		
350 ~~								55 ——							
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2-Apr-18	2-May-18 2-May-18 17-May-18 1-Jun-18	1-Jul-18 16-Jul-18	31-Jul-18 15-Aug-18 30-Aug-18	29-Sep-18 14-Oα-18	29-0d-18 13-Nov-18 28-Nov-18 13-Dec-18	28-Dec-18 12-Jan-19 27-Jan-19	11-Feb-19 26-Feb-19	1-Jun-18	29-Jun-18 13-Jul-18 27-Jul-18	10-Aug-18	7-Sep-18 21-Sep-18 5-Oct-18	19-0d-18 2-Nov-18	30.Nov-18	28-Dec-18 11-Jan-19 25-Jan-19	8-Feb-19 22-Feb-19
		101	PI 62 IC	) PI 58 -	- IO PI 65					_	10 SI62				
		I	IRC	ON ORE P	ORT STOCK	INDEX MO	ONTHLY, C	QUARTERLY	AND YEAR-1	TO-DATE	AVERAGE	S			
March 4t	h, 2019		FOT Qi	ngdao (ir	nc. 16% VAT	), RMB/w	et tonne		CFR	Qingdao	Equivaler	nt (exc. 16	% VAT), US	D/dry ton	ine <sup>1</sup>
Index			erDecember	-	-	MTD	QTD	YTD	NovemberD		-	•	MTD	QTD	YTD
IOPI62	62% Fe Fines	564	559	580	654	648	612	612	65.25	72.55	76.16	87.09	86.71	80.91	80.91
IOPIS8	58% Fe Fines	401	392	448	569	565	500	500	45.84	50.47	57.99	75.22	75.10	65.50	65.50
IOPI65	65% Fe Fines	760	681	670	733	722	697	697	92.13	99.05	88.65	98.08	97.05	92.70	92.70
IROI	N ORE SEABOR	KNE INDI	EX MONTHLY	r, QUARI	ERLY AND Y	EAR-10-D	A I E AVER	AGES			FI	REIGHT RA	TES		
March 4th,	1				ngdao, USD/d	lry tonne			March 1st, 2019				ATES - DRY BUI		
Index	Fe Content		er December	•	•	MTD	QTD	YTD	Route		nation	Change	Change %	Low 5	High <sup>5</sup>
IOSI62	62% Fe Fines	72.91	69.96	76.09	87.39	87.40	81.46	81.46	W. Australia - Qir		25 4.84	-0.03	-0.55%	4.81	10.00
IOSI65	65% Fe Fines	94.05	85.95	89.92	102.56	97.48	95.70	95.70	Tubarao - Qingda		12.45		-0.33%	12.45	24.76
			IRO	ON ORE P	PORT LUMP	INDEX MC	NTHLY, Q	UARTERLY	AND YEAR-T	O-DATE	AVERAGES				
Week Endin 22nd, 2019	g February		FOT	Qingdao (i	nc. 16% VAT)	, RMB/wet	tonne		(	CFR Qingda	ao Equivale	nt (exc. 16	% VAT), USD	dry tonne	; <sup>1</sup>
Index	Fe Content	Novemb	er December	January	y February	MTD	QTD	YTD	November I	December	January	February	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	771	749	782	842	864	815	815	96.21	94.22	99.57	108.63	112.12	104.54	104.54
					IF	RON ORE I	NDEX PRE	MIUMS/DI	ISCOUNTS						
March 4th,	2019			PORT STO	OCK INDEX (RM	1B/WT)		March 4th,	2019			SEABOR	RNE INDEX (US	SD/DMT)	
Fe Content Spread to IOPI62 % Spread to IOPI62 Fe Content Spread to IOSI62 % Spread to IOSI62															
	Fe Content		Spread	to IOPI62	%	Spread to I	OPI62		Fe Content		Spre	ad to IOSI62		% Spread to	0 103162
	<b>Fe Content</b> 58% Fe Fines 65% Fe Fines		-	to IOPI62 81 82	%	Spread to I -12.50% 12.65%	5		Fe Content 65% Fe Fines		Spre	ad to IOSI62		% Spread to 11.55	

