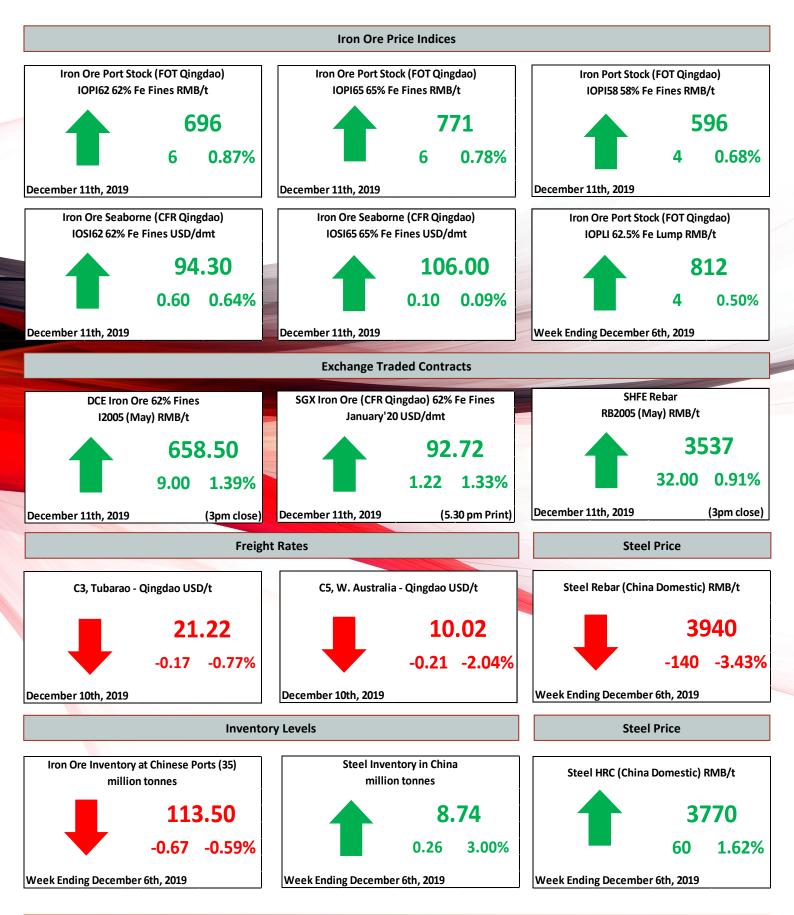


MMi Dashboard



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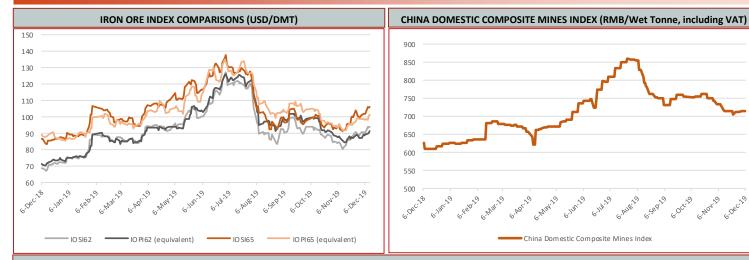
December 11th, 2019

