

## CME Group Exchange Volume Comparison Report - Monthly

|                              | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG   | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG   | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG   | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|------------------------------|----------------------------|----------------------------|---------|------------------|------------------|---------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Interest Rate Futures</b> |                            |                            |         |                  |                  |         |                              |                              |         |                    |                       |          |
| 10-YR NOTE                   | 0                          | 113,078                    | -100.0% | 25,136,495       | 32,133,938       | -21.78% | 469,469                      | 746,987                      | -37.2%  | 229,488,695        | 216,807,519           | 5.8%     |
| 10-YR SWAP RATE              | 0                          | 0                          | 0.0%    | 44,175           | 64,677           | -31.70% | 0                            | 0                            | 0.0%    | 303,152            | 240,970               | 25.8%    |
| 15-YR SWAP RATE              | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| 1-MONTH EURODOLLAR           | 0                          | 0                          | 0.0%    | 47               | 35               | 34.29%  | 0                            | 0                            | 0.0%    | 509                | 186                   | 173.7%   |
| 20-YR SWAP RATE              | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%    | 0                  | 46                    | -100.0%  |
| 2-YR NOTE                    | 0                          | 617                        | -100.0% | 5,986,651        | 10,811,109       | -44.63% | 261                          | 15,781                       | -98.3%  | 77,277,850         | 79,603,843            | -2.9%    |
| 2-YR SWAP RATE               | 0                          | 0                          | 0.0%    | 5,531            | 81,716           | -93.23% | 0                            | 0                            | 0.0%    | 74,453             | 260,884               | -71.5%   |
| 30-YR BOND                   | 0                          | 10,382                     | -100.0% | 5,558,793        | 5,878,697        | -5.44%  | 55,491                       | 105,586                      | -47.4%  | 46,827,770         | 41,073,091            | 14.0%    |
| 30-YR SWAP RATE              | 0                          | 0                          | 0.0%    | 72               | 1,199            | -93.99% | 0                            | 0                            | 0.0%    | 731                | 4,615                 | -84.2%   |
| 3-YR SWAP RATE               | 0                          | 0                          | 0.0%    | 2,916            | 15,825           | -81.57% | 0                            | 0                            | 0.0%    | 19,693             | 62,240                | -68.4%   |
| 4-YR SWAP RATE               | 0                          | 0                          | 0.0%    | 2,093            | 14,944           | -85.99% | 0                            | 0                            | 0.0%    | 8,457              | 75,173                | -88.7%   |
| 5-YR NOTE                    | 0                          | 63,677                     | -100.0% | 13,710,624       | 19,786,967       | -30.71% | 87,402                       | 226,940                      | -61.5%  | 136,377,276        | 139,500,842           | -2.2%    |
| 5-YR SWAP RATE               | 0                          | 0                          | 0.0%    | 47,881           | 128,072          | -62.61% | 0                            | 0                            | 0.0%    | 387,388            | 423,891               | -8.6%    |
| 7-YR SWAP RATE               | 0                          | 0                          | 0.0%    | 1,141            | 5,375            | -78.77% | 0                            | 0                            | 0.0%    | 13,145             | 27,150                | -51.6%   |
| EURODOLLARS                  | 0                          | 1,104,692                  | -100.0% | 34,412,348       | 75,184,622       | -54.23% | 2,619,681                    | 4,971,530                    | -47.3%  | 325,102,261        | 367,333,953           | -11.5%   |
| FED FUND                     | 0                          | 0                          | 0.0%    | 3,214,716        | 11,437,090       | -71.89% | 0                            | 0                            | 0.0%    | 41,824,567         | 43,126,471            | -3.0%    |
| SOFR                         | 0                          | 0                          | 0.0%    | 835,303          | 533,181          | 56.66%  | 0                            | 0                            | 0.0%    | 5,291,174          | 3,399,307             | 55.7%    |
| SONIA                        | 0                          | 0                          | 0.0%    | 135,711          | 138,518          | -2.03%  | 0                            | 0                            | 0.0%    | 818,658            | 979,077               | -16.4%   |
| Ultra 10-Year Note           | 0                          | 0                          | 0.0%    | 3,787,933        | 4,179,672        | -9.37%  | 0                            | 0                            | 0.0%    | 32,678,115         | 26,024,329            | 25.6%    |
| ULTRA T-BOND                 | 0                          | 0                          | 0.0%    | 2,984,402        | 2,671,818        | 11.70%  | 0                            | 66                           | -100.0% | 25,082,877         | 22,120,444            | 13.4%    |
| <b>Interest Rate Options</b> |                            |                            |         |                  |                  |         |                              |                              |         |                    |                       |          |
| 10-YR NOTE                   | 0                          | 2,273,811                  | -100.0% | 10,009,322       | 10,511,591       | -4.78%  | 8,489,760                    | 14,199,426                   | -40.2%  | 67,642,265         | 63,696,261            | 6.2%     |
| 2-YR NOTE                    | 0                          | 182,970                    | -100.0% | 112,479          | 416,703          | -73.01% | 273,359                      | 923,666                      | -70.4%  | 1,590,641          | 2,076,524             | -23.4%   |
| 30-YR BOND                   | 0                          | 187,345                    | -100.0% | 2,051,049        | 2,398,892        | -14.50% | 891,042                      | 1,812,138                    | -50.8%  | 14,328,981         | 14,679,503            | -2.4%    |
| 5-YR NOTE                    | 0                          | 901,013                    | -100.0% | 2,557,909        | 4,226,764        | -39.48% | 2,424,616                    | 5,411,677                    | -55.2%  | 20,636,269         | 22,354,642            | -7.7%    |
| EURODOLLARS                  | 0                          | 21,675,572                 | -100.0% | 5,124,113        | 15,116,640       | -66.10% | 48,129,596                   | 86,598,526                   | -44.4%  | 91,647,713         | 48,212,735            | 90.1%    |
| EURO MIDCURVE                | 0                          | 8,585,595                  | -100.0% | 7,651,915        | 7,431,360        | 2.97%   | 12,810,071                   | 47,801,164                   | -73.2%  | 33,922,742         | 38,639,309            | -12.2%   |
| FED FUND                     | 0                          | 1,000                      | -100.0% | 0                | 0                | 0.00%   | 3,100                        | 1,250                        | 148.0%  | 7,821              | 202                   | 3,771.8% |
| SOFR                         | 0                          | -                          | -       | 25               | -                |         | 10                           | -                            | -       | 812                | -                     | -        |
| Ultra 10-Year Note           | 0                          | 1,330                      | -100.0% | 0                | 0                | 0.00%   | 13,035                       | 11,618                       | 12.2%   | 2,961              | 5,328                 | -44.4%   |
| ULTRA T-BOND                 | 0                          | 18,709                     | -100.0% | 251              | 1,401            | -82.08% | 10,870                       | 85,014                       | -87.2%  | 2,182              | 9,808                 | -77.8%   |

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|                             | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG   | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG    | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG   | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|-----------------------------|----------------------------|----------------------------|---------|------------------|------------------|----------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Equity Index Futures</b> |                            |                            |         |                  |                  |          |                              |                              |         |                    |                       |          |
| BITCOIN FUTURES             | 0                          | 0                          | 0.0%    | 131,009          | 167,362          | -21.72%  | 0                            | 0                            | 0.0%    | 1,008,811          | 941,222               | 7.2%     |
| DJ US REAL ESTATE           | 0                          | 0                          | 0.0%    | 50,386           | 32,460           | 55.22%   | 0                            | 0                            | 0.0%    | 238,423            | 146,131               | 63.2%    |
| E-mini (\$5) Dow            | 0                          | 0                          | 0.0%    | 6,013,852        | 4,215,355        | 42.67%   | 0                            | 0                            | 0.0%    | 34,455,282         | 26,914,467            | 28.0%    |
| E-MINI COM SERVICES SELEC   | 0                          | 0                          | 0.0%    | 2,998            | 2,335            | 28.39%   | 0                            | 0                            | 0.0%    | 13,500             | 16,979                | -20.5%   |
| E-mini FTSE 100 (USD)       | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 336                   | -100.0%  |
| E-mini FTSE China 50        | 0                          | 0                          | 0.0%    | 0                | 13               | -100.00% | 0                            | 0                            | 0.0%    | 0                  | 711                   | -100.0%  |
| E-MINI MIDCAP               | 0                          | 0                          | 0.0%    | 531,550          | 424,169          | 25.32%   | 0                            | 0                            | 0.0%    | 2,394,281          | 2,037,023             | 17.5%    |
| E-MINI NASDAQ 100           | 0                          | 0                          | 0.0%    | 11,798,767       | 9,423,732        | 25.20%   | 0                            | 0                            | 0.0%    | 74,899,938         | 59,560,001            | 25.8%    |
| E-MINI RUSSELL 1000         | 0                          | 0                          | 0.0%    | 4,443            | 3,694            | 20.28%   | 0                            | 0                            | 0.0%    | 24,908             | 22,240                | 12.0%    |
| E-MINI RUSSELL 1000 GROWT   | 0                          | 0                          | 0.0%    | 6,192            | 8,671            | -28.59%  | 0                            | 0                            | 0.0%    | 19,670             | 23,097                | -14.8%   |
| E-MINI RUSSELL 1000 VALUE   | 0                          | 0                          | 0.0%    | 12,524           | 11,291           | 10.92%   | 0                            | 0                            | 0.0%    | 36,576             | 46,601                | -21.5%   |
| E-MINI RUSSELL 2000         | 0                          | 0                          | 0.0%    | 5,899,128        | 3,618,527        | 63.03%   | 0                            | 0                            | 0.0%    | 27,473,373         | 17,869,340            | 53.7%    |
| E-MINI S&P500               | 0                          | 0                          | 0.0%    | 52,781,047       | 36,168,038       | 45.93%   | 0                            | 0                            | 0.0%    | 286,624,511        | 199,207,640           | 43.9%    |
| E-MINI S&P REAL ESTATE SEL  | 0                          | 0                          | 0.0%    | 3,348            | 2,226            | 50.40%   | 0                            | 0                            | 0.0%    | 39,079             | 15,801                | 147.3%   |
| FT-SE 100                   | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 372                   | -100.0%  |
| FTSE Emerging               | 0                          | 0                          | 0.0%    | 60               | 1,816            | -96.70%  | 0                            | 0                            | 0.0%    | 4,480              | 13,509                | -66.8%   |
| IBOVESPA INDEX              | 0                          | 0                          | 0.0%    | 365              | 592              | -38.34%  | 0                            | 0                            | 0.0%    | 3,471              | 3,741                 | -7.2%    |
| MICRO E-MINI NASDAQ 100     | 0                          | 0                          | 0.0%    | 13,515,935       | 3,029,064        | 346.21%  | 0                            | 0                            | 0.0%    | 72,413,156         | 6,023,411             | 1,102.2% |
| MICRO E-MINI RUSSELL 2000   | 0                          | 0                          | 0.0%    | 3,043,848        | 375,630          | 710.33%  | 0                            | 0                            | 0.0%    | 12,050,980         | 918,887               | 1,211.5% |
| MICRO E-MINI S&P500         | 0                          | 0                          | 0.0%    | 24,368,888       | 4,529,623        | 437.99%  | 0                            | 0                            | 0.0%    | 106,491,003        | 9,348,045             | 1,039.2% |
| MICRO MINI \$5 DOW          | 0                          | 0                          | 0.0%    | 3,593,740        | 800,243          | 349.08%  | 0                            | 0                            | 0.0%    | 17,497,922         | 1,743,309             | 903.7%   |
| NASDAQ BIOTECH              | 0                          | 0                          | 0.0%    | 728              | 468              | 55.56%   | 0                            | 0                            | 0.0%    | 3,530              | 1,806                 | 95.5%    |
| Nearby BTIC+                | 0                          | -                          | -       | 0                | -                |          | 0                            | -                            | -       | 200                | -                     | -        |
| NIFTY 50                    | -                          | 0                          | 0.0%    | -                | 0                | 0.00%    | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| NIKKEI 225 (\$) STOCK       | 0                          | 0                          | 0.0%    | 212,736          | 269,391          | -21.03%  | 0                            | 0                            | 0.0%    | 1,431,775          | 1,340,638             | 6.8%     |
| NIKKEI 225 (YEN) STOCK      | 0                          | 0                          | 0.0%    | 1,010,355        | 891,395          | 13.35%   | 0                            | 228                          | -100.0% | 7,135,333          | 4,596,091             | 55.2%    |
| S&P 500                     | 0                          | 63,932                     | -100.0% | 1,794            | 1,094            | 63.99%   | 33,712                       | 153,857                      | -78.1%  | 18,437             | 9,031                 | 104.2%   |
| S&P 500 ANNUAL DIVIDEND IN  | 0                          | 0                          | 0.0%    | 39,090           | 16,733           | 133.61%  | 0                            | 0                            | 0.0%    | 176,978            | 63,958                | 176.7%   |
| S&P 500/GI                  | 0                          | 0                          | 0.0%    | 0                | 20               | -100.00% | 0                            | 0                            | 0.0%    | 0                  | 40                    | -100.0%  |
| S&P 500 QUARLY DIVIDEND IN  | 0                          | 0                          | 0.0%    | 2,782            | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 7,964              | 521                   | 1,428.6% |
| S&P 600 SMALLCAP EMINI      | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| S&P CONSUMER DSCRTNRY S     | 0                          | 0                          | 0.0%    | 6,562            | 9,310            | -29.52%  | 0                            | 0                            | 0.0%    | 42,503             | 45,182                | -5.9%    |

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|-----------------------------|----------------------------|----------------------------|---------|------------------|------------------|-----------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| <b>Equity Index Futures</b> |                            |                            |         |                  |                  |           |                              |                              |        |                    |                       |          |
| S&P CONSUMER STAPLES SE     | 0                          | 0                          | 0.0%    | 19,653           | 20,034           | -1.90%    | 0                            | 0                            | 0.0%   | 63,742             | 68,419                | -6.8%    |
| S&P ENERGY SECTOR           | 0                          | 0                          | 0.0%    | 24,076           | 11,484           | 109.65%   | 0                            | 0                            | 0.0%   | 111,285            | 70,901                | 57.0%    |
| S&P FINANCIAL SECTOR        | 0                          | 0                          | 0.0%    | 29,693           | 25,851           | 14.86%    | 0                            | 0                            | 0.0%   | 116,786            | 105,540               | 10.7%    |
