

MMi Dashboard

Iron Ore Price Indices

Iron Ore Port Stock (FOT Qingdao)
IOPI62 62% Fe Fines RMB/t



696

0.14%

December 13th, 2019

Iron Ore Port Stock (FOT Qingdao) IOPI65 65% Fe Fines RMB/t



778

0.78%

December 13th, 2019

Iron Port Stock (FOT Qingdao) IOPI58 58% Fe Fines RMB/t



598

2 -0.33%

December 13th, 2019

Iron Ore Seaborne (CFR Qingdao)
IOSI62 62% Fe Fines USD/dmt



94.30

0.50 0.53%

December 13th, 2019

Iron Ore Seaborne (CFR Qingdao)
IOSI65 65% Fe Fines USD/dmt



105.65

-0.60 -0.56%

December 13th, 2019

Iron Ore Port Stock (FOT Qingdao) IOPLI 62.5% Fe Lump RMB/t



830

18 2.22%

Week Ending December 13th, 2019

Exchange Traded Contracts

SGX Iron Ore (CFR Qingdao) 62% Fe Fines

DCE Iron Ore 62% Fines I2005 (May) RMB/t



653.50

2.50 0.38%

December 13th, 2019

0.36

(3pm close)

January'20 USD/dmt



92.85

0.39 0.42%

December 13th, 2019 (5.30 pm Print)

