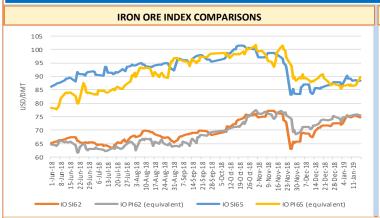
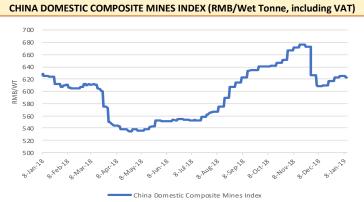


	Iron Ore	e Inde	x Repo	ort								Janua	ry 17, 2	019	
						IRON ORE	E PORT S	TOCK INDEX	(IOPI)						
anuary 17	, 2019		FOT C	Qingdao (inc	c. 16% VAT),	RMB/wet t	onne			CFR Qingd	ao Equiv	valent (exc. 16%	۷AT), USD/	dry tonne	1
dex	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Chang	e % MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
PI62	62% Fe Fines	572	-1	-0.2%	574	574	443	603	75.42	-0.11	-0.1	<del>%</del> 75.10	75.10	61.36	77.89
PI58	58% Fe Fines	458	1	0.2%	432	432	304	458	59.61	0.16	0.39		55.61	40.67	59.61
PI65	65% Fe Fines	675	5	0.7%	662	662	541	784	89.69	0.72	0.89	87.15	87.15	75.83	101.71
IRON ORE SEABORNE INDEX (IOSI) MARKET COMMENTARY															
nuary 17	, 2019			CFR Qing	gdao, USD/dr	y tonne			their inventorie	s, and that may	mean that	eted their current resto market activity could e	ase. There are still	some mills Tan	gshan who hav
dex	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>				ay they will continue to on on a fixed price basi			
SI62	62% Fe Fines	74.80	-0.30	-0.4%	74.37	74.37	62.95	86.20				ms pricing in the comir ore was done basis inc		uch unlike the s	ituation in
SI65	65% Fe Fines	88.35	-0.10	-0.1%	88.49	88.49	83.20	101.50							
IRON ORE PORT LUMP INDEX (IOPLI)															
eek Endir	ng January 11		FOT C	Qingdao (inc	c. 16% VAT),	RMB/wet t	onne			CFR Qingd	ao Equiv	valent (exc. 16%	6 VAT), USD/	dry tonne	1
dex	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>	Price	W-oW	Chang	e % MTD	YTD	Low <sup>3</sup>	High <sup>3</sup>
PLI62	62.5% Fe Lump	785	2	0.3%	784	784	565	789	100.10	1.25	1.39	<b>%</b> 99.48	99.48	76.63	98.85
			IRO	N ORE DO	MESTIC CON	NCENTRAT	E SPOT P	PRICE ASSESS	SMENTS A	ND COMP	OSITE I	NDEX			
eek Endi	ing January 11th	, 2018				RMB/ton	ne (exclu	iding tax) <sup>4</sup>				USD/tonne	(excluding t	ax) <sup>4</sup>	
ovince	Region	Product		Basis	This week	Change	%	Low <sup>2</sup>	High <sup>2</sup>	Thi	week	Change %	Low	2	High <sup>2</sup>
ebei	Hanxing	66% Fe C	oncentrate	Dry	694	0.7%		579	718	10	1.61	1.10%	84.7	7	105.12
ebei	Qian'an	65% Fe C	concentrate	Dry	750	-0.7%		630	815	10	9.80	-0.29%	92.2	4	119.32
aoning	Anshan	65% Fe C	oncentrate	+ +	535	0.0%		445	565	7	8.33	0.38%	65.1	5	82.72
andong	Zibo		oncentrate	<u> </u>	740	0.0%		620	815		8.34	0.38%	90.7		119.32
	ing January 11th		Indov DMR		This week	Change		Low 5	High <sup>5</sup>			ied: RMB/USD = 6.759: ate applied: RMB/USD			ne 1 2018
iiria iviirie		•			623.27	-0.3%		534.50		25.5540.0	DAIF 1811	DEV CER CINA	2040/450	/D04T\	
	INON	ML FORT	NDLX, FOI	QINGDA	O (RMB/WT	,		105	IKON O	AL SLADO	KINE IIN	DEX, CFR QING	טאט (טטט	DIVIT	
50 — 50 — 50 — 50 — 50 — 50 — 50 — 50 —		~~~	~~~			\ \ \ \	~~ ~	95 85 75 65			~\ ~		~~\ /	~~~	~~
250 25 26 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20															
250	17-A pr. 18 - 2-May-18 - 17-May-18 - 1-Jun-18 -		2 10	) PI 58	O PI 65			45 Jun 25 Jun 2			10.5	5162 — IO S		the year.	, jan 19
2-Apr-18	-		2 IRC	ON ORE PO	DRT STOCK I	INDEX MOI	NTHLY, C	45		-TO-DATE	AVERA	GES 10 S	165		