| S&P HEALTH CARE SECTOR      | 0                          | 0                          | 0.0%    | 17,513           | 15,314           | 14.36%    | 0                            | 0                            | 0.0%   | 83,872             | 67,360                | 24.5%    |
| S&P INDUSTRIAL SECTOR       | 0                          | 0                          | 0.0%    | 13,207           | 7,083            | 86.46%    | 0                            | 0                            | 0.0%   | 55,635             | 47,639                | 16.8%    |
| S&P MATERIALS SECTOR        | 0                          | 0                          | 0.0%    | 8,510            | 8,279            | 2.79%     | 0                            | 0                            | 0.0%   | 32,032             | 39,940                | -19.8%   |
| S&P TECHNOLOGY SECTOR       | 0                          | 0                          | 0.0%    | 12,700           | 12,321           | 3.08%     | 0                            | 0                            | 0.0%   | 64,709             | 65,655                | -1.4%    |
| S&P UTILITIES SECTOR        | 0                          | 0                          | 0.0%    | 18,452           | 16,949           | 8.87%     | 0                            | 0                            | 0.0%   | 91,230             | 101,810               | -10.4%   |
| S&P VALUE INDEX FUTURES     | 0                          | 0                          | 0.0%    | 0                | 24               | -100.00%  | 0                            | 0                            | 0.0%   | 0                  | 48                    | -100.0%  |
| YEN DENOMINATED TOPIX       | 0                          | 0                          | 0.0%    | 6,588            | 20,455           | -67.79%   | 0                            | 0                            | 0.0%   | 47,942             | 103,299               | -53.6%   |
| <b>Equity Index Options</b> |                            |                            |         |                  |                  |           |                              |                              |        |                    |                       |          |
| BITCOIN FUTURES             | 0                          | -                          | -       | 1,764            | -                |           | 0                            | -                            | -      | 4,905              | -                     | -        |
| E-mini (\$5) Dow            | 0                          | 0                          | 0.0%    | 4,131            | 2,984            | 38.44%    | 0                            | 0                            | 0.0%   | 21,465             | 26,486                | -19.0%   |
| E-MINI NASDAQ 100           | 0                          | 0                          | 0.0%    | 289,020          | 206,567          | 39.92%    | 0                            | 0                            | 0.0%   | 1,970,032          | 1,238,807             | 59.0%    |
| E-MINI RUSSELL 2000         | 0                          | 0                          | 0.0%    | 23,849           | 18,126           | 31.57%    | 0                            | 0                            | 0.0%   | 122,823            | 78,206                | 57.1%    |
| E-MINI S&P500               | 0                          | 0                          | 0.0%    | 8,043,313        | 5,602,616        | 43.56%    | 250                          | 345                          | -27.5% | 50,238,213         | 29,614,784            | 69.6%    |
| EOM E-MINI RUSSELL 2000 EN  | 0                          | 0                          | 0.0%    | 10,152           | 10,668           | -4.84%    | 0                            | 0                            | 0.0%   | 53,081             | 51,478                | 3.1%     |
| EOM EMINI S&P               | 0                          | 0                          | 0.0%    | 1,517,474        | 1,823,441        | -16.78%   | 0                            | 0                            | 0.0%   | 13,389,328         | 11,182,919            | 19.7%    |
| EOM S&P 500                 | 0                          | 147,140                    | -100.0% | 0                | 0                | 0.00%     | 303,360                      | 788,911                      | -61.5% | 0                  | 0                     | 0.0%     |
| EOW1 E-MINI RUSSELL 2000 W  | 0                          | 0                          | 0.0%    | 4,820            | 4,614            | 4.46%     | 0                            | 0                            | 0.0%   | 31,744             | 19,315                | 64.3%    |
| EOW1 EMINI S&P 500          | 0                          | 0                          | 0.0%    | 1,051,661        | 1,302,038        | -19.23%   | 0                            | 0                            | 0.0%   | 6,631,198          | 5,673,095             | 16.9%    |
| EOW1 S&P 500                | 0                          | 100,809                    | -100.0% | 0                | 0                | 0.00%     | 157,788                      | 384,093                      | -58.9% | 0                  | 0                     | 0.0%     |
| EOW2 E-MINI RUSSELL 2000 W  | 0                          | 0                          | 0.0%    | 4,782            | 4,674            | 2.31%     | 0                            | 0                            | 0.0%   | 22,909             | 22,314                | 2.7%     |
| EOW2 EMINI S&P 500          | 0                          | 0                          | 0.0%    | 1,399,349        | 980,451          | 42.73%    | 0                            | 0                            | 0.0%   | 6,820,929          | 6,031,053             | 13.1%    |
| EOW2 S&P 500                | 0                          | 62,579                     | -100.0% | 0                | 0                | 0.00%     | 252,530                      | 738,801                      | -65.8% | 0                  | 0                     | 0.0%     |
| EOW3 E-MINI RUSSELL 2000 W  | 0                          | 0                          | 0.0%    | 18,759           | 8,496            | 120.80%   | 0                            | 0                            | 0.0%   | 122,323            | 62,199                | 96.7%    |
| EOW3 EMINI S&P 500          | 0                          | 0                          | 0.0%    | 1,840,317        | 1,526,011        | 20.60%    | 0                            | 0                            | 0.0%   | 15,651,201         | 13,555,724            | 15.5%    |
| EOW3 S&P 500                | 0                          | 91,449                     | -100.0% | 0                | 0                | 0.00%     | 266,271                      | 776,212                      | -65.7% | 0                  | 0                     | 0.0%     |
| EOW4 E-MINI RUSSELL 2000 W  | 0                          | 0                          | 0.0%    | 4,029            | 261              | 1,443.68% | 0                            | 0                            | 0.0%   | 19,126             | 17,541                | 9.0%     |
| EOW4 EMINI S&P 500          | 0                          | 0                          | 0.0%    | 978,465          | 46,586           | 2,000.34% | 0                            | 0                            | 0.0%   | 4,990,825          | 4,848,673             | 2.9%     |
| S&P 500                     | 0                          | 299,014                    | -100.0% | 824              | 0                | 0.00%     | 677,812                      | 1,424,306                    | -52.4% | 7,073              | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG     | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|----------------------------|----------------------------|----------------------------|-------|------------------|------------------|-----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Metals Futures</b>      |                            |                            |       |                  |                  |           |                              |                              |       |                    |                       |          |
| ALUMINUM                   | 0                          | 0                          | 0.0%  | 3,509            | 150              | 2,239.33% | 0                            | 0                            | 0.0%  | 17,491             | 4,007                 | 336.5%   |
| COMEX COPPER               | 0                          | 0                          | 0.0%  | 2,209,487        | 2,248,575        | -1.74%    | 0                            | 0                            | 0.0%  | 12,375,933         | 12,676,233            | -2.4%    |
| COMEX E-Mini GOLD          | 0                          | 0                          | 0.0%  | 18,496           | 24,735           | -25.22%   | 0                            | 0                            | 0.0%  | 209,067            | 68,268                | 206.2%   |
| COMEX E-Mini SILVER        | 0                          | 0                          | 0.0%  | 4,276            | 5,520            | -22.54%   | 0                            | 0                            | 0.0%  | 26,607             | 22,023                | 20.8%    |
| COMEX GOLD                 | 0                          | 0                          | 0.0%  | 4,324,233        | 7,034,651        | -38.53%   | 0                            | 0                            | 0.0%  | 40,576,591         | 35,301,375            | 14.9%    |
| COMEX MINY COPPER          | 0                          | 0                          | 0.0%  | 543              | 1,022            | -46.87%   | 0                            | 0                            | 0.0%  | 3,124              | 3,909                 | -20.1%   |
| COMEX SILVER               | 0                          | 0                          | 0.0%  | 1,802,908        | 2,588,030        | -30.34%   | 0                            | 0                            | 0.0%  | 10,921,191         | 10,500,473            | 4.0%     |
| COPPER                     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FERROUS PRODUCTS           | 0                          | 0                          | 0.0%  | 1,013            | 782              | 29.54%    | 0                            | 0                            | 0.0%  | 8,279              | 3,749                 | 120.8%   |
| GOLD                       | 0                          | -                          | -     | 3,178            | -                |           | 0                            | -                            | -     | 48,640             | -                     | -        |
| Gold Kilo                  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%     | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| HOT ROLLED COIL STEEL FUT  | 0                          | -                          | -     | 0                | -                |           | 0                            | -                            | -     | 0                  | -                     | -        |
| IRON ORE 62 CHINA PLATTS F | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| IRON ORE 62 CHINA TSI FUTU | 0                          | 0                          | 0.0%  | 1                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 209                | 28                    | 646.4%   |
| LNDN ZINC                  | 0                          | 0                          | 0.0%  | 0                | 36               | -100.00%  | 0                            | 0                            | 0.0%  | 0                  | 1,230                 | -100.0%  |
| METALS                     | 0                          | -                          | -     | 0                | -                |           | 0                            | -                            | -     | 0                  | -                     | -        |
| MICRO GOLD                 | 0                          | 0                          | 0.0%  | 1,567,682        | 491,048          | 219.25%   | 0                            | 0                            | 0.0%  | 8,029,922          | 1,468,738             | 446.7%   |
| NYMEX HOT ROLLED STEEL     | 0                          | 0                          | 0.0%  | 3,803            | 4,596            | -17.25%   | 0                            | 0                            | 0.0%  | 33,251             | 24,256                | 37.1%    |
| NYMEX PLATINUM             | 0                          | 0                          | 0.0%  | 339,545          | 574,823          | -40.93%   | 0                            | 0                            | 0.0%  | 2,379,325          | 2,681,649             | -11.3%   |
| PALLADIUM                  | 0                          | 0                          | 0.0%  | 21,839           | 72,345           | -69.81%   | 0                            | 0                            | 0.0%  | 415,103            | 648,057               | -35.9%   |
| SILVER                     | 0                          | 0                          | 0.0%  | 114,049          | 18,580           | 513.83%   | 0                            | 0                            | 0.0%  | 359,765            | 95,506                | 276.7%   |
| URANIUM                    | 0                          | 0                          | 0.0%  | 18               | 34               | -47.06%   | 0                            | 0                            | 0.0%  | 54                 | 395                   | -86.3%   |

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## CME Group Exchange Volume Comparison Report - Monthly

|                             | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG    | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|-----------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Metals Options</b>       |                            |                            |       |                  |                  |          |                              |                              |       |                    |                       |          |
| ALUMINUM                    | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| COMEX COPPER                | 0                          | 0                          | 0.0%  | 8,412            | 54,532           | -84.57%  | 0                            | 0                            | 0.0%  | 194,991            | 257,220               | -24.2%   |
| COMEX GOLD                  | 0                          | 0                          | 0.0%  | 632,035          | 1,644,829        | -61.57%  | 0                            | 0                            | 0.0%  | 5,913,028          | 5,422,937             | 9.0%     |
| COMEX SILVER                | 0                          | 0                          | 0.0%  | 104,082          | 166,061          | -37.32%  | 0                            | 0                            | 0.0%  | 1,010,408          | 688,932               | 46.7%    |
| COPPER                      | 0                          | 0                          | 0.0%  | 0                | 140              | -100.00% | 0                            | 0                            | 0.0%  | 2,663              | 644                   | 313.5%   |
| GOLD                        | 0                          | 0                          | 0.0%  | 112,364          | 183,332          | -38.71%  | 0                            | 0                            | 0.0%  | 868,044            | 578,212               | 50.1%    |
| HOT ROLLED COIL STEEL CAL   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| HOT ROLLED COIL STEEL PUT   | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| IRON ORE 62 CHINA TSI CALL  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| IRON ORE 62 CHINA TSI PUT O | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NYMEX PLATINUM              | 0                          | 0                          | 0.0%  | 589              | 719              | -18.08%  | 0                            | 0                            | 0.0%  | 3,426              | 8,367                 | -59.1%   |
| PALLADIUM                   | 0                          | 0                          | 0.0%  | 23               | 1,202            | -98.09%  | 0                            | 0                            | 0.0%  | 1,357              | 4,151                 | -67.3%   |
| SILVER                      | 0                          | 0                          | 0.0%  | 6,539            | 6,266            | 4.36%    | 0                            | 0                            | 0.0%  | 58,992             | 24,387                | 141.9%   |
| <b>Energy Futures</b>       |                            |                            |       |                  |                  |          |                              |                              |       |                    |                       |          |
| 3.5% FUEL OIL CID MED SWA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| 3.5% FUEL OIL CIF BALMO S   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| AEP-DAYTON HUB DAILY        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| AEP-DAYTON HUB MTHLY        | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| AEP-DAYTON HUB OFF-PEAK     | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ALGONQUIN CITYGATES BASI    | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ANR OKLAHOMA                | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ARGUS LLS VS. WTI (ARG) T   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ARGUS PROPAN FAR EST IND    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| ARGUS PROPAN(SAUDI ARAM     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| AUSTRIALIAN COKE COAL       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| BRENT BALMO SWAP            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| BRENT CALENDAR SWAP         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| BRENT CFD SWAP              | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| BRENT FINANCIAL FUTURES     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| BRENT OIL LAST DAY          | 0                          | 0                          | 0.0%  | 1,916,673        | 2,447,372        | -21.68%  | 0                            | 0                            | 0.0%  | 16,496,146         | 12,761,178            | 29.3%    |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG    | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D 2019 | % CHG   |
|----------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|--------------------|---------|
| <b>Energy Futures</b>      |                            |                            |       |                  |                  |          |                              |                              |       |                    |                    |         |
| CANADIAN LIGHT SWEET OIL   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%    |
| CENTERPOINT BASIS SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| CHICAGO ETHANOL SWAP       | 0                          | 0                          | 0.0%  | 7                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 177                | 474                | -62.7%  |
