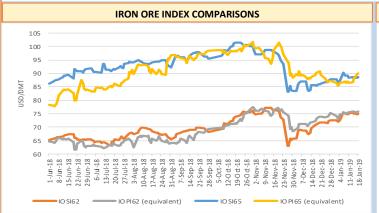
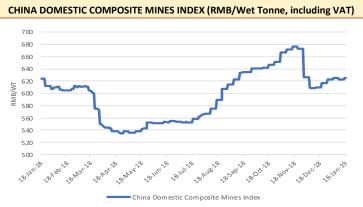


	/ Iron Or	e Inde	x Repo	ort								Januar	y 18, 2	019	
						IRON ORI	E PORT ST	TOCK INDEX	(IOPI)						
anuary 18	8, 2019		FOT C	Qingdao (inc	. 16% VAT),	RMB/wet t	onne			CFR Qingda	o Equivale	nt (exc. 16%	VAT), USD/	dry tonne	1
ndex	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²
OPI62	62% Fe Fines	576	4	0.7%	574	574	443	603	75.89	0.47	0.6%	75.16	75.16	61.36	77.89
OPI58	58% Fe Fines	460	2	0.4%	434	434	304	460	59.82	0.21	0.4%	55.93	55.93	40.67	59.82
OPI65	65% Fe Fines	679	4	0.6%	663	663	541	784	90.15	0.46	0.5%	87.38	87.38	75.83	101.7
		IRC	ON ORE SEA	ABORNE IN	IDEX (IOSI)						MARK	ET COMME	ΝΤΔΡΥ		
anuary 18	8. 2019)		dao, USD/di	v tonne			Pre-holiday res	tocking from ste		d draw on iron ore		week. High der	nand ahead o
•	T	Duine	Chanas			•	. 3	3				n ports at highs th ngtze River, expan			
ndex	Fe Content	Price	Change	Change %	MTD	YTD	Low ³	High ³	Stocks across 3	5 major Chinese	ports accumulat	ed by 1.69 million	mt from a week	ago to stand at	130.99 millio
OSI62	62% Fe Fines	75.00	0.20	0.3%	74.42	74.42	62.95	86.20		w 178,000 mt, t		or the same perio illion mt.	u, average ually t	ienveries or iro	i ore departi
OSI65	65% Fe Fines	88.60	0.25	0.3%	88.50	88.50	83.20	101.50							
								JMP INDEX	(IOPLI)						
Neek Endi	ing January 18		FOT C	lingdao (inc	. 16% VAT),	RMB/wet t	tonne			CFR Qingda	ao Equivale	nt (exc. 16%	VAT), USD/	dry tonne	
ndex	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low ³	High ³	Price	W-oW	Change %	MTD	YTD	Low ³	High
OPLI62	62.5% Fe Lump	780	-5	-0.6%	783	783	565	789	99.80	-0.30	-0.3%	99.58	99.58	76.63	100.1
			IRO	N ORE DO	MESTIC CO	NCENTRAT	E SPOT P	RICE ASSESS	SMENTS A	ND COMP	OSITE INDI	X			
Week End	ling January 11tl	h, 2018				RMB/to	nne (exclu	ding tax) ⁴				USD/tonne	(excluding t	ax) ⁴	
Province	Region	Product		Basis 1	This week	Change	%	Low ²	High ²	This	week	Change %	Low	2	High ²
Hebei	Hanxing	66% Fe C	Concentrate	Dry	694	0.7%		579	718	10	1.61	1.10%	84.7	7	105.12
Hebei	Qian'an	65% Fe C	Concentrate	Dry	750	-0.7%	6	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
Shandong	Zibo	65% Fe C	Concentrate	Dry	740	0.0%		620	815	10	8.34	0.38%	90.7	7	119.32
Week End	ling January 11tl	h, 2018			This week	Change	%	Low ⁵	High ⁵			MB/USD = 6.7665 oplied: RMB/USD 6			ne 1 2018
China Min	es Concentrate	Composite	Index RMB/	WT	623.27	-0.3%	5	534.50	676.26	weekiy	excilatige rate a	opilea. Kivib/OSD 6	0.6500 LdSt 1211	ionins	
	IRON C	ORE PORT	NDEX, FO	r QINGDAC	(RMB/WT)			IRON O	RE SEABO	RNE INDEX	, CFR QING	DAO (USD	/DMT)	
750 —				~~~~	~~			95 —			~~	~~	5		
650 — 550 ~	لىمىسىر	~~			~~~	سمدا	~~	85 75					~~	~~~	
450		~~~	~~~					65	~		~~			~~~	
350		~~~						55							
250								45							
2-Apr-18	17-Apr-18 2-May-18 17-May-18 1-Jun-18	16-Jun-18 1-Jul-18	31-Jul-18 15-Aug-18	30-Aug-18 14-Sep-18 29-Sep-18	14-0d-18 29-0d-18 13-Nov-18	28-Nov-18 13-Dec-18	28-Dec-18 12-Jan-19		28 JULY 23 JULY 27	141,18 AUE 18	158 27580°	5,00°,190° 1,N°	16 MON 30 MON 3	ADEC'S DEC'S	ilani 19
2-A	-														
2-A		IO PI 63			IO PI 65	NDEV	NIT!	NIA PTETA		TO 5:	10 SI62		55		
		IO PI 62	IRC	ON ORE PO	RT STOCK I			QUARTERLY			AVERAGE	S		dry to a	1
anuary 18	8, 2019		IR(ON ORE PO Qingdao (inc	RT STOCK I	RMB/wet t	onne		AND YEAR	CFR Qingd	AVERAGE:	S nt (exc. 16%	VAT), USD/		
lanuary 18 Index	8, 2019 Fe Content	September	FOT (ON ORE PO Qingdao (inc November	RT STOCK I c. 16% VAT), December	RMB/wet t	onne QTD	YTD	AND YEAR	CFR Qingd October	AVERAGE: ao Equivale November	nt (exc. 16% December	VAT), USD/ January	QTD	YTD
