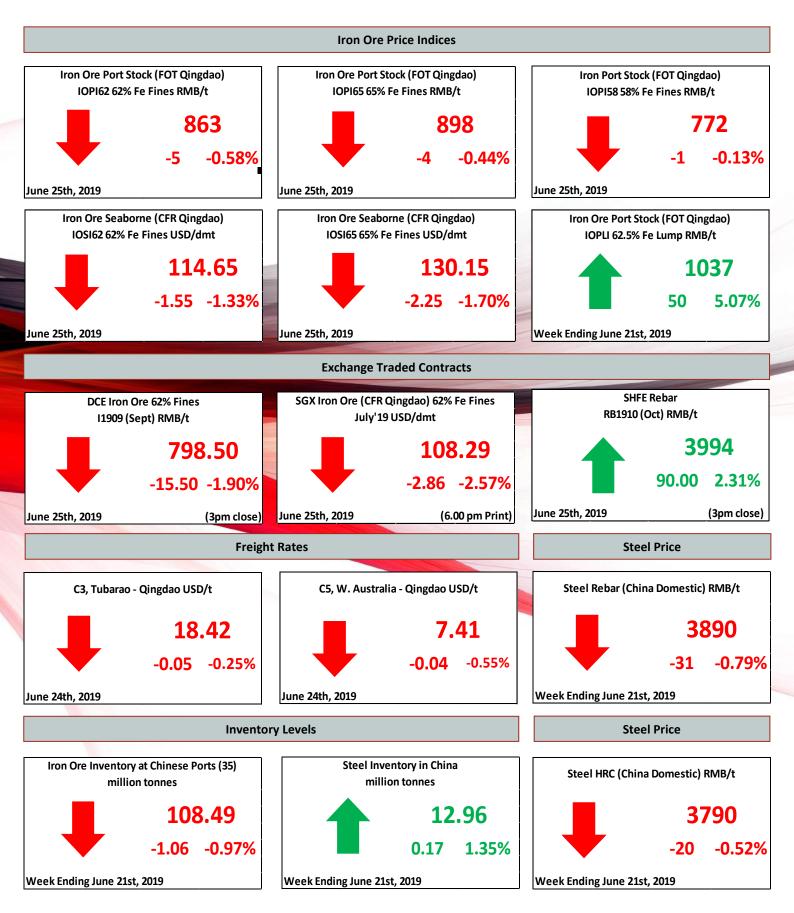


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MMi Daily Iron Ore Index Report

IRON ORE PORT STOCK INDEX (IOPI)

June 25th, 2019

										• •							
June 25th	, 2019			FOT Q	ingdao	(inc. 13	% VAT),	RMB/wet	tonne		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne ¹						1
Index	Fe Conte	nt	Price	Change	Change	e % – I	MTD	YTD	Low ²	High ²	Price	Change	Change %	MTD	YTD	Low ²	High ²
IOPI62	62% Fe Fin	nes	863	-5	- 0.6 %	6	816	677	468	868	117.12	-0.83	-0.7%	110.19	90.89	62.21	118.00
IOPI58	58% Fe Fin	nes	772	-1	-0.1%	þ	717	586	324	773	105.50	-0.26	-0.2%	97.37	78.62	41.71	105.81
IOPI65	65% Fe Fin	nes	898	-4	-0.4%	6	899	758	596	962	122.03	-0.70	-0.6%	121.71	102.28	82.13	130.41
			IRC	N ORE SEA	BORNE		k (IOSI)				MARKET COMMENTARY						
June 25th, 2019 CFR Qingdao, USD/dry tonne											declining tendency, P ket. Most traders tri		•				
Index	Fe Conte	nt	Price	Change	Change	% I	MTD	YTD	Low ³	High ³	Traders from Tan	, Igshan say as the	current tradeable iro , SMM learned some	n ore inventory b	elongs to fewer mai	rket players, they	are trying to avoid
IOSI62	62% Fe Fin	nes	114.65	-1.55	-1.339	<mark>%</mark> 10	07.31	90.82	62.95	116.20	while in Tangsha	n , some mills sta	rted implementing sc d Anyang, mills purc	ome production cu	ts. Along with the i	mplementation o	f the production
IOSI65	65% Fe Fin	nes	130.15	-2.25	-1.709	<mark>%</mark> 12	23.86	105.17	83.20	132.60	looks to be turning bearish.						
	IRON ORE PORT LUMP INDEX (IOPLI)																
Week Endir 2019	ng June 21st,	,		FOT Q	ingdao ((inc. 169	% VAT),	RMB/wet	tonne		CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne ⁴						
Index	Fe Conte	nt	Price	W-o-W	Change	% г	VITD	YTD	Low ³	High ³	Price	W-oW	Change %	MTD	YTD	Low ³	High ³
IOPLI62	62.5% Fe Lu	ımp	1037	50	5.1%		999	876	585	1037	131.68	6.75	5.40%	126.55	112.33	76.82	131.68
IRON ORE I					N ORE D	OMES	тіс со	NCENTRA	TE SPOT PI		SMENTS AI	ND COMP	OSITE INDE	x			
Week Ending June 21st, 2019 RMB/tonne (excluding tax) 4								ι	JSD/tonne	(excluding t	ax) ⁴						
Province	Regio	on	Product		Basis	This	week	Change	e %	Low ²	High ²	This	week	Change %	Low	2	High ²
Hebei	Hanx	xing	66% Fe C	oncentrate	Dry	9	28	7.2%	i	597	928	13	4.86	7.35%	91.9	7	134.86
Hebei	Qian	n'an	65% Fe C	oncentrate	Dry	8	60	2.4%	5	645	860	12	4.98	2.56%	100.2	26	124.98
1	1		1		1 1												I