| CHICAGO ULSD PL VS HO SPR  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| CHICAGO UNL GAS PL VS RBO  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| CIG BASIS                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| CINERGY HUB OFF-PEAK MON   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| CINERGY HUB PEAK MONTH     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| CIN HUB 5MW D AH O PK      | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%    |
| CIN HUB 5MW D AH PK        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| CIN HUB 5MW REAL TIME O P  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| CIN HUB 5MW REAL TIME PK   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| COAL SWAP                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| COLUMB GULF MAINLINE NG B  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| CONWAY NATURAL GASOLINE    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| CONWAY NORMAL BUTANE (O    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| CONWAY PROPANE 5 DECIMA    | 0                          | 0                          | 0.0%  | 0                | 33               | -100.00% | 0                            | 0                            | 0.0%  | 60                 | 123                | -51.2%  |
| CRUDE OIL                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| CRUDE OIL LAST DAY         | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                  | -       |
| CRUDE OIL OUTRIGHTS        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 50                 | -100.0% |
| CRUDE OIL PHY              | 0                          | 0                          | 0.0%  | 18,830,836       | 22,993,553       | -18.10%  | 0                            | 0                            | 0.0%  | 171,247,541        | 149,211,581        | 14.8%   |
| CRUDE OIL SPRDS            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| CRUDE OIL TRADE AT MARKE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| DAILY PJM                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| DATED BRENT (PLATTS) DAILY | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                  | -       |
| DATED TO FRONTLINE BRENT   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| DIESEL 10P BRG FOB RDM VS  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%    |
| DOMINION TRAN INC - APP I  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| DOMINION TRANSMISSION INC  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| DUBAI CRUDE OIL BALMO      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| DUBAI CRUDE OIL CALENDAR   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |
| DUTCH TTF NATURAL GAS CA   | 0                          | 0                          | 0.0%  | 35,047           | 4,217            | 731.09%  | 0                            | 0                            | 0.0%  | 198,029            | 41,877             | 372.9%  |
| EASTERN RAIL DELIVERY CSX  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%    |
| EAST/WEST FUEL OIL SPREAD  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%    |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG   | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D 2019 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |         |                              |                              |       |                    |                    |          |
| EIA FLAT TAX ONHWAY DIESE | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 6                  | 0                  | 0.0%     |
| ELEC ERCOT DLY OFF PK     | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| ELEC ERCOT DLY PEAK       | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| ELEC ERCOT OFF PEAK       | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| ELEC FINSETTLED           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ELEC MISO PEAK            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ELEC NYISO OFF-PEAK       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ELECTRICITY OFF PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ERCOT HOUSTON Z MCPE 5M   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| ERCOT NORTH ZMCPE 5MW O   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| ERCOT NORTH ZMCPE 5MW O   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| ERCOT NORTH ZMCPE 5MW P   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| ETHANOL                   | 0                          | 0                          | 0.0%  | 577              | 6,917            | -91.66% | 0                            | 0                            | 0.0%  | 11,701             | 56,110             | -79.1%   |
| ETHANOL SWAP              | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ETHANOL T2 FOB ROTT INCL  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EURO 1% FUEL OIL NEW BALM | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EURO 3.5% FUEL OIL RDAM B | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EURO 3.5% FUEL OIL SPREAD | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EURO-DENOMINATED PETRO    | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| EURO GASOIL 10PPM VS ICE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EUROPE 1% FUEL OIL NWE CA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EUROPE 1% FUEL OIL RDAM C | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EUROPE 3.5% FUEL OIL MED  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EUROPE 3.5% FUEL OIL RDAM | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EUROPEAN GASOIL (ICE)     | 0                          | 0                          | 0.0%  | 2                | 156              | -98.72% | 0                            | 0                            | 0.0%  | 286                | 632                | -54.7%   |
| EUROPEAN NAPHTHA BALMO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EUROPEAN NAPHTHA CRACK S  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EUROPE DATED BRENT SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EUROPE JET KERO NWE CALS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EUROPE NAPHTHA CALSWAP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| EURO PROPANE CIF ARA SW   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| FREIGHT MARKETS           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| FUEL OIL CRACK VS ICE     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| FUEL OIL NWE CRACK VS ICE | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG    | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D 2019 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |          |                              |                              |       |                    |                    |          |
| FUEL OIL (PLATS) CAR CM   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| FUEL OIL (PLATS) CAR CN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| FUELOIL SWAP:CARGOES VS.  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GAS EURO-BOB OXY NWE BA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GAS EURO-BOB OXY NWE BA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GASOIL 0.1CIF MED VS ICE  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| GASOIL 0.1 CIF NWE VS ISE | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GASOIL 0.1 RDAM BRGS VS I | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GASOIL 0.1 ROTTERDAM BAR  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GASOIL 10PPM VS ICE SWAP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GASOIL CALENDAR SWAP      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GASOIL CRACK SPREAD CALE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GASOIL MINI CALENDAR SWA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GERMAN POWER BASELOAD     | 0                          | 0                          | 0.0%  | 0                | 867              | -100.00% | 0                            | 0                            | 0.0%  | 8,776              | 12,292             | -28.6%   |
| GROUP THREE ULSD (PLATTS) | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GROUP THREE UNLEAD GAS (  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GRP THREE ULSD(PLT)VS HEA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GRP THREE UNL GS (PLT) VS | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GULF COAST 3% FUEL OIL BA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GULF COAST JET FUEL CLNDR | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GULF COAST JET VS NYM 2 H | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GULF COAST NO.6 FUEL OIL  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GULF COAST ULSD CALEND    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| GULF COAST ULSD CRACK SP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| HEATING OIL BALMO CLNDR S | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| HEATING OIL CRCK SPRD BAL | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| HEATING OIL PHY           | 0                          | 0                          | 0.0%  | 2,633,740        | 3,153,869        | -16.49%  | 0                            | 0                            | 0.0%  | 23,620,496         | 18,829,488         | 25.4%    |
| HENRY HUB BASIS SWAP      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| HENRY HUB FINANCIAL LAST  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| HENRY HUB INDEX SWAP FUT  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| HENRY HUB SWAP            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 670                | 122                | 449.2%   |
| HOUSTON SHIP CHANNEL BAS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| HTG OIL                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ICE BRENT DUBAI SWAP      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                              | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG   | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D 2019 | %<br>CHG |
|------------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|--------------------|----------|
| <b>Energy Futures</b>        |                            |                            |       |                  |                  |         |                              |                              |       |                    |                    |          |
| IN DELIVERY MONTH EUA        | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| INDIANA MISO                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| INDONESIAN COAL ICI4         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ISO NEW ENGLAND OFF-PEAK     | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| ISO NEW ENGLAND PK LMP       | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| JAPAN C&F NAPHTHA CRACK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| JAPAN C&F NAPHTHA SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| JAPAN NAPHTHA BALMO SWA      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| JET AV FUEL (P) CAR FM ICE G | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| JET CIF NWE VS ICE           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| JET FUEL CRG CIF NEW VS I    | 0                          | -                          | -     | 0                | -                |         | 0                            | -                            | -     | 0                  | -                  | -        |
| JET FUEL UP-DOWN BALMO C     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| JKM LNG Futures              | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| LA CARB DIESEL (OPIS) SWA    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| LA CARBOB GASOLINE(OPIS)S    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| LA JET (OPIS) SWAP           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| LLS (ARGUS) CALENDAR SWA     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| LLS (ARGUS) VS WTI SWAP      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| LOS ANGELES CARB GASOLIN     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| LTD NAT GAS                  | 0                          | 0                          | 0.0%  | 135,355          | 161,160          | -16.01% | 0                            | 0                            | 0.0%  | 977,666            | 973,662            | 0.4%     |
| MARS (ARGUS) VS WTI SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MARS (ARGUS) VS WTI TRD M    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 480                | -100.0%  |
| MARS BLEND CRUDE OIL         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MCCLOSKEY ARA ARGS COAL      | 0                          | 0                          | 0.0%  | 326              | 1,622            | -79.90% | 0                            | 0                            | 0.0%  | 5,293              | 3,843              | 37.7%    |
| MCCLOSKEY RCH BAY COAL       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 15                 | 0                  | 0.0%     |
| MGF FUT                      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MGN1 SWAP FUT                | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MICHIGAN BASIS               | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MICHIGAN MISO                | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MINI GAS EUROBOB OXY NWE     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MINI RBOB V. EBOBARG NWE     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MINI RBOB V. EBOB(ARGUS) N   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| MINY HTG OIL                 | 0                          | 0                          | 0.0%  | 5                | 3                | 66.67%  | 0                            | 0                            | 0.0%  | 26                 | 20                 | 30.0%    |
| MINY NATURAL GAS             | 0                          | 0                          | 0.0%  | 129,423          | 27,384           | 372.62% | 0                            | 0                            | 0.0%  | 592,717            | 157,706            | 275.8%   |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG   | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |         |                              |                              |       |                    |                       |          |
| MINY RBOB GAS             | 0                          | 0                          | 0.0%  | 6                | 7                | -14.29% | 0                            | 0                            | 0.0%  | 44                 | 37                    | 18.9%    |
| MINY WTI CRUDE OIL        | 0                          | 0                          | 0.0%  | 449,670          | 590,831          | -23.89% | 0                            | 0                            | 0.0%  | 5,266,702          | 2,658,389             | 98.1%    |
| MJC FUT                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MNC FUT                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU ETHANE 5 DEC | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU ETHANE OPIS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU LDH PROPANE  | 0                          | 0                          | 0.0%  | 38               | 32               | 18.75%  | 0                            | 0                            | 0.0%  | 140                | 72                    | 94.4%    |
| MONT BELVIEU LDH PROPANE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NATURAL GAS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NATURAL GAS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NORMAL BUTA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MONT BELVIEU NORMAL BUTA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NAT GAS BASIS SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS               | 0                          | 0                          | 0.0%  | 42,737           | 43,974           | -2.81%  | 0                            | 0                            | 0.0%  | 293,300            | 242,414               | 21.0%    |
| NATURAL GAS PEN SWP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS PHY           | 0                          | 0                          | 0.0%  | 9,468,382        | 8,017,084        | 18.10%  | 0                            | 0                            | 0.0%  | 64,888,912         | 43,342,918            | 49.7%    |
| NEPOOL CNCTCT 5MW D AH O  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NEPOOL CONECTIC 5MW D AH  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NEPOOL INTR HUB 5MW D AH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL NE MASS 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL NE MASS 5MW D AH   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEPOOL RHD ISLD 5MW D AH  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NEPOOL RHODE IL 5MW D AH  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NEPOOL W CNT MASS 5MW D   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NEPOOL W CNTR M 5MW D AH  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NEW ENGLAND HUB PEAK DAI  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEW YORK ETHANOL SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEW YORK HUB ZONE G PEAK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NEW YORK HUB ZONE J PEAK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NGPL MID-CONTINENT        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NGPL TEX/OK               | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| N ILLINOIS HUB DAILY      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| N ILLINOIS HUB MTHLY      | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| NO 2 UP-DOWN SPREAD CALE  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG   | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D 2019 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |         |                              |                              |       |                    |                    |          |
| NORTEN NATURAL GAS DEM    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NORTEN NATURAL GAS VEN    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NORTHWEST ROCKIES BASIS   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| N ROCKIES PIPE SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY1% VS GC SPREAD SWAP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY 3.0% FUEL OIL (PLATTS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY HARBOR 1% FUEL OIL BAL | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY HARBOR HEAT OIL SWP    | 0                          | 0                          | 0.0%  | 1                | 4                | -75.00% | 0                            | 0                            | 0.0%  | 17                 | 4                  | 325.0%   |
