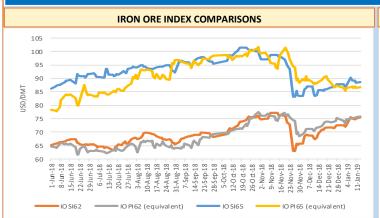
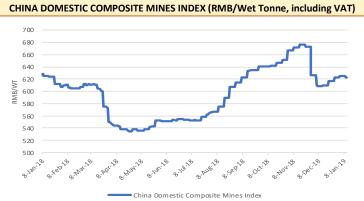


	Iron Or	e Inde	x Repo	ort								Januar	y 14, 2	019								
						IRON ORE	E PORT ST	TOCK INDEX	(IOPI)													
January 14, 2019 FOT Qingdao (inc. 16% VAT), RMB/wet tonne CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne 1																						
ıdex	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²							
PI62	62% Fe Fines	575	-1	-0.2%	574	574	443	603	75.87	0.26	0.3%	74.93	74.93	61.36	77.89							
PI58	58% Fe Fines	438	2	0.5%	425	425	304	438	56.87	0.57	1.0%	54.42	54.42	40.67	56.3							
PI65	65% Fe Fines	654	-1	-0.2%	659	659	541	784	86.82	0.30	0.3%	86.55	86.55	75.83	101.71							
		IRC	ON ORE SE	ARORNE IN	IDEX (IOSI)						MARK	ET COMME	NTARY									
January 14, 2019 CFR Qingdao, USD/dry tonne A force majeure for Rober River lump and Fines shipments has been announced due to a fire accident at																						
					1 3				mped Monday af													
	Fe Content	Price	Change	Change %	MTD	YTD	Low ³	High ³				ble on Friday. Ac heir inventories t										
OSI62	62% Fe Fines	75.45	0.60	0.8%	74.18	74.18	62.95	86.20	start to the w	eek, though SG	X swaps show	that there is som	e bullishness sti	ill in the marke	et.							
IOSI65 65% Fe Fines 88.55 0.10 0.1% 88.54 88.54 83.20 101.50																						
								JMP INDEX	(IOPLI)													
eek Endi	ng January 11		FOT C	Qingdao (inc	. 16% VAT),	RMB/wet t				CFR Qingd	ao Equivale	nt (exc. 16%	VAT), USD/	dry tonne								
dex	Fe Content	Price	W-o-W	Change %	MTD	YTD ³	Low ³	High ³	Price	W-oW	Change %	MTD	YTD ³	Low ³	High ³							
PLI62	62.5% Fe Lump	785	2	0.3%	784	784	565	789	100.10	1.25	1.3%	99.48	99.48	76.63	98.85							
			IRO	N ORE DO	MESTIC COI	NCENTRAT	E SPOT P	RICE ASSESS	SMENTS A	ND COMP	OSITE IND	EX										
eek End/	ling January 11tl	h, 2018				RMB/tor	nne (exclu	ding tax) ⁴				USD/tonne	excluding t	ax) ⁴								
rovince	Region	Product		Basis	This week	Change	%	Low ²	High ²	This	week	Change %	Low	2	High ²							
ebei	Hanxing	66% Fe C	Concentrate	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							
iaoning	Anshan	65% Fe C	Concentrate	Wet	535	0.0%		445	565	7	3.33	0.38%	65.1	.5	82.72							
handong	Zibo	65% Fe C	Concentrate	Dry	740	0.0%		620	815	10	8.34	0.38%	90.7	7	119.32							
eek End	ling January 11tl	h, 2018		1	This week	Change	%	Low ⁵	High ⁵			:MB/USD = 6.756 S pplied: RMB/USD 6										
hina Min	es Concentrate	Composite	Index RMB/	/WT	623.27	-0.3%		534.50	676.26	weekiy	excriange rate a	pplied. KWB/OSD 6	1.6500 Last 1211	iontris								
	IRON C	DRE PORT I	NDEX, FO	T QINGDA	(RMB/WT	7)			IRON O	RE SEABO	RNE INDEX	, CFR QING	DAO (USD	/DMT)								
850 —								105														
750 —						Λ		95 —			~~~	~_/~	2									
650 —			- N-W			ha	~~	85	~~~		7		1		~~							
~		~~~	,-			~ ~	~~	83														
550			~~~	-				75 ——		. ~			~~~									
450	7-4-00					7-~		65	_													
350		~~~						55														
				1				45														
										, o , o	8,7° 2,8° 2	\$ 25 \$ 25°	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	S & & &	\$ 15							
\pr-18	2-Apr-18 17-Apr-18 17-Apr-18 11-101-										10 Mg 240	" Who who	17.70									
