

MMi Dashboard

Iron Ore Price Indices





918

-2 -0.22%

July 22nd, 2019

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



985

15 1.55%

July 22nd, 2019

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



817

3 -0.37%

July 22nd, 2019

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



120.60

-0.40 -0.33%

July 22nd, 2019

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



129.80

0.85 0.66%

July 22nd, 2019

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



1049

3 0.29%

Week Ending July 19th, 2019

Exchange Traded Contracts

DCE Iron Ore 62% Fines I1909 (Sept) RMB/t



885.00

-31.00 -3.38%

July 22nd, 2019

(3pm close)

SGX Iron Ore (CFR Qingdao) 62% Fe Fines August'19 USD/dmt



114.05

-2.67 -2.29%

July 22nd, 2019

(6.00 pm Print)

SHFE Rebar RB1910 (Oct) RMB/t



3948

-53.00 -1.32%

July 22nd, 2019

(3pm close)

Freight Rates

C3, Tubarao - Qingdao USD/t



27.52

0.01 0.03%

July 19th, 2019

C5, W. Australia - Qingdao USD/t



10.90

0.05 0.46%

July 19th, 2019

Steel Price

Steel Rebar (China Domestic) RMB/t



4045

55 1.38%

Week Ending July 19th, 2019

Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes



107.10

2.70 2.59%

Week Ending July 19th, 2019

Steel Inventory in China million tonnes



13.84

0.41 3.02%

Week Ending July 19th, 2019

Steel Price

Steel HRC (China Domestic) RMB/t



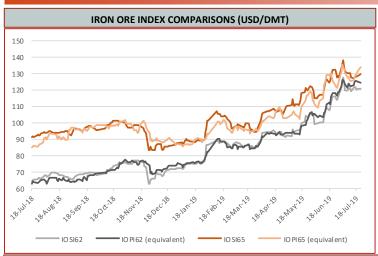
3896

46 1.19%

Week Ending July 19th, 2019

www.mmiprices.com Page 1/6 July 22nd, 2019

| MMi D | aily Iron (| Ore Inde | ex Report | | | | | | | | | | | July 22 | 2nd, 201 | 19 |
|---|--|------------------|-----------------|--------------------|-----------------------|------------------|--------------------|---|--|----------------------|------------------|---------------------|-----------------------------------|--------------------|---|--------------------------|
| | | | | | | IRON OF | RE PORT S | TOCK INDEX | ((IOPI) | | | | | | | |
| July 22nd, | 2019 | | FOT | Qingdao | (inc. 13% VA | Γ), RMB/wet | tonne | | | CFR Qin | gdao Eq | uivaleı | nt (exc. 13% | 6 VAT), USD, | dry tonne | 1 |
| Index | Fe Conten | t Price | Change | Change | e % MTD | YTD | Low ² | High ² | Price | Chang | e Cha | nge % | MTD | YTD | Low ² | High ² |
| IOPI62 | 62% Fe Fine | s 918 | -2 | -0.29 | 6 915 | 709 | 483 | 928 | 124.51 | -0.50 |) -(| 0.4% | 124.11 | 95.46 | 62.54 | 126.12 |
| IOPI58 | 58% Fe Fine | es 817 | -3 | -0.49 | 6 806 | 617 | 347 | 823 | 111.59 | -0.53 | -(| 0.5% | 110.05 | 82.97 | 43.55 | 112.44 |
| IOPI65 | 65% Fe Fine | es 985 | 15 | 1.5% | 955 | 785 | 640 | 992 | 133.88 | 1.86 | 1 | .4% | 129.77 | 106.04 | 85.30 | 135.34 |
| | | ı | RON ORE SE | ABORN | E INDEX (IO | SI) | | | | | ı | MARK | ЕТ СОММІ | ENTARY | | |