| NY HARBOR LOW SULPUR GA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY HARBOR RESIDUAL FUEL 1 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY HARBOR RESIDUAL FUEL   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYH NO 2 CRACK SPREAD CA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO CAPACITY            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO J                   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| NYISO J OFF-PEAK          | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| NYISO ZONE A 5MW D AH O P | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO ZONE A 5MW D AH PK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO ZONE G 5MW D AH O P | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO ZONE G 5MW D AH PK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO ZONE J 5MW D AH O P | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYISO ZONE J 5MW D AH PK  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYMEX ALUMINUM FUTURES    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NYMEX ULSD VS NYMEX HO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| NY ULSD (ARGUS) VS HEATIN | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ONEOK OKLAHOMA NG BASIS   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| ONTARIO POWER SWAPS       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PANHANDLE BASIS SWAP FUT  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PANHANDLE PIPE SWAP       | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| PERMIAN BASIS SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PETROCHEMICALS            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PETRO CRCKS & SPRDS ASIA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PETRO CRCKS & SPRDS NA    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PETRO CRK&SPRD EURO       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PETROLEUM PRODUCTS        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D 2019 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |       |                              |                              |       |                    |                    |          |
| PETROLEUM PRODUCTS ASIA   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PETRO OUTRIGHT EURO       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PETRO OUTRIGHT NA         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM AD HUB 5MW REAL TIME  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM ATSI ELEC             | -                          | 0                          | 0.0%  | -                | 0                | 0.00% | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| PJM BGE DA OFF-PEAK       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM BGE DA PEAK           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM COMED 5MW D AH O PK   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM COMED 5MW D AH PK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM DAILY                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM DAYTON DA OFF-PEAK    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM DAYTON DA PEAK        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM MONTHLY               | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM NI HUB 5MW REAL TIME  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM NILL DA OFF-PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM NILL DA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM OFF-PEAK LMP SWAP FU  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM PECO ZONE5MW PEAK C   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM PSEG DA OFF-PEAK      | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM PSEG DA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM WESTH DA OFF-PEAK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM WESTHDA PEAK          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM WESTH RT OFF-PEAK     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PJM WESTH RT PEAK         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PLASTICS                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PREMIUM UNLD 10P FOB MED  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PREMIUM UNLEAD 10PPM FOB  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PREM UNL GAS 10PPM RDAM   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PREM UNL GAS 10PPM RDAM   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PROPANE NON-LDH MB (OPIS) | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| PROPANE NON-LDH MT. BEL ( | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| RBOB CALENDAR SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| RBOB CRACK SPREAD         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| RBOB CRACK SPREAD BALMO   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00% | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG   | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |         |                              |                              |       |                    |                       |          |
| RBOB GAS                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB GASOLINE BALMO CLNC  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB PHY                  | 0                          | 0                          | 0.0%  | 3,337,275        | 4,047,757        | -17.55% | 0                            | 0                            | 0.0%  | 24,620,588         | 25,371,842            | -3.0%    |
| RBOB SPREAD (PLATTS) SWA  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| RBOB VS HEATING OIL SWAP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SAN JUAN BASIS SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SAN JUAN PIPE SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE 180CST BALMO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE 380CST BALMO    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE 380CST FUEL OIL | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE FUEL 180CST CAL | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE FUEL OIL SPREA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE GASOIL          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE GASOIL CALEND   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE GASOIL SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE GASOIL VS ICE   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE JET KERO BALMO  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE JET KERO GASOI  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE JET KEROSENE S  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE JET KERO VS. GA | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| SINGAPORE MOGAS 92 UNLEA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE MOGAS 92 UNLEA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SINGAPORE NAPHTHA SWAP    | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| SING FUEL                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| SOUTH STAR TEX OKLHM KNS  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| Sumas Basis Swap          | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TC2 ROTTERDAM TO USAC 37  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TC5 RAS TANURA TO YOKOHA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TCO BASIS SWAP            | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TD3 MEG TO JAPAN 250K MT  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TENNESSEE ZONE 0 BASIS S  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| Tetco STX Basis           | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| TEXAS EASTERN ZONE M-3 BA | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| TEXAS GAS ZONE1 NG BASIS  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%   | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG    | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D 2019 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |       |                  |                  |          |                              |                              |       |                    |                    |          |
| Transco Zone 3 Basis      | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| TRANSCO ZONE4 BASIS SWAP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| TRANSCO ZONE 6 BASIS SWA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| UCM FUT                   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| UK NBP NAT GAS CAL MTH FU | 0                          | 0                          | 0.0%  | 135              | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 1,729              | 3,149              | -45.1%   |
| ULSD 10PPM CIF MED VS ICE | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| ULSD UP-DOWN BALMO SWP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| UP DOWN GC ULSD VS NMX H  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| WAHA BASIS                | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| WESTERN RAIL DELIVERY PR  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| WTI-BRENT BULLET SWAP     | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| WTI-BRENT CALENDAR SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| WTI CALENDAR              | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| WTI MIDLAND CRUDE OIL     | 0                          | -                          | -     | 0                | -                | -        | 0                            | -                            | -     | 0                  | -                  | -        |
| WTS (ARGUS) VS WTI SWAP   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| WTS (ARGUS) VS WTI TRD MT | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| <b>Energy Options</b>     |                            |                            |       |                  |                  |          |                              |                              |       |                    |                    |          |
| BRENT 1 MONTH CAL         | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| BRENT CALENDAR SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| BRENT CRUDE OIL 12 M CSO  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| BRENT CRUDE OIL 1 M CSO   | 0                          | 0                          | 0.0%  | 0                | 1,500            | -100.00% | 0                            | 0                            | 0.0%  | 0                  | 1,800              | -100.0%  |
| BRENT CRUDE OIL 6 M CSO   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| BRENT OIL LAST DAY        | 0                          | 0                          | 0.0%  | 2,815            | 59,627           | -95.28%  | 0                            | 0                            | 0.0%  | 111,144            | 414,489            | -73.2%   |
| COAL API2 INDEX           | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| COAL API4 INDEX           | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| COAL SWAP                 | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                  | 0.0%     |
| CRUDE OIL                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| CRUDE OIL 1MO             | 0                          | 0                          | 0.0%  | 2,200            | 9,800            | -77.55%  | 0                            | 0                            | 0.0%  | 55,471             | 44,161             | 25.6%    |
| CRUDE OIL APO             | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 3                  | 3                  | 0.0%     |
| CRUDE OIL CALNDR STRIP    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |
| CRUDE OIL OUTRIGHTS       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG    | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>Energy Options</b>     |                            |                            |       |                  |                  |          |                              |                              |       |                    |                       |          |
| CRUDE OIL PHY             | 0                          | 0                          | 0.0%  | 1,779,361        | 2,940,661        | -39.49%  | 0                            | 0                            | 0.0%  | 15,504,652         | 14,218,935            | 9.0%     |
| ETHANOL                   | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| ETHANOL SWAP              | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| FREIGHT MARKETS           | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| HEATING OIL PHY           | 0                          | 0                          | 0.0%  | 854              | 5,192            | -83.55%  | 0                            | 0                            | 0.0%  | 23,120             | 26,374                | -12.3%   |
| HENRY HUB FINANCIAL LAST  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 20                 | 0                     | 0.0%     |
| HO 1 MONTH CLNDR OPTIONS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| LLS CRUDE OIL             | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MCCLOSKEY ARA ARGS COAL   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| MCCLOSKEY RCH BAY COAL    | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS 1 M CSO FIN   | 0                          | 0                          | 0.0%  | 100              | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 2,501              | 2,870                 | -12.9%   |
| NATURAL GAS 2 M CSO FIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS 3 M CSO FIN   | 0                          | 0                          | 0.0%  | 300              | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 300                | 0                     | 0.0%     |
| NATURAL GAS 5 M CSO FIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS 6 M CSO FIN   | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS OPT           | 0                          | -                          | -     | 0                | -                |          | 0                            | -                            | -     | 0                  | -                     | -        |
| NATURAL GAS OPTION ON CA  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NATURAL GAS PHY           | 0                          | 0                          | 0.0%  | 1,062,711        | 943,200          | 12.67%   | 0                            | 0                            | 0.0%  | 8,658,148          | 5,184,541             | 67.0%    |
| NATURAL GAS WINTER STRIP  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| N ROCKIES PIPE SWAP       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| NY HARBOR HEAT OIL SWP    | 0                          | 0                          | 0.0%  | 111              | 41               | 170.73%  | 0                            | 0                            | 0.0%  | 640                | 252                   | 154.0%   |
| NYISO ZONE G 5MW PEAK OP  | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PANHANDLE PIPE SWAP       | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| PETROCHEMICALS            | 0                          | 0                          | 0.0%  | 0                | 1                | -100.00% | 0                            | 0                            | 0.0%  | 11                 | 11                    | 0.0%     |
| PETRO OUTRIGHT EURO       | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PETRO OUTRIGHT NA         | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WES HUB PEAK CAL MTH  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| PJM WES HUB PEAK LMP 50M  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB 1MO CAL SPD OPTIONS  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB CALENDAR SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB CRACK                | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |
| RBOB PHY                  | 0                          | 0                          | 0.0%  | 2,408            | 4,358            | -44.75%  | 0                            | 0                            | 0.0%  | 17,036             | 22,107                | -22.9%   |
| ROTTERDAM 3.5%FUEL OIL CL | -                          | 0                          | 0.0%  | -                | 0                | 0.00%    | -                            | 0                            | 0.0%  | -                  | 0                     | 0.0%     |
| SAN JUAN PIPE SWAP        | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%  | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                          | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG   | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG    | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG   | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|--------------------------|----------------------------|----------------------------|---------|------------------|------------------|----------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Energy Options</b>    |                            |                            |         |                  |                  |          |                              |                              |         |                    |                       |          |
| SHORT TERM               | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 43                    | -100.0%  |
| SHORT TERM NATURAL GAS   | 0                          | 0                          | 0.0%    | 0                | 5                | -100.00% | 0                            | 0                            | 0.0%    | 0                  | 84                    | -100.0%  |
| SINGAPORE GASOIL CALEND  | -                          | 0                          | 0.0%    | -                | 0                | 0.00%    | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| SINGAPORE JET FUEL CALEN | -                          | 0                          | 0.0%    | -                | 0                | 0.00%    | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| WTI-BRENT BULLET SWAP    | 0                          | 0                          | 0.0%    | 1,550            | 1,250            | 24.00%   | 0                            | 0                            | 0.0%    | 11,660             | 27,805                | -58.1%   |
| WTI CRUDE OIL 1 M CSO FI | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 8,600                 | -100.0%  |
| <b>FX Futures</b>        |                            |                            |         |                  |                  |          |                              |                              |         |                    |                       |          |
| AD/CD CROSS RATES        | 0                          | 0                          | 0.0%    | 1                | 2                | -50.00%  | 0                            | 0                            | 0.0%    | 76                 | 104                   | -26.9%   |
| AD/JY CROSS RATES        | 0                          | 0                          | 0.0%    | 5,396            | 3,531            | 52.82%   | 0                            | 0                            | 0.0%    | 19,164             | 17,789                | 7.7%     |
| AD/NE CROSS RATES        | 0                          | 0                          | 0.0%    | 212              | 130              | 63.08%   | 0                            | 0                            | 0.0%    | 1,989              | 508                   | 291.5%   |
