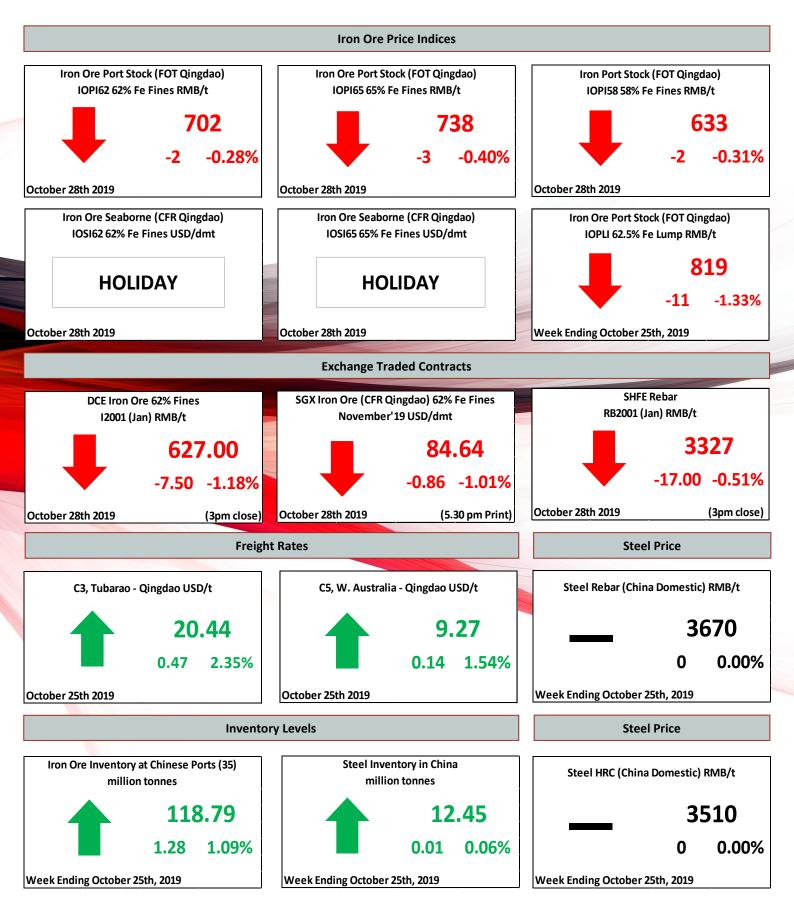


MMi Dashboard



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MMi Daily Iron Ore Index Report