2-Apr-18	17-Apr-18 2-May-18 17-May-18 1-Jun-18	16-Jun-18 1-Jul-18	31-Ju	30-A1 14-Se 29-Se	14- 29- 13-	28-N	28-De	7:Jun. 72:Jun.	18-Jun 13-Jul 27	JUL 20 AUE 28	158 2558	2, 20, 5,										
2-Apr-18	17-Apr- 2-May- 17-May- 1-Jun-	16-Jun-1		.,	914- 29- 13-1	28-N	28-De 12-Ja	7.Jun. 7.F.Jun.	13-July 23-July 27	July 20 Aug 2 A A	10 SI62			Y V								
2-Apr-18	17-Apr- 2-May- 17-May- 1-Jun-	Ä,	210) PI 58	= 10 PI 65						IO SI62	— IO SIG		, v								
		Ä,	2 IRC	ON ORE PO	PRT STOCK I	NDEX MO	NTHLY, C	QUARTERLY		-TO-DATE	IO SI62	10 SIG	55									
anuary 14	4, 2019	→ IO PI 62	IRC	ON ORE PO	PRT STOCK I	NDEX MO	NTHLY, C	QUARTERLY	AND YEAR	-TO-DATE	AVERAGE	10 SIG S nt (exc. 16%	VAT), USD/	dry tonne	1							
anuary 14 ndex	4, 2019 Fe Content	IO PI 62	IRC FOT (ON ORE PO Qingdao (ind November	RT STOCK I c. 16% VAT), December	NDEX MO RMB/wet t January	NTHLY, Conne	QUARTERLY	AND YEAR	-TO-DATE CFR Qingd October	AVERAGE ao Equivale Novembei	nt (exc. 16% December	VAT), USD/	dry tonne QTD	1 YTD							
anuary 14 ndex DPI62	4, 2019 Fe Content 62% Fe Fines	September 513	IRC FOT 0 October 564	ON ORE PO Qingdao (inc November 564	RT STOCK I c. 16% VAT), December	NDEX MO RMB/wet t January 574	NTHLY, Conne QTD 574	YTD 574	AND YEAR September	-TO-DATE CFR Qingd October 63.41	AVERAGE ao Equivale November 65.25	nt (exc. 16% December 72.55	VAT), USD/G January 74.93	dry tonne QTD 74.93	1 YTD 74.93							
anuary 14 ndex DPI62 DPI58	4, 2019 Fe Content 62% Fe Fines 58% Fe Fines	September 513 385	IRC FOT (October 564 401	ON ORE PO Qingdao (inc November 564 401	RT STOCK I :: 16% VAT), December 559 392	NDEX MO RMB/wet t January 574 425	NTHLY, Conne QTD 574 423	YTD 574 425	September 64.29 44.14	-TO-DATE CFR Qingd October 63.41 44.86	AVERAGE ao Equivale November 65.25 45.84	nt (exc. 16% December 72.55 50.47	VAT), USD/ January 74.93 54.42	dry tonne	YTD 74.93 54.42							
anuary 14 ndex DPI62 DPI58 DPI65	4, 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines	September 513 385 732	IRC FOT (October 564 401 760	DN ORE PO Qingdao (ind November 564 401 760	RT STOCK I c. 16% VAT), December 559 392 681	NDEX MO RMB/wet t January 574 425 659	NTHLY, Conne QTD 574 423 660	YTD 574 425 659	AND YEAR September	-TO-DATE CFR Qingd October 63.41	AVERAGE ao Equivale November 65.25 45.84 92.13	72.55 50.47 99.05	VAT), USD/G January 74.93 54.42 86.55	dry tonne QTD 74.93	1 YTD 74.93							
inuary 14 idex DPI62 DPI58 DPI65 IRO	4, 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABO	September 513 385 732	IRC FOT (October 564 401 760	ON ORE PO Qingdao (inc November 564 401 760 Y, QUARTE	RT STOCK I 2. 16% VAT), December 559 392 681 RLY AND YI	NDEX MO RMB/wet t January 574 425 659	NTHLY, Conne QTD 574 423 660	YTD 574 425 659	September 64.29 44.14 82.19	-TO-DATE CFR Qingd October 63.41 44.86 85.29	AVERAGE ao Equivale November 65.25 45.84 92.13	72.55 50.47 99.05	VAT), USD/ January 74.93 54.42 86.55	QTD 74.93 54.42 86.55	YTD 74.93 54.42 86.55							