| July 22nd, | 2019 | | | CFR C | Qingdao, USD, | dry tonne | | | | | | | | inforced control r | | |
| Index | Fe Conten | t Price | Change | Change | % MTD | YTD | Low ³ | High ³ | ment. During th | e period of | July 21 to J | luly 25, mi | lls with sinters ar | nd shaft furnace p | roduction in Fer | ignan, Guye, |
| IOSI62 | 62% Fe Fine | s 120.6 0 | -0.40 | -0.33 | <mark>%</mark> 121.73 | 94.94 | 62.95 | 127.50 | | | | | | | | |
| IOSI65 | 65% Fe Fine | 129.80 | 0.85 | 0.669 | 130.67 | 108.62 | 83.20 | 0 137.95 al production cuts are expected to further restrain iron ore demand. | | | | | | | | |
| Wook Endir | ng July 19th, | 1 | | | | | | JMP INDEX | 1 | | | | | | | |
| 2019 | | | | | (inc. 16% VAT | | | | | | | | | VAT), USD/ | | |
| Index | Fe Conten | t Price | W-o-W | Change | | YTD | Low ³ | High ³ | Price | W-oV | V Cha | inge % | MTD | YTD | Low ³ | High ³ |
| IOPLI62 | 62.5% Fe Lum | p 1049 | 3 | 0.3% | 1049 | 900 | 613 | 1051 | 133.41 | 0.51 | 0. | .38% | 133.37 | 115.30 | 77.55 | 133.81 |
| | IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX | | | | | | | | | | | | | | | |
| | ing July 19th, | | | | | | onne (exclu | | | | | | - | (excluding t | | |
| Province | Regio | n Produ | ct | Basis | This week | Chang | e % | Low ² | High ² | Т | his wee | k | Change % | Low | , ² | High ² |
| Hebei | Hanxi | ng 66% F | e Concentrate | Dry | 1019 | -1.39 | % | 601 | 1032 | | 148.28 | | -1.17% | 91.9 | 97 | 150.03 |
| Hebei | Qian'a | in 65% F | e Concentrate | Dry | 950 | 2.79 | % | 680 | 950 | | 138.24 | | 2.80% | 100. | 26 | 138.24 |
| Liaoning | Ansha | n 65% F | e Concentrate | Wet | 705 | 0.09 | 6 | 465 | 745 | | 102.59 | | 0.09% | 68.2 | 21 | 102.59 |
| Shandong | Zibo | | e Concentrate | - | 1040 | 3.09 | | 660 | 1040 151.33 | | | 3.07% | 99.7 | 75 | 151.33 | |
| | g July 19th, 20 Concentrate (| | dev PMR/M/T | _ | | ange % 1.9% | 552.82 | High ² 850.71 | ¹ Exchange rate ⁴ Weekly exch | | | | ast 12 months ³ 722 | Since June 1 | | |
| IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT) IRON ORE SEABORNE INDEX, CFR QINGDAO (USD, | | | | | | | | | /DMT) | | | | | | | |
| | 11(0) | TORETO | TI IIIDEX, I C | i Qillo | DAO (IIIVID) | •••• | | 4.45 | INOI OF | IL JLAL | ONIVE | IIIULA | , crit Qiitt | JDAO (03b | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| 1050 — 950 — | | | | | | | N/ | 145 ——— 135 ——— | | | | | | | | 1 |
| 850 | | | | | | | | 125 —— 115 —— | | | | | | | لهمس | ~,\. |
| 750 — | ~~~ | | ma. | ~ | ~~^ | | <u></u> | 105 | -0 | ~~ | ~ | | ~~ | ~ /~ | لسام | / |
| 650 ~ | , | | \ | <i></i> | **** | | | 95 85 | | | W | ~ | -4 | ~~~ | | |
| 450 | ~~~~ | | | | | | | 75 65 | | سسمر | \mathcal{L} | ممسر | | | | |
| 350 | | | | | | | | 55 —— | | | | | | | | |