October 28th 2019

	IRON ORE PORT STOCK INDEX (IOPI)														
October 2	October 28th 2019 FOT Qingdao (inc. 13% VAT), RMB/wet tonne									CFR Qing	dao Equivale	ent (exc. 13%	VAT), USD,	/dry tonne	1
Index	Fe Content	Price	Change	Change 9	% MTD	YTD	Low ²	High ²	Price	Change	Change 9	6 MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	702	-2	-0.3%	727	728	535	928	91.62	-0.29	-0.3%	95.08	97.25	68.50	126.12
IOPI58	58% Fe Fines	633	-2	-0.3%	640	640	375	823	83.14	-0.30	-0.4%	84.19	85.64	46.88	112.44
IOPI65	65% Fe Fines	738	-3	- 0.4%	764	795	654	992	96.51	-0.43	-0.4%	100.12	106.65	85.47	135.34
		IR	ON ORE SEA	BORNE	INDEX (IOSI)						MARI		NTARY		
October 2	8th 2019			CFR Qir	ngdao, USD/dry	y tonne			DCE iron ore fu	utures moved	ower and trades i	n the morning wer	e flat or slightly l	owered their quo	tes. Traders in
Index	Fe Content	Price	Change	Change 9	% MTD	YTD	Low ²	High ²			,	ed bids. Although re ly low inventory at		•	
IOSI62	62% Fe Fines		-		91.56	95.09	62.95	127.50	around 5 yuan	/mt to make d	eals. Total transac	tions in the port st	ock market were	down	
IOSI65	65% Fe Fines		IOLIDA	١Y	97.98	106.61	83.20	137.95							
	IRON ORE PORT LUMP INDEX (IOPLI)														
Week Ending October EOT Olivedaa (inc. 16% VAT) BMB (wet tanna										dry tonne ³	3				
25th, 2019 Index	Fe Content	Price		Change 9		YTD	Low ²	High ²	Price	W-oW	Change 9		YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	819	-11	-1.3%	829	885	718	1051	100.45	-1.37	-1.35%	101.74	112.19	89.30	133.81
	ozio/ore zump	015			OMESTIC CON								112.15	05.50	155.01
									SIVIEINTS A					2	
	ing October 25t						nne (exclue				• • •	USD/tonne		-	
Province	Region	Product		Basis	This week	Change		Low ²	High ²		is week	Change %	Low		High ²
Hebei	Hanxing		Concentrate	Dry	820	-3.8%		644	1032		15.96	-3.73%	93.5		150.03
Hebei	Qian'an			Dry	900	-0.6%		690	960		.27.27	-0.53%	100.		139.35
Liaoning	Anshan		Concentrate	Wet	650	0.0%		535	745		91.92	0.02%	77.3		104.66
Shandong	Zibo		Concentrate	Dry	855	-4.5%		740	1040		20.91	-4.45%	106.	55	151.33
	g October 25th, 2 Concentrate Corr			This we			Low ²	High ²			B/USD = 7.0762 ² lied: RMB/USD 7.				
China Wines		·	•	749.5			609.04	859.50	IRON O	RF SFAR					
IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT) IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)												,,			
1050 — 950 — 850 —				\mathcal{N}	-	Lorg		145 135 125 115				مەر	m	1	
950	Benerit ² Serect ² Sere			Sutto Pisto	10.1.5 26 10.1.5 26 10.00	1.5.54 1.5 .5	م ⁰⁰	135 125 115 105 95 85 75 65 55	230ec 19 2	y.In ^{r.19} .254	12 ³ N ⁸⁰¹¹⁹ 2 ³ A			23 K. WE 1.3 23 5 69	23000 ²⁹
950	Behown Beneers Jerr		62 10	PI 58 -	IO PI 65			135 125 115 105 95 55 45 75 45 75 75 45 75 75 75 75 75 75 75 75 75 7			IO SI62			2. K. W. S. 2.5.50	1 ⁹ 230e ^{1,9}
950			62 10 IRC	ON ORE P	PORT STOCK II	NDEX MC	ONTHLY, C	135 125 115 105 95 55 45 75 45 75 75 45 75 75 75 75 75 75 75 75 75 7		R-TO-DAT	IO SI62	2 — 10 SI	65		1.9 230EA9
950			62 10 IRC	DN ORE P Qingdao (i	IO PI 65	NDEX MC	ONTHLY, C	135 125 115 105 95 55 45 75 45 75 75 45 75 75 75 75 75 75 75 75 75 7		R-TO-DAT	IO SIG2 E AVERAGE gdao Equival		65 6 VAT), USD,		₽ ⁹ 2306 ¹⁹
950	8th 2019	IO PI	62 IO IRC FOT C	DN ORE P Qingdao (i		NDEX MC	DNTHLY, C tonne	135 125 115 105 95 75 65 55 45 720 Ce ^{1,39} 73 ⁶ 75 75 45 72 ⁸ 75 ⁹ 75 ⁹	AND YEAF	R-TO-DAT CFR Qin	IO SI62 E AVERAGE gdao Equival August	ent (exc. 13%	65 6 VAT), USD,	/dry tonne	
950	8th 2019 Fe Content	June	62 IO IRC FOT C July	DN ORE P Qingdao (i August	OPI 65 PORT STOCK II inc. 13% VAT), F September	NDEX MC RMB/wet MTD	ONTHLY, C tonne QTD	135 125 115 105 95 85 75 65 55 45 73 06 ² ²⁰ 2 ³ ⁴⁰	AND YEAR	R-TO-DAT CFR Qin July	IO SI62 E AVERAGE gdao Equival August	ent (exc. 13% September	65 S VAT), USD, MTD	/dry tonne QTD	YTD
950	8th 2019 Fe Content 62% Fe Fines	June 825	62 10 IRC FOT (July 909	DN ORE P Qingdao (i August 759	IO PI 65 PORT STOCK II inc. 13% VAT), F September 758	NDEX MC RMB/wet MTD 727	DNTHLY, C tonne QTD 727	135 125 115 105 95 75 65 55 45 72 0 0 0 0 0 0 0 0 0 0 0 0 0	AND YEAF	CFR Qin July	IO SIG2 E AVERAGE gdao Equival August 123.29 110.47	e io si ES ent (exc. 13% September 100.18	65 6 VAT), USD, MTD 95.08	/dry tonne QTD 95.08	YTD 97.25
950	8th 2019 Fe Content 62% Fe Fines 58% Fe Fines	June 825 726 901	62 10 IRC FOT 0 July 909 809 954	DN ORE P Qingdao (i August 759 691 823	IO PI 65 CORT STOCK II inc. 13% VAT), F September 758 674 803	NDEX MC RMB/wet MTD 727 640 764	DNTHLY, C tonne QTD 727 640 764	135 125 115 105 95 55 45 75 45 75 45 75 45 75 45 75 45 75 45 75 75 45 75 75 45 75 75 45 75 75 75 75 75 75 75 75 75 7	AND YEAF June 98.40 86.39	R-TO-DAT CFR Qin July 111.42 98.60	IO SIG2 E AVERAGE gdao Equival August 123.29 110.47 129.53	ent (exc. 13% September 100.18 91.86	65 5 VAT), USD, MTD 95.08 84.19 100.12	/dry tonne QTD 95.08 84.19	YTD 97.25 85.64