| AUSTRALIAN DOLLAR        | 0                          | 0                          | 0.0%    | 2,615,203        | 2,534,270        | 3.19%    | 0                            | 0                            | 0.0%    | 13,469,796         | 13,146,796            | 2.5%     |
| BP/JY CROSS RATES        | 0                          | 0                          | 0.0%    | 4,208            | 3,846            | 9.41%    | 0                            | 0                            | 0.0%    | 22,796             | 15,123                | 50.7%    |
| BP/SF CROSS RATES        | 0                          | 0                          | 0.0%    | 685              | 350              | 95.71%   | 0                            | 0                            | 0.0%    | 3,029              | 2,374                 | 27.6%    |
| BRAZIL REAL              | 0                          | 0                          | 0.0%    | 224,195          | 142,891          | 56.90%   | 0                            | 0                            | 0.0%    | 1,147,580          | 675,466               | 69.9%    |
| BRITISH POUND            | 0                          | 0                          | 0.0%    | 2,583,268        | 2,375,576        | 8.74%    | 0                            | 0                            | 0.0%    | 13,281,663         | 14,480,037            | -8.3%    |
| CANADIAN DOLLAR          | 0                          | 0                          | 0.0%    | 1,767,365        | 1,922,067        | -8.05%   | 0                            | 3                            | -100.0% | 10,102,039         | 9,818,521             | 2.9%     |
| CD/JY CROSS RATES        | 0                          | 0                          | 0.0%    | 46               | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 350                | 119                   | 194.1%   |
| CHINESE RENMINBI (CNH)   | 0                          | 0                          | 0.0%    | 17,407           | 28,773           | -39.50%  | 0                            | 0                            | 0.0%    | 111,141            | 155,520               | -28.5%   |
| CZECK KORUNA (EC)        | 0                          | 0                          | 0.0%    | 7                | 8                | -12.50%  | 0                            | 0                            | 0.0%    | 21                 | 18                    | 16.7%    |
| CZECK KORUNA (US)        | -                          | 0                          | 0.0%    | -                | 0                | 0.00%    | -                            | 0                            | 0.0%    | -                  | 0                     | 0.0%     |
| EC/AD CROSS RATES        | 0                          | 0                          | 0.0%    | 10,495           | 12,053           | -12.93%  | 0                            | 0                            | 0.0%    | 42,308             | 29,306                | 44.4%    |
| EC/CD CROSS RATES        | 0                          | 0                          | 0.0%    | 9,256            | 7,446            | 24.31%   | 0                            | 0                            | 0.0%    | 29,082             | 19,760                | 47.2%    |
| EC/NOK CROSS RATES       | 0                          | 0                          | 0.0%    | 94               | 724              | -87.02%  | 0                            | 0                            | 0.0%    | 1,385              | 2,946                 | -53.0%   |
| EC/SEK CROSS RATES       | 0                          | 0                          | 0.0%    | 1,443            | 1,766            | -18.29%  | 0                            | 0                            | 0.0%    | 4,348              | 4,121                 | 5.5%     |
| EFX/BP CROSS RATES       | 0                          | 0                          | 0.0%    | 102,703          | 125,789          | -18.35%  | 0                            | 0                            | 0.0%    | 462,412            | 547,521               | -15.5%   |
| EFX/JY CROSS RATES       | 0                          | 0                          | 0.0%    | 100,813          | 103,005          | -2.13%   | 0                            | 0                            | 0.0%    | 423,212            | 387,892               | 9.1%     |
| EFX/SF CROSS RATES       | 0                          | 0                          | 0.0%    | 57,898           | 58,651           | -1.28%   | 0                            | 0                            | 0.0%    | 273,529            | 201,125               | 36.0%    |
| E-MINI EURO FX           | 0                          | 0                          | 0.0%    | 183,404          | 144,618          | 26.82%   | 0                            | 0                            | 0.0%    | 894,907            | 602,719               | 48.5%    |
| E-MINI JAPANESE YEN      | 0                          | 0                          | 0.0%    | 22,693           | 9,903            | 129.15%  | 0                            | 0                            | 0.0%    | 167,944            | 63,101                | 166.2%   |
| EURO FX                  | 0                          | 3                          | -100.0% | 5,577,033        | 5,563,264        | 0.25%    | 36                           | 42                           | -14.3%  | 27,402,634         | 26,206,287            | 4.6%     |

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

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## CME Group Exchange Volume Comparison Report - Monthly

|                         | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG     | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|-------------------------|----------------------------|----------------------------|-------|------------------|------------------|-----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| <b>FX Futures</b>       |                            |                            |       |                  |                  |           |                              |                              |       |                    |                       |          |
| HUNGARIAN FORINT (EC)   | 0                          | 0                          | 0.0%  | 1                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 9                  | 0                     | 0.0%     |
| HUNGARIAN FORINT (US)   | 0                          | 0                          | 0.0%  | 6                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 67                 | 8                     | 737.5%   |
| INDIAN RUPEE            | 0                          | 0                          | 0.0%  | 32,201           | 61,878           | -47.96%   | 0                            | 0                            | 0.0%  | 164,106            | 414,559               | -60.4%   |
| JAPANESE YEN            | 0                          | 0                          | 0.0%  | 2,348,670        | 3,156,837        | -25.60%   | 0                            | 0                            | 0.0%  | 16,692,562         | 16,054,435            | 4.0%     |
| KOREAN WON              | 0                          | 0                          | 0.0%  | 792              | 429              | 84.62%    | 0                            | 0                            | 0.0%  | 3,765              | 1,488                 | 153.0%   |
| MEXICAN PESO            | 0                          | 0                          | 0.0%  | 1,337,338        | 1,636,529        | -18.28%   | 0                            | 0                            | 0.0%  | 7,537,879          | 8,062,534             | -6.5%    |
| MICRO AUD/USD           | 0                          | 0                          | 0.0%  | 396,225          | 84,530           | 368.74%   | 0                            | 0                            | 0.0%  | 1,484,537          | 695,440               | 113.5%   |
| MICRO CAD/USD           | 0                          | 0                          | 0.0%  | 27,585           | 19,231           | 43.44%    | 0                            | 0                            | 0.0%  | 151,541            | 101,076               | 49.9%    |
| MICRO CHF/USD           | 0                          | 0                          | 0.0%  | 3,044            | 2,720            | 11.91%    | 0                            | 0                            | 0.0%  | 20,016             | 11,689                | 71.2%    |
| MICRO EUR/USD           | 0                          | 0                          | 0.0%  | 571,904          | 259,691          | 120.22%   | 0                            | 0                            | 0.0%  | 2,494,663          | 1,515,470             | 64.6%    |
| MICRO GBP/USD           | 0                          | 0                          | 0.0%  | 73,542           | 31,001           | 137.22%   | 0                            | 0                            | 0.0%  | 331,504            | 255,902               | 29.5%    |
| MICRO INR/USD           | 0                          | 0                          | 0.0%  | 1,929            | 3,555            | -45.74%   | 0                            | 0                            | 0.0%  | 14,903             | 27,707                | -46.2%   |
| MICRO JPY/USD           | 0                          | 0                          | 0.0%  | 33,601           | 27,801           | 20.86%    | 0                            | 0                            | 0.0%  | 193,697            | 168,077               | 15.2%    |
| NEW ZEALND DOLLAR       | 0                          | 0                          | 0.0%  | 728,536          | 724,972          | 0.49%     | 0                            | 0                            | 0.0%  | 3,858,800          | 3,580,671             | 7.8%     |
| NKR/USD CROSS RATE      | 0                          | 0                          | 0.0%  | 6,745            | 9,058            | -25.54%   | 0                            | 0                            | 0.0%  | 34,163             | 26,061                | 31.1%    |
| POLISH ZLOTY (EC)       | 0                          | 0                          | 0.0%  | 231              | 4                | 5,675.00% | 0                            | 0                            | 0.0%  | 399                | 394                   | 1.3%     |
| POLISH ZLOTY (US)       | 0                          | 0                          | 0.0%  | 1,237            | 129              | 858.91%   | 0                            | 0                            | 0.0%  | 4,168              | 583                   | 614.9%   |
| RMB USD                 | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 3                  | 5                     | -40.0%   |
| RUSSIAN RUBLE           | 0                          | 0                          | 0.0%  | 117,624          | 139,804          | -15.87%   | 0                            | 0                            | 0.0%  | 702,914            | 397,997               | 76.6%    |
| S.AFRICAN RAND          | 0                          | 0                          | 0.0%  | 114,429          | 55,817           | 105.01%   | 0                            | 0                            | 0.0%  | 480,634            | 239,714               | 100.5%   |
| SF/JY CROSS RATES       | 0                          | 0                          | 0.0%  | 55               | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 220                | 7                     | 3,042.9% |
| SHEKEL                  | 0                          | 0                          | 0.0%  | 2                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 92                 | 0                     | 0.0%     |
| SKR/USD CROSS RATES     | 0                          | 0                          | 0.0%  | 6,128            | 4,308            | 42.25%    | 0                            | 0                            | 0.0%  | 25,005             | 15,828                | 58.0%    |
| SWISS FRANC             | 0                          | 0                          | 0.0%  | 575,407          | 802,112          | -28.26%   | 0                            | 0                            | 0.0%  | 3,743,364          | 3,325,829             | 12.6%    |
| TURKISH LIRA            | 0                          | 0                          | 0.0%  | 0                | 8                | -100.00%  | 0                            | 0                            | 0.0%  | 18                 | 16                    | 12.5%    |
| USDZAR                  | 0                          | 0                          | 0.0%  | 0                | 0                | 0.00%     | 0                            | 0                            | 0.0%  | 0                  | 20                    | -100.0%  |
| <b>FX Options</b>       |                            |                            |       |                  |                  |           |                              |                              |       |                    |                       |          |
| AUD/USD MONDAY OPTION W | 0                          | -                          | -     | 315              | -                |           | 0                            | -                            | -     | 2,266              | -                     | -        |
| AUD/USD MONDAY OPTION W | 0                          | -                          | -     | 59               | -                |           | 0                            | -                            | -     | 1,086              | -                     | -        |
| AUD/USD MONDAY OPTION W | 0                          | -                          | -     | 580              | -                |           | 0                            | -                            | -     | 1,386              | -                     | -        |
| AUD/USD MONDAY OPTION W | 0                          | -                          | -     | 623              | -                |           | 0                            | -                            | -     | 803                | -                     | -        |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG   | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG      | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG  | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|---------|------------------|------------------|------------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| <b>FX Options</b>         |                            |                            |         |                  |                  |            |                              |                              |        |                    |                       |          |
| AUD/USD MONDAY OPTION W   | 0                          | -                          | -       | 606              | -                |            | 0                            | -                            | -      | 709                | -                     | -        |
| AUD/USD MONTHLY OPTIONS   | 0                          | 0                          | 0.0%    | 55,924           | 59,075           | -5.33%     | 0                            | 0                            | 0.0%   | 526,642            | 423,616               | 24.3%    |
| AUD/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%      | 0                            | 0                            | 0.0%   | 3,153              | 8,103                 | -61.1%   |
| AUD/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 5,673            | 7,512            | -24.48%    | 0                            | 0                            | 0.0%   | 32,645             | 40,937                | -20.3%   |
| AUD/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 3,668            | 6,951            | -47.23%    | 0                            | 0                            | 0.0%   | 26,526             | 41,618                | -36.3%   |
| AUD/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 4,314            | 5,763            | -25.14%    | 0                            | 0                            | 0.0%   | 28,305             | 48,224                | -41.3%   |
| AUD/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 190              | 0                | 0.00%      | 0                            | 0                            | 0.0%   | 10,737             | 12,708                | -15.5%   |
| AUD/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 765              | 1,768            | -56.73%    | 0                            | 0                            | 0.0%   | 9,171              | 11,351                | -19.2%   |
| AUD/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 3,012            | 1,646            | 82.99%     | 0                            | 0                            | 0.0%   | 11,079             | 12,325                | -10.1%   |
| AUD/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 857              | 164              | 422.56%    | 0                            | 0                            | 0.0%   | 6,927              | 5,333                 | 29.9%    |
| AUD/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 1,077            | 954              | 12.89%     | 0                            | 0                            | 0.0%   | 10,457             | 7,663                 | 36.5%    |
| AUD/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%      | 0                            | 0                            | 0.0%   | 3,619              | 2,012                 | 79.9%    |
| BRITISH POUND (EU)        | -                          | 0                          | 0.0%    | -                | 0                | 0.00%      | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| BRL/USD MONTHLY OPTIONS   | 0                          | 0                          | 0.0%    | 323              | 2                | 16,050.00% | 0                            | 0                            | 0.0%   | 663                | 56                    | 1,083.9% |
| CAD/USD MONDAY OPTIONS    | 0                          | -                          | -       | 90               | -                |            | 0                            | -                            | -      | 1,740              | -                     | -        |
| CAD/USD MONDAY OPTIONS    | 0                          | -                          | -       | 304              | -                |            | 0                            | -                            | -      | 406                | -                     | -        |
| CAD/USD MONDAY OPTIONS    | 0                          | -                          | -       | 1,389            | -                |            | 0                            | -                            | -      | 2,009              | -                     | -        |
| CAD/USD MONDAY OPTIONS    | 0                          | -                          | -       | 1,142            | -                |            | 0                            | -                            | -      | 1,388              | -                     | -        |