50 Spr-18	, 2019	IO PI 62	IRC FOT C	ON ORE PO	DRT STOCK I	INDEX MOI	NTHLY, C	45 Jun 19	AND YEAR	-TO-DATE	AVERA	GES valent (exc. 16%	6 VAT), USD/	dry tonne	l
50 81-14b4-2 muary 17	, 2019 Fe Content	IO PI 62	IRC FOT C	ON ORE PO Qingdao (in November	DRT STOCK I c. 16% VAT),	INDEX MOI RMB/wet to January	NTHLY, Conne	45 Luncis Luncis	AND YEAR September	-TO-DATE CFR Qingo October	AVERA lao Equiv	GES valent (exc. 16%	6 VAT), USD/ January	dry tonne <sup>1</sup> QTD	YTD
nuary 17	, 2019 Fe Content 62% Fe Fines	September 513	IRC FOT (	ON ORE PC Qingdao (in November 564	DRT STOCK I c. 16% VAT), December 559	INDEX MOI RMB/wet to January 574	ONTHLY, Conne  QTD  574	A5  A19  A19  A19  A19  A19  A19  A19  A	AND YEAR September 64.29	-TO-DATE CFR Qingo October 63.41	AVERA lao Equiv Novem	GES  walent (exc. 16%) ber December  5 72.55	6 VAT), USD/ January 75.10	dry tonne of QTD 75.10	<b>YTD</b> 75.10
nuary 17 dex PI62	, 2019  Fe Content 62% Fe Fines 58% Fe Fines	September 513 385	IRC FOT 0 October 564 401	ON ORE PO Qingdao (in November 564 401	DRT STOCK I c. 16% VAT), December 559 392	INDEX MOI RMB/wet to January 574 432	NTHLY, Conne QTD 574 432	QUARTERLY OF THE STATE OF THE S	AND YEAR September 64.29 44.14	October 63.41 44.86	AVERA lao Equiv Novem 65.2 45.8	GES valent (exc. 16% ber December 5 72.55 4 50.47	January 75.10 55.61	<b>QTD</b> 75.10 55.61	<b>YTD</b> 75.10 55.61
50 81-Jdy-2 17 dex PI62 PI58 PI65	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines	5eptember 513 385 732	IRC FOT 0 October 564 401 760	ON ORE PC Qingdao (in: November 564 401 760	DRT STOCK I c. 16% VAT), December 559 392 681	INDEX MOI RMB/wet to January 574 432 662	NTHLY, Conne  QTD  574  432  662	45  Luder 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	AND YEAR September 64.29	-TO-DATE CFR Qingo October 63.41	AVERA lao Equiv Novem	GES valent (exc. 16%) ber December 5 72.55 4 50.47 3 99.05	January 75.10 55.61 87.15	dry tonne of QTD 75.10	YTD 75.10
nuary 17 dex PI62 PI58 PI65 IRON	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF	5eptember 513 385 732	IRC FOT 0 October 564 401 760	ON ORE PO Qingdao (in: November 564 401 760 Y, QUARTE	DRT STOCK I c. 16% VAT), December 559 392 681	INDEX MOI RMB/wet to January 574 432 662 EAR-TO-DA	NTHLY, Conne  QTD  574  432  662	45  Luder 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	September 64.29 44.14 82.19	-TO-DATE CFR Qingo October 63.41 44.86 85.29	AVERA lao Equiv Novem 65.2 45.8	GES  valent (exc. 16% ber December  5 72.55 4 50.47 3 99.05  FREIGHT RA	January 75.10 55.61 87.15	75.10 55.61 87.15	YTD 75.10 55.61 87.15
nuary 17 dex PI62 PI58 PI65 IRON	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF	513 385 732 RNE INDEX	IRC FOT C October 564 401 760	ON ORE PO Qingdao (in November 564 401 760 Y, QUARTE CFR Qin	DRT STOCK I c. 16% VAT), December 559 392 681 ERLY AND YE	INDEX MOI RMB/wet to January 574 432 662 EAR-TO-DA	NTHLY, Conne  QTD  574  432  662  ATE AVER	VTD 574 432 662 RAGES	September 64.29 44.14 82.19	-TO-DATE CFR Qingo October 63.41 44.86 85.29	AVERA lao Equiv Novem 65.2 45.8 92.1	GES valent (exc. 16% ber December 5 72.55 4 50.47 3 99.05 FREIGHT RA	January 75.10 55.61 87.15 TES	QTD 75.10 55.61 87.15	YTD 75.10 55.61 87.15