950	8th 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR	June 825 726 901	62 10 IRC FOT 0 July 909 809 954	DN ORE P Dingdao (i August 759 691 823 7, QUART	IO PI 65 CORT STOCK II inc. 13% VAT), F September 758 674 803	NDEX MC RMB/wet MTD 727 640 764 AR-TO-D	DNTHLY, C tonne QTD 727 640 764	135 125 115 105 95 55 45 75 45 75 45 75 45 75 45 75 45 75 45 75 75 45 75 75 45 75 75 45 75 75 75 75 75 75 75 75 75 7	AND YEAF June 98.40 86.39	R-TO-DAT CFR Qin July 111.42 98.60 121.97	IO SIG2 E AVERAGE gdao Equival August 123.29 110.47 129.53	ent (exc. 13% September 100.18 91.86 108.92 REIGHT RAT	65 5 VAT), USD, MTD 95.08 84.19 100.12 TES	/dry tonne QTD 95.08 84.19	YTD 97.25 85.64 106.65
950	8th 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR	June 825 726 901	62 10 IRC FOT 0 July 909 809 954	N ORE P Qingdao (i August 759 691 823 7, QUART CFR Qi	IO PI 65 PORT STOCK II inc. 13% VAT), F September 758 674 803 TERLY AND YE	NDEX MC RMB/wet MTD 727 640 764 AR-TO-D	DNTHLY, C tonne QTD 727 640 764	135 125 115 105 95 55 45 75 45 75 45 75 45 75 45 75 45 75 45 75 75 45 75 75 45 75 75 45 75 75 75 75 75 75 75 75 75 7	AND YEAR 98.40 86.39 110.00	CFR Qin July 111.42 98.60 121.97	IO SIG2 E AVERAGE gdao Equival August 123.29 110.47 129.53	ent (exc. 13% September 100.18 91.86 108.92 REIGHT RAT	65 5 VAT), USD, MTD 95.08 84.19 100.12 TES	/dry tonne QTD 95.08 84.19 100.12	YTD 97.25 85.64 106.65
950	8th 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR 8th 2019	June 825 726 901 RNE INDE2	62 IRC FOT C July 909 809 954 K MONTHLY	N ORE P Qingdao (i August 759 691 823 7, QUART CFR Qi	IO PI 65 PORT STOCK II inc. 13% VAT), F September 758 674 803 FERLY AND YE ngdao, USD/dry	NDEX MC RMB/wet 1 MTD 727 640 764 AR-TO-D. y tonne	DNTHLY, C tonne QTD 727 640 764 ATE AVER	135 125 115 105 95 75 65 55 45 729 729 0 0 0 0 0 0 0 0 0 0 0 0 0	AND YEAF 98.40 86.39 110.00 October 25th	R-TO-DAT CFR Qin July 111.42 98.60 121.97	IO SIG2 E AVERAGE gdao Equival August 123.29 110.47 129.53 F	ent (exc. 13% September 100.18 91.86 108.92 REIGHT RAT FREIGHT RAT	65 5 VAT), USD, MTD 95.08 84.19 100.12 TES TES	/dry tonne QTD 95.08 84.19 100.12	YTD 97.25 85.64 106.65
950	8th 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR 8th 2019 Fe Content	June 825 726 901 RNE INDEX	62 IRC FOT C July 909 809 954 K MONTHLY July	N ORE P Qingdao (i August 759 691 823 7, QUART CFR Qi August	DOPIES CORT STOCK II inc. 13% VAT), F September 758 674 803 FERLY AND YE ngdao, USD/dry September	NDEX MC RMB/wet t MTD 727 640 764 AR-TO-D y tonne MTD	ONTHLY, C tonne QTD 727 640 764 ATE AVER QTD	135 125 115 105 95 55 45 75 45 72 00 00 00 00 00 00 00 00 00 0	AND YEAR 98.40 86.39 110.00 October 25th Route	R-TO-DAT CFR Qin July 111.42 98.60 121.97 12019 Raingdao	IO SIG2 E AVERAGE gdao Equival August 123.29 110.47 129.53 F ignation	ent (exc. 13% September 100.18 91.86 108.92 REIGHT RAT FREIGHT RAT Change	65 5 VAT), USD, MTD 95.08 84.19 100.12 TES TES - DRY BUI Change %	/dry tonne QTD 95.08 84.19 100.12 K US\$/wet tor Low ²	YTD 97.25 85.64 106.65 nne High ²
950	8th 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines 65% Fe Sines N ORE SEABOR 8th 2019 Fe Content 62% Fe Fines	June 825 726 901 INE INDEX June 108.57	62 IRC FOT C July 909 809 954 X MONTHLY July 120.82 129.53	PN ORE P Qingdao (i August 759 691 823 7, QUART CFR Qi August 92.61 101.34	IO PI 65 PORT STOCK II inc. 13% VAT), F September 758 674 803 FERLY AND YE ngdao, USD/dry September 93.76	NDEX MC RMB/wet 1 727 640 764 AR-TO-Da y tonne MTD 91.56 97.98	ONTHLY, C tonne QTD 727 640 764 ATE AVER QTD 91.56 97.98	135 125 105 95 55 45 75 45 75 45 75 45 75 45 75 75 45 75 75 75 75 75 75 75 75 75 7	AND YEAR 98.40 86.39 110.00 October 25th Route W. Australia - I Tubarao - Qing	CFR Qin July 111.42 98.60 121.97 2019 Qingdao	E AVERAGE gdao Equival August 123.29 110.47 129.53 F signation c5 9.27 c3 20.4	ent (exc. 13% September 100.18 91.86 108.92 REIGHT RAT FREIGHT RA Change 0.14 4 0.47	65 5 VAT), USD, MTD 95.08 84.19 100.12 TES TES Change % 1.54%	/dry tonne QTD 95.08 84.19 100.12 K US\$/wet ton Low ² 4.39	YTD 97.25 85.64 106.65 nne High ² 11.42