RB2005 (May) RMB/t

SHFE Rebar



3523

-1.00 -0.03%

December 13th, 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



19.31

-1.20 -5.83%

December 12th, 2019

C5, W. Australia - Qingdao USD/t



8.68

-0.66 -7.06%

December 12th, 2019

Steel Price

Steel Rebar (China Domestic) RMB/t



3940 -140 -3.43%

Week Ending December 6th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



113.33

-0.17 -0.15%

Week Ending December 13th, 2019

Steel Inventory in China million tonnes



8.74

0.26 3.00%

Week Ending December 6th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t



3770

60 1.62%

Week Ending December 6th, 2019

MMi D	aily Iron (Ore Inde	ex Report											Decer	nber 13	th, 2019
						IRON OR	E PORT S	TOCK INDEX	((IOPI)							
December	13th, 2019	T	FOT (Qingdao (i	nc. 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	Pric	ce Cha	ange Cha	ange %	6 MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fine	s 696	1	0.1%	684	720	554	928	91.5	59 0 .	26 (0.3%	89.71	95.93	71.69	126.12
IOPI58	58% Fe Fine	s 598	-2	-0.3%	587	630	382	823	79.0	01 -0	.17 -	0.2%	77.27	84.22	48.25	112.44
IOPI65	65% Fe Fine	s 778	6	0.8%	759	786	654	992	102.	83 0 .	96 (0.9%	99.92	105.19	85.47	135.34
		ı	RON ORE SE	ABORNE	INDEX (IOSI)							MARK	KET COMME	NTARY		
December	13th, 2019			CFR Qi	ngdao, USD/dr	y tonne							Chinese ports totale a year ago. Daily ave			
Index	Fe Content	Price	Change	Change	% MTD	YTD	Low ²	High ²	on a weel	kly basis to 2.94	million mt this w	veek. Desp	ite higher arrivals, st dong fell slightly ami	ocks at two ports i	n Tangshan shran	k further as
IOSI62	62% Fe Fine	94.30	0.50	0.53%	92.28	94.05	69.50	127.50	some por	rts along the Yang	gtze River contin	ued to rise	as some steel mills w purchases by steel	restocked. Howeve		
IOSI65	65% Fe Fine	s 105.65	-0.60	-0.56%	103.94	105.45	85.50	137.95								
						IRON OR	E PORT LI	JMP INDEX	(IOPLI))						
Week Endir	ng December		FOT (Qingdao (i	nc. 16% VAT),	RMB/wet	tonne			CFR C	(ingdao Eq	uivale	nt (exc. 16%	VAT), USD,	dry tonne	
Index	Fe Content	Price	W-o-W	Change 5	% MTD	YTD	Low ²	High ²	Pric	e W-	oW Cha	ange %	MTD	YTD	Low ²	High ²
IOPLI62	62.5% Fe Lum	p 830	18	2.2%	821	873	743	1051	102.	42 2.	35 2	.35%	101.24	110.24	93.24	133.81
IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX																
Week Endi	ing December	6th, 2019				RMB/to	nne (exclu	ding tax) ³					USD/tonne	(excluding t	ax) ³	
Province	Region	Produ	ct	Basis	This week	Change	e %	Low ²	Hig	gh ²	This wee	k	Change %	Low	/ ²	High ²
Hebei	Hanxir	1 g 66% F	e Concentrate	Dry	815	1.9%	5	644	10	32	115.84		1.84%	93.5	58	150.03
Hebei	Qian'a	n 65% F	e Concentrate	Dry	830	0.0%	5	690	9	60	117.97		-0.03%	100.	26	139.35
Liaoning	Ansha	n 65% F	e Concentrate	Wet	650	0.0%	S	535	7	45	92.39		-0.03%	77.3	39	104.66
Shandong	Zibo		e Concentrate	Dry	810	0.0%		740	_)40	115.13		-0.03%	107.	44	151.33
	g December 6t Concentrate C	-	lev RMR/WT	714.			Low ² 609.04	High ² 859.50		nge rate applie kly exchange ra						
Cilila Willes		•			AO (RMB/W		003.04	839.30	IRO	N ORF SE	ΔR∩RNF	INDE	X, CFR QING	DAO (UST)/DMT)	
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850 —			N	لمممر	The real	_		125 —— 115 ——				مم		7		
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350 =								65 —— 55 ——								
250 —	2 2	,9 ,4	> ^9 ^	9 ,9	29 29	,9 ,9	8	45	.59	79 79	.9	20	25 25	12 12	. 29	59 59
730ec.18	3-1811.79 134.807.9	Mar.19 13.Apr.1	13413479 7341117	3 13/10/19	xu819 13588119	4.19 13.Nov.19	30ec.19	Tripecine Tripe	77.Feb	2.1.Mar.19	1.Apr. 12.May	12.10	n.19 17.111.19	115 ep. 19	17.0g 77.40g	12:Dec
				O PI 58 —	IO PI 65							10 SI62	IO SI	165		
			IR	ON ORE I	PORT STOCK I	NDEX MC	ONTHLY, C	QUARTERLY	AND Y	EAR-TO-I	DATE AVE	RAGE	:S			
December	13th, 2019		FOT	Qingdao (inc. 13% VAT),	RMB/wet	tonne			CFR	Qingdao E	quival	ent (exc. 13%	6 VAT), USD	dry tonne	
Index	Fe Conten	August	September	Octobe	November	MTD	QTD	YTD	Aug	ust Septe	ember O	tober	November	MTD	QTD	YTD
IOPI62	62% Fe Fine	rs 759	758	721	665	684	689	720	123	.29 100	0.18 9	4.29	87.30	89.71	90.36	95.93
IOPI58	58% Fe Fine	es 691	674	636	567	587	596	630	110	.47 91	.86 8	3.57	74.67	77.27	78.47	84.22
IOPI65	65% Fe Fine	s 823	803	758	723	759	743	786	129	.53 10	8.92 9	9.32	95.29	99.92	97.71	105.19
IRO	N ORE SEAB	ORNE IND	EX MONTHL	Y, QUAR	TERLY AND Y	EAR-TO-D	ATE AVEF	RAGES				F	REIGHT RAT	ΓES		
December	13th, 2019			CFR Q	ingdao, USD/dı	ry tonne			Decemb	oer 12th, 201	_		FREIGHT RA	ATES - DRY BU		
Index	Fe Conten		September			MTD	QTD	YTD	Route	_	Designation		Change	Change %	Low ²	High ²
IOSI62	62% Fe Fine		93.76	90.81	85.83	92.28	89.12	94.05		alia - Qingdao	C5	8.68		-7.06%	4.39	11.42
IOSI65	65% Fe Fine	s 101.34		97.45	96.49	103.94	98.29	105.45		- Qingdao	C3	19.31		-5.83%	11.61	29.10
Week Endin	g December				PORT LUMP II			UARTERLY	AND Y					/ 1 / A = 1 · · · ·	1.1.	1
13th, 2019	1				inc. 16% VAT),	-						-	ent (exc. 16%	•	•	
Index	Fe Conten		•		r November	MTD	QTD	YTD	Ma	•		July	November		QTD	YTD
IOPLI62	62.5% Fe Lun	p 870	803	829	794	821	810	873	132.		8.80 9	98.44	97.89	101.24	99.72	110.24
							NDEX PRE	MIUMS/DI								
December :		Contact	e, !		OCK INDEX (RM	•	ODIC 2	December 1	3th, 201		nt	C,		NE INDEX (U	-	n IOSIE2
Index IOPI58		Content Fe Fines		to IOPI62 -98	%	Spread to IC -14.08%		Index		Fe Conte	ant	spre	ead to IOSI62		% Spread to	U 1U3102
	1 -5/			82		11.78%		IOSI65		65% Fe Fii	nes		11.35		12.04	1%

