



## CME Group Exchange Volume Comparison Report - Monthly

|                              | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|------------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Interest Rate Futures</b> |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| 30-YR BOND                   | 25,389                     | 33,757                     | -24.8%   | 4,618,388        | 5,288,220        | -0.13    | 143,697                      | 676,997                      | -78.8%   | 39,155,482         | 42,482,580         | -7.8%    |
| 10-YR NOTE                   | 127,961                    | 139,546                    | -8.3%    | 22,417,030       | 22,748,828       | -0.01    | 1,063,148                    | 2,491,992                    | -57.3%   | 193,469,818        | 191,900,893        | 0.8%     |
| 5-YR NOTE                    | 18,013                     | 29,881                     | -39.7%   | 10,403,509       | 11,998,589       | -0.13    | 200,402                      | 1,602,871                    | -87.5%   | 105,388,554        | 104,126,855        | 1.2%     |
| 2-YR NOTE                    | 293                        | 1,812                      | -83.8%   | 4,479,640        | 4,820,042        | -0.07    | 6,130                        | 883,131                      | -99.3%   | 42,643,274         | 45,506,776         | -6.3%    |
| FED FUND                     | 0                          | 0                          | 0.0%     | 2,212,137        | 1,710,572        | 0.29     | 0                            | 8,376                        | -100.0%  | 18,613,220         | 9,205,566          | 102.2%   |
| EUROYEN                      | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| EURODOLLARS                  | 525,240                    | 477,301                    | 10.0%    | 48,471,097       | 44,869,567       | 0.08     | 4,081,816                    | 3,627,482                    | 12.5%    | 358,658,827        | 350,656,695        | 2.3%     |
| 5-YR SWAP RATE               | 0                          | 0                          | 0.0%     | 48,044           | 28,523           | 0.68     | 0                            | 0                            | 0.0%     | 407,722            | 350,563            | 16.3%    |
| 2-YR SWAP RATE               | 0                          | 0                          | 0.0%     | 2                | 40               | -0.95    | 0                            | 35                           | -100.0%  | 4,411              | 20,058             | -78.0%   |
| 10-YR SWAP RATE              | 0                          | 0                          | 0.0%     | 30,619           | 27,511           | 0.11     | 0                            | 2,652                        | -100.0%  | 305,429            | 354,017            | -13.7%   |
| 7-YR SWAP                    | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 3,052              | -                  | -        |
| 1-MONTH EURODOLLAR           | 0                          | 0                          | 0.0%     | 849              | 7,758            | -0.89    | 0                            | 0                            | 0.0%     | 9,230              | 39,731             | -76.8%   |
| ULTRA T-BOND                 | 5                          | 35                         | -85.7%   | 1,595,798        | 1,784,841        | -0.11    | 6                            | 424,159                      | -100.0%  | 14,814,189         | 15,454,926         | -4.1%    |
| Ultra 10-Year Note           | 0                          | -                          | -        | 1,203,906        | -                | -        | 28                           | -                            | -        | 6,942,344          | -                  | -        |
| 30-YR SWAP RATE              | 0                          | 0                          | 0.0%     | 1,296            | 1,506            | -0.14    | 0                            | 61                           | -100.0%  | 12,369             | 24,360             | -49.2%   |
| EURO 5YR BUNDLE              | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 38                 | -100.0%  |
| 3YR BUNDLE                   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 168                | -100.0%  |
| 2YR BUNDLE                   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 595                | -100.0%  |
| <b>Interest Rate Options</b> |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| 30-YR BOND                   | 302,809                    | 657,278                    | -53.9%   | 1,293,296        | 1,747,618        | -0.26    | 1,998,149                    | 3,663,956                    | -45.5%   | 10,098,245         | 9,292,890          | 8.7%     |
| 10-YR NOTE                   | 1,789,670                  | 3,263,632                  | -45.2%   | 4,942,855        | 6,165,503        | -0.2     | 16,689,616                   | 23,302,548                   | -28.4%   | 36,520,634         | 40,139,540         | -9.0%    |
| 5-YR NOTE                    | 513,516                    | 676,854                    | -24.1%   | 971,391          | 1,206,951        | -0.2     | 4,748,114                    | 4,373,461                    | 8.6%     | 9,349,718          | 7,595,064          | 23.1%    |
| 2-YR NOTE                    | 12,575                     | 66,534                     | -81.1%   | 77,685           | 67,858           | 0.14     | 308,009                      | 581,201                      | -47.0%   | 659,828            | 871,492            | -24.3%   |
| FED FUND                     | 2,970                      | 14,500                     | -79.5%   | 3,743            | 727              | 4.15     | 48,125                       | 187,086                      | -74.3%   | 10,413             | 17,458             | -40.4%   |
| FLEX 30-YR BOND              | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| EURODOLLARS                  | 12,363,910                 | 7,582,538                  | 63.1%    | 3,192,430        | 1,942,151        | 0.64     | 76,657,250                   | 46,847,221                   | 63.6%    | 20,906,960         | 8,815,372          | 137.2%   |
| EURO MIDCURVE                | 5,658,951                  | 7,722,010                  | -26.7%   | 2,639,054        | 2,314,696        | 0.14     | 49,767,065                   | 56,554,370                   | -12.0%   | 22,352,490         | 13,757,372         | 62.5%    |
| ULTRA T-BOND                 | 1,947                      | 712                        | 173.5%   | 5,162            | 5,893            | -0.12    | 9,194                        | 37,192                       | -75.3%   | 28,796             | 40,012             | -28.0%   |
| Ultra 10-Year Note           | 2,000                      | -                          | -        | 840              | -                | -        | 3,275                        | -                            | -        | 1,495              | -                  | -        |