December						IRON OR	E PORT ST	TOCK INDEX	(IOPI)							
	December 11th, 2019 FOT Qingdao (inc. 13% VAT), RMB/wet tonne								CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹							
ndex	Fe Content	Price	Change	Change %	5 MTD	YTD	Low ²	High ²	Price	Chan	ge Chan	ge %	MTD	YTD	Low ²	High ²
DPI62	62% Fe Fines	696	6	0.9%	681	720	551	928	91.29	0.8	4 0.9	%	89.28	95.97	70.96	126.12
PI58	58% Fe Fines	596	4	0.7%	584	631	380	823	78.48	0.5	7 0.7	%	76.82	84.27	47.89	112.4
PI65	65% Fe Fines	771	6	0.8%	755	786	654	992	101.54	0.8	4 0.8	%	99.31	105.21	85.47	135.3
		IR	ON ORE SEA	ABORNE I	NDEX (IOSI)						М	ARKE	т сомме	NTARY		
ecembe	[.] 11th, 2019			CFR Qin	gdao, USD/dr	y tonne							orning though mov in Tangshan. Trade			
ndex	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	cautious, preferr	ing to buy s	mall parcels. Acco	rding to S	MM, mills profits f	or rebar hover are	ound 700yuan/mt	based on an ire
SI62	62% Fe Fines	94.30	0.60	0.64%	91.83	94.05	67.40	127.50	restocking progra	ammes. Heb	ei experienced a	other hea	y on demand for t avy pollution Oran			
)SI65	65% Fe Fines	106.00	0.10	0.09%	103.43	105.45	83.55	137.95	pause and will like	tery nerp eas	e demand in the	province.				
						IRON OR	E PORT LL	JMP INDEX	(IOPLI)							
	ng December		FOT O	ingdao (in	c. 16% VAT), I	RMB/wet t	onne				nadao Faui	valent	(exc. 16%		dry tonne	3
ih, 2019 Idex	Fe Content	Price		Change %	-	YTD	Low ²	High ²	Price	W-o			MTD	YTD	Low ²	High ²
DPLI62	62.5% Fe Lump	812	4	0.5%	812	874	743	1051	100.07	0.50		-	100.07	110.41	93.24	133.8
	ozio/ore zamp	012					-							110.41	55.24	155.0
		h 2045			MESTIC CON						WF OSTIE				, 2	
	ing December 6						nne (exclu	• •					ISD/tonne (
rovince	Region	Product			This week	Change		Low ²	High ²		This week		Change %	Low		High ²
ebei	Hanxing		Concentrate		815	1.9%		644	1032		115.84		1.84%	93.5		150.03
ebei	Qian'an				830	0.0%		690	960		117.97		-0.03%	100.		139.35
iaoning	Anshan	65% Fe	Concentrate	Wet	650	0.0%		535	745		92.39		-0.03%	77.3	9	104.66
handong	Zibo		Concentrate		810	0.0%		740	1040		115.13		-0.03%	107.	44	151.33
	g December 6th,			This we			Low ²	High ²			RMB/USD = 7.0 applied: RMB/L					
nina iviine:	S Concentrate Con			714.2			609.04	859.50						4	(=)	
	IRON C	DRE PORT	INDEX, FO		O (RMB/W)			IRON O	RE SEA	BORNEIN	IDEX,	CFR QING	DAO (USL	(DMT)	
1050 —				A 4				145								
950 — 850 —				your	1			135 — 125 —					m	1		
750 -	~	~	~~~~	^~~	Maria		اسم	115	•		~~~~	הרת		1		
650 🐔		mart and a state	سرمسه	<u> </u>	Cr.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~	105 — 95 —	man horan							
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5 50 🦰																
550 <b>-</b> 450 -								65								
450 - 350 -								55								
450 -		. ²⁹ .29	1 ² ²		1 ²⁰	. A	202	55	19 19	****	1 ¹² . 1 ²	.H. ²		1. A.	and the second s	۹ مربع
450 -	Liber B Life B B	11-A-PT-19	1.Mar19 11.101.19	allow all all all all all all all all all al	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1.19 1.100 1.9	LDec'19	55	19 1.4eb19 1.N	.at.19 7.P	pril J. Maria	7.349-10	1.1 ^{10,19} 1.6 ¹⁰	1.5er 1	1-0ct-19 7.Nov	1.10ec.19
450 -	Linn ¹⁹ Lifebring	1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1		11:10 ¹²⁹ 12:A	6 ^{1,9} ,15 ^{50,19} ,10 ⁰	2.19 11.100 ¹¹⁹ 1	L Dec'19	55	1.2 1.400 1.9 1.0 1.			1.3197-19 5162	1,34 ^{,29} 1,84		1.0ct.19 7.Nov	P 1 Dec'ng
450 -	Lison's Lifest State		62 10	) PI 58	IO PI 65			55 45 1 ⁵⁸ 1 ⁵⁸			IC	SI62			1.002,100 1.2001	P 1.Dec.19
450 - 350 - 250 - 250 -			62 — 10 IRC		ORT STOCK I	NDEX MC	ONTHLY, C	55 45 1 ⁵⁸ 1 ⁵⁸		-TO-D/		si62	IO SIE	55		B 1.Dect B
450 350 250 250 , 10 ^{8eC®} ,	11th, 2019	IO PI	62 IO IRC FOT (	OPI58 ON ORE PO Qingdao (ir	— 10 PI 65 ORT STOCK I nc. 13% VAT),	NDEX MC	ONTHLY, C	55 45 1.0 ^{90^{C1®} 1.1⁹⁰}	AND YEAR	-TO-DA CFR Q	ATE AVER	si62 AGES ivalen		vat), usd,	/dry tonne	