lanuary 18 Index OPI62	8, 2019 Fe Content 62% Fe Fines	September 513	FOT (October 564	ON ORE PO Qingdao (inc November 564	RT STOCK I c. 16% VAT), December 559	RMB/wet t January 574	QTD 574	YTD 574	AND YEAR September 64.29	CFR Qingd October 63.41	AVERAGE: ao Equivale November 65.25	nt (exc. 16% December 72.55	VAT), USD/ January 75.16	QTD 75.16	YTD 75.16
anuary 18 ndex OPI62 OPI58	8, 2019 Fe Content 62% Fe Fines 58% Fe Fines	September 513 385	FOT 0 Ctober 564 401	ON ORE PO Qingdao (ind November 564 401	c. 16% VAT), December 559 392	RMB/wet t January 574 434	QTD 574 434	YTD 574 434	September 64.29 44.14	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 75.16 55.93	QTD 75.16 55.93	75.1 55.9
anuary 18 ndex OPI62 OPI58 OPI65	8, 2019 Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines	September 513 385 732	FOT (0 Ctober 564 401 760	ON ORE PO Qingdao (ind November 564 401 760	RT STOCK I 2. 16% VAT), December 559 392 681	January 574 434 663	QTD 574 434 663	YTD 574 434 663	AND YEAR September 64.29	CFR Qingd October 63.41	AVERAGE: ao Equivale November 65.25 45.84 92.13	nt (exc. 16% December 72.55 50.47 99.05	VAT), USD/ January 75.16 55.93 87.38	QTD 75.16	75.1 55.9
anuary 18 ndex OPI62 OPI58 OPI65 IRO	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines	September 513 385 732	FOT (0 Ctober 564 401 760	ON ORE PO Qingdao (inc November 564 401 760 Y, QUARTE	RT STOCK I c. 16% VAT), December 559 392 681 RLY AND YI	January 574 434 663 EAR-TO-DA	QTD 574 434 663	YTD 574 434 663	September 64.29 44.14 82.19	October 63.41 44.86 85.29	AVERAGE: ao Equivale November 65.25 45.84 92.13	nt (exc. 16% December 72.55 50.47 99.05 REIGHT RAT	VAT), USD/ January 75.16 55.93 87.38	QTD 75.16 55.93 87.38	75.1 55.9 87.3
anuary 18 ndex OPI62 OPI58 OPI65 IRO	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines	September 513 385 732	FOT (0 Ctober 564 401 760	ON ORE PO Qingdao (inc November 564 401 760 Y, QUARTE	RT STOCK I 2. 16% VAT), December 559 392 681	January 574 434 663 EAR-TO-DA	QTD 574 434 663	YTD 574 434 663	September 64.29 44.14	October 63.41 44.86 85.29	AVERAGE: ao Equivale November 65.25 45.84 92.13	nt (exc. 16% December 72.55 50.47 99.05	VAT), USD/ January 75.16 55.93 87.38	QTD 75.16 55.93 87.38	75.1 75.1 55.9 87.3
anuary 18 ndex OPI62 OPI58 OPI65 IRO anuary 18	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines	5eptember 513 385 732 RNE INDEX	FOT (FOT (October 564 401 760	ON ORE PO Qingdao (inc November 564 401 760 Y, QUARTE CFR Qing	RT STOCK I :. 16% VAT), December 559 392 681 RLY AND YI	January 574 434 663 EAR-TO-DA	QTD 574 434 663	YTD 574 434 663	September 64.29 44.14 82.19	CFR Qingd October 63.41 44.86 85.29 2019 Design	AVERAGE: ao Equivale November 65.25 45.84 92.13 Fi	December 72.55 50.47 99.05 REIGHT RAT	VAT), USD/ January 75.16 55.93 87.38	QTD 75.16 55.93 87.38 K US\$/wet Low 5	75.1 55.9 87.3 tonne
opi62 OPi65 IRO lanuary 18	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOR	5eptember 513 385 732 RNE INDEX	FOT (FOT (October 564 401 760	ON ORE PO Qingdao (inc November 564 401 760 Y, QUARTE CFR Qing	RT STOCK I :. 16% VAT), December 559 392 681 RLY AND YI	January 574 434 663 EAR-TO-Dary tonne	Onne	YTD 574 434 663 AGES	September 64.29 44.14 82.19	CFR Qingd October 63.41 44.86 85.29 2019 Design	AVERAGE: ao Equivale November 65.25 45.84 92.13	December 72.55 50.47 99.05 REIGHT RAT	VAT), USD/ January 75.16 55.93 87.38 ES	QTD 75.16 55.93 87.38	75.1 55.9 87.3 tonne