| CAD/USD MONDAY OPTIONS    | 0                          | -                          | -       | 759              | -                |            | 0                            | -                            | -      | 861                | -                     | -        |
| CAD/USD MONTHLY OPTIONS   | 0                          | 236                        | -100.0% | 61,400           | 49,716           | 23.50%     | 430                          | 817                          | -47.4% | 333,698            | 338,252               | -1.3%    |
| CAD/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%      | 0                            | 0                            | 0.0%   | 6,030              | 18,330                | -67.1%   |
| CAD/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 12,048           | 10,908           | 10.45%     | 0                            | 0                            | 0.0%   | 42,589             | 45,487                | -6.4%    |
| CAD/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 6,476            | 9,225            | -29.80%    | 0                            | 0                            | 0.0%   | 39,201             | 60,859                | -35.6%   |
| CAD/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 8,208            | 10,196           | -19.50%    | 0                            | 0                            | 0.0%   | 44,927             | 66,166                | -32.1%   |
| CAD/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 364              | 0                | 0.00%      | 0                            | 0                            | 0.0%   | 19,447             | 16,590                | 17.2%    |
| CAD/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 4,172            | 4,672            | -10.70%    | 0                            | 0                            | 0.0%   | 15,379             | 19,330                | -20.4%   |
| CAD/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 1,722            | 5,858            | -70.60%    | 0                            | 0                            | 0.0%   | 12,410             | 22,325                | -44.4%   |
| CAD/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 2,745            | 4,217            | -34.91%    | 0                            | 0                            | 0.0%   | 12,598             | 18,802                | -33.0%   |
| CAD/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 1,078            | 3,789            | -71.55%    | 0                            | 0                            | 0.0%   | 15,224             | 18,491                | -17.7%   |
| CAD/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%      | 0                            | 0                            | 0.0%   | 5,417              | 4,671                 | 16.0%    |
| CANADIAN DOLLAR (EU)      | -                          | 0                          | 0.0%    | -                | 0                | 0.00%      | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| CHF/USD MONTHLY OPTIONS   | 0                          | 0                          | 0.0%    | 2,446            | 3,527            | -30.65%    | 0                            | 0                            | 0.0%   | 21,141             | 12,567                | 68.2%    |
| CHF/USD WKLY FRIDAY OPTIO | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%      | 0                            | 0                            | 0.0%   | 37                 | 108                   | -65.7%   |
| CHF/USD WKLY FRIDAY OPTIO | 0                          | 0                          | 0.0%    | 458              | 259              | 76.83%     | 0                            | 0                            | 0.0%   | 1,289              | 1,437                 | -10.3%   |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG   | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG   | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG  | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|---------|------------------|------------------|---------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| <b>FX Options</b>         |                            |                            |         |                  |                  |         |                              |                              |        |                    |                       |          |
| CHF/USD WKLY FRIDAY OPTIO | 0                          | 0                          | 0.0%    | 142              | 713              | -80.08% | 0                            | 0                            | 0.0%   | 834                | 1,347                 | -38.1%   |
| CHF/USD WKLY FRIDAY OPTIO | 0                          | 0                          | 0.0%    | 7                | 58               | -87.93% | 0                            | 0                            | 0.0%   | 749                | 646                   | 15.9%    |
| CHF/USD WKLY FRIDAY OPTIO | 0                          | 0                          | 0.0%    | 50               | 0                | 0.00%   | 0                            | 0                            | 0.0%   | 903                | 604                   | 49.5%    |
| EUR/GBP MONTHLY OPTIONS   | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%   | 0                  | 74                    | -100.0%  |
| EUR/JPY MONTHLY OPTIONS   | -                          | 0                          | 0.0%    | -                | 0                | 0.00%   | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| EURO FX (EU)              | -                          | 0                          | 0.0%    | -                | 0                | 0.00%   | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| EUR/USD MONDAY OPTION W   | 0                          | -                          | -       | 2,999            | -                |         | 0                            | -                            | -      | 6,206              | -                     | -        |
| EUR/USD MONDAY OPTION W   | 0                          | -                          | -       | 1,261            | -                |         | 0                            | -                            | -      | 3,540              | -                     | -        |
| EUR/USD MONDAY OPTION W   | 0                          | -                          | -       | 2,687            | -                |         | 0                            | -                            | -      | 5,949              | -                     | -        |
| EUR/USD MONDAY OPTION W   | 0                          | -                          | -       | 2,914            | -                |         | 0                            | -                            | -      | 6,456              | -                     | -        |
| EUR/USD MONDAY OPTION W   | 0                          | -                          | -       | 3,905            | -                |         | 0                            | -                            | -      | 5,514              | -                     | -        |
| EUR/USD MONTHLY OPTIONS   | 0                          | 567                        | -100.0% | 272,436          | 369,703          | -26.31% | 1,550                        | 7,530                        | -79.4% | 1,920,546          | 2,157,257             | -11.0%   |
| EUR/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%   | 11,073             | 53,630                | -79.4%   |
| EUR/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 26,919           | 36,868           | -26.99% | 62                           | 0                            | 0.0%   | 130,463            | 171,552               | -24.0%   |
| EUR/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 19,178           | 29,461           | -34.90% | 0                            | 0                            | 0.0%   | 132,129            | 185,678               | -28.8%   |
| EUR/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 25,650           | 29,043           | -11.68% | 0                            | 0                            | 0.0%   | 143,624            | 240,999               | -40.4%   |
| EUR/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 217              | 0                | 0.00%   | 0                            | 0                            | 0.0%   | 40,974             | 62,179                | -34.1%   |
| EUR/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 15,467           | 22,824           | -32.23% | 0                            | 0                            | 0.0%   | 61,682             | 70,417                | -12.4%   |
| EUR/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 7,800            | 16,213           | -51.89% | 0                            | 0                            | 0.0%   | 51,364             | 77,508                | -33.7%   |
| EUR/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 11,718           | 14,473           | -19.04% | 0                            | 0                            | 0.0%   | 50,110             | 71,287                | -29.7%   |
| EUR/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 6,055            | 18,061           | -66.47% | 0                            | 0                            | 0.0%   | 43,841             | 80,395                | -45.5%   |
| EUR/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%   | 14,285             | 20,373                | -29.9%   |
| GBP/USD MONDAY OPTION W   | 0                          | -                          | -       | 345              | -                |         | 0                            | -                            | -      | 2,618              | -                     | -        |
| GBP/USD MONDAY OPTION W   | 0                          | -                          | -       | 974              | -                |         | 0                            | -                            | -      | 2,313              | -                     | -        |
| GBP/USD MONDAY OPTION W   | 0                          | -                          | -       | 1,686            | -                |         | 0                            | -                            | -      | 3,893              | -                     | -        |
| GBP/USD MONDAY OPTION W   | 0                          | -                          | -       | 2,336            | -                |         | 0                            | -                            | -      | 4,891              | -                     | -        |
| GBP/USD MONDAY OPTION W   | 0                          | -                          | -       | 761              | -                |         | 0                            | -                            | -      | 1,162              | -                     | -        |
| GBP/USD MONTHLY OPTIONS   | 0                          | 33                         | -100.0% | 82,317           | 66,343           | 24.08%  | 64                           | 732                          | -91.3% | 530,753            | 757,674               | -29.9%   |
| GBP/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%   | 3,267              | 19,765                | -83.5%   |
| GBP/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 4,767            | 4,328            | 10.14%  | 0                            | 0                            | 0.0%   | 23,782             | 39,366                | -39.6%   |
| GBP/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 4,899            | 4,698            | 4.28%   | 0                            | 0                            | 0.0%   | 21,887             | 48,582                | -54.9%   |
| GBP/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 2,645            | 3,261            | -18.89% | 0                            | 0                            | 0.0%   | 23,544             | 45,898                | -48.7%   |
| GBP/USD WKLY FRIDAY OPTIC | 0                          | 0                          | 0.0%    | 480              | 0                | 0.00%   | 0                            | 0                            | 0.0%   | 8,409              | 19,127                | -56.0%   |
| GBP/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 853              | 1,534            | -44.39% | 0                            | 0                            | 0.0%   | 12,339             | 15,972                | -22.7%   |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG   | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG   | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG  | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|---------|------------------|------------------|---------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| <b>FX Options</b>         |                            |                            |         |                  |                  |         |                              |                              |        |                    |                       |          |
| GBP/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 880              | 916              | -3.93%  | 0                            | 0                            | 0.0%   | 6,728              | 17,598                | -61.8%   |
| GBP/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 2,106            | 1,227            | 71.64%  | 0                            | 0                            | 0.0%   | 11,081             | 20,634                | -46.3%   |
| GBP/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 487              | 167              | 191.62% | 0                            | 0                            | 0.0%   | 9,445              | 16,621                | -43.2%   |
| GBP/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%   | 5,190              | 6,004                 | -13.6%   |
| JAPANESE YEN (EU)         | -                          | 0                          | 0.0%    | -                | 0                | 0.00%   | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| JPY/USD MONDAY OPTION WE  | 0                          | -                          | -       | 1,813            | -                | -       | 0                            | -                            | -      | 4,292              | -                     | -        |
| JPY/USD MONDAY OPTION WE  | 0                          | -                          | -       | 2,840            | -                | -       | 0                            | -                            | -      | 5,809              | -                     | -        |
| JPY/USD MONDAY OPTION WE  | 0                          | -                          | -       | 1,641            | -                | -       | 0                            | -                            | -      | 3,233              | -                     | -        |
| JPY/USD MONDAY OPTION WE  | 0                          | -                          | -       | 657              | -                | -       | 0                            | -                            | -      | 1,892              | -                     | -        |
| JPY/USD MONDAY OPTION WE  | 0                          | -                          | -       | 1,211            | -                | -       | 0                            | -                            | -      | 1,363              | -                     | -        |
| JPY/USD MONTHLY OPTIONS   | 0                          | 48                         | -100.0% | 94,173           | 144,070          | -34.63% | 727                          | 88                           | 726.1% | 863,074            | 847,119               | 1.9%     |
| JPY/USD WKLY FRIDAY OPTIO | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%   | 5,689              | 28,655                | -80.1%   |
| JPY/USD WKLY FRIDAY OPTIO | 0                          | 0                          | 0.0%    | 15,690           | 14,382           | 9.09%   | 0                            | 0                            | 0.0%   | 77,008             | 66,581                | 15.7%    |
| JPY/USD WKLY FRIDAY OPTIO | 0                          | 0                          | 0.0%    | 9,505            | 12,947           | -26.59% | 0                            | 0                            | 0.0%   | 85,614             | 90,469                | -5.4%    |
| JPY/USD WKLY FRIDAY OPTIO | 0                          | 0                          | 0.0%    | 14,037           | 11,348           | 23.70%  | 0                            | 0                            | 0.0%   | 78,563             | 97,708                | -19.6%   |
| JPY/USD WKLY FRIDAY OPTIO | 0                          | 0                          | 0.0%    | 704              | 0                | 0.00%   | 0                            | 0                            | 0.0%   | 26,567             | 30,161                | -11.9%   |
| JPY/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 4,734            | 6,362            | -25.59% | 0                            | 0                            | 0.0%   | 36,708             | 22,540                | 62.9%    |
| JPY/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 5,920            | 3,641            | 62.59%  | 0                            | 0                            | 0.0%   | 28,445             | 24,976                | 13.9%    |
| JPY/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 4,782            | 4,574            | 4.55%   | 0                            | 0                            | 0.0%   | 34,177             | 20,500                | 66.7%    |
| JPY/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 3,775            | 4,506            | -16.22% | 0                            | 0                            | 0.0%   | 37,558             | 21,783                | 72.4%    |
| JPY/USD WKLY WED OPTIONS  | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%   | 6,294              | 4,972                 | 26.6%    |
| MXN/USD MONTHLY OPTIONS   | 0                          | 0                          | 0.0%    | 1,844            | 1,400            | 31.71%  | 1,840                        | 900                          | 104.4% | 9,303              | 7,704                 | 20.8%    |
| MXN/USD WKLY FRIDAY OPTI  | 0                          | -                          | -       | 0                | -                | -       | 0                            | -                            | -      | 0                  | -                     | -        |
| MXN/USD WKLY FRIDAY OPTI  | 0                          | 0                          | 0.0%    | 225              | 206              | 9.22%   | 0                            | 0                            | 0.0%   | 225                | 354                   | -36.4%   |
| MXN/USD WKLY FRIDAY OPTI  | 0                          | 0                          | 0.0%    | 1,001            | 156              | 541.67% | 0                            | 0                            | 0.0%   | 1,003              | 454                   | 120.9%   |
| MXN/USD WKLY FRIDAY OPTI  | 0                          | 0                          | 0.0%    | 371              | 326              | 13.80%  | 0                            | 0                            | 0.0%   | 1,181              | 328                   | 260.1%   |