450 350 250 50 50 9 9 9 9 9 9 9	11th, 2019 Fe Content	IO PI	62 IRC FOT ( September	ON ORE PO Qingdao (in October	IO PI 65 ORT STOCK I nc. 13% VAT), November	NDEX MC RMB/wet 1 MTD	ONTHLY, C tonne QTD	55 45 γσ ^{ετλ®} γ.ν ⁶	AND YEAR August	-TO-D/ CFR Q Septer	ATE AVER ingdao Equ nber Octo	si62 AGES ivalen ber f	io sie it (exc. 13% November	VAT), USD, MTD	/dry tonne QTD	YTD
450	11th, 2019	IO PI	62 IO IRC FOT (	OPI58 ON ORE PO Qingdao (ir	— 10 PI 65 ORT STOCK I nc. 13% VAT),	NDEX MC	ONTHLY, C	55 45 1.0 ^{90^{C1®} 1.1⁹⁰}	AND YEAR	-TO-DA CFR Q	ATE AVER ingdao Equ nber Octo 18 94.	SIG 2 AGES ivalen ber 1 29		vat), usd,	/dry tonne	<b>YTD</b> 95.97
450 - 350 - 250 - , 250 - , 25	11th, 2019   Fe Content   62% Fe Fines	August 759	62 IRC FOT ( September 758	DN ORE Pr Qingdao (in October 721	ORT STOCK I nc. 13% VAT), November 665	NDEX MC RMB/wet 1 MTD 681	DNTHLY, C tonne QTD 689	55 45 ریچو ^{ریکی} ریخو QUARTERLY YTD 720	AND YEAR August 123.29	-TO-DA CFR Q Septer 100.	ATE AVERA ingdao Equ nber Octo 18 94. 36 83.	SIG2 AGES ivalen ber 1 29 57	it (exc. 13% November 87.30	VAT), USD, MTD 89.28	<b>/dry tonne</b> QTD 90.31	<b>YTD</b> 95.97 84.27
450 - 350 - 250 - 25	F 11th, 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines	August 759 691 823	62 IRC FOT ( September 758 674 803	ON ORE Pr Qingdao (in October 721 636 758	ORT STOCK I ort 33% VAT), November 665 567 723	NDEX MC RMB/wet 1 MTD 681 584 755	DNTHLY, C tonne QTD 689 596 742	55 45 ریچو ^{ری م} ربره QUARTERLY YTD 720 631 786	AND YEAR August 123.29 110.47	- <b>TO-D</b> / CFR Q Septer 100. 91.8	ATE AVERA ingdao Equ nber Octo 18 94. 36 83.	SIG 2 AGES ivalen ber 1 29 57 32	t (exc. 13%) November 87.30 74.67 95.29	VAT), USD, MTD 89.28 76.82 99.31	<b>/dry tonne</b> QTD 90.31 78.44	<b>YTD</b> 95.9 [°] 84.2 [°]
450 - 350 - 250 - 25	F 11th, 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines 65% Fe Fines	August 759 691 823	62 IRC FOT ( September 758 674 803	OP158 ON ORE Pr Qingdao (in October 721 636 758 7, QUART	IO PI 65 ORT STOCK I nc. 13% VAT), November 665 567 723 ERLY AND YI	NDEX MC RMB/wet f MTD 681 584 755 EAR-TO-D/	DNTHLY, C tonne QTD 689 596 742	55 45 ريجو ²⁰⁰ ريبو QUARTERLY YTD 720 631 786	AND YEAR August 123.29 110.47 129.53	-TO-D/ CFR Q Septer 100. 91.8 108.	ATE AVERA ingdao Equ nber Octo 18 94. 36 83.	SIG 2 AGES ivalen ber 1 29 57 32	t (exc. 13%) November 87.30 74.67 95.29	VAT), USD, MTD 89.28 76.82 99.31 ES	<b>/dry tonne</b> <b>QTD</b> 90.31 78.44 97.52	<b>YTD</b> 95.9 84.2 105.2
450 - 350 - 250 - 25	T 11th, 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOP	10 Pl August 759 691 823 RNE INDEX	62 IRC FOT ( September 758 674 803 X MONTHLY	ON ORE Provide the second seco	ID PI 65 ORT STOCK I nc. 13% VAT), November 665 567 723 ERLY AND YI ngdao, USD/di	NDEX MC RMB/wet f MTD 681 584 755 EAR-TO-D/	DNTHLY, C tonne QTD 689 596 742 ATE AVER	55 45 200ARTERLY YTD 720 631 786 XAGES	AND YEAR August 123.29 110.47 129.53 December 10	-TO-D/ CFR Q Septer 100. 91.8 108.	ATE AVER. ingdao Equ nber Octo 18 94. 36 83. 92 99.	SIG 2 AGES ivalen ber 1 29 57 32	it (exc. 13% November 87.30 74.67 95.29 EIGHT RAT FREIGHT RA	VAT), USD, MTD 89.28 76.82 99.31 ES TES - DRY BUI	/dry tonne QTD 90.31 78.44 97.52 K US\$/wet to	YTD 95.9 84.2 105.2
450 - 350 - 250 - , to see the dex PPI62 PPI65 IRO ecember dex	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines 65% Fe Fines 11th, 2019 Fe Content	August 759 691 823 RNE INDEX	62 IRC FOT ( September 758 674 803 X MONTHLY September	ON ORE P Qingdao (ii October 721 636 758 7, QUARTI CFR Qir October	November November 665 567 723 ERLY AND YI ngdao, USD/di November	NDEX MC RMB/wet f MTD 681 584 755 EAR-TO-D/ Y tonne MTD	DNTHLY, C tonne QTD 689 596 742 ATE AVER QTD	55 45 7,58 ^{ec,79} 7,18 ^e 200 631 786 RAGES	AND YEAR August 123.29 110.47 129.53 December 10 Route	-TO-D/ CFR Q Septer 100. 91.8 108.	ATE AVER. ingdao Equ nber Octo 18 94. 36 83. 92 99. Designation	SIG2 AGES ivalen ber 1 29 57 32 FRE	it (exc. 13% November 87.30 74.67 95.29 EIGHT RAT FREIGHT RA Change	VAT), USD, MTD 89.28 76.82 99.31 ES TES - DRY BUI Change %	/dry tonne QTD 90.31 78.44 97.52 K US\$/wet to Low ²	YTD 95.9 84.2 105.2 nne High ²