anuary 18 ndex OPI62 OPI58 OPI65 IRO lanuary 18 ndex OSI62	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines NO ORE SEABOI 8, 2019 Fe Content	September 513 385 732 RNE INDEX	FOT COctober 564 401 760 MONTHLY COctober	ON ORE PO Qingdao (inc November 564 401 760 Y, QUARTE CFR Qing	RT STOCK I c. 16% VAT), December 559 392 681 RLY AND YI gdao, USD/di	RMB/wet t January 574 434 663 EAR-TO-D/ ry tonne January	Onne QTD 574 434 663 ATE AVER	YTD 574 434 663 RAGES	September 64.29 44.14 82.19 January 17th Route	CFR Qingd October 63.41 44.86 85.29 2019 Desig	AVERAGE: ao Equivale November 65.25 45.84 92.13 Fi	per comparison of the comparis	VAT), USD/ January 75.16 55.93 87.38 ES ES - DRY BUI Change %	QTD 75.16 55.93 87.38 K US\$/wet Low 5	75.1 55.9 87.3 tonne High
ndex OPI62 OPI58 OPI65 IRO January 18	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOI 8, 2019 Fe Content 62% Fe Fines	513 385 732 RNE INDEX 5eptember 68.79	FOT 0	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/di December 69.96 85.95	RMB/wet t January 574 434 663 EAR-TO-D/ ry tonne January 74.42 88.50	9 QTD 574 434 663 ATE AVER QTD 74.42 88.50	YTD 574 434 663 RAGES YTD 74.42	AND YEAR September 64.29 44.14 82.19 January 17th Route W. Australia - U	CFR Qingd October 63.41 44.86 85.29 2019 Desig	AVERAGE: ao Equivale November 65.25 45.84 92.13 FI nation 25 6.27 33 16.91	pecember 72.55 50.47 99.05 REIGHT RAT FREIGHT RAT Change 0.41 0.27	VAT), USD/ January 75.16 55.93 87.38 ES ES - DRY BUI Change %	QTD 75.16 55.93 87.38 K US\$/wet Low 5 5.109	75.1 55.9 87.3 tonne High
lanuary 18 Index IOPI62 IOPI65 IRO January 18 Index IOSI62 IOSI65	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOI 8, 2019 Fe Content 62% Fe Fines	513 385 732 RNE INDEX 5eptember 68.79	FOT 6	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/di December 69.96 85.95	ARMB/wet to January 574 434 663 EAR-TO-DA 19 19 19 19 19 19 19 19 19 19 19 19 19	9 QTD 574 434 663 ATE AVER QTD 74.42 88.50 NTHLY, Q	YTD 574 434 663 AGES YTD 74.42 88.50	AND YEAR September 64.29 44.14 82.19 January 17th Route W. Australia - U	CFR Qingd October 63.41 44.86 85.29 2019 Designation dao -TO-DATE	AVERAGE: ao Equivale November 65.25 45.84 92.13 Fi nation 55 6.27 63 16.91	pecember 72.55 50.47 99.05 REIGHT RAT FREIGHT RAT Change 0.41 0.27	VAT), USD/ January 75.16 55.93 87.38 ES ES - DRY BUI Change % 6.98% 1.62%	QTD 75.16 55.93 87.38 K US\$/wet Low 5 5.109 12.705	YTD 75.16 55.93 87.38 tonne High 10.002 24.76
lanuary 18 Index IOPI62 IOPI65 IRO January 18 Index IOSI62 IOSI65	Fe Content 62% Fe Fines 58% Fe Fines 65% Fe Fines N ORE SEABOI 8, 2019 Fe Content 62% Fe Fines 65% Fe Fines	513 385 732 RNE INDEX September 68.79 96.48	FOT (Cotober 760) TOCtober 760 MONTHLY 72.31 98.97 IRC	ON ORE PO Qingdao (inc November 564 401 760 Y, QUARTE CFR Qing November 72.91 94.05 ON ORE PO Qingdao (inc	RT STOCK I c. 16% VAT), December 559 392 681 RLY AND YI gdao, USD/dd December 69.96 85.95 DRT LUMP I c. 16% VAT),	ARMB/wet to January 574 434 663 EAR-TO-DA 19 19 19 19 19 19 19 19 19 19 19 19 19	9 QTD 574 434 663 ATE AVER QTD 74.42 88.50 NTHLY, Q	YTD 574 434 663 AGES YTD 74.42 88.50	September 64.29 44.14 82.19 January 17th Route W. Australia - Utbarao - Qing	CFR Qingd October 63.41 44.86 85.29 2019 Designation dao -TO-DATE CFR Qingd	AVERAGE: ao Equivale November 65.25 45.84 92.13 Ff nation 25 6.27 23 16.91 AVERAGE: ao Equivale	December 72.55 50.47 99.05 REIGHT RAT Change 0.41 0.27	VAT), USD/ January 75.16 55.93 87.38 ES ES - DRY BUI Change % 6.98% 1.62%	QTD 75.16 55.93 87.38 K US\$/wet Low 5 5.109 12.705	77D 75.16 55.93 87.38 87.38 tonne High 5 10.002 24.76