950	8th 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines 65% Fe Sines N ORE SEABOR 8th 2019 Fe Content 62% Fe Fines	June 825 726 901 INE INDEX June 108.57	62 IRC FOT (July 909 809 954 K MONTHLY 120.82 129.53 IRC	And States of the second secon	IO PI 65 PORT STOCK II inc. 13% VAT), F September 758 674 803 FERLY AND YE ngdao, USD/dry September 93.76 99.42	NDEX MC RMB/wet 1 727 640 764 AR-TO-D. y tonne MTD 91.56 97.98	ONTHLY, C tonne QTD 727 640 764 ATE AVER QTD 91.56 97.98 NTHLY, Q	135 125 105 95 55 45 75 45 75 45 75 45 75 45 75 75 45 75 75 75 75 75 75 75 75 75 7	AND YEAR 98.40 86.39 110.00 October 25th Route W. Australia - I Tubarao - Qing	R-TO-DAT CFR Qin July 111.42 98.60 121.97 12019 L2019	IO SIG2 E AVERAGE gdao Equival August 123.29 110.47 129.53 F ignation C5 9.27 C3 20.4 E AVERAGE	ent (exc. 13% September 100.18 91.86 108.92 REIGHT RAT FREIGHT RA Change 0.14 4 0.47	65 5 VAT), USD, MTD 95.08 84.19 100.12 TES TES Change % 1.54% 2.35%	/dry tonne QTD 95.08 84.19 100.12 K US\$/wet ton Low ² 4.39 11.61	YTD 97.25 85.64 106.65 nne High ² 11.42 29.10
950	8th 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR 8th 2019 Fe Content 62% Fe Fines 65% Fe Fines 65% Fe Fines 65% Fe Fines 65% Fe Fines 90 Cotober 25th,	June 825 726 901 XNE INDE2 June 108.57 124.49	62 IRC FOT C July 909 809 954 C MONTHLY 120.82 129.53 IRC FOT C	N ORE P Qingdao (i August 759 691 823 7, QUART CFR Qi August 92.61 101.34 DN ORE P Qingdao (i	IO PI 65 PORT STOCK II inc. 13% VAT), F September 758 674 803 FERLY AND YE ngdao, USD/dry September 93.76 99.42 PORT LUMP IN nc. 16% VAT), F	NDEX MC RMB/wet 1 MTD 727 640 764 AR-TO-D y tonne MTD 91.56 97.98 IDEX MO RMB/wet	DNTHLY, C tonne QTD 727 640 764 ATE AVER 91.56 97.98 NTHLY, Q tonne	135 125 115 105 95 55 45 75 45 75 45 75 45 75 45 75 75 45 75 75 75 75 75 75 75 75 75 7	AND YEAF 98.40 86.39 110.00 October 25th Route W. Australia - I Tubarao - Qing	CFR Qin July 111.42 98.60 121.97 2019 Qingdao dao CFR Qing	E AVERAGE gdao Equival August 123.29 110.47 129.53 F signation c5 9.27 c3 20.4 E AVERAGE dao Equival	ent (exc. 13% September 100.18 91.86 108.92 REIGHT RAT FREIGHT RA Change 0.14 4 0.47 S ent (exc. 16%	65 5 VAT), USD, MTD 95.08 84.19 100.12 TES TES Change % 1.54% 2.35% 5 VAT), USD,	/dry tonne QTD 95.08 84.19 100.12 KUS\$/wet to Low ² 4.39 11.61	YTD 97.25 85.64 106.65 High ² 11.42 29.10
950	8th 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR 8th 2019 Fe Content 62% Fe Fines 65% Fe Fines 65% Fe Fines g October 25th, Fe Content	IO PI June 825 726 901 INE INDE2 June 108.57 124.49	62 IRC FOT C July 909 809 954 K MONTHLY 120.82 129.53 IRC FOT C July	Angust 201 ORE P 201 ORE P	COPI 65 CORT STOCK II inc. 13% VAT), F September 758 674 803 FERLY AND YE ngdao, USD/dry September 93.76 99.42 CORT LUMP IN nc. 16% VAT), F	NDEX MC RMB/wet 1 727 640 764 AR-TO-D, y tonne MTD 91.56 97.98 IDEX MO RMB/wet MTD	DNTHLY, C tonne QTD 727 640 764 ATE AVER QTD 91.56 97.98 NTHLY, Q tonne QTD	135 125 115 105 95 55 45 75 45 75 45 75 45 75 45 75 45 75 45 75 75 45 75 45 75 75 45 75 75 45 75 75 75 75 45 75 75 75 75 75 75 75 75 75 7	AND YEAF 98.40 86.39 110.00 October 25th Route W. Australia - Tubarao - Qing AND YEAR	R-TO-DAT CFR Qin July 111.42 98.60 121.97 2019 constant constant constant CFR Qing June	E AVERAGE gdao Equival August 123.29 110.47 129.53 F ignation c5 9.27 c3 20.4 E AVERAGE dao Equival	ent (exc. 13% September 100.18 91.86 108.92 REIGHT RA FREIGHT RA Change 0.14 4 0.47 S ent (exc. 16% September	65 5 VAT), USD, MTD 95.08 84.19 100.12 TES TES Change % 1.54% 2.35% 5 VAT), USD, 7 MTD	/dry tonne QTD 95.08 84.19 100.12 K US\$/wet ton Low ² 4.39 11.61 /dry tonne QTD	YTD 97.25 85.64 106.65 High ² 11.42 29.10 1 YTD
950	8th 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR 8th 2019 Fe Content 62% Fe Fines 65% Fe Fines 65% Fe Fines 65% Fe Fines 65% Fe Fines 90 Cotober 25th,	June 825 726 901 XNE INDE2 June 108.57 124.49	62 IRC FOT C July 909 809 954 C MONTHLY 120.82 129.53 IRC FOT C	N ORE P Qingdao (i August 759 691 823 7, QUART CFR Qi August 92.61 101.34 DN ORE P Qingdao (i	IO PI 65 PORT STOCK II inc. 13% VAT), F September 758 674 803 FERLY AND YE ngdao, USD/dry September 93.76 99.42 PORT LUMP IN nc. 16% VAT), F September 803	NDEX MC RMB/wet 1 MTD 727 640 764 AR-TO-D, y tonne MTD 91.56 97.98 IDEX MO RMB/wet MTD 829	DNTHLY, C tonne QTD 727 640 764 ATE AVER 91.56 97.98 NTHLY, Q tonne QTD 835	135 125 115 105 95 75 65 55 45 75 45 75 65 55 45 75 75 75 75 75 75 75 75 75 7	AND YEAR 98.40 86.39 110.00 October 25th Route W. Australia - 0 Tubarao - Qing AND YEAR	CFR Qin July 111.42 98.60 121.97 2019 Qingdao dao CFR Qing	E AVERAGE gdao Equival August 123.29 110.47 129.53 F ignation c5 9.27 c3 20.4 E AVERAGE dao Equival	ent (exc. 13% September 100.18 91.86 108.92 REIGHT RAT FREIGHT RA Change 0.14 4 0.47 S ent (exc. 16%	65 5 VAT), USD, MTD 95.08 84.19 100.12 TES TES Change % 1.54% 2.35% 5 VAT), USD,	/dry tonne QTD 95.08 84.19 100.12 KUS\$/wet to Low ² 4.39 11.61	YTD 97.25 85.64 106.65 High ² 11.42 29.10