nuary 17 dex PI62 PI58 PI65 IRON	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF 7, 2019 Fe Content	September 513 385 732 RNE INDEX	IRC FOT C October 564 401 760 MONTHLY	ON ORE PO Qingdao (in: November 564 401 760 Y, QUARTE CFR Qin	DRT STOCK I c. 16% VAT), December 559 392 681 ERLY AND YE gdao, USD/di	INDEX MOI RMB/wet to January 574 432 662 EAR-TO-DA ry tonne January	ONTHLY, Conne  QTD  574  432  662  ATE AVER	YTD 574 432 662 RAGES	September 64.29 44.14 82.19 January 16th	CFR Qingo October 63.41 44.86 85.29 2019 Desi	AVERA lao Equiv  Novem  65.2 45.8 92.1	GES valent (exc. 16% ber December 5 72.55 4 50.47 3 99.05 FREIGHT RA FREIGHT RA Change	5 VAT), USD/0 January 75.10 55.61 87.15 TES TES - DRY BUL Change %	75.10 55.61 87.15	YTD 75.10 55.61 87.15 conne High <sup>5</sup>
nuary 17 dex PI62 PI58 PI65 IRON nuary 17 dex SI62	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF 7, 2019 Fe Content 62% Fe Fines	September 513 385 732 RNE INDEX September 68.79	IRC FOT 0 October 564 401 760 MONTHLY Coctober 72.31	ON ORE PC Qingdao (in: November 564 401 760 Y, QUARTE CFR Qin November 72.91	DRT STOCK I c. 16% VAT), December 559 392 681 ERLY AND YE gdao, USD/du	INDEX MOI RMB/wet to January 574 432 662 EAR-TO-DA ry tonne January 74.37	NTHLY, Conne  QTD  574  432  662  ATE AVER  QTD  74.37	YTD 574 432 662 RAGES  YTD 74.37	September 64.29 44.14 82.19 January 16th Route W. Australia - C	CFR Qinga October 63.41 44.86 85.29 Desi	AVERA lao Equiv Novem 65.2 45.8 92.1	GES valent (exc. 16%) ber December 5 72.55 4 50.47 3 99.05 FREIGHT RA FREIGHT RA Change 5.86 0.00	5 VAT), USD/0 January 75.10 55.61 87.15 TES TES - DRY BUL Change % 0.00%	T5.10 75.10 75.61 87.15  K US\$/wet t Low 5 5.109	75.10 75.61 87.15 conne High <sup>5</sup>
nuary 17 dex PI62 PI58 PI65 IRON nuary 17 dex sis62	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF 7, 2019 Fe Content	September 513 385 732 RNE INDEX	IRC FOT C October 564 401 760 MONTHLY October 72.31 98.97	DN ORE PC Qingdao (in November 564 401 760 Y, QUARTE CFR Qin November 72.91 94.05	DRT STOCK I c. 16% VAT), December 559 392 681 ERLY AND YE gdao, USD/do December 69.96 85.95	INDEX MOI RMB/wet to January 574 432 662 EAR-TO-DA ry tonne January 74.37 88.49	ONTHLY, Conne  QTD  574  432  662  ATE AVER  QTD  74.37  88.49	YTD 574 432 662 RAGES  YTD 74.37 88.49	September 64.29 44.14 82.19  January 16th Route W. Australia - C	-TO-DATE CFR Qingo October 63.41 44.86 85.29  2019 Desi	AVERA lao Equiv  Novem 65.2 45.8 92.1 gnation CS C3	GES valent (exc. 16% ber December 5 72.55 4 50.47 3 99.05 FREIGHT RA FREIGHT RA Change 5.86 0.00 16.64 -0.57	5 VAT), USD/0 January 75.10 55.61 87.15 TES TES - DRY BUL Change %	75.10 55.61 87.15	YTD 75.10 55.61 87.15 conne High <sup>5</sup>