January 18, 2019





IRON ORE BRAND SPOT PRICE ASSESMENTS

January 18, 2019	PORT STOCK INDEX (RMB/WT)					
	Price	Change	Diff to IOPI62			
Roy Hill	536	4	-40			
SIMEC Fines	496	4	-80			
PB Fines	559	4	-17			
Newman Fines	582	4	6			
MAC Fines	547	4	-29			
Jimblebar Blended Fines	517	4	-59			
Carajas Fines	684	7	108			
Brazilian SSF	581	4	5			
Brazilian Blend Fines	588	4	12			
RTX Fines	516	4	-60			

RTX Fines	516	4	-60	
January 18, 2019	PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58	
SSF	395	2	-65	
FMG Blended Fines	455	2	-5	
Robe River	499	2	39	
Western Fines	402	2	-58	
Atlas Fines	395	2	-65	
Yandi	491	2	31	

	January 18, 2019	SEABORNE INDEX (USD/DMT)					
		Price	Change	Diff to IOSI62			
	Roy Hill	70.60	0.20	-4.40			
	SIMEC Fines	67.80	0.20	-7.20			
l	PB Fines	74.50	0.20	-0.50			
	Newman Fines	77.39	0.20	2.39			
	MAC Fines	70.70	0.20	-4.30			
	Jimblebar Blended Fines	66.42	0.20	-8.58			
l	Carajas Fines	88.19	0.20	13.19			
l	Brazilian SSF	77.19	0.20	2.19			
	Brazilian Blend Fines	78.06	0.20	3.06			
l	RTX Fines	67.27	0.20	-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	0.00		High Grade Fe 60 - 63%	3.00	0.00
1% Fe	High Grade Fe 63 - 64%	18.00	0.00		High Grade Fe 63 - 64%	2.50	0.00
	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	0.00	1% Alumina	High Fe Grade Al <2.25%	2.75	0.00
1% Alumina	High Fe Grade Al 2.25-4%	15.00	0.00		High Fe Grade Al 2.25-4%	1.00	0.00
1% Alumina	Low Fe Grade Al <2.25%	75.00	0.00				
	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	0.00	1% Silica	High Fe Grade Si 4 - 6.5%	0.50	0.00
	Low Fe Grade	22.00	0.00				
0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>2.00</td><td>0.00</td><td>0.019/</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	0.019/	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>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	0.00	Jingtang	-5.00	0.00	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	0.00

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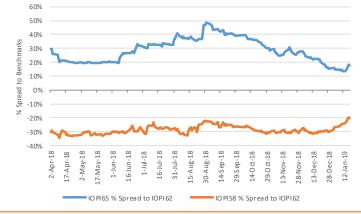
January 18, 2019