| 250 ~ | 220 220 | ×29° 12 | , & 'V | 3 29 | 1.79 1.79 | 129 229 | 1,29 | 20141-18 20 AUS | Jases 120 | 20140 | 700ec | 70.18r | 19 20tab 19 | 121.19 20 ADI.19 | DW84.78 JOHN | 29 111.29 |
| 50.m. 50 | Au8:18 205ep:18 | DOK.18 20HOV. | Laberia Jalauri | 20febr.19 | warra Jakorra | Wah. 18 John 18 | 20141.19 | 50, 50kg | Jaz Jag | JOHN | 20:0- | 20,20 | Jak Jak | JOK. 1 | Supp. Solp | Ja, |
| | | 10 | PI 62 I | O PI 58 = | 10 PI 65 | | | | | | | IO SI62 | —— IO S | 165 | | |
| | | | IR | ON ORE | PORT STOC | K INDEX M | ONTHLY, C | QUARTERLY | AND YEAR- | TO-DA | TE AVE | RAGES | 5 | | | |
| July 22nd, | 2019 | | FOT | Qingdao | (inc. 13% VA | T), RMB/wet | tonne | | | CFR Qi | ngdao E | quivale | nt (exc. 13% | % VAT), USD, | dry tonne | |
| Index | Fe Conten | t March | April | May | June | MTD | QTD | YTD | March | Apri | ı r | Vlay | June | MTD | QTD | YTD |
| IOPI62 | 62% Fe Fine | | 675 | 729 | 825 | 915 | 915 | 709 | 87.09 | 85.3 | 7 9 | 8.40 | 111.42 | 124.11 | 124.11 | 95.46 |
| IOPI58 | 58% Fe Fine | | 600 | 637 | 726 | 806 | 806 | 617 | 75.22 | 77.49 | | 6.39 | 98.60 | 110.05 | 110.05 | 82.97 |
| IOPI65 | 65% Fe Fine | | 753 | 812 | 901 | 955 | 955 | 785 | 98.08 | 95.78 | 3 11 | 10.00 | 121.97 | 129.77 | 129.77 | 106.04 |
| | | ORNE IND | EX MONTHL | • • | | | AIE AVER | RAGES | | . | | FR | REIGHT RA | | | |
| July 22nd, | 1 | | A*1 | | Qingdao, USD | • | 070 | VTC | July 19th, 2019 | | ocianatia. | | | Change % | K US\$/wet to | nne High ² |
| Index | Fe Conten | | • | May | | MTD | QTD | YTD | Route W. Australia - Qi | | esignation C5 | 10.90 | Change 0.05 | Change % | 4.39 | High - 10.90 |
| IOSI62 IOSI65 | 62% Fe Fine | | | 98.68 115.5 | | 121.73 130.67 | 121.73 130.67 | 94.94 108.62 | W. Australia - Qi Tubarao - Qingdi | - | C3 | 27.52 | 0.05 | 0.46% | 4.39 | 27.52 |
| .55105 | 3370121111 | 37.22 | | | PORT LUMI | | | | | | | | | 0.0376 | 21.01 | 21.52 |
| Week Endin | g July 19th, | | | | | | | CHRIERLI | | | | | | Δ V/ΛΤ\ 1100 | /dry ton- | 1 |
| 2019 | | | | | (inc. 16% VA | - | | VTS | - | | | - | | 6 VAT), USD | • | |
| Index IOPLI62 | Fe Conten | | n April 872 | Ma y 919 | • | MTD 1049 | QTD 1049 | YTD 900 | March 99.57 | Apri 111.0 | | May 17.12 | June 128.00 | MTD 133.37 | QTD 133.37 | YTD 115.30 |
| IOI LIUZ | 32.370TE EUI | 030 | 072 | 313 | , 1009 | | | MIUMS/DI | | 111.0 | 1. | | 120.00 | 133.37 | 133.37 | 113.30 |
| July 22nd, 2 | 2019 | | | р∩рт | TOCK INDEX (| | IDLA PKE | July 22nd, 20 | | | | | SEAROR | NE INDEX (US | SD/DMT\ | |
| Index | | Content | Spread | to IOPI62 | | | | Index | | Content | | Spre | SEABOR ad to IOSI62 | INE INDEX (US | % Spread to | IOSI62 |
| IOPI58 | | Fe Fines | · | 101 | | -11.00% | | | | | | | | | | |
| IOPI65 | 65% | Fe Fines | | 67 | | 7.30% | | IOSI65 | 65% | Fe Fines | | | 9.20 | | 7.63% | 6 |