465

660

6.0% Week Ending June 21st, 2019 Low² High ² This week Change % ¹ Exchange rate applied: RMB/USD = 6.8580 ²Last 12 months ³ Since June 1 Weekly exchange rate applied: RMB/USD 6.8810 China Mines Concentrate Composite Index RMB/WT 748.88 0.1% 552.39

2.3%

660

965

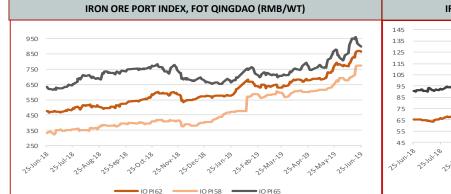
748.88

95.92

140.24

745

965



65% Fe Concentrate Wet

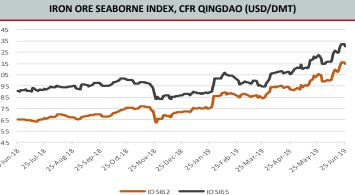
65% Fe Concentrate Dry

Liaoning

Shandong

Anshan

Zibo



2.51%

6.23%

68.21

99.75

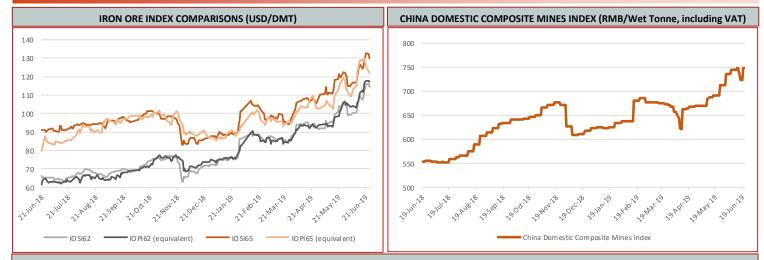
95.92

140.24

IO P162 IO P158 IO P165														0 516 2		505		
				IR	ON ORE PO	ORT STOCK		NTHLY, Q	UARTERLY	AND	YEAR-T	O-DATE	AVE	RAGES				
June 25th,	2019			FOT	Qingdao (in	c. 13% VAT), RMB/wet 1	tonne		CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne								
Index	Fe Cont	tent	February	March	April	May	MTD	QTD	YTD	Feb	oruary	March	Α	pril	May	MTD	QTD	YTD
IOPI62	62% Fe F	Fines	654	639	675	729	816	734	677	76	6.16	87.09	85	5.37	98.40	110.19	99.60	90.89
IOPI58	58% Fe F	Fines	569	583	600	637	717	646	586	57	7.99	75.22	77	7.49	86.39	97.37	87.90	78.62
IOPI65	65% Fe F	Fines	733	714	753	812	899	815	758	88	8.65	98.08	95	5.78	110.00	121.71	111.05	102.28
IRON ORE SEABORNE INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE A							ATE AVER	RAGES FREIGHT RATES										
June 25th,	ne 25th, 2019 CFR Qingdao, USD/dry tonne June 24th, 2019 FREIGHT RATES - DRY BULK US\$/wet tonne											nne						
Index	Fe Cont	tent	February	March	April	May	MTD	QTD	YTD	Route	e	Desig	nation		Change	Change %	Low ²	High ²
IOSI62	62% Fe F	Fines	87.39	86.18	93.42	98.68	107.31	99.16	90.82	W. Aus	stralia - Qing	gdao (5	7.41	-0.04	-0.55%	4.39	10.00