muary 17 dex PPI62 PPI58 PPI65 IRON anuary 17 dex OSI62 OSI65	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF 7, 2019 Fe Content 62% Fe Fines 65% Fe Fines	September 513 385 732 RNE INDEX September 68.79	IRC FOT 0 October 564 401 760 MONTHLY October 72.31 98.97 IRC	ON ORE PO Qingdao (in November 564 401 760 Y, QUARTE CFR Qin November 72.91 94.05	DRT STOCK I c. 16% VAT), December 559 392 681 ERLY AND YE gdao, USD/dd December 69.96 85.95	INDEX MOI RMB/wet to January 574 432 662 EAR-TO-DA ry tonne January 74.37 88.49	ONTHLY, Conne  QTD  574  432  662  ATE AVEF  QTD  74.37  88.49  NTHLY, C	YTD 574 432 662 RAGES  YTD 74.37	September 64.29 44.14 82.19  January 16th Route W. Australia - C Tubarao - Qingo	CFR Qingo October 63.41 44.86 85.29  2019 Desi	AVERA AVERA Avera Avera Avera	GES  valent (exc. 16% ber December 5 72.55 4 50.47 3 99.05  FREIGHT RA  FREIGHT RA  Change 5.86 0.00 16.64 -0.57  GES	January 75.10 55.61 87.15 TES TES - DRY BUL Change % 0.00% -3.31%	QTD 75.10 55.61 87.15  K US\$/wet t  Low 5 5.109 12.705	75.10 75.61 87.15 conne High <sup>5</sup> 10.002 24.76
muary 17 dex PPI62 PPI58 PPI65 IRON anuary 17 dex OSI62 OSI65	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF 7, 2019 Fe Content 62% Fe Fines	September 513 385 732 RNE INDEX September 68.79	IRC FOT 0 October 564 401 760 MONTHLY October 72.31 98.97 IRC	ON ORE PO Qingdao (in November 564 401 760 Y, QUARTE CFR Qin November 72.91 94.05	DRT STOCK I c. 16% VAT), December 559 392 681 ERLY AND YE gdao, USD/do December 69.96 85.95	INDEX MOI RMB/wet to January 574 432 662 EAR-TO-DA ry tonne January 74.37 88.49	ONTHLY, Conne  QTD  574  432  662  ATE AVEF  QTD  74.37  88.49  NTHLY, C	YTD 574 432 662 RAGES  YTD 74.37 88.49	September 64.29 44.14 82.19  January 16th Route W. Australia - C Tubarao - Qingo	CFR Qingo October 63.41 44.86 85.29  2019 Desi	AVERA AVERA Avera Avera Avera	GES valent (exc. 16% ber December 5 72.55 4 50.47 3 99.05 FREIGHT RA FREIGHT RA Change 5.86 0.00 16.64 -0.57	January 75.10 55.61 87.15 TES TES - DRY BUL Change % 0.00% -3.31%	QTD 75.10 55.61 87.15  K US\$/wet t  Low 5 5.109 12.705	YTD 75.10 55.61 87.15 conne High <sup>5</sup> 10.002 24.76
nnuary 17 dex DPI62 DPI58 DPI65 IRON anuary 17 dex DSI62 DSI65	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF 7, 2019 Fe Content 62% Fe Fines 65% Fe Fines	September 513 385 732 RNE INDEX September 68.79 96.48	IRC FOT ( October 564 401 760  MONTHLY Cottober 72.31 98.97 IRC FOT (	ON ORE PO Qingdao (in: November 564 401 760 Y, QUARTE CFR Qin November 72.91 94.05 ON ORE PO Qingdao (in:	DRT STOCK I c. 16% VAT), December 559 392 681 ERLY AND YE gdao, USD/dd December 69.96 85.95	INDEX MOI RMB/wet to January 574 432 662 EAR-TO-DA ry tonne January 74.37 88.49 NDEX MOI RMB/wet to	ONTHLY, Conne  QTD  574  432  662  ATE AVEF  QTD  74.37  88.49  NTHLY, C	YTD 574 432 662 RAGES  YTD 74.37 88.49	September 64.29 44.14 82.19  January 16th Route W. Australia - C Tubarao - Qingo	CFR Qinga October 63.41 44.86 85.29 Desi Desi CFR Qinga CFR Qinga	AVERA lao Equiv  Novem 65.2 45.8 92.1  gnation CCS CCS AVERA lao Equiv	GES  walent (exc. 16% ber December 5 72.55 4 50.47 3 99.05  FREIGHT RA  Change 5.86 0.00 16.64 -0.57  GES  walent (exc. 16% nber December	January 75.10 55.61 87.15 TES TES - DRY BUL Change % 0.00% -3.31%	QTD 75.10 55.61 87.15  K US\$/wet t  Low 5 5.109 12.705	YTD 75.10 55.61 87.15  conne High 5 10.002 24.76