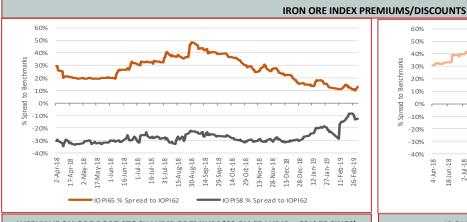




	IRON ORE BRAND SPOT PRICE ASSESMENTS										
March 4th, 2019	PORT STOCK INDEX (RMB/WT)			March 4th, 2019	SEABORNE INDEX (USD/DMT)						
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62				
Roy Hill	627	1	-21	Roy Hill	82.26	0.00	-5.64				
SIMEC Fines	618	12	-30	SIMEC Fines	79.11	0.00	-8.79				
PB Fines	633	1	-15	PB Fines	86.24	0.00	-1.66				
Newman Fines	662	1	14	Newman Fines	89.15	0.00	1.25				
MAC Fines	632	5	-16	MAC Fines	82.81	0.00	-5.09				
Jimblebar Blended Fines	606	5	-42	Jimblebar Blended Fines	79.24	0.00	-8.66				
Carajas Fines	742	18	94	Carajas Fines	96.95	0.00	9.05				
Brazilian SSF	666	26	18	Brazilian SSF	86.90	0.00	-1.00				
Brazilian Blend Fines	657	11	9	Brazilian Blend Fines	88.77	0.00	0.87				
RTX Fines	617	5	-31	RTX Fines	80.16	0.00	-7.74				

March 4th, 2019  SSF FMG Blended Fines Robe River Western Fines	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI58			
SSF	497	4	-70			
FMG Blended Fines	567	4	0			
Robe River	516	4	-51			
Western Fines	501	4	-66			
Atlas Fines	500	4	-67			
Yandi	559	0	-8			

				IRON ORE IN	NDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (R	MB/wet tonne	)	Sea	aborne Inde	x Product Di	fferentials (	(UDS/dry tonne	e)
	Ар	plicable range		Value	Change		A	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		10.00	0.00		High Grad	de Fe 60 - 63	%	3.00	0.00
	High Grade	High Grade Fe 63 - 64% High Grade Fe 64 - 65% High Grade Fe 65 - 65.5%		20.00	0.00		High Grad	High Grade Fe 63 - 64% High Grade Fe 64 - 65%		2.00	0.00
1% Fe	High Grade			20.00	0.00	1% Fe	High Grad			2.00	0.00
	High Grade			20.00	0.00		High Grad	de Fe 65 - 65	.5%	2.00	0.00
	Low Grade	Low Grade Fe		19.00	0.00						
	High Fe Gra	High Fe Grade Al <2.25% High Fe Grade Al 2.25-4%		23.00	10.00		High Fe G	rade Al <2.2	5%	1.50	0.00
1% Alumina	High Fe Gra			12.00	-3.00	40/ 41	High Fe G	rade Al 2.25	-4%	1.25	0.00
	Low Fe Gra	de Al <2.25%		35.00	-5.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		33.00	0.00						
	High Fe Gra	ade Si <4%		5.00	3.00		High Fe G	rade Si <4%		0.75	0.00
1% Silica	High Fe Gra	ade Si 4-6.5%		10.00	-5.00	1% Silica	High Fe Grade Si 4 - 6.5%		5%	0.75	0.00
	Low Fe Gra	de		20.00	0.00						
2.040/	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>2.00</td><td>0.00</td><td>0.01%</td><td>High Fe G</td><td>rade 0.09%&lt;</td><td>P&lt;0.115%</td><td>0.00</td><td>0.00</td></p<0<>	.115%	2.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.00	0.00
0.01%	High Fe Gra	ade 0.115% <p<< td=""><td>0.15%</td><td>2.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>1.00</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	2.00	0.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>1.00</td><td>0.00</td></p<0.15%<>	1.00	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>%</td><td>2.00</td><td>0.00</td><td>·</td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	2.00	0.00	·					
			Port S	tock Price Differe	ntials to Qingda	ao Port for PB Fine	s (RMB/wet t	onne)			
Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-35.00	0.00	Fangchen	g -5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-15.00	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	-15.00	0.00	Lanqiao	0.00	0.00	Nantong	-15.00	0.00	Tianjin	-15.00	0.00

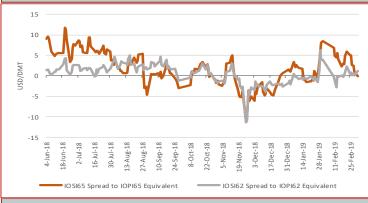




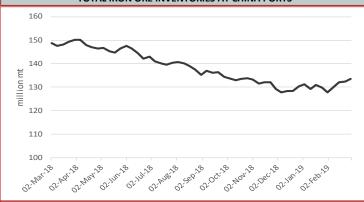
### WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (62.5% FE LUMP—62% FE FINES)



### IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS



### TOTAL IRON ORE INVENTORIES AT CHINA PORTS



FUTURE TRADING—FRONT MONTH CLOSING PRICE	
650	93
600	. 88
€ 550	83 g
8M8 (700	78 77 78 78 78 78 78 78 78 78 78 78 78 7
£ 500	73 CSN
450	68
The particular of the particul	63
400	58
5-Apr-18 20-Apr-18 20-May-18 60-May-18 4-Jun-18 19-Jun-18 3-Aug-18 3-Aug-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Oct-18 11-Oct-18 11-Dec-18 11-Dec-18 11-Dec-18 11-Dec-18 11-Jul-18 11-Jul-18 11-Dec-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18 11-Jul-18	i 5
5-Apr-18 5-May-18 5-May-18 4-Jun-18 4-Jun-18 4-Jul-18 19-Jul-18 19-Jul-18 19-Jul-18 17-Sep-18 17-Sep-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17-Oct-18 17	
Dalian 3pm Close SGX Front Month 6pm (RHS)	

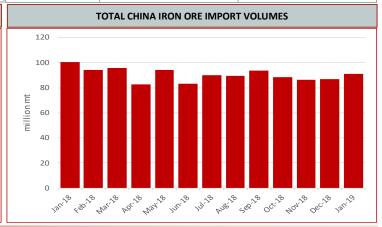
# IRON ORE PORT INVENTORIES Week Ending March 1st, 2019 (million t

	Week Ending March 1st, 2019 (million tonnes)										
Province	This week	Change %	Low <sup>4</sup>	High <sup>4</sup>							
Jingtang	14.34	-1.10%	13.29	19.00							
Qingdao	18.81	5.26%	16.09	19.97							
Caofeidian	17.15	-2.56%	16.30	25.30							
Tianjin	9.18	1.10%	8.50	11.00							
Rizhao	16.68	1.40%	14.00	19.00							
Total (35 Ports)	133.57	0.94%	127.72	150.04							

		DCE		SGX				
Closing Date	4t	h Mar 3pm cl	ose	4t	4th mar Feb 6 pm			
Contract	11905	Change	Change %	Mar'19	Change	Change %		
Closing Price	620.5	-5.0	-0.80%	85.38	-0.57	-0.66%		
Vol traded ('000 lots)	284.90	134.7	89.65%	6.41	-3.81	-37.24%		
Open positions ('000 lots)	105.33	-4.2	-3.81%	123.83	2.22	1.83%		
Day Low	619.0	11.0	1.81%	84.72	1.51	1.81%		
Day High	647.0	19.0	3.03%	89.91	3.96	4.61%		

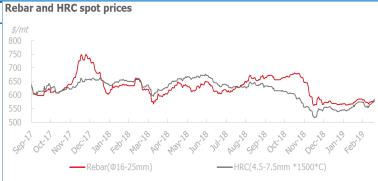
**IRON ORE FUTURES CONTRACTS** 

# DRY BULK F REIGHT RATES 30 25 20 15 10 5 0 Referred to the first to t



### STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne			
Product	1/3/2019	Change	Change %
ReBar HRB400 ф18mm	3,887.0	32	0.83%
Wirerod Q300 ¢6.5mm	3,986.0	44	1.12%
HRC Q235/SS400 5.5mm*1500*C	3,856.0	54	1.42%
CRC SPCC/ST12 1.0mm*1250*2500	4,353.0	27	0.62%
Medium & Heavy Plate Q235B 20mm	3,983.0	17	0.43%
GI ST02Z 1.0mm*1000*C	4,735.0	65	1.39%
Billet Q235 150*150mm	3,490.0	70	2.05%



	CHINESE STEEL EXPORT PRICES									
China Export Prices USD/t	onne									
Product	Specification	Export tax (+)/Vate rebate (-)		Change						
			1/3/2019							
Rebar	BS4449 460B 12-25mm, + chrome	-13%	530	5						
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	535	0						
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	525	0						
Cold-rolled coil	SPCC 1.0mm	-13%	565	0						
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	550	20						
Galvanised	ST02Z/SGCC 1.0mm	-13%	580	0						

Note: Calculation formula for converting export prices of rebar, cold-rolled steel and galvanizing into prices in China's spot market = FOB\* exchange rate\*1.6/(1.6-0.3); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*1.6/(1.6-0.0.9); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB\* exchange rate

