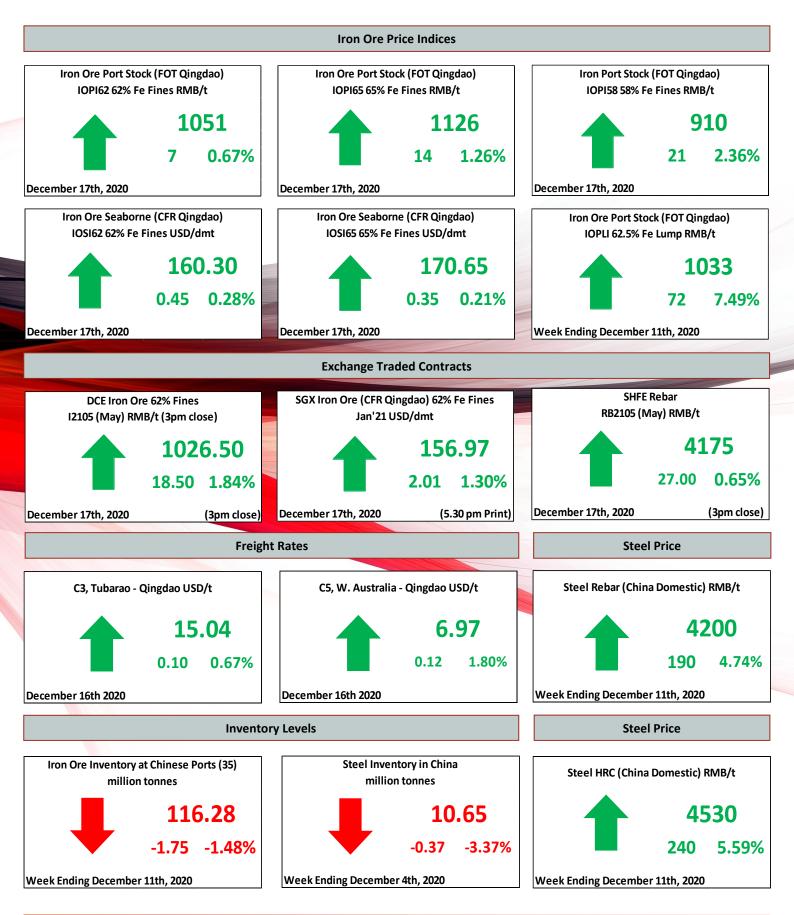


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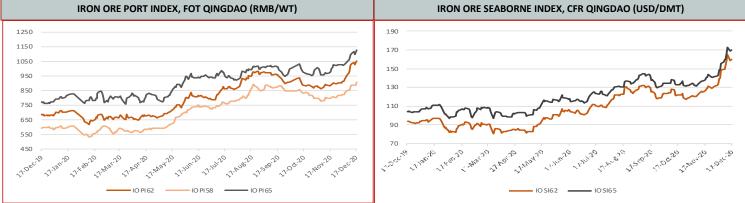
MMi Daily Iron Ore Index Report

IRON ORE PORT STOCK INDEX (IOPI)