# January 17, 2019





### IRON ORE BRAND SPOT PRICE ASSESMENTS

January 17, 2019	PORT STOCK INDEX (RMB/WT)				
	Price	Change	Diff to IOPI62		
Roy Hill	532	-3	-40		
SIMEC Fines	492	0	-80		
PB Fines	555	-1	-17		
Newman Fines	578	2	6		
MAC Fines	543	-2	-29		
Jimblebar Blended Fines	513	0	-59		
Carajas Fines	677	4	105		
Brazilian SSF	577	11	5		
Brazilian Blend Fines	584	5	12		
RTX Fines	512	0	-60		
January 17, 2019	PORT STOCK INDEX (RMB/WT)				

Price

393

453

497

400

393

489

5	Bra
12	Bra
-60	RT
WT)	
iff to IOPI58	
-65	
-5	
39	
-58	

31

Change

1

1

4

I	January 17, 2019	SEABORNE INDEX (USD/DMT)					
		Price	Change	Diff to IOSI62			
	Roy Hill	70.40	-0.30	-4.40			
	SIMEC Fines	67.60	-0.30	-7.20			
	PB Fines	74.30	-0.30	-0.50			
	Newman Fines	77.19	-0.31	2.39			
	MAC Fines	70.50	-0.30	-4.30			
	Jimblebar Blended Fines	66.22	-0.30	-8.58			
	Carajas Fines	87.99	-0.48	13.19			
	Brazilian SSF	76.99	-0.61	2.19			
	Brazilian Blend Fines	77.86	-0.49	3.06			
l	RTX Fines	67.07	-0.30	-7.73			

### IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port	Stock Index Product Differentials (	RMB/wet tonr	ne)	Seaborne Index Product Differentials (UDS/dry tonne)			
	Applicable range	Value	Change		Applicable range	Value	Change
	High Grade Fe 60 - 63%	24.00	3.00		High Grade Fe 60 - 63%	3.00	0.00
	High Grade Fe 63 - 64%	18.00	0.00		High Grade Fe 63 - 64%	2.50	0.00
1% Fe	High Grade Fe 64 - 65%	18.00	0.00	1% Fe	High Grade Fe 64 - 65%	2.50	0.00
	High Grade Fe 65 - 65.5%	18.00	0.00		High Grade Fe 65 - 65.5%	2.50	0.00
	Low Grade Fe	16.00	0.00				
	High Fe Grade Al <2.25%	30.00	3.00		High Fe Grade Al <2.25%	2.75	-0.25
1% Alumina	High Fe Grade Al 2.25-4%	15.00	-3.00	40/ 41	High Fe Grade Al 2.25-4%	1.00	0.00
1% Alumina	Low Fe Grade Al <2.25%	75.00	3.00	1% Alumina			
	Low Fe Grade Al 2.25-4%	30.00	0.00				
	High Fe Grade Si <4%	7.00	0.00		High Fe Grade Si <4%	1.25	0.00
1% Silica	High Fe Grade Si 4-6.5%	18.00	-3.00	1% Silica	High Fe Grade Si 4 - 6.5%	0.50	0.00
	Low Fe Grade	22.00	0.00				
0.010/	High Fe Grade 0.09% <p<0.115%< td=""><td>2.00</td><td>0.00</td><td>0.040/</td><td>High Fe Grade 0.09%<p<0.115%< td=""><td>0.25</td><td>0.00</td></p<0.115%<></td></p<0.115%<>	2.00	0.00	0.040/	High Fe Grade 0.09% <p<0.115%< td=""><td>0.25</td><td>0.00</td></p<0.115%<>	0.25	0.00
0.01%	High Fe Grade 0.115% <p<0.15%< td=""><td>6.00</td><td>0.00</td><td>0.01%</td><td>High Fe Grade 0.115%<p<0.15%< td=""><td>1.50</td><td>0.00</td></p<0.15%<></td></p<0.15%<>	6.00	0.00	0.01%	High Fe Grade 0.115% <p<0.15%< td=""><td>1.50</td><td>0.00</td></p<0.15%<>	1.50	0.00
Phosphorus	Low Fe Grade 0.09 <p<0.1%< td=""><td>2.00</td><td>0.00</td><td>Phosphorus</td><td></td><td></td><td></td></p<0.1%<>	2.00	0.00	Phosphorus			

	Port Stock Differentials to Qingdao Port (RMB/wet tonne)										
Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-30.00	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	-5.00	5.00	Jingtang	-5.00	5.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-5.00	0.00	Lanqiao	0.00	0.00	Nantong	-20.00	0.00	Tianjin	-15.00	5.00

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FMG Blended Fines

Robe River

Atlas Fines

Yandi

Western Fines

SSF

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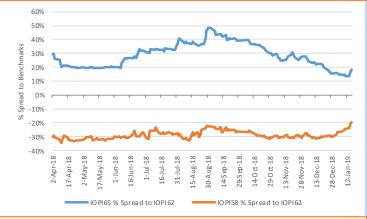
January 17, 2019



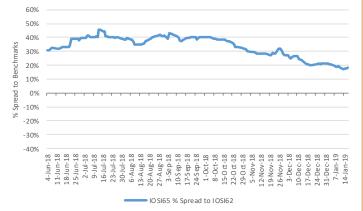
### January 17, 2019

#### **IRON ORE INDEX PREMIUMS/DISCOUNTS**

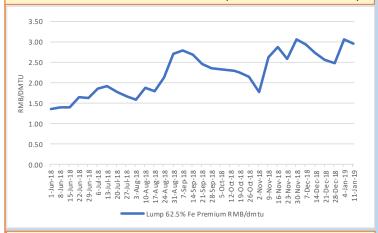
January 17, 2019	PORT STOCK INDEX (RMB/WT)				
Fe Content	Spread to IOPI62	% Spread to IOPI62			
58% Fe Fines	-114	-19.93%			
65% Fe Fines	103	18.01%			