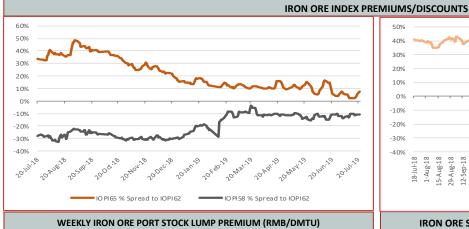




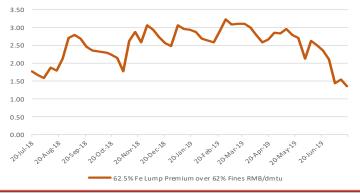
| IRON ORE BRAND SPOT PRICE ASSESMENTS | | | | | | | | | |
|--------------------------------------|-------|----------------|----------------|-------------------------|--------------------------|--------|----------------|--|--|
| July 22nd, 2019 | PORT | STOCK INDEX (R | RMB/WT) | July 22nd, 2019 | SEABORNE INDEX (USD/DMT) | | | | |
| | Price | Change | Diff to IOPI62 | | Price | Change | Diff to IOSI62 | | |
| Roy Hill | 870 | -4 | -48 | Roy Hill | 117.55 | -0.41 | -3.05 | | |
| SIMEC Fines | 810 | -9 | -108 | SIMEC Fines | 115.27 | -0.42 | -5.33 | | |
| PB Fines | 900 | -2 | -18 | PB Fines | 119.67 | -0.49 | -0.93 | | |
| Newman Fines | 923 | -2 | 5 | Newman Fines | 121.85 | -0.40 | 1.25 | | |
| MAC Fines | 884 | -4 | -34 | MAC Fines | 114.92 | -0.02 | -5.68 | | |
| Jimblebar Blended Fines | 868 | -5 | -50 | Jimblebar Blended Fines | 106.35 | -0.64 | -14.25 | | |
| Carajas Fines | 994 | 19 | 76 | Carajas Fines | 129.40 | -0.40 | 8.80 | | |
| Brazilian SSF | 841 | -3 | -77 | Brazilian SSF | 120.60 | -0.40 | 0.00 | | |
| Brazilian Blend Fines | 899 | 0 | -19 | Brazilian Blend Fines | 121.85 | -0.40 | 1.25 | | |
| RTX Fines | 870 | -6 | -48 | RTX Fines | 111.15 | -0.49 | -9.45 | | |
| West Pilbara Fines | 867 | -4 | -51 | West Pilbara Fines | 116.65 | -0.41 | -3.95 | | |

| July 22nd, 2019 | PORT STOCK INDEX (RMB/WT) | | | | | | |
|-------------------|---------------------------|--------|----------------|--|--|--|--|
| | Price | Change | Diff to IOPI58 | | | | |
| SSF | 759 | -3 | -58 | | | | |
| FMG Blended Fines | 820 | -3 | 3 | | | | |
| Robe River | 753 | -3 | -64 | | | | |
| Western Fines | 792 | -3 | -25 | | | | |
| Atlas Fines | 774 | -3 | -43 | | | | |
| Yandi | 845 | -5 | 28 | | | | |