IRON ORE PORT STOCK INDEX (IOPI)															
December	⁻ 17th, 2020		FOT	Qingdao (in	ngdao (inc. 13% VAT), RMB/wet tonne					CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹					
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fines	1051	7	0.7%	986	807	619	1051	150.55	1.01	0.7%	140.79	108.76	81.37	150.55
IOPI58	58% Fe Fines	910	21	2.4%	861	718	531	910	131.23	3.11	2.4%	123.82	97.36	70.02	131.23
IOPI65	65% Fe Fines	1126	14	1.3%	1073	912	759	1126	161.59	2.04	1.3%	153.50	123.35	99.04	161.59
IRON ORE SEABORNE INDEX (IOSI)							MARKET COMMENTARY								
December 17th, 2020 CFR Qingdao, USD/dry tonne										hitting new highs. Acco					
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low ²	High ²	87.75%, detlining 1.06% from the same period last year. Some mills in Hebel province resured their production as the local government removed the emergency response control for heavy pollution. According to market players, iron ore deliveries from ports in Tangshan m dropped due to snowy weather, causing a small increase of the iron ore inventory at Jingtang port.						
IOSI62	62% Fe Fines	160.30	0.45	0.28%	151.89	107.88	80.65	165.00							
IOSI65	65% Fe Fines	170.65	0.35	0.21%	160.74	121.35	97.05	172.35							
IRON ORE PORT LUMP INDEX (IOPLI)															
Week Endiı 11th, 2020	ng December		FOT C	Qingdao (in	c. 13% VAT)	, RMB/wet t	onne		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ³						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low ²	High ²	Price	W-oW	Change %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lump	1033	72	7.5%	997	888	804	1033	141.71	10.77	8.23%	136.33	114.38	101.03	141.71
			IRO	N ORE DO	MESTIC CO	NCENTRAT	E SPOT P	RICE ASSES	SMENTS A	ND COMP	OSITE INDE	x			
Week End	ing December 1	1th, 2020				RMB/ton	ine (excluc	ling tax) ³			ι	JSD/tonne	(excluding t	ax) ³	
Province	Region	Product	:	Basis	This week	Change	%	Low ²	High ²	This	week	Change %	Low	2	High ²
Hebei	Hanxing	66% Fe	Concentrate	Dry	1094	5.2%		763	1094	16	57.34	5.69%	109.2	28	167.34
Hebei	Qian'an	65% Fe	Concentrate	Dry	1059	2.6%		780	1059	16	1.99	3.10%	110.5	51	161.99
Liaoning	Anshan	65% Fe	Concentrate	Wet	830	1.8%		620	830	12	6.96	2.32%	87.4	0	126.96
Shandong	Zibo	65% Fe	Concentrate	Dry	1130	3.7%		810	1130	17	2.85	4.16%	115.1	13	172.85
									-						

Low² High ² Week Ending December 11th, 2020 This week Change % ¹ Exchange rate applied: RMB/USD = 6.5362 ²Last 12 months ³ Weekly exchange rate applied: RMB/USD 6.5683 China Mines Concentrate Composite Index RMB/WT 923.51 0.00% 702.47 947.97

IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)



			IRC	ON ORE P	ORT STOCK I	NDEX MC	NTHLY, C	UARTERLY	AND YEA	R-TO-DATE	AVERAGE	S			
December	17th, 2020		FOT	Qingdao (iı	nc. 13% VAT),	RMB/wet	tonne		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	August	September	October	November	MTD	QTD	YTD	August	September	October	November	MTD	QTD	YTD
IOPI62	62% Fe Fines	948	946	892	888	986	915	807	127.65	129.64	123.88	125.18	140.79	125.44	108.76
IOPI58	58% Fe Fines	838	870	828	799	861	824	718	113.63	120.14	115.94	113.43	123.82	113.84	97.36
IOPI65	65% Fe Fines	992	998	982	996	1073	1011	912	133.70	136.85	136.68	140.93	153.50	136.75	123.35
IRON ORE SEABORNE INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES								AGES	FREIGHT RATES						
December	17th, 2020			CFR Qir	ngdao, USD/dr	y tonne			December 1	.6th 2020		FREIGHT R/	ATES - DRY BUI	LK US\$/wet tor	ıne
Index	Fe Content	August	September	October	November	MTD	QTD	YTD	Route	Design	ation	Change	Change %	Low ²	High ²
IOSI62	62% Fe Fines	124.02	126.26	122.16	126.25	151.89	130.59	107.88	W. Australia	Qingdao C	6.97	0.12	1.80%	3.57	10.80
IOSI65	65% Fe Fines	132.95	138.39	133.94	137.65	160.74	141.55	121.35	Tubarao - Qin	gdao Ci	3 15.04	4 0.10	0.67%	6.70	22.78
			IRC	ON ORE P	ORT LUMP II	NDEX MO	NTHLY, Q	UARTERLY	AND YEAR	R-TO-DATE A	VERAGE	s			
Week Endin 11th, 2020	g December		FOT C	Qingdao (ir	nc. 13% VAT),	RMB/wet	tonne		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						
Index	Fe Content	August	September	October	November	MTD	QTD	YTD	August	September	October	Novembe	r MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	932	959	919	919	997	934	888	120.08	125.87	121.91	124.21	136.33	121.65	114.38
					IR	ON ORE II	NDEX PRE	MIUMS/DI	SCOUNTS						
December 1	L7th, 2020			PORT STO	OCK INDEX (RMI	B/WT)		December 1	17th, 2020 SEABORNE INDEX (USD/DMT)						
Index	Fe Co	ntent	Spread t	to IOPI62	%	Spread to IC	DPI62	Index	F	e Content	Spre	ead to IOSI62		% Spread to	IOSI62
IOPI58	58% Fe	Fines	-1	.41		-13.42%									
IOPI65	65% Fe	Fines	7	75		7.14%		IOSI65	6	% Fe Fines		10.35		6.46%	1