450 - 350 - 250 - 25	F Content 62% Fe Fines 58% Fe Fines 65% Fe Fines 65% Fe Fines VORE SEABOP 11th, 2019 Fe Content 62% Fe Fines	August 759 691 823 RNE INDEX August 92.61	62 IRC FOT ( September 758 674 803 X MONTHLY September 93.76	ON ORE P Qingdao (ii October 721 636 758 7, QUARTI CFR Qin October 90.81	ID PI 65 ORT STOCK I nc. 13% VAT), November 665 567 723 ERLY AND YI ngdao, USD/da November 85.83	NDEX MC RMB/wet f 681 584 755 EAR-TO-D/ ry tonne MTD 91.83	DNTHLY, C tonne QTD 689 596 742 ATE AVER QTD 88.92	55 45 7,5e ^{ct,20} 7,1e ⁶ 20 631 786 AGES YTD 94.05	AND YEAR August 123.29 110.47 129.53 December 10 Route W. Australia - C	-TO-D/ CFR Q Septer 100. 91.8 108. th, 2019	ATE AVER. ingdao Equ nber Octo 18 94. 36 83. 92 99. Designation CS	SIG2 AGES ivalen ber 1 29 57 32 FRE	IO SIR it (exc. 13% November 87.30 74.67 95.29 EIGHT RAT FREIGHT RAT Change -0.21	VAT), USD, MTD 89.28 76.82 99.31 ES TES - DRY BUI Change % -2.04%	/dry tonne QTD 90.31 78.44 97.52 K US\$/wet to Low ² 4.39	YTD 95.97 84.27 105.2 nne High ² 11.42
450 - 350 - 250 - 25	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines 65% Fe Fines 11th, 2019 Fe Content	August 759 691 823 RNE INDEX	62 IRC FOT ( September 758 674 803 X MONTHLY September 93.76 99.42	ON ORE Provide the second seco	ID PI 65 ORT STOCK I nc. 13% VAT), November 665 567 723 ERLY AND YI ngdao, USD/di November 85.83 96.49	NDEX MC RMB/wet 1 681 584 755 EAR-TO-D/ Ty tonne MTD 91.83 103.43	DNTHLY, C tonne QTD 689 596 742 ATE AVER QTD 88.92 97.99	55 45 7,56 2 (UARTERLY 720 631 786 331 786 331 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 35 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 787 31 787 31 787 787 787 787 787 787 787 787 787 78	AND YEAR August 123.29 110.47 129.53 December 10 Route W. Australia - C Tubarao - Qingu	-TO-D/ CFR Q Septer 100. 91.8 108. th, 2019	ATE AVER. ingdao Equ nber Octo 18 94. 36 83. 92 99. Designation C5 C3	SIG2 AGES ivalen ber 1 29 57 32 FRE 10.02 21.22	it (exc. 13% November 87.30 74.67 95.29 EIGHT RAT FREIGHT RA Change	VAT), USD, MTD 89.28 76.82 99.31 ES TES - DRY BUI Change %	/dry tonne QTD 90.31 78.44 97.52 K US\$/wet to Low ²	YTD 95.9 84.2 105.2 nne High ² 11.42
450 - 350 - 250 - 25	• 11th, 2019     Fe Content     62% Fe Fines     58% Fe Fines     65% Fe Fines     • 11th, 2019     • 11th, 2019     • 62% Fe Fines     62% Fe Fines     65% Fe Fines     65% Fe Fines     65% Fe Fines	August 759 691 823 RNE INDEX August 92.61	62 IRC FOT ( September 758 674 803 X MONTHLY 93.76 99.42 IRC	ON ORE P Qingdao (ii October 721 636 758 7, QUARTI CFR Qin 90.81 97.45 ON ORE P	ID PI 65 ORT STOCK I nc. 13% VAT), November 665 567 723 ERLY AND YI ngdao, USD/du November 85.83 96.49 ORT LUMP I	NDEX MC RMB/wet f MTD 681 584 755 EAR-TO-D/ y tonne MTD 91.83 103.43 NDEX MO	DNTHLY, C tonne QTD 689 596 742 ATE AVER QTD 88.92 97.99 NTHLY, Q	55 45 7,56 2 (UARTERLY 720 631 786 331 786 331 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 35 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 787 31 787 31 787 787 787 787 787 787 787 787 787 78	AND YEAR August 123.29 110.47 129.53 December 10 Route W. Australia - C Tubarao - Qingu	-TO-DA CFR Q Septer 100. 91.8 108. 108. th, 2019 Aingdao dao	ATE AVER ingdao Equ nber Octo 18 94. 36 83. 92 99. Designation CS C3 TE AVERA	SIG2 AGES ivalen ber 1 29 57 32 FRE 10.02 21.22 XGES	it (exc. 13% November 87.30 74.67 95.29 EIGHT RAT FREIGHT RAT Change -0.21 -0.17	VAT), USD, MTD 89.28 76.82 99.31 ES TES - DRY BUI Change % -2.04% -0.77%	/dry tonne QTD 90.31 78.44 97.52 K US\$/wet to Low ² 4.39 11.61	YTD 95.9 84.2 105.2 nne High ² 11.42 29.10