IOSI65	65% Fe F	Fines	102.56	97.22	106.75	115.53	123.86	114.65	105.17	Tubara	io - Qingdao		3	18.42	-0.05	-0.25%	11.61	24.76
				IR	ON ORE PO	ORT LUMP	INDEX MO	NTHLY, Q	UARTERLY		YEAR-TO	O-DATE	AVER	AGES				
Week Ending 2019	g June 21s	t,		FOT	Qingdao (in	c. 16% VAT), RMB/wet	tonne		CFR Qingdao Equivalent (exc. 16% VAT), USD/dry tonne ¹						1		
Index	Fe Cont	tent	February	y March	April	May	MTD	QTD	YTD	Feb	ruary	March	A	pril	May	MTD	QTD	YTD
IOPLI62	62.5% Fe	Lump	842	858	872	919	999	923	876	94	4.22	99.57	11	1.03	117.12	126.55	118.05	109.33
	-					I	RON ORE I	NDEX PRE	MIUMS/DI	scou	INTS							
June 25th, 2	2019				PORT STO	CK INDEX (RI	MB/WT)		June 25th, 2	019					SEABOR	NE INDEX (L	ISD/DMT)	
Index		Fe Cor	ntent	Spread	to IOPI62	9	% Spread to IC	DPI62	Index		Fe Co	ontent		Sprea	d to IOSI62		% Spread to	IOSI62
IOPI58		58% Fe			-91		-10.54%											
IOPI65	6	65% Fe	Fines		35		4.06%		IOSI65		65% F	e Fines			15.50		13.529	6
www.n	nmipric	ces.c	om				Page	2/6								June	25th, 201	19

MMi Daily Iron Ore Index Report

June 25th, 2019



IRON ORE BRAND SPOT PRICE ASSESMENT

June 25th, 2019	PORT	STOCK INDEX (R	MB/WT)	J
	Price	Change	Diff to IOPI62	Γ
Roy Hill	823	-5	-40	F
SIMEC Fines	789	-5	-74	s
PB Fines	844	-4	-19	P
Newman Fines	871	-5	8	P
MAC Fines	832	-7	-31	N
Jimblebar Blended Fines	822	-4	-41	J
Carajas Fines	896	-5	33	C
Brazilian SSF	814	-5	-49	E
Brazilian Blend Fines	851	-5	-12	E
RTX Fines	831	-3	-32	F
West Pilbara Fines	815	-5	-48	v
June 25th, 2019	PORT	STOCK INDEX (R	MB/WT)	
	Price	Change	Diff to IOPI58]
SSF	726	-2	-46	
FMG Blended Fines	774	-1	2	
Robe River	728	-1	-44	
Western Fines	739	-3	-33	
Atlas Fines	731	-3	-41	
Yandi	799	1	27	