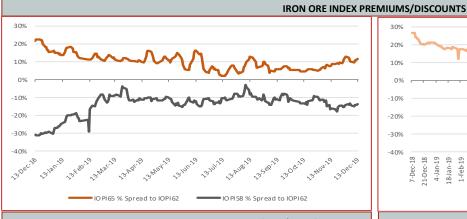




IRON ORE BRAND SPOT PRICE ASSESMENTS											
December 13th, 2019	PORT STOCK INDEX (RMB/WT)			December 13th, 2019	SEABORNE INDEX (USD/DMT)						
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62				
Roy Hill	661	0	-35	Roy Hill	92.29	0.50	-2.01				
SIMEC Fines	636	-1	-60	SIMEC Fines	90.54	0.50	-3.76				
PB Fines	675	1	-21	PB Fines	93.81	0.50	-0.49				
Newman Fines	699	1	3	Newman Fines	94.96	0.50	0.66				
MAC Fines	671	-1	-25	MAC Fines	92.44	0.50	-1.86				
Jimblebar Blended Fines	606	-1	-90	Jimblebar Blended Fines	84.36	0.50	-9.94				
Carajas Fines	787	7	91	Carajas Fines	104.99	0.50	10.69				
Brazilian SSF	689	1	-7	Brazilian SSF	94.61	0.50	0.31				
Brazilian Blend Fines	713	2	17	Brazilian Blend Fines	95.36	0.50	1.06				
RTX Fines	624	0	-72	RTX Fines	87.29	0.50	-7.01				
West Pilbara Fines	662	-1	-34	West Pilbara Fines	91.84	0.50	-2.46				

December 13th, 2019	PORT	PORT STOCK INDEX (RMB/WT)						
	Price	Change	Diff to IOPI58					
SSF	569	-2	-29					
FMG Blended Fines	607	-3	9					
Robe River	577	-2	-21					
Western Fines	560	-2	-38					
Atlas Fines	549	-2	-49					
Yandi	582	-2	-16					