anuary 14 adex DPI62 DPI58 DPI65 IRO anuary 14	4, 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR	September 513 385 732 RNE INDEX	IRC FOT 0 October 564 401 760	ON ORE PO Qingdao (ind November 564 401 760 Y, QUARTE CFR Qing	RT STOCK I c. 16% VAT), December 559 392 681 RLY AND YI gdao, USD/d	NDEX MO RMB/wet t January 574 425 659 EAR-TO-DA	NTHLY, Conne QTD 574 423 660 ATE AVER	YTD 574 425 659	September 64.29 44.14 82.19	-TO-DATE CFR Qingd October 63.41 44.86 85.29	AVERAGE ao Equivale November 65.25 45.84 92.13	72.55 50.47 99.05 REIGHT RAT	VAT), USD/ January 74.93 54.42 86.55	dry tonne QTD 74.93 54.42 86.55	YTD 74.93 54.42 86.55							
onuary 14 odex OPI62 OPI68 OPI65 IRO anuary 14	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOI 4, 2019 Fe Content	September 513 385 732 RNE INDEX	IRC FOT 0 October 564 401 760 MONTHLY	DN ORE PO Qingdao (ind November 564 401 760 Y, QUARTE CFR Qing November	RT STOCK I 2. 16% VAT), December 559 392 681 RLY AND YI gdao, USD/d	NDEX MO RMB/wet t January 574 425 659 EAR-TO-DA ry tonne January	NTHLY, Conne QTD 574 423 660 ATE AVER	YTD 574 425 659 CAGES	September 64.29 44.14 82.19 January 11th Route	-TO-DATE CFR Qingd October 63.41 44.86 85.29 2019 Design	AVERAGE ao Equivale November 65.25 45.84 92.13 Fination	nt (exc. 16% December 72.55 50.47 99.05 REIGHT RAT FREIGHT RAT Change	VAT), USD/0 January 74.93 54.42 86.55 ES ES - DRY BUL Change %	dry tonne QTD 74.93 54.42 86.55	74.93 54.42 86.55 tonne							
dex OPI62 OPI58 OPI65 IRO anuary 14 dex OSI62	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABO 4, 2019 Fe Content 62% Fe Fines	September 513 385 732 RNE INDEX September 68.79	IRC FOT (October 564 401 760 KMONTHLY COctober 72.31	DN ORE PO Qingdao (ind November 564 401 760 Y, QUARTE CFR Qing November 72.91	RT STOCK I 2. 16% VAT), December 559 392 681 RLY AND YI gdao, USD/d December 69.96	NDEX MO RMB/wet t January 574 425 659 EAR-TO-DA ry tonne January 74.18	NTHLY, Conne QTD 574 423 660 ATE AVER QTD 74.18	YTD 574 425 659 AGES YTD 74.18	September 64.29 44.14 82.19 January 11th Route W. Australia - 0	-TO-DATE CFR Qingd October 63.41 44.86 85.29 2019 Designation	AVERAGE ao Equivale November 65.25 45.84 92.13 Fination 65.25 6.35	r lo sie S Int (exc. 16% December 72.55 50.47 99.05 REIGHT RAT FREIGHT RAT Change 0.02	VAT), USD/0 January 74.93 54.42 86.55 ES ES - DRY BUL Change % 0.36%	QTD 74.93 54.42 86.55 K US\$/wet Low 5 5.109	74.93 54.42 86.55 tonne High 5 10.002							
dex OPI62 OPI58 OPI65 IRO anuary 14 dex OSI62	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOI 4, 2019 Fe Content	September 513 385 732 RNE INDEX	IRC FOT 0 October 564 401 760 MONTHLY	DN ORE PO Qingdao (ind November 564 401 760 Y, QUARTE CFR Qing November	RT STOCK I 2. 16% VAT), December 559 392 681 RLY AND YI gdao, USD/d	NDEX MO RMB/wet t January 574 425 659 EAR-TO-DA ry tonne January	NTHLY, Conne QTD 574 423 660 ATE AVER	YTD 574 425 659 CAGES	September 64.29 44.14 82.19 January 11th Route	-TO-DATE CFR Qingd October 63.41 44.86 85.29 2019 Designation	AVERAGE ao Equivale November 65.25 45.84 92.13 Fination	r lo sie S Int (exc. 16% December 72.55 50.47 99.05 REIGHT RAT FREIGHT RAT Change 0.02	VAT), USD/0 January 74.93 54.42 86.55 ES ES - DRY BUL Change %	dry tonne QTD 74.93 54.42 86.55	74.93 54.42 86.55							