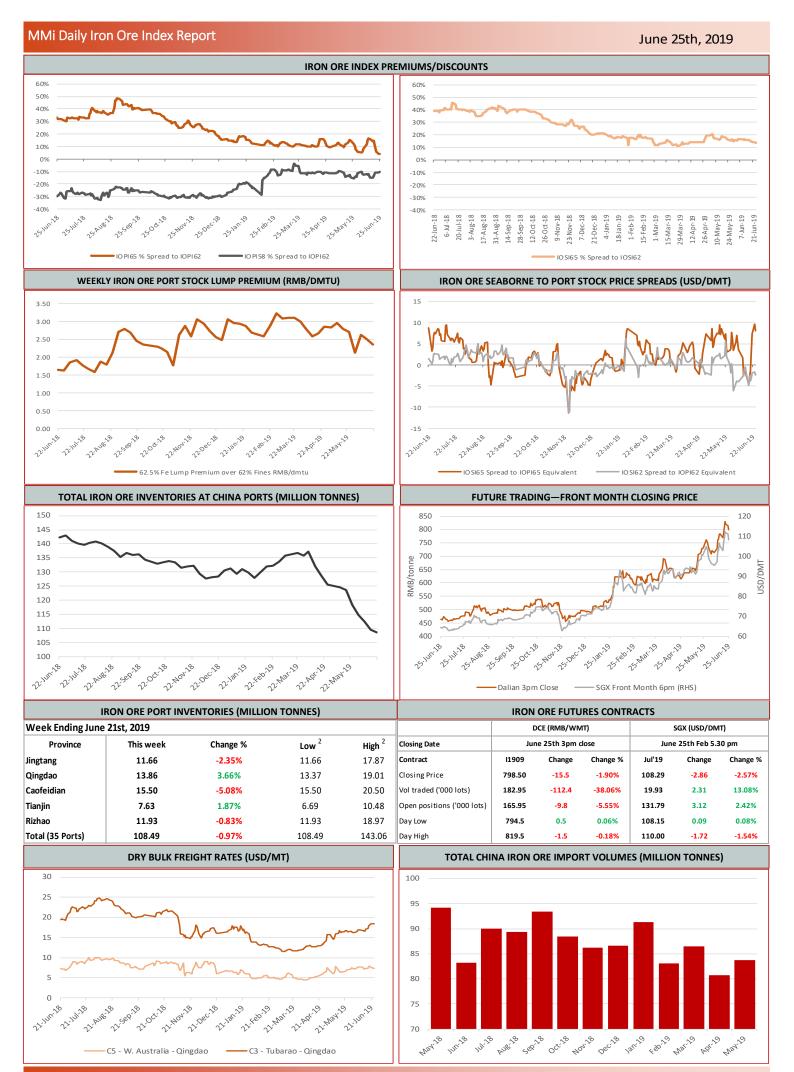
2	OT PRICE ASSESMENTS								
	June 25th, 2019	SEABORNE INDEX (USD/DMT)							
		Price	Change	Diff to IOSI62					
	Roy Hill	111.07	-2.20	-3.58					
	SIMEC Fines	109.15	-2.55	-5.50					
	PB Fines	114.65	-1.55	0.00					
	Newman Fines	117.02	-1.18	2.37					
	MAC Fines	111.40	-2.05	-3.25					
	Jimblebar Blended Fines	109.77	-2.05	-4.88					
	Carajas Fines	129.30	-2.52	14.65					
	Brazilian SSF	119.02	-2.18	4.37					
	Brazilian Blend Fines	118.65	-1.67	4.00					
	RTX Fines	109.77	-2.05	-4.88					
	West Pilbara Fines	109.42	-2.50	-5.23					