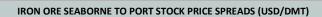
				IRON ORE	INDEX NORMA	LISATION DIFFER	ENTIALS				
Por	t Stock Index I	Product Differ	entials (R	MB/wet tonn	e)	Sea	aborne Inde	x Product Di	fferentials (l	JSD/dry tonne)
	App	olicable range		Value	Change		А	pplicable ran	ge	Value	Change
	High Grade	Fe 60 - 63%		5.00	1.00		High Grad	de Fe 60 - 63	%	1.00	0.00
	High Grade	High Grade Fe 63 - 64%		9.00	1.00		High Grad	High Grade Fe 63 - 64%		1.25	0.00
1% Fe	High Grade	Fe 64 - 65%		9.00	1.00	1% Fe	High Grad	High Grade Fe 64 - 65%		1.25	0.00
	High Grade	Fe 65 - 65.5%		9.00	1.00		High Grad	High Grade Fe 65 - 65.5%		1.25	0.00
	Low Grade Fe			10.00	0.00						
	High Fe Grade Al <2.25%			37.00	0.00		High Fe G	rade Al <2.25	5%	1.75	0.00
1% Alumina	High Fe Grade Al 2.25-4%		.	32.00	0.00	40/ 41 .	High Fe G	rade Al 2.25	-4%	0.75	0.00
	Low Fe Grad	de Al <2.25%		22.00	0.00	1% Alumina					
	Low Fe Grad	de Al 2.25-4%		0.00	0.00						
	High Fe Gra	ide Si <4%		11.00	1.00		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	High Fe Grade Si 4 - 6.5%		0.75	0.00
	Low Fe Grad	Low Fe Grade		23.00 0.00							
0.040/	High Fe Gra	ide 0.09% <p<0< td=""><td>.115%</td><td>8.00</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%	8.00	0.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.00	0.00
0.01%	High Fe Gra	ide 0.115% <p<< td=""><td>0.15%</td><td>5.00</td><td>0.00</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%	5.00	0.00	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 Grad	de 0.09 <p<0.1< td=""><td>%</td><td>2.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.1<>	%	2.00	0.00						
			Port 9	Stock Price Differ	entials 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	Fangcher	ng -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

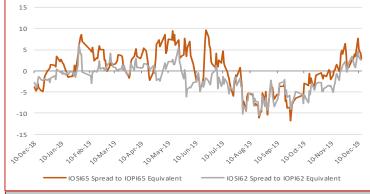




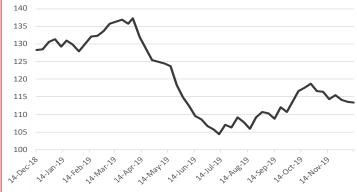
WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)







TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



FUTURE TRADIN	IG—FRONT MONTH CLOSING PRICE
1000	130
900	120
a 800	110
000 700 WW 600	100 Wq/qs 90 qsp
MY	90 00
€ 600	80
500	70
400	60
13-Dec. 13-14.13-1401-13-1401-13-1401-13-14	aris 13 July 3 Aug 13 Pet 13 Pet 13 Pet 13 Pet 13 Pet 13
——Dalian 3pm (Close ——SGX Front Month 6pm (RHS)

IRON ORE PORT INVENTORIES (MILLION TONNES	•)
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Week Ending December 13th, 2019										
Province	This week	Change %	Low ²	High ²						
Jingtang	13.63	-5.35%	10.80	17.00						
Qingdao	13.37	-2.12%	12.38	19.01						
Caofeidian	13.55	0.59%	13.47	19.30						
Tianjin	7.58	0.53%	6.37	9.70						
Rizhao	12.62	-3.00%	11.41	17.10						
Total (35 Ports)	113.33	-0.15%	104.40	137.30						

		D	CE (RMB/WN	IT)	SGX (USD/DMT)				
2	Closing Date	De	13th, 3pm c	lose	Dec 13th, 5.30 pm				
0	Contract	12005	Change	Change %	Jan'20	Change	Change %		
1	Closing Price	653.50	2.5	0.38%	92.85	0.39	0.42%		
0	Vol traded ('000 lots)	190.26	19.5	11.42%	15.82	-1.44	-8.33%		
)	Open positions ('000 lots)	136.71	4.5	3.40%	128.63	1.07	0.84%		
0	Day Low	643.0	-3.0	-0.46%	92.07	0.87	0.95%		
0	Day High	658.5	-2.5	-0.38%	93.37	0.42	0.45%		

IRON ORE FUTURES CONTRACTS



STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne			
Product	6/12/2019	Change	Change %
ReBar HRB400	3,940.0	-140	-3.43%
Wirerod Q300 ¢6.5mm	4,150.0	-230	-5.25%
HRC Q235/SS400 5.5mm*1500*C	3,770.0	60	1.62%
CRC SPCC/ST12 1.0mm*1250*2500	4,310.0	30	0.70%
Medium & Heavy Plate Q235B 20mm	3,770.0	40	1.07%
GI ST02Z 1.0mm*1000*C	4,490.0	40	0.90%
Colour Coated Plate	6,750.0	-50	-0.74%