onuary 14 odex OPI62 OPI58 OPI65 IRO Onuary 14 odex OSI62	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABO 4, 2019 Fe Content 62% Fe Fines	September 513 385 732 RNE INDEX September 68.79	IRC FOT 6 October 564 401 760 KMONTHLY TOCtober 72.31 98.97	ON ORE PO Qingdao (inc November 564 401 760 Y, QUARTE CFR Qing November 72.91 94.05	RT STOCK I c. 16% VAT), December 559 392 681 RLY AND YI gdao, USD/d December 69.96 85.95	NDEX MO RMB/wet t January 574 425 659 EAR-TO-DA ry tonne January 74.18 88.54	NTHLY, Conne QTD 574 423 660 ATE AVER QTD 74.18 88.54	YTD 574 425 659 AGES YTD 74.18	September 64.29 44.14 82.19 January 11th Route W. Australia - C	-TO-DATE CFR Qingd October 63.41 44.86 85.29 2019 Designation	AVERAGE ao Equivale November 65.25 45.84 92.13 FI nation 25 6.35 17.63	nt (exc. 16% December 72.55 50.47 99.05 REIGHT RAT Change 0.02	VAT), USD/0 January 74.93 54.42 86.55 ES ES - DRY BUL Change % 0.36%	QTD 74.93 54.42 86.55 K US\$/wet Low 5 5.109	74.93 54.42 86.55 tonne High 5 10.002							
anuary 14 ndex DPI62 DPI58 DPI65 IRO anuary 14 ndex DSI62 DSI65	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABO 4, 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 (ind November 564 401 760 Y, QUARTE CFR Qing November 72.91 94.05 ON ORE PO	RT STOCK I c. 16% VAT), December 559 392 681 RLY AND YI gdao, USD/d December 69.96 85.95	NDEX MO RMB/wet t January 574 425 659 EAR-TO-DA ry tonne January 74.18 88.54 NDEX MO	NTHLY, Conne QTD 574 423 660 ATE AVER QTD 74.18 88.54 NTHLY, Q	YTD 574 425 659 AGES YTD 74.18 88.54	September 64.29 44.14 82.19 January 11th Route W. Australia - C	-TO-DATE CFR Qingd October 63.41 44.86 85.29 2019 Designation dao -TO-DATE	AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	nt (exc. 16% December 72.55 50.47 99.05 REIGHT RAT Change 0.02	VAT), USD/0 January 74.93 54.42 86.55 ES ES - DRY BUL Change % 0.36% 3.14%	dry tonne QTD 74.93 54.42 86.55 K US\$/wet Low 5 5.109 12.705	74.93 54.42 86.55 tonne High ⁵ 10.002 24.76							
anuary 14 ndex DPI62 DPI58 DPI65 IRO anuary 14 ndex DSI62 DSI65	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOI 4, 2019 Fe Content 62% Fe Fines 65% Fe Fines	September 513 385 732 RNE INDEX 68.79 96.48	IRC FOT (Cottober 564 401 760 CMONTHLY COttober 72.31 98.97 IRC FOT (ON ORE PO Qingdao (ine S64 401 760 Y, QUARTE CFR Qing November 72.91 94.05 ON ORE PO Qingdao (ine	RT STOCK I c. 16% VAT), December 559 392 681 RLY AND YI gdao, USD/d December 69.96 85.95 DRT LUMP I c. 16% VAT),	NDEX MO RMB/wet t January 574 425 659 EAR-TO-DA ry tonne January 74.18 88.54 NDEX MO	NTHLY, Conne QTD 574 423 660 ATE AVER QTD 74.18 88.54 NTHLY, Q	YTD 574 425 659 AGES YTD 74.18 88.54	September 64.29 44.14 82.19 January 11th Route W. Australia - O Tubarao - Qing	-TO-DATE CFR Qingd October 63.41 44.86 85.29 2019 Designation dao -TO-DATE CFR Qingdo	AVERAGE ao Equivale November 65.25 45.84 92.13 Fination 25 6.35 3 17.63 AVERAGE: ao Equivale	resident res	VAT), USD/0 January 74.93 54.42 86.55 ES ES - DRY BUL Change % 0.36% 3.14%	dry tonne QTD 74.93 54.42 86.55 K US\$/wet Low 5 5.109 12.705	74.93 54.42 86.55 tonne High ⁵ 10.002 24.76							