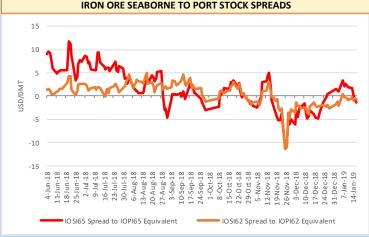


#### January 17, 2019 SEABORNE INDEX (USD/DMT) **Fe Content** Spread to IOSI62 % Spread to IOSI62 65% Fe Fines 13.55 18.11%



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





### **TOTAL IRON ORE INVENTORIES AT CHINA PORTS**



### FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES
Week Ending January 11, 2019 (million to

Week Ending January 11, 2019 (million tonnes)									
Province	This week	Change %	Low <sup>4</sup>	High <sup>4</sup>					
Jingtang	13.89	1.09%	13.29	19.00					
Qingdao	17.50	-1.69%	16.09	19.97					
Caofeidian	17.90	-5.79%	16.70	25.30					
Tianjin	9.40	-1.05%	8.50	11.00					
Rizhao	14.20	-1.39%	14.00	19.00					
Total (35 Ports)	129.30	-1.48%	127.72	150.04					

### **IRON ORE FUTURES CONTRACTS**

	DCE				SGX		
Closing Date	losing Date 17 Jan 3pm close			17 Jan 6 pm			
Contract	11905	Change	Change %	Feb'19	Change	Change %	
Closing Price	513.5	1.5	0.29%	73.26	0.00	0.00%	
Vol traded ('000 lots)	83.73	9.3	12.47%	10.94	4.63	73.39%	
Open positions ('000 lots)	89.66	2.7	3.13%	108.76	-1.09	-1.00%	
Day Low	507.5	-2.5	-0.49%	72.83	0.11	0.15%	
Day High	515.0	-1.0	-0.19%	73.37	0.11	0.15%	

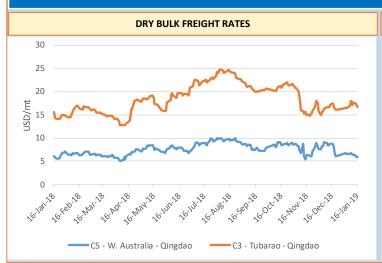
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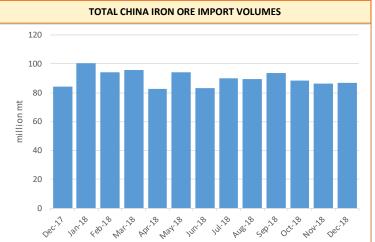
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### **Steel Spot Market Prices - China**

Steel Spot Market RMB/tonne			
Product	11/1/2019	Change	Change %
ReBar HRB400	3,856.0	-17	-0.44%
Wirerod Q300 ¢6.5mm	3,915.0	-87	-2.17%
HRC Q235/SS400 5.5mm*1500*C	3,703.0	-3	-0.08%
CRC SPCC/ST12 1.0mm*1250*2500	4,193.0	10	0.24%
Medium & Heavy Plate Q235B 20mm	3,860.0	27	0.70%
GI ST02Z 1.0mm*1000*C	4,570.0	25	0.55%
Billet Q235 150*150mm	3,420.0	120	3.64%



CHINESE STEEL EXPORT PRICES											
China Export Prices USD/tonne											
Product	Specification	Export tax (+)/Vate rebate (-)		Change							
			11/1/2019								
Rebar	BS4449 460B 12-25mm, + chrome	-13%	475	0							
Wire Rod	SAE1008 6.5-10mm +chrome	-9%	495	0							
Hot-rolled coil	SS400/Q235 4.0-10.mm	-9%	500	10							
Cold-rolled coil	SPCC 1.0mm	-13%	535	0							
Medium & Heavy plate	A-level Shipe plate 12-25mm	0%	505	0							
Galvanised	ST02Z/SGCC 1.0mm	-13%	550	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\*15/(16-0.13); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB\* exchange rate \*15/(15-0.09); Calculation formula for converting export prices of medium-thick plate into prices in China's spot market = FOB\* exchange rate