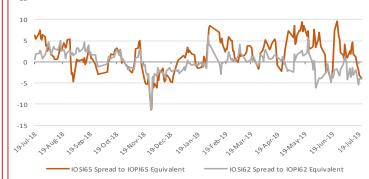
| | | | | IRON ORE IN | NDEX NORMA | LISATION DIFFER | ENTIALS | | | | | | |
|------------|---------------|---|------------|---|-----------------|---------------------|--------------|---------------------------|--|---------------|---|------|------|
| Por | t Stock Index | Product Differ | entials (R | MB/wet tonne |) | Sea | aborne Inde | x Product Di | fferentials (| USD/dry tonne | e) | | |
| | Ар | plicable range | | Value | Change | | A | pplicable ran | ge | Value | Change | | |
| | High Grade | e Fe 60 - 63% | | 6.00 | 0.00 | | High Grad | de Fe 60 - 63 | % | 1.75 | 0.00 | | |
| | High Grade | High Grade Fe 63 - 64% | | 15.00 | 4.00 | | High Grad | rade Fe 63 - 64% | | 2.00 | 0.00 | | |
| 1% Fe | High Grade | e Fe 64 - 65% | | 15.00 | 4.00 | 1% Fe | High Grad | High Grade Fe 64 - 65% | | 2.00 | 0.00 | | |
| | High Grade | High Grade Fe 65 - 65.5% | | 15.00 | 4.00 | | High Grad | High Grade Fe 65 - 65.5% | | 2.00 | 0.00 | | |
| | Low Grade | Low Grade Fe | | 19.00 | 0.00 | | | | | | | | |
| | High Fe Gra | High Fe Grade Al <2.25% High Fe Grade Al 2.25-4% | | 22.00 | 5.00 | | High Fe G | rade Al <2.2 | 5% | 1.50 | 0.00 | | |
| 1% Alumina | High Fe Gra | | | 9.00 | 3.00 | 1% Alumina | High Fe G | rade Al 2.25 | -4% | 2.00 | 0.25 | | |
| | Low Fe Gra | de Al <2.25% | | 57.00 | -3.00 | 1% Alumina | | | | | | | |
| | Low Fe Gra | de Al 2.25-4% | | 43.00 | 0.00 | | | | | | | | |
| | High Fe Gra | High Fe Grade Si <4% High Fe Grade Si 4-6.5% | | 5.00 2.00 | | | High Fe G | rade Si <4% | | 0.75 | 0.00 | | |
| 1% Silica | High Fe Gra | | | 49.00 | 3.00 | 1% Silica | High Fe G | High Fe Grade Si 4 - 6.5% | | 0.75 | 0.00 | | |
| | Low Fe Gra | Low Fe Grade | | 5.00 | 0.00 | | | | | | | | |
| 0.01% | High Fe Gra | ade 0.09% <p<0< td=""><td>.115%</td><td>1.00</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>1.25</td><td>-0.25</td></p<0<> | .115% | 1.00 | 0.00 | 0.01% | High Fe G | rade 0.09%< | P<0.115% | 1.25 | -0.25 | | |
| | High Fe Gra | High Fe Grade 0.115% <p<0.15%< td=""><td colspan="2">High Fe Grade 0.115%<p<0.15%< td=""><td>6.00</td><td>0.00</td><td>Phosphorus</td><td colspan="2">sphorus High Fe Grade 0.115%<p<0.15< td=""><td><p<0.15%< td=""><td>1.25</td><td>0.25</td></p<0.15%<></td></p<0.15<></td></p<0.15%<></td></p<0.15%<> | | High Fe Grade 0.115% <p<0.15%< td=""><td>6.00</td><td>0.00</td><td>Phosphorus</td><td colspan="2">sphorus High Fe Grade 0.115%<p<0.15< td=""><td><p<0.15%< td=""><td>1.25</td><td>0.25</td></p<0.15%<></td></p<0.15<></td></p<0.15%<> | | 6.00 | 0.00 | Phosphorus | sphorus High Fe Grade 0.115% <p<0.15< td=""><td><p<0.15%< td=""><td>1.25</td><td>0.25</td></p<0.15%<></td></p<0.15<> | | <p<0.15%< td=""><td>1.25</td><td>0.25</td></p<0.15%<> | 1.25 | 0.25 |
| Phosphorus | Low Fe Gra | de 0.09 <p<0.19< td=""><td>%</td><td>1.00</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td></p<0.19<> | % | 1.00 | 0.00 | | | | | | | | |
| | | | Port S | tock 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 | -15.00 | 0.00 | Fangchen | g -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 | -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 | -15.00 | 0.00 | Lanqiao | 0.00 | 0.00 | Nantong | -20.00 | 0.00 | Tianjin | 0.00 | 0.00 | | |



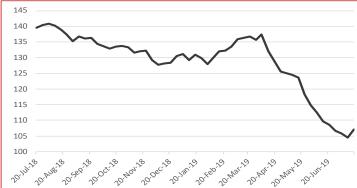








TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)

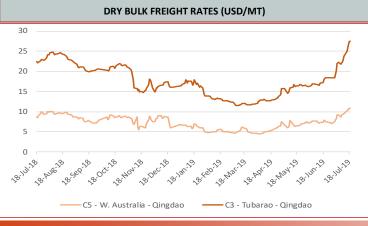


| J | | | | | |
|---|-----------|----------|--|-----|---------|
| | | | FUTURE TRADING—FRONT MONTH CLOSING PRICE | | |
| | 1 | 1000 | | 130 | |
| | | 900 | - Ma | 120 | |
| | | 000 | ₽ <mark>/v</mark> ~~ | 110 | |
| | RMB/tonne | 800 | W | 100 | JMT |
| | 1B/t | 700 | A MANY | 90 | USD/DMT |
| | 器 | 600 | Internal management | 80 | Ď |
| | | 500 | ma market and | | |
| | | 300 | The year of the same of the sa | 70 | |
| | | 400 | | 60 | |
| | | 20-141-2 | Parent Social Social Sound Social Soc | | |
| | | | —— Dalian 3pm Close —— SGX Front Month 6pm (RHS) | | |