January 14, 2019





IRON ORE BRAND SPOT PRICE ASSESMENTS

January 14, 2019	PORT	STOCK INDEX (R	MB/WT)
	Price	Change	Diff to IOPI62
Roy Hill	542	-1	-33
SIMEC Fines	492	-1	-83
PB Fines	556	-1	-19
Newman Fines	575	13	0
MAC Fines	548	-1	-27
Jimblebar Blended Fines	509	-1	-66
Carajas Fines	657	-1	82
Brazilian SSF	553	-1	-22
Brazilian Blend Fines	574	-1	-1
RTX Fines	506	-1	-69

RTX Fines	506	-1	-69			
January 14, 2019	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI58			
SSF	377	2	-61			
FMG Blended Fines	434	2	-4			
Robe River	467	2	29			
Western Fines	387	2	-51			
Atlas Fines	378	2	-60			
Yandi	469	2	31			

January 14, 2019	SEABORNE INDEX (USD/DMT)				
	Price	Change	Diff to IOSI62		
Roy Hill	70.47	0.60	-4.98		
SIMEC Fines	67.15	0.60	-8.30		
PB Fines	74.70	0.60	-0.75		
Newman Fines	77.97	0.60	2.52		
MAC Fines	70.50	0.60	-4.95		
Jimblebar Blended Fines	65.15	0.60	-10.30		
Carajas Fines	88.55	0.60	13.10		
Brazilian SSF	77.32	0.60	1.87		
Brazilian Blend Fines	78.57	0.60	3.12		
RTX Fines	66.42	0.60	-9.03		

IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port	Port Stock Index Product Differentials (RMB/wet tonne)				Seaborne Index Product Differentials (UDS/dry tonne)				
	Applicable range	Value	Change		Applicable range	Value	Change		
	High Grade Fe 60 - 63%	15.00	0.00		High Grade Fe 60 - 63%	3.25	-0.25		
	High Grade Fe 63 - 64%	18.00	0.00		High Grade Fe 63 - 64%	2.25	0.00		
1% Fe	High Grade Fe 64 - 65%	18.00	0.00	1% Fe	High Grade Fe 64 - 65%	2.25	0.00		
	High Grade Fe 65 - 65.5%	18.00	0.00		High Grade Fe 65 - 65.5%	2.25	0.00		
	Low Grade Fe	16.00	0.00						
	High Fe Grade Al <2.25%	27.00	0.00		High Fe Grade Al <2.25%	3.00	0.00		
1% Alumina	High Fe Grade Al 2.25-4%	26.00	0.00	1% Alumina	High Fe Grade Al 2.25-4%	1.50	0.00		
170 Alullilla	Low Fe Grade Al <2.25%	72.00	0.00	1% Alumina					
	Low Fe Grade Al 2.25-4%	28.00	0.00						
	High Fe Grade Si <4%	2.00	0.00		High Fe Grade Si <4%	1.25	0.00		
1% Silica	High Fe Grade Si 4-6.5%	27.00	0.00	1% Silica	High Fe Grade Si 4 - 6.5%	0.75	-0.25		
	Low Fe Grade	19.00	0.00						
0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>3.00</td><td>0.00</td><td>0.01%</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%<>	3.00	0.00	0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>0.25</td><td>0.00</td></p<0.115%<>	0.25	0.00		
	High Fe Grade 0.115% <p<0.15%< td=""><td>7.00</td><td>0.00</td><td></td><td>High Fe Grade 0.115%<p<0.15%< td=""><td>1.75</td><td>0.00</td></p<0.15%<></td></p<0.15%<>	7.00	0.00		High Fe Grade 0.115% <p<0.15%< td=""><td>1.75</td><td>0.00</td></p<0.15%<>	1.75	0.00		
Phosphorus	Low Fe Grade 0.09 <p<0.1%< td=""><td>3.00</td><td>0.00</td><td>Phosphorus</td><td></td><td></td><td></td></p<0.1%<>	3.00	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	5.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00			
Beilun	5.00	0.00	Jiangyin	-20.00	-10.00	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	-5.00	5.00	Langiao	0.00	0.00	Nantong	-20.00	-10.00	Tianjin	-20.00	-20.00			

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IRON ORE INDEX PREMIUMS/DISCOUNTS

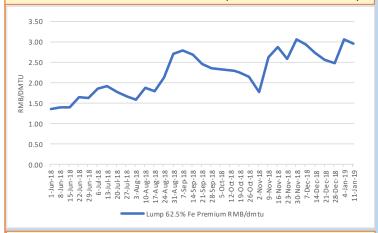
January 14, 2019	PORT STOCK INDEX (RMB/WT)			
Fe Content	Spread to IOPI62	% Spread to IOPI62		
58% Fe Fines	-137	-23.83%		
65% Fe Fines	79	13.74%		

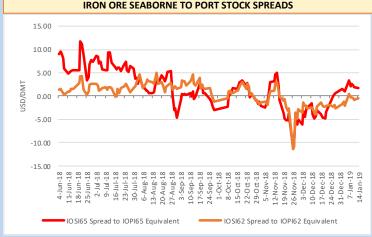


January 14, 2019 SEABORNE INDEX (USD/DMT) **Fe Content** Spread to IOSI62 % Spread to IOSI62 65% Fe Fines 13.10 17.36%