950 - 850 - 550 - 450 - 250 - 25	8th 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF 8th 2019 Fe Content 62% Fe Fines 65% Fe Fines	IO PI June 825 726 901 INE INDE2 June 108.57 124.49	62 IRC FOT C July 909 809 954 K MONTHLY 120.82 129.53 IRC FOT C July	Angust 759 691 823 7 QUART CFR Qi August 92.61 101.34 N ORE F Qingdao (i August 870	IO PI 65 PORT STOCK II inc. 13% VAT), F September 758 674 803 FERLY AND YE ngdao, USD/dry September 93.76 99.42 PORT LUMP IN nc. 16% VAT), F September 803 IRC	NDEX MC RMB/wet 1 727 640 764 AR-TO-D. y tonne 91.56 97.98 IDEX MO RMB/wet MTD 829 DN ORE II	DNTHLY, C tonne QTD 727 640 764 ATE AVER 91.56 97.98 NTHLY, Q tonne QTD 835	135 125 105 95 75 45 75 45 75 45 75 45 75 45 75 75 75 75 75 75 75 75 75 7	AND YEAR 98.40 86.39 110.00 October 25th Route W. Australia - I Tubarao - Qing AND YEAR May 128.00	R-TO-DAT CFR Qin July 111.42 98.60 121.97 2019 constant constant constant CFR Qing June	E AVERAGE gdao Equival August 123.29 110.47 129.53 F ignation c5 9.27 c3 20.4 E AVERAGE dao Equival	ent (exc. 13% September 100.18 91.86 108.92 REIGHT RA FREIGHT RA Change 0.14 4 0.47 S september 98.44	65 5 VAT), USD, MTD 95.08 84.19 100.12 TES TES Change % 1.54% 2.35% 5 VAT), USD, r MTD 101.74	/dry tonne QTD 95.08 84.19 100.12 K US\$/wet ton Low ² 4.39 11.61 /dry tonne QTD 102.39	YTD 97.25 85.64 106.65 High ² 11.42 29.10 1 YTD
950	8th 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR 8th 2019 Fe Content 62% Fe Fines 65% Fe Fines id State 62% Fe Fines 65% Fe Fines 65% Fe Fines id State 9 October 25th, Fe Content 62.5% Fe Lump th 2019	IO PI June 825 726 901 INE INDE2 June 108.57 124.49 June 1009	62 IRC FOT C July 909 809 954 K MONTHLY 120.82 129.53 IRC FOT C July 1046	August 759 691 823 7, QUART CFR Qi August 92.61 101.34 92.61 101.34 N ORE P Ringdao (i August 870	IO PI 65 PORT STOCK II inc. 13% VAT), F September 758 674 803 FERLY AND YE ngdao, USD/dry September 93.76 99.42 PORT LUMP IN nc. 16% VAT), F September 803 IRC DCK INDEX (RMB	NDEX MC RMB/wet 1 727 640 764 AR-TO-D, y tonne MTD 91.56 97.98 IDEX MO RMB/wet MTD 829 DN ORE II y/WT)	DNTHLY, C tonne QTD 727 640 764 ATE AVER 91.56 97.98 NTHLY, Q tonne QTD 835 NDEX PRE	135 125 105 95 75 45 75 45 75 45 75 45 75 45 75 75 45 75 75 75 75 75 75 75 75 75 7	AND YEAF 98.40 86.39 110.00 October 25th Route W. Australia - Tubarao - Qing AND YEAR May 128.00 SCOUNTS	CFR Qin July 111.42 98.60 121.97 2019 Pe Qingdao dao CFR Qing CFR Qing 132.99	E AVERAGE gdao Equival August 123.29 110.47 129.53 F ignation c5 9.27 c3 20.4 E AVERAGE dao Equival July 108.80	ent (exc. 13% September 100.18 91.86 108.92 REIGHT RA FREIGHT RA Change 0.14 4 0.47 S September 98.44 SEABOR	65 5 VAT), USD, MTD 95.08 84.19 100.12 TES TES Change % 1.54% 2.35% 5 VAT), USD, 7 MTD	/dry tonne QTD 95.08 84.19 100.12 K US\$/wet ton Low ² 4.39 11.61 /dry tonne QTD 102.39	YTD 97.25 85.64 106.65 High ² 11.42 29.10 1 1.42 29.10
950 - 850 - 750 - 450 - 250 - 250 - 750 - 100 - 10	8th 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOF 8th 2019 Fe Content 62% Fe Fines 65% Fe Fines	IO PI June 825 726 901 INE INDE2 June 108.57 124.49 June 1009	62 IRC FOT C July 909 809 954 K MONTHLY 120.82 129.53 IRC FOT C July 1046 Spread t	Angust 759 691 823 7 QUART CFR Qi August 92.61 101.34 N ORE F Qingdao (i August 870	IO PI 65 PORT STOCK II inc. 13% VAT), F September 758 674 803 FERLY AND YE ngdao, USD/dry September 93.76 99.42 PORT LUMP IN nc. 16% VAT), F September 803 IRC DCK INDEX (RMB	NDEX MC RMB/wet 1 727 640 764 AR-TO-D. y tonne 91.56 97.98 IDEX MO RMB/wet MTD 829 DN ORE II	DNTHLY, C tonne QTD 727 640 764 ATE AVER 91.56 97.98 NTHLY, Q tonne QTD 835 NDEX PRE	135 125 105 95 75 45 75 45 75 45 75 45 75 45 75 75 75 75 75 75 75 75 75 7	AND YEAF 98.40 86.39 110.00 October 25th Route W. Australia - Tubarao - Qing AND YEAR May 128.00 SCOUNTS	R-TO-DAT CFR Qin July 111.42 98.60 121.97 2019 constant constant constant CFR Qing June	E AVERAGE gdao Equival August 123.29 110.47 129.53 F ignation c5 9.27 c3 20.4 E AVERAGE dao Equival July 108.80	ent (exc. 13% September 100.18 91.86 108.92 REIGHT RAT FREIGHT RAT FREIGHT RAT Change 0.14 4 0.47 S ent (exc. 16% September 98.44 SEABORI ead to IOSI62	65 5 VAT), USD, MTD 95.08 84.19 100.12 TES TES Change % 1.54% 2.35% 5 VAT), USD, r MTD 101.74	/dry tonne QTD 95.08 84.19 100.12 K US\$/wet ton Low ² 4.39 11.61 /dry tonne QTD 102.39 % Spread to	YTD 97.25 85.64 106.65 High ² 11.42 29.10 1 1.42 29.10