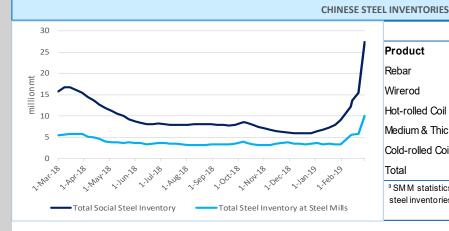


### **CHINESE STEEL MILL PROFITABILITY**

SMM Tracking o	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	86.77	1.65	Mmi CFR Equivalent index for 1st Feb						
Coke	2,070	0	2nd grade met coke, Tangshan, incl. tax						
Steel Scrap	2,190	-20	steel scrap (6mm) in Zhangjiagang, exl. tax						
Billet Cost	3,030	5	Q234, incl. tax						
Rebar cost - Blast furnace	3,283	4	calculated based on theoretical w eight, incl. tax						
Rebar profit - Blast furnace	528	47	based on Shanghai prices, incl. tax						
Hot-rolled coil cost - Blast furnace	3,355	5	based on actual weight, incl. tax						
Hot-rolled coil proft - Blast furnace	525	95	based on Shanghai prices, incl. tax						
Note: 1 Costs in the table are caluclated based o	n todavs market	nrices and facout ou	r management sales financial and depreciations fees						

Note. Loosts in the table are calluctated based on todays market prices and facout our management, sales, infancial and depreciations le

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



Steel Inver	ntories³ (unit	1000 tonnes	;)	
Product	1/3/2019	22/2/2019	Change	Change %
Rebar	10,206	9,634	572	5.94%
Wirerod	3,134	3,052	82	2.69%
Hot-rolled Coil	2,739	2,725	14	0.51%
Medium & Thick Plate	1,340	1,351	-11	-0.81%
Cold-rolled Coil	1,199	1,201	-2	-0.17%
Total	18,618	17,964	654	3.64%

<sup>&</sup>lt;sup>3</sup> SMM statistics cover inventories of major steel products in China's major markets: hot-rolled steel inventories in 33 major cities; rebar and wire inventories in 35 major cities; cold-rolled steel and medium-thick plate inventories in 31major cities.

	IKON OKE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS												
	Iron Ore	Index Specifications	(Port and Seaborne	)	Iron Ore Ind	ex Compilation	Rationale and Da	ata Exclusions					
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indice	MMi iron ore indices are compiled from data provided by companies that are							
Fe %	65.00	62.00	58.00	62.50	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								
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specifications and								
Silica%	1.50	4.00	5.50	3.50	screened to remove outliers before volume-weighted average prices are calculated from the remaining core set of data.								
Phosphorus %	0.06	0.09	0.05	0.08	For more details on MMi's iron ore methodology please download the guide								
Sulphur %	0.01	0.02	0.02	0.02	published on our website at: www.mmiprices.com								
Moisture %	8.00	8.00	9.00	4.00									
	Granular size be	elow 10mm for at lea	st 90% of cargo:	Size below 6.3mm max 15%		Data Ex	clusions*	65%					
Sizing		ım of 40% below 150	Size above 31.15mm max 25%	Port Index Seaborne index	0	0	0						
Pricing Point	Qingdao P	ort (FOT and CFR res	pectively)	FOT Qingdao Port	Lump Index 62.5	0							
Timing (Seaborne)	Loading withi	n 4 weeks, Delivery v	vithin 8 weeks	Delivery within 2 weeks			ore indices that were						
Payment Terms		L/C at sight		L/C at sight or CAD	index calculations t	ndex 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							
March 4th, 2019	Specifications applied for 62% brand assessments						Specifications applied for 62% brand assessments					
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture	
Roy Hill	60.76%	2.35%	4.31%	0.057%	8.58%	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%	2.37%	3.62%	0.101%	9.29%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%	
Newman Fines	62.79%	2.15%	3.94%	0.087%	7.50%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%	
MAC Fines	60.77%	2.34%	4.93%	0.087%	7.00%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%	
Jimblebar Blended Fines	61.01%	3.08%	4.23%	0.118%	7.23%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%	
Carajas Fines	65.45%	1.22%	1.54%	0.066%	8.12%	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	62.55%	1.57%	4.86%	0.071%	8.49%	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%	
March 4th, 2019	Specifications applied for 58% brand assessments											
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.63%	3.17%	6.19%	0.052%	9.00%							
FMG Blended Fines	58.19%	2.66%	5.47%	0.061%	7.57%							
Robe River	56.64%	2.91%	5.58%	0.035%	9.29%							
Western Fines	58.00%	3.08%	7.84%	0.070%	7.52%							
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%							
Yandi	57.08%	1.41%	6.58%	0.032%	8.71%							

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								

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