450 - 350 - 250 - 25	F Content 62% Fe Fines 58% Fe Fines 65% Fe Fines 65% Fe Fines VORE SEABOP 11th, 2019 Fe Content 62% Fe Fines	August 759 691 823 RNE INDEX August 92.61	62 IRC FOT ( September 758 674 803 X MONTHLY 93.76 99.42 IRC	ON ORE P Qingdao (ii October 721 636 758 7, QUARTI CFR Qin 90.81 97.45 ON ORE P	ID PI 65 ORT STOCK I nc. 13% VAT), November 665 567 723 ERLY AND YI ngdao, USD/di November 85.83 96.49	NDEX MC RMB/wet f MTD 681 584 755 EAR-TO-D/ y tonne MTD 91.83 103.43 NDEX MO	DNTHLY, C tonne QTD 689 596 742 ATE AVER QTD 88.92 97.99 NTHLY, Q	55 45 7,56 2 (UARTERLY 720 631 786 331 786 331 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 35 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 787 31 787 31 787 787 787 787 787 787 787 787 787 78	AND YEAR August 123.29 110.47 129.53 December 10 Route W. Australia - C Tubarao - Qingu	-TO-DA CFR Q Septer 100. 91.8 108. 108. th, 2019 Aingdao dao	ATE AVER ingdao Equ nber Octo 18 94. 36 83. 92 99. Designation CS C3 TE AVERA	SIG2 AGES ivalen ber 1 29 57 32 FRE 10.02 21.22 XGES	IO SIR it (exc. 13% November 87.30 74.67 95.29 EIGHT RAT FREIGHT RAT Change -0.21	VAT), USD, MTD 89.28 76.82 99.31 ES TES - DRY BUI Change % -2.04% -0.77%	/dry tonne QTD 90.31 78.44 97.52 K US\$/wet to Low ² 4.39 11.61	YTD 95.9 84.2 105.2 nne High ² 11.42 29.10
450 - 350 - 250 - 25	• 11th, 2019     Fe Content     62% Fe Fines     58% Fe Fines     65% Fe Fines     • 11th, 2019     • 11th, 2019     • 62% Fe Fines     62% Fe Fines     65% Fe Fines     65% Fe Fines     65% Fe Fines	August 759 691 823 RNE INDE2 August 92.61 101.34	62 IRC FOT ( September 758 674 803 X MONTHLY 93.76 99.42 IRC FOT (	ON ORE Provide the second seco	ID PI 65 ORT STOCK I nc. 13% VAT), November 665 567 723 ERLY AND YI ngdao, USD/du November 85.83 96.49 ORT LUMP I	NDEX MC RMB/wet f MTD 681 584 755 EAR-TO-D/ y tonne MTD 91.83 103.43 NDEX MO	DNTHLY, C tonne QTD 689 596 742 ATE AVER QTD 88.92 97.99 NTHLY, Q	55 45 7,56 2 (UARTERLY 720 631 786 331 786 331 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 35 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 786 31 787 31 787 31 787 787 787 787 787 787 787 787 787 78	AND YEAR August 123.29 110.47 129.53 December 10 Route W. Australia - C Tubarao - Qingu	-TO-DA CFR Q Septer 100. 91.8 108. 108. th, 2019 Aingdao dao	ATE AVER. ingdao Equ nber Octo 18 94. 36 83. 92 99. Designation CS C3 TE AVERA ngdao Equ	SIG2 AGES ivalen ber 1 29 57 32 FRR 10.02 21.22 CES ivalen	it (exc. 13% November 87.30 74.67 95.29 EIGHT RAT FREIGHT RAT Change -0.21 -0.17	VAT), USD, MTD 89.28 76.82 99.31 ES TES - DRY BUI Change % -2.04% -0.77%	/dry tonne QTD 90.31 78.44 97.52 K US\$/wet to Low ² 4.39 11.61	YTD 95.97 84.27 105.2 nne High ² 11.42 29.10
450 - 350 - 250 - 25	IIth, 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines IIth, 2019 Fe Content 62% Fe Fines 65% Fe Fines	August 759 691 823 RNE INDE2 August 92.61 101.34	62 IRC FOT ( September 758 674 803 X MONTHLY 93.76 99.42 IRC FOT (	ON ORE Provide the second seco	ID PI 65 ORT STOCK I nc. 13% VAT), November 665 567 723 ERLY AND YI ngdao, USD/di November 85.83 96.49 ORT LUMP I nc. 16% VAT),	NDEX MC RMB/wet f MTD 681 584 755 EAR-TO-D/ Ty tonne MTD 91.83 103.43 NDEX MO RMB/wet	DNTHLY, C tonne QTD 689 596 742 ATE AVER QTD 88.92 97.99 NTHLY, Q tonne	55 45 7,56 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	AND YEAR August 123.29 110.47 129.53 December 10 Route W. Australia - C Tubarao - Qingo	CFR Q Septer 100. 91.8 108. th, 2019 Ningdao dao CFR Qi	ATE AVERA ingdao Equ nber Octo 18 94. 36 83. 92 99. Designation c5 3 3 4 TE AVERA ngdao Equ e Ju	SIG2 AGES ivalen ber 1 29 57 32 FRE 10.02 21.22 AGES ivalen ly	t (exc. 13% November 87.30 74.67 95.29 EIGHT RAT FREIGHT RAT Change -0.21 -0.17 t (exc. 16%	VAT), USD, MTD 89.28 76.82 99.31 ES TES - DRY BUI Change % -2.04% -0.77%	/dry tonne QTD 90.31 78.44 97.52 K US\$/wet to Low ² 4.39 11.61	YTD 95.97 84.27 105.2 nne High ² 11.42 29.10