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IRON ORE BRAND SPOT PRICE ASSESMENTS

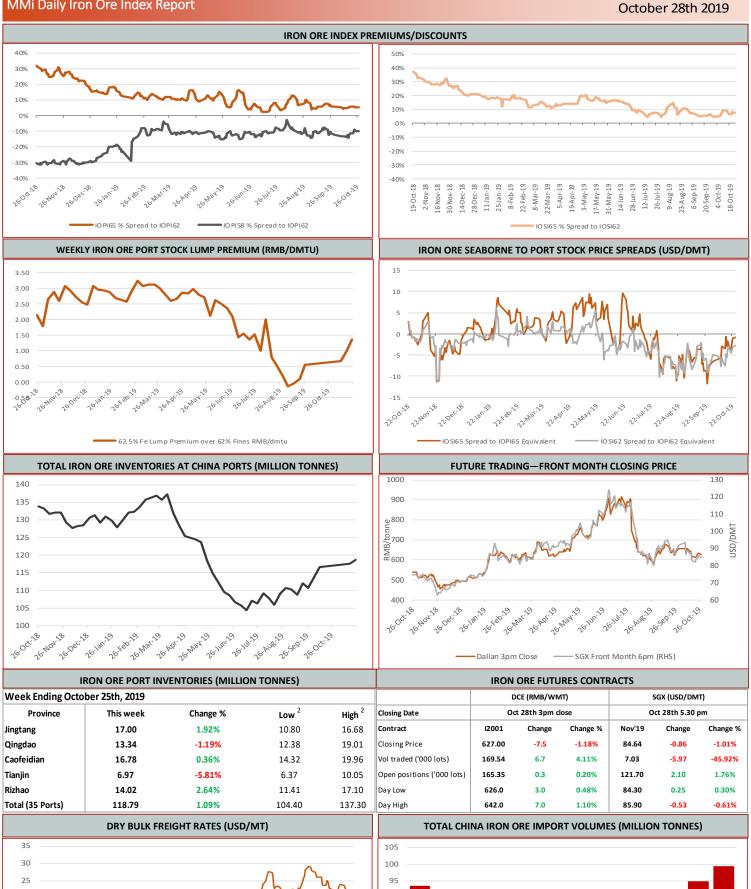
October 28th 2019	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI62	Γ		
Roy Hill	683	-2	-19	F		
SIMEC Fines	692	-2	-10	s		
PB Fines	681	-1	-21	P		
Newman Fines	707	-2	5	P		
MAC Fines	693	-3	-9	N		
Jimblebar Blended Fines	637	1	-65	J		
Carajas Fines	741	-2	39	C		
Brazilian SSF	713	-2	11	E		
Brazilian Blend Fines	707	-2	5	E		
RTX Fines	661	0	-41	F		
West Pilbara Fines	680	-1	-22	V		
October 28th 2019	PORT	STOCK INDEX (R	MB/WT)			
	Price	Change	Diff to IOPI58	1		
SSF	567	6	-66			
FMG Blended Fines	632	2	-1			
Robe River	573	4	-60			
Western Fines	578	4	-55			
Atlas Fines	564	1	-69			
Yandi	604	0	-29			