				IRON ORE IN	IDEX NORM	ALISATION DIFFER	ENTIALS				
Por	t Stock Index	Product Differ	entials (RI	MB/wet tonne)	Sea	aborne Inde	x Product Di	fferentials (L	JSD/dry tonne)
	Ар	plicable range		Value	Change		A	pplicable ran	ge	Value	Change
	High Grade	e Fe 60 - 63%		12.00	0.00		High Grad	de Fe 60 - 63	%	2.75	0.50
	High Grade	e Fe 63 - 64%		7.00	0.00		High Grad	de Fe 63 - 64	%	2.50	-0.25
1% Fe	High Grade	e Fe 64 - 65%		7.00	0.00	1% Fe	High Grad	de Fe 64 - 65	%	2.50	-0.25
	High Grade	e Fe 65 - 65.5%		7.00	0.00		High Grad	de Fe 65 - 65	.5%	2.50	-0.25
	Low Grade	Fe		11.00	0.00						
	High Fe Gra	ade Al <2.25%		5.00	0.00		High Fe G	rade Al <2.2	5%	3.50	-0.50
10/ 11	High Fe Gra	ade Al 2.25-4%	.	2.00	0.00	10/ 11	High Fe G	rade Al 2.25	-4%	0.00	0.00
1% Alumina	Low Fe Gra	de Al <2.25%		54.00	0.00	1% Alumina					
	Low Fe Gra	de Al 2.25-4%		33.00	0.00						
	High Fe Gra	ade Si <4%		2.00	0.00		High Fe G	rade Si <4%		1.75	-0.25
1% Silica	High Fe Gra	ade Si 4-6.5%		29.00	0.00	1% Silica	High Fe G	rade Si 4 - 6	5%	0.00	0.00
	Low Fe Gra	de		12.00	1.00						
0.01%	High Fe Gra	ade 0.09% <p<0< td=""><td>.115%</td><td>0.00</td><td>-1.00</td><td>0.01%</td><td>High Fe G</td><td>rade 0.09%<</td><td>P<0.115%</td><td>0.25</td><td>0.00</td></p<0<>	.115%	0.00	-1.00	0.01%	High Fe G	rade 0.09%<	P<0.115%	0.25	0.00
	High Fe Gra	ade 0.115% <p<< td=""><td>0.15%</td><td>4.00</td><td>0.00</td><td>Phosphorus</td><td>High Fe G</td><td>rade 0.115%</td><td><p<0.15%< td=""><td>0.75</td><td>0.00</td></p<0.15%<></td></p<<>	0.15%	4.00	0.00	Phosphorus	High Fe G	rade 0.115%	<p<0.15%< td=""><td>0.75</td><td>0.00</td></p<0.15%<>	0.75	0.00
Phosphorus	Low Fe Gra	de 0.09 <p<0.19< td=""><td>%</td><td>4.00</td><td>1.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<>	%	4.00	1.00						
			Port St	ock Price Differe	ntials to Qingo	ao Port for PB Fine	s (RMB/wet t	onne)			
Port	Value	Change	Port	Value	Change	e Port	Value	Change	Port	Value	Change
Bayuquan	-30.00	0.00	Fangcheng		0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	5.00	0.00	Jiangyin	-30.00	0.00	Lianyungang	-10.00	0.00	Rizhao	0.00	0.00
Caofeidian	-15.00	0.00	Jingtang	-15.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-30.00	0.00	Langiao	0.00	0.00	Nantong	-30.00	0.00	Tianjin	0.00	0.00

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MMi Daily Iron Ore Index Report

STEEL SPOT MARKET PRICES—CHINA

Steel Spot Market RMB/tonne					
Product	21/6/2019	Change	Change %	Weekly output of rebar	Weekly output of hot-rolled coll
ReBar HRB400	3,890.0	-31	-0.79%	1,000 mt201520162017 4,10020182019	1,000 mt201520162017 3,70020182019
Wirerod Q300 ¢6.5mm	4,140.0	0	0.00%	3,500	3,500
HRC Q235/SS400 5.5mm*1500*C	3,790.0	-20	-0.52%	3,200	3,300
CRC SPCC/ST12 1.0mm*1250*2500	4,110.0	-50	-1.20%	2,500	2,900
Medium & Heavy Plate Q235B 20mm	3,920.0	-20	-0.51%	2,300	2,700
GI ST02Z 1.0mm*1000*C	4,560.0	-30	-0.65%	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	6,800.0	-50	-0.73%		
CHINESE STEEL M	ILL PROFITABIL	ITY		CHINESE STEEL	MILL PROFITABILITY
SMM Tracking of Steel Mill P&L - Re	ebar and Hot-rolled Coi	(RMB/tonne)		1,400	

1,200 1,000 800

21:1111.10

21-AUE:10 SEP.18

RMB/tonne

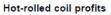
Category	Price	Change (WoW)	Note							
MMi (Fe 62%), USD/mt exluding tax	114.30	6.00	Mmi CFR Equivalent index for 1st Feb							
Coke	2,100	-110	2nd grade met coke, Tangshan, incl. tax							
Steel Scrap	2,260	30	steel scrap (6mm) in Zhangjiagang, exl. tax							
Billet Cost	3,490	117	Q234, incl. tax							
Rebar cost - Blast furnace	3,639	22	calculated based on theoretical w eight, incl. tax							
Rebar profit - Blast furnace	211	-82	based on Shanghai prices, incl. tax							
Hot-rolled coil cost - Blast furnace	3,711	21	based on actual w eight, incl. tax							
Hot-rolled coil proft - Blast furnace	99	-31	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