December 11th, 2019		PORT STOCK IN	December 11th, 2019		SEABORNE INDEX (USD/DMT)			
Index	Fe Content	Spread to IOPI62	read to IOPI62 % Spread to IOPI62 I		Fe Content	Spread to IOSI62	% Spread to IOSI62	
IOPI58	58% Fe Fines	-100	-14.37%					
IOPI65	65% Fe Fines	75	10.78%	IOSI65	65% Fe Fines	11.70	12.41%	

## MMi Daily Iron Ore Index Report

## December 11th, 2019



#### IRON ORE BRAND SPOT PRICE ASSESMENT

December 11th, 2019	PORT	STOCK INDEX (R	MB/WT)	I
	Price	Change	Diff to IOPI62	F
Roy Hill	662	6	-34	F
SIMEC Fines	638	6	-58	5
PB Fines	677	6	-19	F
Newman Fines	699	6	3	r
MAC Fines	672	6	-24	r
Jimblebar Blended Fines	613	6	-83	J
Carajas Fines	779	6	83	0
Brazilian SSF	687	6	-9	E
Brazilian Blend Fines	710	6	14	E
RTX Fines	630	6	-66	F
West Pilbara Fines	664	6	-32	1
December 11th, 2019	PORT	STOCK INDEX (R	MB/WT)	
	Price	Change	Diff to IOPI58	]
SSF	563	4	-33	
FMG Blended Fines	605	4	9	
Robe River	571	4	-25	
Western Fines	553	4	-43	
Atlas Fines	541	4	-55	
Yandi	578	4	-18	

OT PRICE ASSESMENTS										
December 11th, 2019	SEABORNE INDEX (USD/DMT)									
	Price	Change	Diff to IOSI62							
Roy Hill	92.27	0.83	-2.03							
SIMEC Fines	90.52	1.18	-3.78							
PB Fines	93.72	0.76	-0.58							
Newman Fines	94.96	0.66	0.66							
MAC Fines	92.32	0.88	-1.98							
Jimblebar Blended Fines	84.00	1.41	-10.30							
Carajas Fines	104.99	-0.11	10.69							
Brazilian SSF	94.61	0.91	0.31							
Brazilian Blend Fines	95.36	0.66	1.06							
RTX Fines	87.07	0.93	-7.23							
West Pilbara Fines	91.82	0.78	-2.48							