ND SPOT PRICE ASSESSMENTS										
	October 28th 2019	SEABO	SEABORNE INDEX (USD/DMT)							
DPI62		Price	Change	Diff to IOSI62						
1	Roy Hill	87.72								
	SIMEC Fines	86.32								
	PB Fines	88.22								
	Newman Fines	89.41								
	MAC Fines	87.22		IDAY						
	Jimblebar Blended Fines	79.65		DAT						
	Carajas Fines	96.41								
	Brazilian SSF	89.46								
	Brazilian Blend Fines	89.96								
	RTX Fines	82.57								
	West Pilbara Fines	87.57								

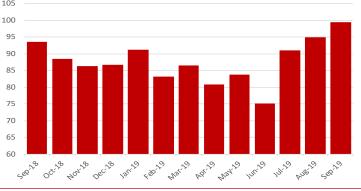
				IRON ORE IN	IDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (RN	/IB/wet tonne)		Se	aborne Inde	x Product D	ifferentials (l	JSD/dry tonne	:)
	Ар	plicable range		Value	Change		A	pplicable rai	nge	Value	Change
	High Grade	e Fe 60 - 63%		8.00	0.00		High Grad	le Fe 60 - 63	%	0.50	0.00
	High Grade	e Fe 63 - 64%		8.00	0.00		High Grad	le Fe 63 - 64	%	1.50	0.00
1% Fe	High Grade	e Fe 64 - 65%		8.00	0.00	1% Fe	High Grad	le Fe 64 - 65	%	1.50	0.00
	High Grade	e Fe 65 - 65.5%		8.00	0.00		High Grad	le Fe 65 - 65	.5%	1.50	0.00
	Low Grade	Fe		20.00	0.00						
	High Fe Gra	ade Al <2.25%		3.00	0.00		High Fe G	rade Al <2.2	5%	1.75	0.00
	High Fe Gra	High Fe Grade Al 2.25-4%		29.00 - <mark>3.00</mark>			High Fe G	High Fe Grade Al 2.25-4%		2.00	0.00
1% Alumina	Low Fe Gra	Low Fe Grade Al <2.25%			3.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		33.00	-10.00						
	High Fe Gra	ade Si <4%		4.00	0.00		High Fe G	rade Si <4%		1.00	0.00
1% Silica	High Fe Gra	High Fe Grade Si 4-6.5%			0.00	1% Silica	High Fe Grade Si 4 - 6.5%		.5%	0.75	0.00
	Low Fe Gra	Low Fe Grade			0.00						
0.040/	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>4.00</td><td>0.00</td><td>0.01%</td><td>High Fe G</td><td>rade 0.09%<</td><td><p<0.115%< td=""><td>0.00</td><td>0.00</td></p<0.115%<></td></p<0<>	.115%	4.00	0.00	0.01%	High Fe G	rade 0.09%<	<p<0.115%< td=""><td>0.00</td><td>0.00</td></p<0.115%<>	0.00	0.00
0.01%	High Fe Gra	High Fe Grade 0.115% <p<0.15%< td=""><td>0.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td>6<p<0.15%< td=""><td>2.25</td><td>0.00</td></p<0.15%<></td></p<0.15%<>		0.00	0.00	Phosphorus	High Fe G	rade 0.115%	6 <p<0.15%< td=""><td>2.25</td><td>0.00</td></p<0.15%<>	2.25	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.1< td=""><td>%</td><td>0.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.1<>	%	0.00	0.00						
			Port St	ock Price Differe	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	-25.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	0.00	0.00	Jingtang	0.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-50.00	0.00	Langiao	0.00	0.00	Nantong	-10.00	0.00	Tianjin	-15.00	0.00