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	90.00	0.90	Mmi CFR Equivalent index for 1st Feb						
Coke	1,860	50	2nd grade met coke, Tangshan, incl. tax						
Steel Scrap	2,310	-20	steel scrap (6mm) in Zhangjiagang, exl. tax						
Billet Cost	2,979	38	Q234, incl. tax						
Rebar cost - Blast furnace	3,204	37	calculated based on theoretical weight, incl. tax						
Rebar profit - Blast furnace	696	-167	based on Shanghai prices, incl. tax						
Hot-rolled coil cost - Blast furnace	3,295	37	based on actual weight, incl. tax						
Hot-rolled coil proft - Blast furnace	475	33	based on Shanghai prices, incl. tax						

CHINESE STEEL MILL PROFITABILITY

Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

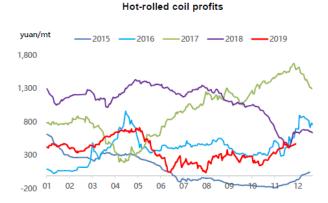
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China



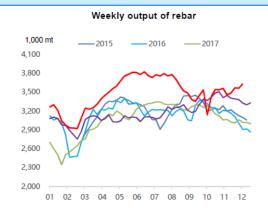
CHINESE STEEL MILL PROFITABILITY

-200 01

Rebar profits



Total Social Steel Inventory Total Social Steel Inventory Total Steel Inventory Total Steel Inventory Total Steel Inventory at Steel Mills



Payment Terms

index calculations today as they were anomalous and could not be verified

IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS Iron Ore Index Specifications (Port and Seaborne) Iron Ore Index Compilation Rationale 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 part of the iron ore supply chain and involved in spot market transactions. The Fe % 65.00 62.00 58.00 62.50 indices are calculated using detailed transaction-level data submitted to MMi by 2.25 2.25 1.50 these companies. This data is normalised to the appropriate specifications and Alumina % 1.40 screened to remove outliers before volume-weighted average prices are Silica% 4.00 3.50 1.50 5.50 calculated from the remaining core set of data. Phosphorus % 0.09 0.05 0.08 0.06 For more details on MMi's iron ore methodology please download the guide published on our website at: www.mmiprices.com Sulphur % 0.01 0.02 0.02 0.02 Moisture % 8.00 8.00 9.00 4.00 Data Exclusions* Granular size below 10mm for at least 90% of cargo; Size below 6.3mm max 15% 65% Sizing 0 maximum of 40% below 150 micron Size above 31.15mm max 25% Seaborne index O Qingdao Port (FOT and CFR respectively) FOT Qingdao Port **Pricing Point** Lump Index 62.5 Loading within 4 weeks, Delivery within 8 weeks Delivery within 2 weeks * Number of price submissions for iron ore indices that were excluded from Timing (Seaborne)

IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

L/C at sight or CAD

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		SEABORNE BRANDS							
December 13th, 2019	Specifi	cations appli	ed for 62%	brand asses	sments		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	61.57%	2.36%	3.71%	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	60.78%	2.30%	4.70%	0.080%	7.70%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%	
Jimblebar Blended Fines	60.50%	3.03%	4.65%	0.116%	7.89%	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 13th, 2019	Specifi	cations appli	ed for 58%	brand asses	sments							
	Fe	Alumina	Silica	Phos	Moisture							
SSF	56.72%	3.04%	6.17%	0.055%	9.06%							
FMG Blended Fines	58.26%	2.73%	5.62%	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%							
Yandi	57.11%	1.62%	6.40%	0.041%	9.03%							

	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	10S165	IRCN0035								
IOPI65	IRCNQ003	IRCNQ006										
IOPLI62	IRCN0036	IRCN0037										

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