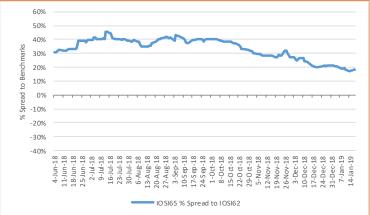


January 18, 2019

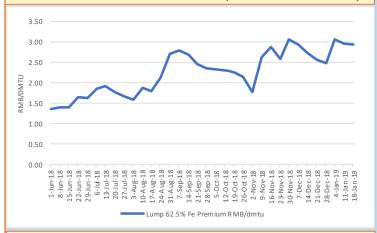
IRON ORE INDEX PREMIUMS/DISCOUNTS

January 18, 2019	PORT STOCK II	NDEX (RMB/WT)
Fe Content	Spread to IOPI62	% Spread to IOPI62
58% Fe Fines	-116	-20.14%
65% Fe Fines	103	17.88%

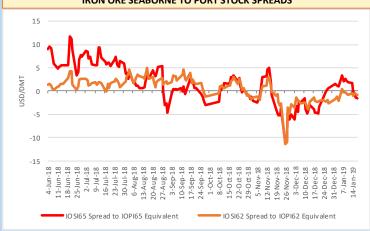




WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (62.5% FE LUMP—62% FE FINES)



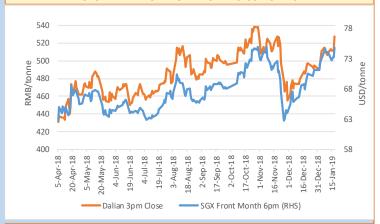
IRON ORE SEABORNE TO PORT STOCK SPREADS



TOTAL IRON ORE INVENTORIES AT CHINA PORTS



FUTURE TRADING—FRONT MONTH CLOSING PRICE



Week Ending January 18, 2019 (million tonne

Week Ending January 18, 2019 (million tonnes)										
Province	This week	Change %	Low ⁴	High ⁴						
Jingtang	13.76	-0.94%	13.29	19.00						
Qingdao	17.76	1.49%	16.09	19.97						
Caofeidian	17.60	-1.68%	16.70	25.30						
Tianjin	9.30	-1.06%	8.50	11.00						
Rizhao	14.85	4.58%	14.00	19.00						
Total (35 Ports)	130.99	1.31%	127.72	150.04						

IRON ORE PORT INVENTORIES

IRON ORE FUTURES CONTRACTS

	DCE				SGX	
Closing Date	18 Jan 3pm close				18 Jan 6 pm	
Contract	11905	Change	Change %	Feb'19	Change	Change %
Closing Price	528.0	14.5	2.82%	74.91	1.65	2.25%
Vol traded ('000 lots)	168.97	85.2	101.80%	13.13	2.19	19.98%
Open positions ('000 lots)	99.23	9.6	10.67%	108.74	-0.02	-0.02%
Day Low	511.0	3.5	0.69%	73.55	0.72	0.99%
Day High	530.0	15.0	2.91%	75.05	1.68	2.29%

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January 18, 2019



January 18, 2019





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*1*tb/(15-0.01); Calculation formula for converting export prices of wire rod and hot-rolled steel into prices in hina's spot market = FOB* exchange rate *1*tb/(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%			

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 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 weight, 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 Index Specifications (Port and Seaborne)						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 by these companies. This data is normalised to the appropriate specifications and				
Alumina %	1.40	2.25	2.25	1.50				specifications and	
Silica%	1.50	4.00	5.50	screened to remove outliers before volume-weighted average prices 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 guid		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					
	C		-+ 000/ -f	Si bl 6 2 450/		Data Exc	:lusions*		
Sizing	Granular size be	ow 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 P	ort (FOT and CFR res	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	index calculations today as they were anomalous and could not be verified			ot 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 18, 2019	SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMENTS			SPECIFICATIONS APPLIED FOR 62% BRAND ASSESSMEN				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%	2.42%	3.53%	0.100%	9.25%	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	65.23%	1.29%	1.76%	0.080%	8.04%	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 18, 2019 SPECIFICATIONS APPLIED FOR 58% BRAND ASSESSMENTS											
	Fe	Alumina	Silica	Phos	Moisture						

January 18, 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				

CONTACT US

MMI Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7629 E: jarek@mmiprices.com
SMM Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7630 E: service.en@smm.cn
SMM Shanghai Office Details: 9th FL, Building 9, Lujiazui Software Park, No.20, Lane 91, Pudong, Shanghai Tel: +86 021 5155 0306 E: service.en@smm.cn

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