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MMi Daily Iron Ore Index Report

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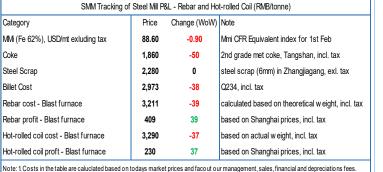
October 28th 2019

MMi Daily Iron Ore Index Report

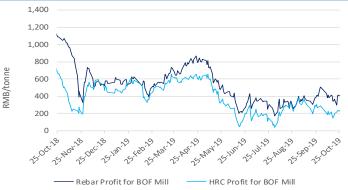
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STEEL SPOT MARKET PRICES—CHINA

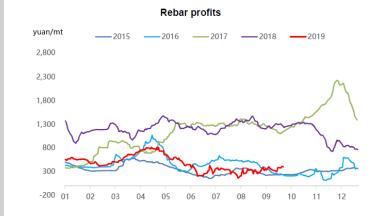
Steel Spot Market RMB/tonne						
Product		25/10/	2019 Change	Change %	1.000 mt	Weekly output of hot-rolled coil
		3,67	0.0 0	0.00%	4,100	1,000 mt -2015 -2016 -2017 -2018 -2019 3,700 .
		4,06	0.0 20	0.50%	3,800	3,500
HRC Q235/SS400 5.5mm*150	0*C	3,51	0.0 0	0.00%	3,200	3,300
CRC SPCC/ST12 1.0mm*1250	*2500	4,22	0.0 <mark>-20</mark>	-0.47%	2,900	2,900
Medium & Heavy Plate Q235B	3 20mm	3,70	0.0 0	0.00%	2,300	2,700
GI ST02Z 1.0mm*1000*C		4,38	0.0 <mark>-50</mark>	-1.13%	2,000 01 02 03 04 05 06 07 08 09 10 11 12	2,500 01 02 03 04 05 06 07 08 09 10 11 12
Colour Coated Plate		6,85	0.0 <mark>-50</mark>	-0.72%		
CHINESE STEEL MILL PROFITABILITY					CHINESE STEEL	MILL PROFITABILITY
SMM Tracking of	f Steel Mill F	&L - Rebar and Ho	t-rolled Coil (RMB/tonne)		1,400	
Category	Price	Change (WoW)	Note		1,200	
MMi (Fe 62%), USD/mt exluding tax	88.60	-0.90	Mmi CER Equivalent index fo	or 1st Feb	1.000	

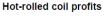


2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

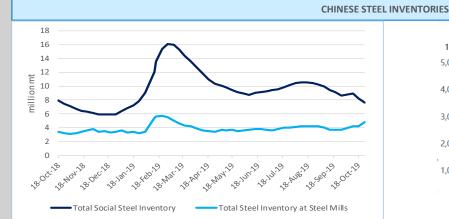


CHINESE STEEL MILL PROFITABILITY











In-plant inventory of rebar



October 28th 2019

IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS												
	Iron Ore	Index Specifications	Iron Ore Inde	ex Compilation R	ationale and Da	ta Exclusions						
	65% Fe Fines	62% Fe Fines	MMi iron ore indice	MMi iron ore indices are compiled from data provided by companies that are								
Fe %	65.00	62.00	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								
Alumina %	1.40 2.25 2.25 1.50					his data is normalised	to the appropriate s	, pecifications and				
Silica%	1.50	4.00	5.50	3.50 screened to remove outliers before volume-w 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			load 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	low 10mm for at lea	st 90% of cargo:	Size below 6.3mm max 15%		Data Exc 62%	lusions* 58%	65%				
Sizing		m of 40% below 150	0,	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	o						
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 index calculations today as they were anomalous and could not be verified							
Payment Terms		L/C at sight		L/C at sight or CAD	index calculations t	oday as they were and	omaious and could ne	ot be verified				
Í.	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 BRAN	IDS			SEAB	ORNE BRAN	DS			
October 28th 2019	Specifi	cations appli	ed for 62%	brand asses	sments	Specifications applied for 62% brand assessments					sments
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	61.16%	2.25%	4.61%	0.052%	9.35%	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	61.54%	2.39%	3.69%	0.097%	9.58%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.50%	2.19%	4.13%	0.092%	7.74%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.87%	2.26%	4.63%	0.080%	7.66%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	60.44%	3.05%	4.59%	0.119%	7.70%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%
Carajas Fines	65.43%	1.28%	1.35%	0.078%	8.22%	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	62.92%	1.54%	4.60%	0.069%	8.39%	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%
October 28th 2019	Specifi	cations appli	ed for 58%	brand asses	sments						
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.57%	3.05%	6.25%	0.051%	8.17%						
FMG Blended Fines	58.17%	2.66%	5.46%	0.057%	7.86%						
Robe River	56.28%	2.91%	5.58%	0.035%	9.29%						
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%						
Atlas Fines	56.59%	2.55%	7.14%	0.080%	8.46%						

	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	IOSI65	IRCN0035								
IOPI65	IRCNQ003	IRCNQ006										
IOPLI62	IRCN0036	IRCN0037										

9.00%

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Yandi

57.22%

1.58%

6.36%

0.041%