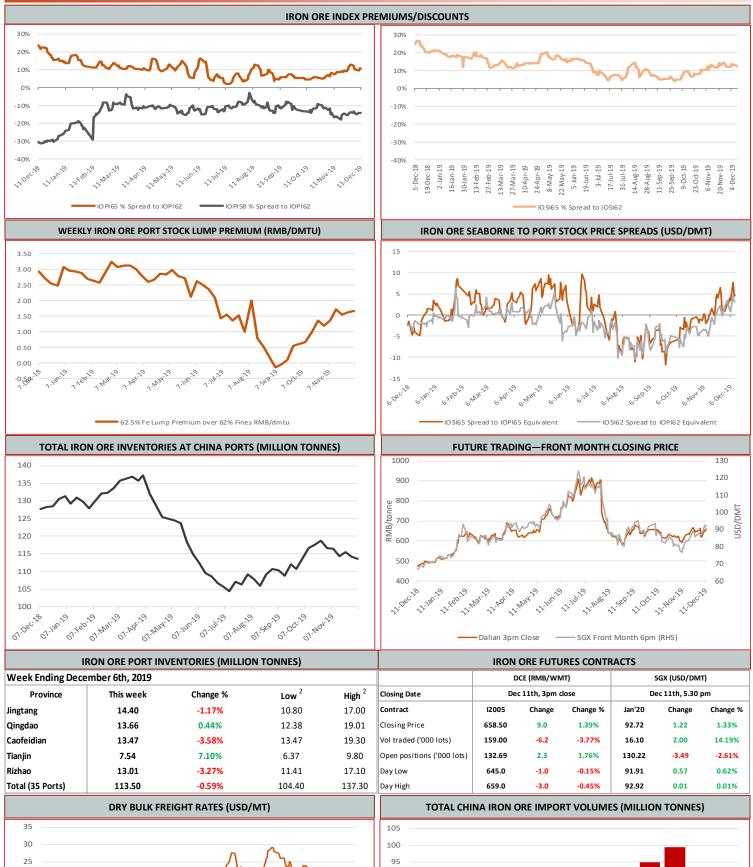
				IRON ORE IN	IDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (RM	/IB/wet tonne)		Sea	aborne Inde	x Product Di	fferentials (	USD/dry tonne	:)
	Ар	plicable range		Value	Change		A	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		4.00	0.00		High Grad	de Fe 60 - 63	%	1.00	0.00
	High Grade	e Fe 63 - 64%		8.00	0.00		High Grad	de Fe 63 - 64	%	1.25	-0.25
1% Fe	High Grade	e Fe 64 - 65%		8.00	0.00	1% Fe	High Grad	de Fe 64 - 65	%	1.25	-0.25
	High Grade	High Grade Fe 65 - 65.5%			0.00		High Grad	de Fe 65 - 65	.5%	1.25	-0.25
	Low Grade	Fe		12.00	0.00						
	High Fe Gra	ade Al <2.25%		35.00	0.00		High Fe G	rade Al <2.2	5%	1.75	-0.25
	High Fe Gra	igh Fe Grade Al 2.25-4%		32.00	0.00	10/ 11	High Fe Grade Al 2.25		-4%	1.00	-0.25
1% Alumina	Low Fe Gra	Low Fe Grade Al <2.25%		24.00	0.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		1.00	0.00						
	High Fe Gra	ade Si <4%		10.00	0.00		High Fe G	rade Si <4%		2.50	0.00
1% Silica	High Fe Gra	High Fe Grade Si 4-6.5%		27.00	0.00	1% Silica	High Fe G	rade Si 4 - 6.	5%	0.75	-0.25
	Low Fe Grade			25.00	0.00						
0.010/	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>6.00</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%	6.00	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 colspan="2">5% 5.00 0.0</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>2.50</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	5% 5.00 0.0		Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>2.50</td><td>0.00</td></p<0.15%<>	2.50	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>%</td><td>3.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	3.00	0.00						
			Port St	ock Price Differei	ntials to Qingd	ao Port for PB Fine	s (RMB/wet t	onne)			
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	-15.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	-10.00	0.00	Jingtang	-10.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-50.00	0.00	Lanqiao	0.00	0.00	Nantong	-15.00	0.00	Tianjin	0.00	0.00