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IRON ORE BRAND SPOT PRICE ASSESMENT

December 17th, 2020	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI62				
Roy Hill	1020	10	-31	R			
SIMEC Fines	1004	18	-47	s			
PB Fines	1031	7	-20	P			
Newman Fines	1052	6	1	⊾			
MAC Fines	1031	12	-20	⊾			
Jimblebar Blended Fines	1009	9	-42	IJ			
Carajas Fines	1124	13	73	∥c			
Brazilian SSF	1021	18	-30	В			
Brazilian Blend Fines	1041	10	-10	В			
RTX Fines	1025	8	-26	R			
West Pilbara Fines	1019	13	-32	v			
December 17th, 2020	December 17th, 2020 PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58]			
SSF	869	13	-41				
FMG Blended Fines	912	21	2				

882

886

922

925

15

13

21

17

-28

-24

12

15

P	POT PRICE ASSESMENTS									
	December 17th, 2020	SEABORNE INDEX (USD/DMT)								
2		Price	Change	Diff to IOSI62						
	Roy Hill	151.85	0.72	-8.45						
	SIMEC Fines	142.40	0.86	-17.90						
	PB Fines	156.90	0.54	-3.40						
	Newman Fines	158.10	0.43	-2.20						
	MAC Fines	152.95	0.72	-7.35						
	Jimblebar Blended Fines	148.30	1.56	-12.00						
	Carajas Fines	167.27	0.43	6.97						
	Brazilian SSF	148.42	0.76	-11.88						
	Brazilian Blend Fines	158.42	0.43	-1.88						
	RTX Fines	147.55	1.49	-12.75						
	West Pilbara Fines	151.45	0.84	-8.85						

				IRON ORE IN	IDEX NORM	LISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (RM	MB/wet tonne)		Sea	aborne Inde	x Product D	ifferentials (L	JSD/dry tonne	:)
	Ар	plicable range		Value	Change		A	pplicable rar	nge	Value	Change
	High Grade	e Fe 60 - 63%		4.00	-2.00		High Grad	de Fe 60 - 63	%	2.50	-0.25
	High Grade	e Fe 63 - 64%		22.00 3.00			High Grade Fe 63 - 64%			0.50	0.00
1% Fe	High Grade	High Grade Fe 64 - 65%			3.00	1% Fe	High Grad	de Fe 64 - 65	%	0.50	0.00
	High Grade Fe 65 - 65.5%			22.00	3.00		High Grad	High Grade Fe 65 - 65.5%		0.50	0.00
	Low Grade Fe			4.00	2.00						
1% Alumina	High Fe Grade Al <2.25%			11.00	3.00		High Fe G	High Fe Grade Al <2.25%		1.50	0.25
	High Fe Gra	High Fe Grade Al 2.25-4%			3.00	1% Alumina	High Fe G	irade Al 2.25	-4%	5.00	-0.25
	Low Fe Gra	Low Fe Grade Al <2.25%			0.00	1% Alumina					
	Low Fe Gra	w Fe Grade Al 2.25-4%		26.00	3.00						
	High Fe Gra	ade Si <4%		7.00	0.00		High Fe G	irade Si <4%		1.00	0.00
1% Silica	High Fe Grade Si 4-6.5%			26.00 -3.00		1% Silica	High Fe Grade Si 4 - 6.5%			5.50	0.00
	Low Fe Gra	Low Fe Grade			3.00						
0.010/	High Fe Gra	High Fe Grade 0.09% <p<0.115%< td=""><td>0.00</td><td>0.01%</td><td colspan="3">High Fe Grade 0.09%<p<0.115%< td=""><td>0.50</td><td>-0.25</td></p<0.115%<></td></p<0.115%<>			0.00	0.01%	High Fe Grade 0.09% <p<0.115%< td=""><td>0.50</td><td>-0.25</td></p<0.115%<>			0.50	-0.25
0.01%	High Fe Grade 0.115% <p<0.15% 1.00<="" td=""><td>1.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>irade 0.115%</td><td>6<p<0.15%< td=""><td>1.00</td><td>0.00</td></p<0.15%<></td></p<0.15%>		1.00	0.00	Phosphorus	High Fe G	irade 0.115%	6 <p<0.15%< td=""><td>1.00</td><td>0.00</td></p<0.15%<>	1.00	0.00	
Phosphorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>%</td><td>2.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	2.00	0.00						
			Port St	ock Price Differer	ntials to Qingo	ao Port for PB Fine	s (RMB/wet t	tonne)			
Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-35.00	0.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Rizhao	0.00	0.00
Beilun	-5.00	0.00	Jiangyin	-30.00	0.00	Lianyungang	0.00	0.00	Shekou	0.00	0.00
Caofeidian	-5.00	0.00	Jingtang	-5.00	0.00	Majishan	0.00	0.00	Taicang	-30.00	0.00
Dalian	-35.00	0.00	Langiao	0.00	0.00	Qingdao	0.00	0.00	Tianjin	-10.00	0.00