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

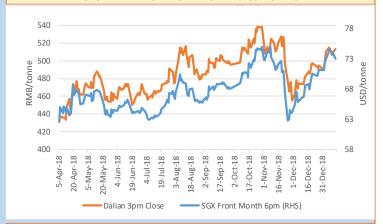




TOTAL IRON ORE INVENTORIES AT CHINA PORTS



FUTURE TRADING—FRONT MONTH CLOSING PRICE



IRON ORE PORT INVENTORIES

Week Ending January 11, 2019 (million tonnes)											
Province	This week	Change %	Low ⁴	High ⁴							
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	14 Jan 3pm close			14 Jan 6 pm			
Contract	11905	Change	Change %	Feb'19	Change	Change %	
Closing Price	513.0	4.0	0.79%	73.04	0.49	0.68%	
Vol traded ('000 lots)	90.43	22.6	33.28%	6.18	-6.48	-51.18%	
Open positions ('000 lots)	83.71	0.4	0.47%	110.72	2.53	2.33%	
Day Low	504.0	-1.0	-0.20%	73.95	1.89	2.62%	
Day High	514.0	4.0	0.78%	74.62	2.07	2.85%	

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Steel Spot Market Prices - China

Steel Spot Market RMB/tonne			
Product	11/1/2019	Change	Change %
ReBar HRB400 ¢18mm	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*1.6/(1.6-0.8); 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/(1.6-0.09); 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%		

³ 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.

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 \ or \ SMM's \ survey \ of \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ China \ or \ small, medium \ and \ large \ mills \ in \ china \ or \ small, medium \ and \ large \ mills \ in \ china \ or \ small, medium \ and \ large \ mills \ or \ small, medium \ and \ large \ mills \ or \ small, medium \ and \ large \ or \ small, medium \ and \ large \ or \ small, medium \ or \$

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IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

,									
	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 transactions. The indices are calculated using detailed transaction-level data submitted to MMi 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.				
Alumina %	1.40	2.25	2.25	1.50				specifications and	
Silica%	1.50	4.00	5.50	3.50				e prices are	
Phosphorus %	0.06	0.09	0.05	0.08 For more details on MMi's iron ore methodology please do		nodology please down	nload the guide		
Sulphur %	0.01	0.02	0.02	0.02		on our website at: www.mmiprices.com			
Moisture %	8.00	8.00	9.00	4.00					
Granular size below 10mm for at least 90% of cargo;		Si bl 6 2 450/	Data Exclusions*						
		Size below 6.3mm max 15%		62%	58%	65%			
Sizilig	maximum of 40% below 150 micron Size abov		Size above 31.15mm max 25%	Port Index	0	0	0		
					Seaborne index	0		0	
Pricing Point	Qingdao F	ort (FOT and CFR re	spectively)	FOT Qingdao Port	Lump Index 62.5	0			
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks		Delivery within 2 weeks	* Number of price submissions for iron ore indices that were excluded from					
Payment Terms	L/C at sight		L/C at sight or CAD	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 14, 2019	SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS			SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSME				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	61.66%	2.44%	3.49%	0.100%	9.29%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.51%	2.25%	4.32%	0.090%	7.89%	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	61.08%	2.85%	4.40%	0.120%	7.05%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%
Carajas Fines	65.09%	1.35%	1.89%	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	62.59%	1.85%	4.67%	0.070%	8.36%	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 14, 2019 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											
	Fe	Alumina	Silica	Phos	Moisture						

January 14, 2019	SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS					
	Fe	Alumina	Silica	Phos	Moisture	
SSF	56.54%	3.10%	6.19%	0.050%	9.24%	
FMG Blended Fines	58.23%	2.69%	5.66%	0.060%	7.43%	
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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