| MXN/USD WKLY FRIDAY OPTI  | 0                          | -                          | -       | 0                | -                | -       | 0                            | -                            | -      | 143                | -                     | -        |
| NZD/USD MONTHLY OPTIONS   | 0                          | 0                          | 0.0%    | 115              | 136              | -15.44% | 0                            | 0                            | 0.0%   | 4,472              | 2,263                 | 97.6%    |
| NZD/USD WKLY FRIDAY OPTIO | -                          | 0                          | 0.0%    | -                | 0                | 0.00%   | -                            | 0                            | 0.0%   | -                  | 0                     | 0.0%     |
| NZD/USD WKLY FRIDAY OPTIO | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%   | 50                 | 120                   | -58.3%   |
| NZD/USD WKLY FRIDAY OPTIO | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%   | 0                            | 0                            | 0.0%   | 0                  | 206                   | -100.0%  |
| NZD/USD WKLY FRIDAY OPTIO | 0                          | -                          | -       | 0                | -                | -       | 0                            | -                            | -      | 375                | -                     | -        |
| NZD/USD WKLY FRIDAY OPTIO | 0                          | -                          | -       | 0                | -                | -       | 0                            | -                            | -      | 0                  | -                     | -        |

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## CME Group Exchange Volume Comparison Report - Monthly

|                                 | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG   | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG    | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG  | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|---------------------------------|----------------------------|----------------------------|---------|------------------|------------------|----------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| <b>Ags Futures</b>              |                            |                            |         |                  |                  |          |                              |                              |        |                    |                       |          |
| FERTILIZER PRODUCS              | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 85                 | 0                     | 0.0%     |
| <b>Foreign Exchange Futures</b> |                            |                            |         |                  |                  |          |                              |                              |        |                    |                       |          |
| CHILEAN PESO                    | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| <b>Foreign Exchange Options</b> |                            |                            |         |                  |                  |          |                              |                              |        |                    |                       |          |
| AUD/USD WKLY WED OPTIONS        | 0                          | 0                          | 0.0%    | 681              | 380              | 79.21%   | 0                            | 0                            | 0.0%   | 5,865              | 5,386                 | 8.9%     |
| <b>Ag Products Futures</b>      |                            |                            |         |                  |                  |          |                              |                              |        |                    |                       |          |
| BUTTER CS                       | 0                          | 0                          | 0.0%    | 4,267            | 3,106            | 37.38%   | 0                            | 0                            | 0.0%   | 38,675             | 22,377                | 72.8%    |
| CASH-SETTLED CHEESE             | 0                          | 0                          | 0.0%    | 11,841           | 9,781            | 21.06%   | 0                            | 0                            | 0.0%   | 84,930             | 67,404                | 26.0%    |
| CAT ASIA WEATHER                | 0                          | -                          | -       | 0                | -                | -        | 0                            | -                            | -      | 0                  | -                     | -        |
| CATTLE                          | 0                          | 171                        | -100.0% | 994,604          | 1,131,885        | -12.13%  | 2,592                        | 8,677                        | -70.1% | 8,942,547          | 8,888,356             | 0.6%     |
| CAT WEATHER EUROPEAN            | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| CDD SEASONAL STRIP              | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| CDD WEATHER                     | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| CHI WHEAT                       | 0                          | 7,981                      | -100.0% | 3,338,663        | 3,472,513        | -3.85%   | 12,092                       | 48,530                       | -75.1% | 17,094,917         | 17,226,615            | -0.8%    |
| CLASS IV MILK                   | 0                          | 52                         | -100.0% | 1,186            | 1,905            | -37.74%  | 65                           | 157                          | -58.6% | 17,093             | 14,800                | 15.5%    |
| COCOA TAS                       | 0                          | 0                          | 0.0%    | 0                | 8                | -100.00% | 0                            | 0                            | 0.0%   | 0                  | 8                     | -100.0%  |
| COFFEE                          | 0                          | -                          | -       | 0                | -                | -        | 0                            | -                            | -      | 0                  | -                     | -        |
| CORN                            | 0                          | 39,325                     | -100.0% | 9,868,082        | 12,795,201       | -22.88%  | 18,145                       | 166,514                      | -89.1% | 43,752,376         | 59,461,081            | -26.4%   |
| COTTON                          | 0                          | 0                          | 0.0%    | 0                | 6                | -100.00% | 0                            | 0                            | 0.0%   | 23                 | 15                    | 53.3%    |
| DJ_UBS ROLL SELECT INDEX        | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |
| DOW-UBS COMMOD INDEX            | 0                          | 0                          | 0.0%    | 68,913           | 115,872          | -40.53%  | 0                            | 0                            | 0.0%   | 204,324            | 317,119               | -35.6%   |
| DRY WHEY                        | 0                          | 0                          | 0.0%    | 765              | 1,180            | -35.17%  | 0                            | 0                            | 0.0%   | 8,821              | 8,333                 | 5.9%     |
| FEEDER CATTLE                   | 0                          | 15                         | -100.0% | 179,978          | 278,916          | -35.47%  | 54                           | 105                          | -48.6% | 1,623,769          | 1,876,569             | -13.5%   |
| FERTILIZER PRODUCS              | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%   | 0                  | 0                     | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG   | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG    | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG   | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D<br>2019 | %<br>CHG |
|----------------------------|----------------------------|----------------------------|---------|------------------|------------------|----------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| <b>Ag Products Futures</b> |                            |                            |         |                  |                  |          |                              |                              |         |                    |                       |          |
| GOLDMAN SACHS              | 0                          | 0                          | 0.0%    | 11,814           | 27,823           | -57.54%  | 0                            | 0                            | 0.0%    | 100,774            | 173,417               | -41.9%   |
| GSCI EXCESS RETURN FUT     | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 44                 | 0                     | 0.0%     |
| HDD EURO SEASONAL STRIP    | 0                          | -                          | -       | 0                | -                |          | 0                            | -                            | -       | 0                  | -                     | -        |
| HDD SEASONAL STRIP         | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| HDD WEATHER                | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 25                 | 0                     | 0.0%     |
| HDD WEATHER EUROPEAN       | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| HOGS                       | 0                          | 1,286                      | -100.0% | 1,046,596        | 1,414,681        | -26.02%  | 1,940                        | 12,025                       | -83.9%  | 6,938,558          | 7,993,367             | -13.2%   |
| HOUSING INDEX              | 0                          | 0                          | 0.0%    | 21               | 2                | 950.00%  | 0                            | 0                            | 0.0%    | 216                | 71                    | 204.2%   |
| Intercommodity Spread      | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| KC WHEAT                   | 0                          | 577                        | -100.0% | 1,345,470        | 1,511,605        | -10.99%  | 1,534                        | 6,535                        | -76.5%  | 7,097,832          | 8,029,563             | -11.6%   |
| LUMBER                     | 0                          | 0                          | 0.0%    | 11,793           | 16,465           | -28.38%  | 0                            | 0                            | 0.0%    | 74,079             | 87,249                | -15.1%   |
| MALAYSIAN PALM SWAP        | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| MILK                       | 0                          | 113                        | -100.0% | 40,807           | 21,861           | 86.67%   | 59                           | 220                          | -73.2%  | 214,243            | 147,663               | 45.1%    |
| MINI CORN                  | 0                          | 0                          | 0.0%    | 21,667           | 27,326           | -20.71%  | 0                            | 0                            | 0.0%    | 117,852            | 84,681                | 39.2%    |
| MINI SOYBEAN               | 0                          | 0                          | 0.0%    | 26,659           | 20,727           | 28.62%   | 0                            | 0                            | 0.0%    | 151,613            | 108,348               | 39.9%    |
| MINI WHEAT                 | 0                          | 0                          | 0.0%    | 12,624           | 8,607            | 46.67%   | 0                            | 0                            | 0.0%    | 77,291             | 33,376                | 131.6%   |
| MLK MID OPTIONS            | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| NFD MILK                   | 0                          | 0                          | 0.0%    | 6,754            | 5,331            | 26.69%   | 0                            | 0                            | 0.0%    | 57,863             | 40,176                | 44.0%    |
| OATS                       | 0                          | 0                          | 0.0%    | 17,662           | 20,894           | -15.47%  | 0                            | 0                            | 0.0%    | 76,208             | 89,236                | -14.6%   |
| PACIFIC RIM DAT SS WTHR    | 0                          | -                          | -       | 0                | -                |          | 0                            | -                            | -       | 0                  | -                     | -        |
| ROUGH RICE                 | 0                          | 0                          | 0.0%    | 26,596           | 24,411           | 8.95%    | 0                            | 31                           | -100.0% | 148,227            | 117,000               | 26.7%    |
| SOYBEAN                    | 0                          | 4,707                      | -100.0% | 5,281,566        | 5,492,924        | -3.85%   | 10,769                       | 36,206                       | -70.3%  | 26,833,959         | 25,541,170            | 5.1%     |
| SOYBEAN MEAL               | 0                          | 762                        | -100.0% | 2,667,766        | 2,713,914        | -1.70%   | 1,333                        | 4,380                        | -69.6%  | 14,539,592         | 14,174,852            | 2.6%     |
| SOYBEAN OIL                | 0                          | 161                        | -100.0% | 2,725,178        | 2,687,530        | 1.40%    | 4,078                        | 3,547                        | 15.0%   | 16,561,066         | 14,692,471            | 12.7%    |
| S&P GSCI ENHANCED ER SWA   | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| SUGAR 11                   | 0                          | 0                          | 0.0%    | 0                | 10               | -100.00% | 0                            | 0                            | 0.0%    | 0                  | 10                    | -100.0%  |
| USD CRUDE PALM OIL         | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                     | 0.0%     |
| WHEAT                      | 0                          | 0                          | 0.0%    | 1,630            | 355              | 359.15%  | 0                            | 0                            | 0.0%    | 3,999              | 4,735                 | -15.5%   |
| <b>Ag Products Options</b> |                            |                            |         |                  |                  |          |                              |                              |         |                    |                       |          |
| AUG-NOV SOYBEAN CAL SPR    | 0                          | -                          | -       | 2                | -                |          | 0                            | -                            | -       | 2                  | -                     | -        |
| BUTTER CS                  | 0                          | 102                        | -100.0% | 2,678            | 1,725            | 55.25%   | 212                          | 3,715                        | -94.3%  | 23,585             | 20,074                | 17.5%    |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG   | ELEC<br>JUN 2020 | ELEC<br>JUN 2019 | % CHG    | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG   | ELEC<br>Y.T.D 2020 | ELEC<br>Y.T.D 2019 | %<br>CHG |
|----------------------------|----------------------------|----------------------------|---------|------------------|------------------|----------|------------------------------|------------------------------|---------|--------------------|--------------------|----------|
| <b>Ag Products Options</b> |                            |                            |         |                  |                  |          |                              |                              |         |                    |                    |          |
| CASH-SETTLED CHEESE        | 0                          | 1,217                      | -100.0% | 11,491           | 7,269            | 58.08%   | 7,734                        | 11,271                       | -31.4%  | 68,907             | 50,765             | 35.7%    |
| CATTLE                     | 0                          | 16,712                     | -100.0% | 156,584          | 143,496          | 9.12%    | 59,913                       | 168,854                      | -64.5%  | 1,487,769          | 1,071,860          | 38.8%    |
| CAT WEATHER EUROPEAN       | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                  | 0.0%     |
| CDD SEASONAL STRIP         | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                  | 0.0%     |
| CHI WHEAT                  | 0                          | 115,082                    | -100.0% | 571,642          | 635,843          | -10.10%  | 202,275                      | 615,248                      | -67.1%  | 3,625,053          | 3,709,749          | -2.3%    |
| CLASS IV MILK              | 0                          | 444                        | -100.0% | 4,962            | 3,323            | 49.32%   | 1,082                        | 3,098                        | -65.1%  | 38,642             | 22,279             | 73.4%    |
| CORN                       | 0                          | 765,207                    | -100.0% | 2,052,720        | 3,899,179        | -47.36%  | 536,597                      | 2,928,812                    | -81.7%  | 9,502,084          | 15,265,322         | -37.8%   |
| CORN NEARBY+2 CAL SPRD     | 0                          | 10,232                     | -100.0% | 12,120           | 1,440            | 741.67%  | 14,975                       | 25,782                       | -41.9%  | 17,285             | 1,441              | 1,099.5% |
| DEC-DEC CORN CAL SPRD      | 0                          | 1,581                      | -100.0% | 0                | 25               | -100.00% | 250                          | 7,135                        | -96.5%  | 774                | 2,285              | -66.1%   |
| DEC-JULY CORN CAL SPRD     | 0                          | 888                        | -100.0% | 1,000            | 0                | 0.00%    | 175                          | 15,406                       | -98.9%  | 1,051              | 22                 | 4,677.3% |
| DEC-JULY WHEAT CAL SPRD    | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                  | 0.0%     |
| DRY WHEY                   | 0                          | 185                        | -100.0% | 160              | 549              | -70.86%  | 119                          | 692                          | -82.8%  | 3,347              | 5,490              | -39.0%   |
| FEEDER CATTLE              | 0                          | 3,304                      | -100.0% | 14,617           | 33,346           | -56.17%  | 4,252                        | 12,598                       | -66.2%  | 167,590            | 183,448            | -8.6%    |