Robe River

Atlas Fines

Yandi

Western Fines

December 17th, 2020

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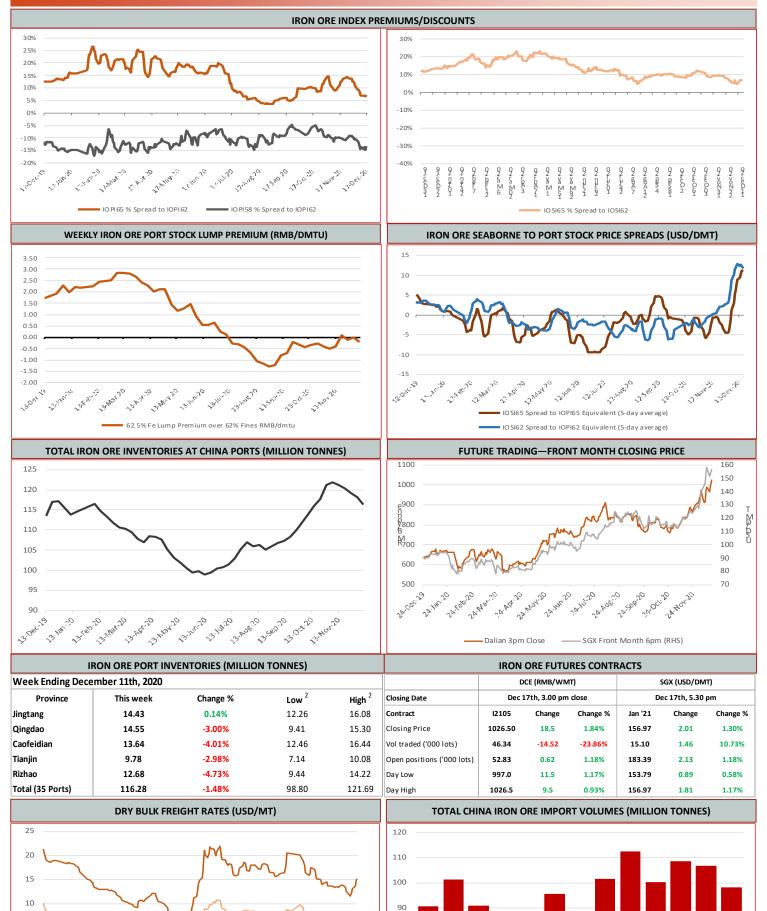
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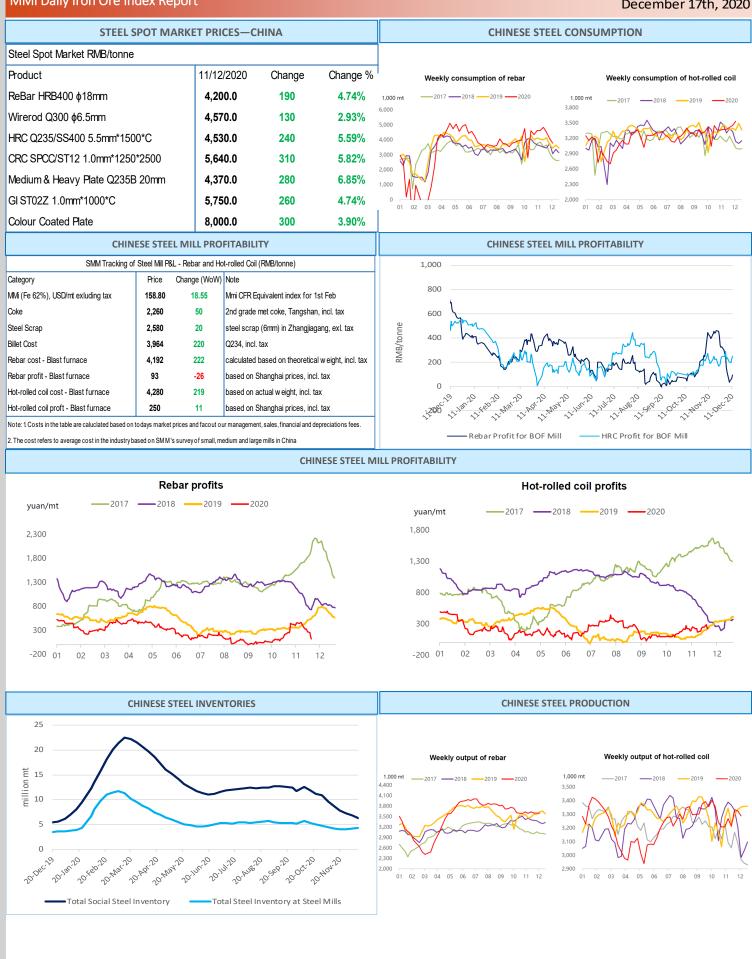
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MMi Daily Iron Ore Index Report