| IRON ORE PORT INVENTORIES (MILLION TONNES) | | | | | | | | | | | |
|--|-----------|----------|------------------|-------------------|--|--|--|--|--|--|--|
| Week Ending July 19th, 2019 | | | | | | | | | | | |
| Province | This week | Change % | Low ² | High ² | | | | | | | |
| Jingtang | 11.52 | 6.67% | 10.80 | 17.20 | | | | | | | |
| Qingdao | 12.87 | -3.74% | 12.87 | 19.01 | | | | | | | |
| Caofeidian | 14.95 | 1.91% | 14.48 | 20.10 | | | | | | | |
| Tianjin | 6.55 | 0.61% | 6.51 | 10.48 | | | | | | | |
| Rizhao | 12.38 | 5.99% | 11.65 | 18.08 | | | | | | | |
| Total (35 Ports) | 107.10 | 2.59% | 104.40 | 140.74 | | | | | | | |

| | D | CE (RMB/WN | IT) | SGX (USD/DMT) | | | | |
|----------------------------|--------|--------------|----------|-----------------------|--------|----------|--|--|
| Closing Date | Jul | y 22nd 3pm c | lose | July 22nd Feb 5.30 pm | | | | |
| Contract | 11909 | Change | Change % | Aug'19 | Change | Change % | | |
| Closing Price | 885.00 | -31.0 | -3.38% | 114.05 | -2.67 | -2.29% | | |
| Vol traded ('000 lots) | 99.99 | 2.4 | 2.44% | 10.31 | -3.52 | -25.44% | | |
| Open positions ('000 lots) | 123.80 | -10.3 | -7.70% | 147.02 | -5.53 | -3.63% | | |
| Day Low | 885.0 | 3.0 | 0.34% | 113.57 | 0.02 | 0.02% | | |
| Day High | 911.5 | -6.5 | -0.71% | 114.87 | -2.02 | -1.73% | | |

IRON ORE FUTURES CONTRACTS





STEEL SPOT MARKET PRICES—CHINA

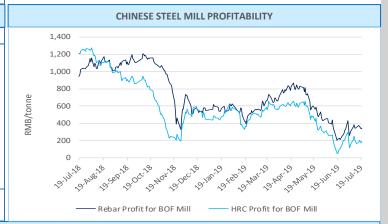
| Steel Spot Market RMB/tonne | | | |
|---------------------------------|-----------|--------|----------|
| Product | 19/7/2019 | Change | Change % |
| ReBar HRB400 ¢18mm | 4,045.0 | 55 | 1.38% |
| Wirerod Q300 ¢6.5mm | 4,240.0 | 0 | 0.00% |
| HRC Q235/SS400 5.5mm*1500*C | 3,896.0 | 46 | 1.19% |
| CRC SPCC/ST12 1.0mm*1250*2500 | 4,203.0 | 3 | 0.07% |
| Medium & Heavy Plate Q235B 20mm | 3,946.0 | 16 | 0.41% |
| GI ST02Z 1.0mm*1000*C | 4,560.0 | 0 | 0.00% |
| Colour Coated Plate | 6,900.0 | 0 | 0.00% |



| 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 | 120.25 | -0.90 | Mmi CFR Equivalent index for 1st Feb | | | | | | |
| Coke | 1,910 | 0 | 2nd grade met coke, Tangshan, incl. tax | | | | | | |
| Steel Scrap | 2,370 | 40 | steel scrap (6mm) in Zhangjiagang, exl. tax | | | | | | |
| Billet Cost | 3,376 | -5 | Q234, incl. tax | | | | | | |
| Rebar cost - Blast furnace | 3,627 | -4 | calculated based on theoretical weight, incl. tax | | | | | | |
| Rebar profit - Blast furnace | 343 | -6 | based on Shanghai prices, incl. tax | | | | | | |
| Hot-rolled coil cost - Blast furnace | 3,692 | -5 | based on actual weight, incl. tax | | | | | | |
| Hot-rolled coil proft - Blast furnace | 188 | 25 | based on Shanghai prices, incl. tax | | | | | | |
| ' | | | 3 1 / | | | | | | |

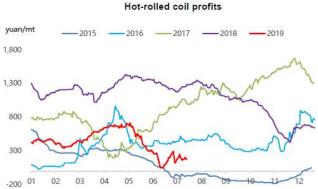
Note: 1 Costs in the table are caluclated based on todays market prices and facout our management, sales, financial and depreciations fees.