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#### December 11th, 2019

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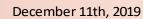
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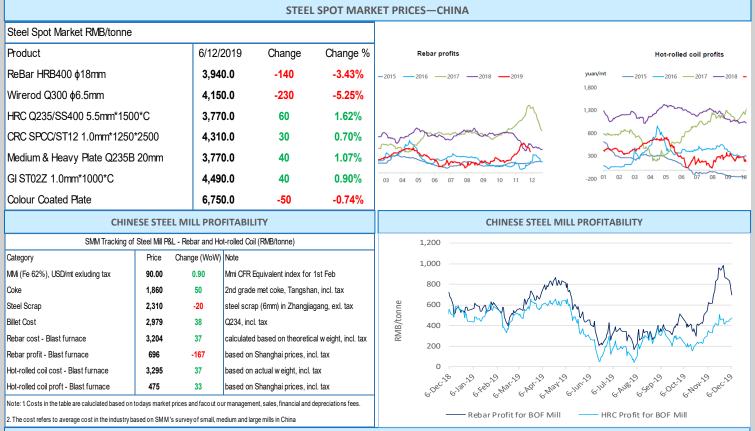
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### MMi Daily Iron Ore Index Report

## December 11th, 2019



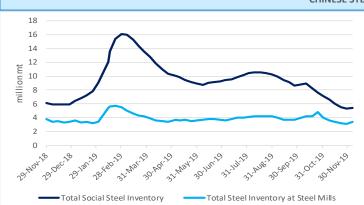
CHINESE STEEL MILL PROFITABILITY

#### Rebar profits



Hot-rolled coil profits





CHINESE STEEL INVENTORIES

Weekly output of rebar



		IRON ORE INDEX S	PECIFICATIONS, CO	MPILATION RATIONALE AND DA	TA EXCLUSION	S			
	Iron Ore	Index Specifications	(Port and Seaborne	)	Iron Ore Inde	ex Compilation I	Rationale and Da	ata Exclusions	
Fe %	65% Fe Fines 65.00	62% Fe Fines	58% Fe Fines 58.00	62.5% Fe Lump 62.50			data provided by co olved in spot market		
Alumina %	1.40	2.25	2.25	1.50	indices are calculated using detailed transaction-level data submitted to MM these companies. This data is normalised to the appropriate specifications ar			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.			e prices are	
Phosphorus %	0.06	0.09	0.05	0.08	For more details on MMi's iron ore methodology please download the guide			nload the guide	
Sulphur %	0.01	0.02	0.02	0.02	published on our w	ebsite at: www.mmi	prices.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 62%	clusions* 58%	65%	
Sizing	maximum of 40% below 150 micron		Size above 31.15mm max 25%	Port Index Seaborne index	0	0	0		
Pricing Point	Qingdao F	Port (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	* Number of price submissions for iron ore indices that were excluded from				
Payment Terms		L/C at sight		L/C at sight or CAD	index calculations today as they were anomalous and could not be verified				
		IRON ORF DO	MESTIC CONCENTR	ATE INDEX CALCULATION METH	ODOLOGY				

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.

		AVER	AGE IRON	ORE SPECIF	ICATIONS A	PPLIED FOR BRAND PRICE A	SSESSMEN	TS			
	PORT	STOCK BRAN	IDS		SEABORNE BRANDS						
December 11th, 2019	1th, 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	60.70%	2.25%	4.70%	0.054%	9.34%	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	61.58%	2.36%	3.70%	0.099%	9.50%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.48%	2.21%	4.09%	0.090%	7.74%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.80%	2.29%	4.71%	0.081%	7.75%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	60.51%	3.03%	4.64%	0.116%	7.92%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%
Carajas Fines	65.39%	1.27%	1.44%	0.082%	7.99%	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	62.99%	1.45%	4.74%	0.073%	7.69%	Brazilian Blend Fines	62.50%	1.50%	5.00%	0.070%	7.00%
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%	RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%
West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%	West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%
December 11th, 2019	Specifi	cations appli	ed for 58%	brand asses	sments						
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.72%	3.04%	6.16%	0.055%	9.09%						
FMG Blended Fines	58.26%	2.73%	5.61%	0.062%	7.55%						
Robe River	56.31%	3.17%	5.64%	0.041%	9.10%						
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%						
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%						

	BLOOMBERG TICKERS										
	PORT STO	CK INDICES		SEABORNE INDICES							
	FOT Qingdao (RMB/wet tonne) CFR Qingdao Equivalent (USD/dry tonne)			CFR Qingdao (USD/DMT)							
IOPI62	IRCNQ001	IRCNQ004	IOSI62	IRCN0034							
IOPI58	IRCNQ002	IRCNQ005	IOS165	IRCN0035							
IOPI65	IRCNQ003	IRCNQ006									
IOPLI62	IRCN0036	IRCN0037									

9.03%

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Yandi

57.11%

1.62%

6.40%

0.041%