December 17th, 2020



	Iron Ore	Index Specifications	(Port and Seaborne	e)	Iron Ore Inde	x Compilation R	ationale and Da	ata Exclusions			
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indices	are compiled from	data provided by co	mpanies 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					
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specification			specifications and			
Silica%	1.50 4.00 5.50				screened to remove outliers before volume-weighted average prices are calculated from the remaining core set of data.						
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 website at: www.mmiprices.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 Exc 62%	lusions* 58%	65%			
Sizing		um of 40% below 150	0	Size above 31.15mm max 25%	Port Index	0	0	0			
Pricing Point	Qingdao F	Port (FOT and CFR res	spectively)	FOT Qingdao Port	Seaborne index Lump Index 62.5	0		0			
Timing (Seaborne)	Loading withi	n 4 weeks, Delivery v	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							

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	RAGE IRON	ORE SPECIE	ICATIONS A	PPLIED FOR BRAND PRICE A	SSESSMEN	TS				
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS						
December 17th, 2020	December 17th, 2020 Specifications applied for 62% brand assessments						Specifications applied for 62% brand assessments					
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture	
Roy Hill	60.88%	2.41%	4.32%	0.057%	9.48%	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	61.64%	2.31%	3.87%	0.099%	9.55%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	9.50%	
Newman Fines	62.45%	2.32%	4.06%	0.090%	7.83%	Newman Fines	62.30%	2.40%	4.40%	0.090%	8.00%	
MAC Fines	60.46%	2.39%	4.62%	0.079%	7.67%	MAC Fines	60.80%	2.35%	4.70%	0.080%	7.80%	
Jimblebar Blended Fines	60.87%	2.98%	4.50%	0.112%	7.43%	Jimblebar Blended Fines	60.50%	3.00%	4.50%	0.120%	8.00%	
Carajas Fines	64.92%	1.34%	1.83%	0.076%	7.88%	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	62.77%	1.38%	4.79%	0.086%	8.19%	Brazilian Blend Fines	63.00%	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 17th, 2020	Specifi	cations appli	ed for 58%	brand asses	sments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.49%	3.16%	6.25%	0.063%	9.31%							
FMG Blended Fines	58.21%	2.47%	5.61%	0.056%	8.22%							
Robe River	56.42%	3.17%	5.77%	0.041%	8.50%							
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%							
Atlas Fines	58.00%	1.85%	5.50%	0.090%	9.00%							

	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										

9.43%

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