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

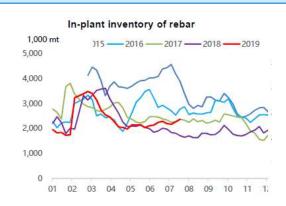


CHINESE STEEL MILL PROFITABILITY





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



Fe %

Alumina % Silica%

Sulphur %

Moisture %

Pricing Point

Timing (Seaborne)

Payment Terms

Sizing

Phosphorus %

0.01

8.00

0.02

8.00

Granular size below 10mm for at least 90% of cargo;

maximum of 40% below 150 micron

Qingdao Port (FOT and CFR respectively)

Loading within 4 weeks, Delivery within 8 weeks

L/C at sight

65%

| | 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 | | | | | | | |
| 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 | | | | | | | |
| 1.40 | 2.25 | 2.25 | 1.50 | these companies. This data is normalised to the appropriate specifications and | | | | | | | |
| 1.50 | 4.00 | 5.50 | 3.50 | screened to remove outliers before volume-weighted average prices are calculated from the remaining core set of data. | | | | | | | |
| 0.06 | 0.09 | 0.05 | 0.08 | For more details on MMi's iron ore methodology please download the guide | | | | | | | |

0.02 4.00 Data Exclusions* Size below 6.3mm max 15%

Size above 31.15mm max 25% Seaborne index O FOT Qingdao Port Lump Index 62.5 Delivery within 2 weeks * Number of price submissions for iron ore indices that were excluded from

published on our website at: www.mmiprices.com

О

For more details on MMi's iron ore methodology please download the guide

IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

L/C at sight or CAD

0.02

9.00

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 | AGE IRON | ORE SPECIF | ICATIONS A | PPLIED FOR BRAND PRICE A | SSESSMEN | TS | | | | |
|-------------------------|---------|----------------|------------|-------------|------------|--------------------------|--|---------|--------|--------|----------|--|
| | PORT | STOCK BRAN | IDS | | | SEABORNE BRANDS | | | | | | |
| July 22nd, 2019 | Specifi | cations applie | 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 | 61.50% | 2.35% | 3.87% | 0.101% | 9.41% | PB Fines 62% | 62.00% | 2.60% | 4.30% | 0.090% | 10.00% | |
| Newman Fines | 62.56% | 2.26% | 3.98% | 0.084% | 7.79% | Newman Fines | 62.80% | 2.20% | 4.30% | 0.080% | 6.40% | |
| MAC Fines | 60.87% | 2.24% | 4.66% | 0.081% | 7.55% | MAC Fines | 61.00% | 2.70% | 4.70% | 0.110% | 9.30% | |
| Jimblebar Blended Fines | 60.83% | 3.01% | 4.41% | 0.114% | 7.35% | Jimblebar Blended Fines | 59.50% | 3.70% | 5.80% | 0.135% | 8.30% | |
| Carajas Fines | 65.60% | 1.23% | 1.43% | 0.068% | 8.42% | 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 | 62.85% | 1.45% | 4.81% | 0.073% | 8.28% | 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% | |
| July 22nd, 2019 | Specifi | cations appli | ed for 58% | brand asses | sments | | | | | | | |
| | Fe | Alumina | Silica | Phos | Moisture | | | | | | | |
| SSF | 56.73% | 3.06% | 6.28% | 0.058% | 8.47% | | | | | | | |
| FMG Blended Fines | 58.20% | 2.59% | 5.48% | 0.063% | 7.41% | | | | | | | |
| 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% | | | | | | | |
| Yandi | 57.43% | 1.53% | 6.23% | 0.040% | 8.80% | | | | | | | |

| | | | BLOOMBE | | | | | | | |
|--------------------|------|-----------------------------|--|--|--|--|--|--|--|--|
| PORT STOCK INDICES | | | | | | | | | | |
| | | FOT Qingdao (RMB/wet tonne) | CFR Qingdao Equivalent (USD/dry tonne) | | | | | | | |
| IOP | P162 | IRCNQ001 | IRCNQ004 | | | | | | | |
| IOP | P158 | IRCNQ002 | IRCNQ005 | | | | | | | |
| IOP | P165 | IRCNQ003 | IRCNQ006 | | | | | | | |

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