Steel Inventories³ (unit: 1000 tonnes)							
Product	11/1/2019	4/1/2019	Change	Change %			
Rebar	3,654	3,369	285	8.46%			
Wirerod	1,247	1,192	55	4.61%			
Hot-rolled Coil	1,902	1,847	55	2.98%			
Medium & Thick Plate	888	888	0	0.00%			
Cold-rolled Coil	1,066	1,066	0	0.00%			
Total	8.756	8.361	395	4.72%			

<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 31 major cities.

### **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	75.34	2.30	Mmi CFR Equivalent index for 12th October			
Coke	1,970	-100	2nd grade met coke, Tangshan, incl. tax			
Steel Scrap	2,150	10	steel scrap (6mm) in Zhangjiagang, exl. tax			
Billet Cost	2,846	-35	Q234, incl. tax			
Rebar cost - Blast furnace	3,099	-39	calculated based on theoretical w eight, incl. tax			
Rebar profit - Blast furnace	591	19	based on Shanghai prices, incl. tax			
Hot-rolled coil cost - Blast furnace	3,170	-36	based on actual w eight, incl. tax			
Hot-rolled coil proft - Blast furnace	460	16	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.

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

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#### IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

INON ONE INDEX OF ECITICATIONS, CONTINUENTON NATIONALE AND DATA EXCEDSIONS								
	Iron Ore	Iron Ore Index Compilation Rational 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			
Fe %	65.00	62.00	58.00	62.50 part of the iron ore supply chain and involved in spot market to indices are calculated using detailed transaction-level data sul				
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specification		specifications and	
Silica%	1.50	4.00	5.50	screened to remove outliers before volume-weighted average princal calculated from the remaining core set of data.			e prices are	
Phosphorus %	0.06	0.09	0.05	0.08	For more details on MMi's iron ore methodology please download the gui		nload 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				
Consular size below 10 mm for at least 00% of a rea.		Si hl C 2 450/	Data Exclusions*					
Sizing	Granular size below 10mm for at least 90% of cargo; Size below 6.3mm max 15%			62%	58%	65%		
Sizing	maximu	ım of 40% below 150	) micron	Size above 31.15mm max 25%	Port Index	0	0	0
					Seaborne index	0		0
Pricing Point	Qingdao Port (FOT and CFR respectively)		FOT Qingdao Port	Lump Index 62.5	0			
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks				umber of price submissions for iron ore indices that were excluded from			
Payment Terms	nt Terms I/C at sight		I/C at sight or CAD	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							
January 17, 2019 SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS				SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS				SESSMENTS			
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.76%	2.35%	4.31%	0.060%	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	61.65%	2.43%	3.51%	0.100%	9.28%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.44%	2.25%	4.35%	0.090%	7.80%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	61.08%	2.11%	4.67%	0.080%	7.81%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	61.15%	2.92%	4.35%	0.120%	7.01%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	65.13%	1.37%	1.73%	0.080%	7.93%	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	62.60%	1.82%	4.73%	0.070%	8.38%	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%
January 17, 2019 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											

January 17, 2019	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS					
	Fe	Alumina	Silica	Phos	Moisture	
SSF	56.55%	3.09%	6.20%	0.050%	9.21%	
FMG Blended Fines	58.23%	2.68%	5.65%	0.060%	7.45%	
Robe River	56.63%	2.88%	1.85%	0.040%	9.09%	
Western Fines	57.81%	2.92%	7.37%	0.060%	7.46%	
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%	
Yandi	57.26%	1.40%	6.44%	0.040%	9.11%	

### **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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