| HDD EURO SEASONAL STRIP    | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                  | 0.0%     |
| HDD SEASONAL STRIP         | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                  | 0.0%     |
| HDD WEATHER                | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                  | 0.0%     |
| HOGS                       | 0                          | 15,613                     | -100.0% | 242,188          | 365,419          | -33.72%  | 34,430                       | 214,627                      | -84.0%  | 1,801,949          | 1,987,316          | -9.3%    |
| HOUSING INDEX              | 0                          | 0                          | 0.0%    | 0                | 7                | -100.00% | 0                            | 0                            | 0.0%    | 0                  | 7                  | -100.0%  |
| Intercommodity Spread      | 0                          | 0                          | 0.0%    | 2,645            | 0                | 0.00%    | 7,987                        | 1,000                        | 698.7%  | 2,958              | 0                  | 0.0%     |
| JULY-DEC CORN CAL SPRD     | 0                          | 1,435                      | -100.0% | 0                | 0                | 0.00%    | 11,810                       | 8,480                        | 39.3%   | 5,125              | 1,100              | 365.9%   |
| JULY-DEC SOYMEAL CAL SPR   | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 0                  | 0.0%     |
| JULY-DEC WHEAT CAL SPRD    | 0                          | 100                        | -100.0% | 415              | 0                | 0.00%    | 1,520                        | 1,450                        | 4.8%    | 2,136              | 0                  | 0.0%     |
| JULY-JULY WHEAT CAL SPRD   | 0                          | -                          | -       | 0                | -                | -        | 50                           | -                            | -       | 70                 | -                  | -        |
| JULY-NOV SOYBEAN CAL SPR   | 0                          | 0                          | 0.0%    | 6,575            | 0                | 0.00%    | 4,950                        | 5,931                        | -16.5%  | 8,997              | 190                | 4,635.3% |
| KC WHEAT                   | 0                          | 28,620                     | -100.0% | 79,859           | 82,420           | -3.11%   | 36,570                       | 136,551                      | -73.2%  | 540,721            | 435,474            | 24.2%    |
| LUMBER                     | 0                          | 0                          | 0.0%    | 499              | 1,899            | -73.72%  | 0                            | 70                           | -100.0% | 5,503              | 11,399             | -51.7%   |
| LV CATL CSO                | 0                          | 40                         | -100.0% | 0                | 0                | 0.00%    | 0                            | 479                          | -100.0% | 0                  | 0                  | 0.0%     |
| MAR-DEC CORN CAL SPRD      | 0                          | -                          | -       | 0                | -                | -        | 505                          | -                            | -       | 0                  | -                  | -        |
| MAR-JULY CORN CAL SPRD     | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 2,500                        | 0                            | 0.0%    | 0                  | 0                  | 0.0%     |
| MAR-JULY WHEAT CAL SPRD    | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 0                            | 0.0%    | 0                  | 30                 | -100.0%  |
| MILK                       | 0                          | 3,698                      | -100.0% | 65,988           | 30,589           | 115.72%  | 3,323                        | 16,482                       | -79.8%  | 315,632            | 208,317            | 51.5%    |
| MLK MID OPTIONS            | 0                          | 0                          | 0.0%    | 38               | 5                | 660.00%  | 31                           | 8                            | 287.5%  | 55                 | 181                | -69.6%   |
| NFD MILK                   | 0                          | 147                        | -100.0% | 2,794            | 3,317            | -15.77%  | 494                          | 767                          | -35.6%  | 46,457             | 39,623             | 17.2%    |
| NOV-JULY SOYBEAN CAL SPR   | 0                          | 0                          | 0.0%    | 0                | 0                | 0.00%    | 0                            | 750                          | -100.0% | 0                  | 2,250              | -100.0%  |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG          | ELEC<br>JUN 2020   | ELEC<br>JUN 2019   | % CHG        | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG         | ELEC<br>Y.T.D 2020   | ELEC<br>Y.T.D 2019   | %<br>CHG     |
|----------------------------|----------------------------|----------------------------|----------------|--------------------|--------------------|--------------|------------------------------|------------------------------|---------------|----------------------|----------------------|--------------|
| <b>Ag Products Options</b> |                            |                            |                |                    |                    |              |                              |                              |               |                      |                      |              |
| NOV-MAR SOYBEAN CSO        | 0                          | 0                          | 0.0%           | 85                 | 0                  | 0.00%        | 100                          | 20                           | 400.0%        | 885                  | 0                    | 0.0%         |
| NOV-NOV SOYBEAN CAL SPR    | 0                          | 0                          | 0.0%           | 0                  | 750                | -100.00%     | 0                            | 114                          | -100.0%       | 0                    | 750                  | -100.0%      |
| OATS                       | 0                          | 160                        | -100.0%        | 165                | 181                | -8.84%       | 720                          | 2,053                        | -64.9%        | 938                  | 1,622                | -42.2%       |
| ROUGH RICE                 | 0                          | 975                        | -100.0%        | 1,642              | 615                | 166.99%      | 6,492                        | 7,329                        | -11.4%        | 11,233               | 5,001                | 124.6%       |
| SEP-DEC SOYBEAN MEAL CSC   | -                          | 0                          | 0.0%           | -                  | 0                  | 0.00%        | -                            | 0                            | 0.0%          | -                    | 0                    | 0.0%         |
| SOYBEAN                    | 0                          | 151,075                    | -100.0%        | 1,114,032          | 1,208,722          | -7.83%       | 275,778                      | 892,329                      | -69.1%        | 5,717,288            | 6,492,498            | -11.9%       |
| SOYBEAN CRUSH              | 0                          | 0                          | 0.0%           | 290                | 0                  | 0.00%        | 830                          | 4                            | 20,650.0%     | 782                  | 0                    | 0.0%         |
| SOYBEAN MEAL               | 0                          | 27,452                     | -100.0%        | 184,940            | 142,574            | 29.72%       | 84,223                       | 200,587                      | -58.0%        | 1,129,606            | 784,648              | 44.0%        |
| SOYBEAN OIL                | 0                          | 13,400                     | -100.0%        | 111,393            | 83,864             | 32.83%       | 106,072                      | 112,071                      | -5.4%         | 926,998              | 555,757              | 66.8%        |
| SOYBN NEARBY+2 CAL SPRD    | 0                          | 0                          | 0.0%           | 0                  | 0                  | 0.00%        | 335                          | 3,500                        | -90.4%        | 545                  | 2,000                | -72.8%       |
| SOYMEAL NEARBY+2 CAL SPR   | 0                          | 0                          | 0.0%           | 0                  | 0                  | 0.00%        | 200                          | 465                          | -57.0%        | 0                    | 0                    | 0.0%         |
| WHEAT                      | 0                          | 0                          | 0.0%           | 522                | 118                | 342.37%      | 16                           | 4,816                        | -99.7%        | 3,380                | 2,121                | 59.4%        |
| WHEAT-CORN ICSO            | 0                          | 50                         | -100.0%        | 20                 | 0                  | 0.00%        | 70                           | 2,580                        | -97.3%        | 1,730                | 0                    | 0.0%         |
| WHEAT NEARBY+2 CAL SPRD    | 0                          | 0                          | 0.0%           | 1,205              | 0                  | 0.00%        | 1,251                        | 2,040                        | -38.7%        | 3,131                | 200                  | 1,465.5%     |
| <b>TOTAL FUTURES GROUP</b> |                            |                            |                |                    |                    |              |                              |                              |               |                      |                      |              |
| Interest Rate Futures      | 0                          | 1,292,446                  | -100.0%        | 95,866,832         | 163,067,455        | -41.2%       | 3,232,304                    | 6,066,890                    | -46.7%        | 921,576,771          | 941,064,031          | -2.1%        |
| Equity Index Futures       | 0                          | 63,932                     | -100.0%        | 123,182,519        | 64,141,046         | 92.0%        | 33,712                       | 154,085                      | -78.1%        | 645,173,317          | 331,580,741          | 94.6%        |
| Metals Futures             | 0                          | 0                          | 0.0%           | 10,414,580         | 13,064,927         | -20.3%       | 0                            | 0                            | 0.0%          | 75,404,552           | 63,499,896           | 18.7%        |
| Energy Futures             | 0                          | 0                          | 0.0%           | 36,980,235         | 41,496,842         | -10.9%       | 0                            | 0                            | 0.0%          | 308,231,037          | 253,668,463          | 21.5%        |
| FX Futures                 | 0                          | 3                          | -100.0%        | 19,661,057         | 20,059,077         | -2.0%        | 36                           | 45                           | -20.0%        | 105,800,434          | 101,272,663          | 4.5%         |
| Ags Futures                | 0                          | 0                          | 0.0%           | 0                  | 0                  | 0.0%         | 0                            | 0                            | 0.0%          | 85                   | 0                    | 0.0%         |
| Foreign Exchange Futures   | 0                          | 0                          | 0.0%           | 0                  | 0                  | 0.0%         | 0                            | 0                            | 0.0%          | 0                    | 0                    | 0.0%         |
| Ag Products Futures        | 0                          | 55,150                     | -100.0%        | 27,712,902         | 31,804,839         | -12.9%       | 52,661                       | 286,927                      | -81.6%        | 144,760,916          | 159,200,062          | -9.1%        |
| <b>TOTAL FUTURES</b>       | <b>0</b>                   | <b>1,411,531</b>           | <b>-100.0%</b> | <b>313,818,125</b> | <b>333,634,186</b> | <b>-5.9%</b> | <b>3,318,713</b>             | <b>6,507,947</b>             | <b>-49.0%</b> | <b>2,200,947,112</b> | <b>1,850,285,856</b> | <b>19.0%</b> |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>JUN 2020 | Open<br>Outcry<br>JUN 2019 | % CHG          | ELEC<br>JUN 2020   | ELEC<br>JUN 2019   | % CHG         | Open<br>Outcry<br>Y.T.D 2020 | Open<br>Outcry<br>Y.T.D 2019 | % CHG         | ELEC<br>Y.T.D 2020   | ELEC<br>Y.T.D 2019   | %<br>CHG     |
|----------------------------|----------------------------|----------------------------|----------------|--------------------|--------------------|---------------|------------------------------|------------------------------|---------------|----------------------|----------------------|--------------|
| <b>TOTAL OPTIONS GROUP</b> |                            |                            |                |                    |                    |               |                              |                              |               |                      |                      |              |
| Equity Index Options       | 0                          | 700,991                    | -100.0%        | 15,192,709         | 11,537,533         | 31.7%         | 1,658,011                    | 4,112,668                    | -59.7%        | 100,097,175          | 72,422,594           | 38.2%        |
| Interest Rate Options      | 0                          | 33,827,345                 | -100.0%        | 27,507,063         | 40,103,351         | -31.4%        | 73,045,459                   | 156,844,479                  | -53.4%        | 229,782,387          | 189,674,312          | 21.1%        |
| Metals Options             | 0                          | 0                          | 0.0%           | 864,044            | 2,057,081          | -58.0%        | 0                            | 0                            | 0.0%          | 8,052,909            | 6,984,850            | 15.3%        |
| Energy Options             | 0                          | 0                          | 0.0%           | 2,852,410          | 3,965,635          | -28.1%        | 0                            | 0                            | 0.0%          | 24,384,706           | 19,952,075           | 22.2%        |
| FX Options                 | 0                          | 884                        | -100.0%        | 852,766            | 1,010,147          | -15.6%        | 4,673                        | 10,067                       | -53.6%        | 5,866,547            | 6,725,441            | -12.8%       |
| Ag Products Options        | 0                          | 1,157,719                  | -100.0%        | 4,643,271          | 6,646,675          | -30.1%        | 1,407,841                    | 5,407,114                    | -74.0%        | 25,462,208           | 30,863,219           | -17.5%       |
| Foreign Exchange Options   | 0                          | 0                          | 0.0%           | 681                | 380                | 79.2%         | 0                            | 0                            | 0.0%          | 5,865                | 5,386                | 8.9%         |
| <b>TOTAL OPTIONS</b>       | <b>0</b>                   | <b>35,686,939</b>          | <b>-100.0%</b> | <b>51,912,944</b>  | <b>65,320,802</b>  | <b>-20.5%</b> | <b>76,115,984</b>            | <b>166,374,328</b>           | <b>-54.3%</b> | <b>393,651,797</b>   | <b>326,627,877</b>   | <b>20.5%</b> |
| <b>TOTAL COMBINED</b>      |                            |                            |                |                    |                    |               |                              |                              |               |                      |                      |              |
| Interest Rate              | 0                          | 35,119,791                 | -100.0%        | 123,373,895        | 203,170,806        | -39.3%        | 76,277,763                   | 162,911,369                  | -53.2%        | 1,151,359,158        | 1,130,738,343        | 1.8%         |
| Equity Index               | 0                          | 764,923                    | -100.0%        | 138,375,228        | 75,678,579         | 82.8%         | 1,691,723                    | 4,266,753                    | -60.4%        | 745,270,492          | 404,003,335          | 84.5%        |
| Metals                     | 0                          | 0                          | 0.0%           | 11,278,624         | 15,122,008         | -25.4%        | 0                            | 0                            | 0.0%          | 83,457,461           | 70,484,746           | 18.4%        |
| Energy                     | 0                          | 0                          | 0.0%           | 39,832,645         | 45,462,477         | -12.4%        | 0                            | 0                            | 0.0%          | 332,615,743          | 273,620,538          | 21.6%        |
| FX                         | 0                          | 887                        | -100.0%        | 20,513,823         | 21,069,224         | -2.6%         | 4,709                        | 10,112                       | -53.4%        | 111,666,981          | 107,998,104          | 3.4%         |
| Ags                        | 0                          | 0                          | 0.0%           | 0                  | 0                  | 0.0%          | 0                            | 0                            | 0.0%          | 85                   | 0                    | 0.0%         |
| Foreign Exchange           | 0                          | 0                          | 0.0%           | 681                | 380                | 79.2%         | 0                            | 0                            | 0.0%          | 5,865                | 5,386                | 8.9%         |
| Ag Products                | 0                          | 1,212,869                  | -100.0%        | 32,356,173         | 38,451,514         | -15.9%        | 1,460,502                    | 5,694,041                    | -74.4%        | 170,223,124          | 190,063,281          | -10.4%       |
| <b>GRAND TOTAL</b>         | <b>0</b>                   | <b>37,098,470</b>          | <b>-100.0%</b> | <b>365,731,069</b> | <b>398,954,988</b> | <b>-8.3%</b>  | <b>79,434,697</b>            | <b>172,882,275</b>           | <b>-54.1%</b> | <b>2,594,598,909</b> | <b>2,176,913,733</b> | <b>19.2%</b> |

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