Rebar profits

CHINESE STEEL MILL PROFITABILITY

yuan/mt -2015 -2016 -2017 -2018 --2019 -2,800 2,300 1,800 1,300 800 300 -200 01 02 03 04 05 07 08 10 12 06 09 11



22.000028

21-Martin April

HRC Profit for BOF Mill

21-May 21-14

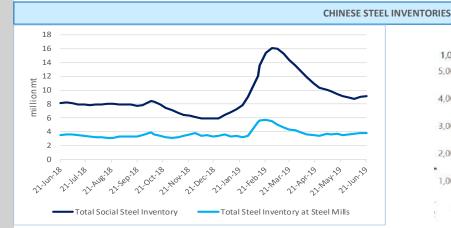
18 118 12 Feb 19

21.404.18

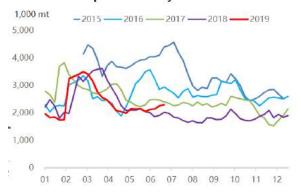
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Rebar Profit for BOF Mill









		IRON ORE INDEX S	PECIFICATIONS, COI	MPILATION RATIONALE AND DAT	IA EXCLUSION	5		
	Iron Ore	Index Specifications	(Port and Seaborne)	Iron Ore Ind	ex Compilation I	Rationale and Da	ta Exclusions
	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	MMi iron ore indice	es are compiled from	data provided by cor	npanies that are
Fe %	65.00	62.00	58.00	62.50	l .		olved in spot market nsaction-level data su	
Alumina %	1.40	2.25	2.25	1.50	these companies. This data is normalised to the appropriate specifications and screened to remove outliers before volume-weighted average prices are			
Silica%	1.50	4.00	5.50	3.50		e outliers before volu e remaining core set o		e prices are
Phosphorus %	0.06	0.09	0.05	0.08	For more details or	MMi's iron ore met	nodology please down	nload the guide
Sulphur %	0.01	0.02	0.02	0.02	published on our w	ublished 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 Ex	clusions* 58%	65%
Sizing		im of 40% below 150		Size above 31.15mm max 25%	Port Index	0	0	0
Pricing Point	Qingdao P	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	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 t	oday as they were ar	iomalous and could n	ot be verified
Í.		IRON ORE DO	MESTIC CONCENTR	ATE INDEX CALCULATION METHO	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.

		AVEF	RAGE IRON	ORE SPECIF	ICATIONS A	PPLIED FOR BRAND PRICE A	SSESSMEN	TS					
	PORT	STOCK BRAN	IDS			SEABORNE BRANDS							
June 25th, 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	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	61.52%	2.35%	3.85%	0.100%	9.45%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%		
Newman Fines	62.51%	2.27%	4.05%	0.083%	7.67%	Newman Fines	62.80%	2.20%	4.30%	0.080%	6.40%		
MAC Fines	60.81%	2.24%	4.72%	0.081%	7.53%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%		
Jimblebar Blended Fines	60.85%	3.00%	4.39%	0.113%	7.33%	Jimblebar Blended Fines	61.79%	2.67%	4.08%	0.115%	7.16%		
Carajas Fines	65.58%	1.23%	1.44%	0.064%	8.79%	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	62.70%	1.50%	4.81%	0.070%	8.11%	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%		
June 25th, 2019	Specifi	ications appli	ed for 58%	brand asses	sments								
	Fe	Alumina	Silica	Phos	Moisture								
SSF	56.74%	3.04%	6.26%	0.057%	8.57%								
FMG Blended Fines	58.14%	2.62%	5.42%	0.060%	7.59%								
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%								

BLOOMBER										
	PORT STOCK INC	DICES								
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)								
IOPI62	IRCNQ001	IRCNQ004								
IOPI58	IRCNQ002	IRCNQ005								
IOPI65	IRCNQ003	IRCNQ006								

1.51%

6.36%

0.042%

8.66%

57.43%

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