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|                             | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG  |
|-----------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|-----------|
| <b>Equity Index Futures</b> |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |           |
| \$25 DJ                     | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%      |
| DJIA                        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 10,422                       | -100.0%  | 0                  | 1,413              | -100.0%   |
| MINI \$5 DOW                | 0                          | 0                          | 0.0%     | 2,588,004        | 3,062,033        | -0.15    | 0                            | 0                            | 0.0%     | 25,698,158         | 21,764,893         | 18.1%     |
| E-MINI S&P500               | 0                          | 0                          | 0.0%     | 31,036,913       | 32,938,161       | -0.06    | 0                            | 0                            | 0.0%     | 281,839,745        | 225,833,305        | 24.8%     |
| S&P 500                     | 48,248                     | 48,579                     | -0.7%    | 13,352           | 13,108           | 0.02     | 810,462                      | 979,453                      | -17.3%   | 132,381            | 111,179            | 19.1%     |
| S&P 600 SMALLCAP EMINI      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%      |
| E-MINI MIDCAP               | 0                          | 0                          | 0.0%     | 295,634          | 353,705          | -0.16    | 0                            | 0                            | 0.0%     | 3,099,040          | 2,869,219          | 8.0%      |
| S&P 400 MIDCAP              | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 39                           | -100.0%  | 0                  | 0                  | 0.0%      |
| S&P 500 GROWTH              | 0                          | 0                          | 0.0%     | 8                | 7                | 0.14     | 0                            | 0                            | 0.0%     | 163                | 226                | -27.9%    |
| S&P 500/VALUE               | 0                          | 0                          | 0.0%     | 562              | 5                | 111.4    | 0                            | 0                            | 0.0%     | 25,963             | 236                | 10,901.3% |
| E-MINI RUSSELL 1000         | 0                          | -                          | -        | 107              | -                | -        | 0                            | -                            | -        | 3,717              | -                  | -         |
| E-MINI NASDAQ 100           | 0                          | 0                          | 0.0%     | 3,798,745        | 5,036,437        | -0.25    | 0                            | 0                            | 0.0%     | 40,074,633         | 35,952,492         | 11.5%     |
| NASDAQ                      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 23,063                       | -100.0%  | 0                  | 2,120              | -100.0%   |
| NIKKEI 225 (\$) STOCK       | 0                          | 0                          | 0.0%     | 349,588          | 325,243          | 0.07     | 0                            | 0                            | 0.0%     | 2,937,093          | 2,373,667          | 23.7%     |
| NIKKEI 225 (YEN) STOCK      | 0                          | 0                          | 0.0%     | 1,108,723        | 945,260          | 0.17     | 0                            | 0                            | 0.0%     | 9,529,397          | 7,013,347          | 35.9%     |
| DJ US REAL ESTATE           | 0                          | 0                          | 0.0%     | 6,968            | 8,424            | -0.17    | 0                            | 0                            | 0.0%     | 78,520             | 64,531             | 21.7%     |
| NASDAQ BIOTECH              | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%      |
| E-MICRO NIFTY               | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -         |
| S&P CONSUMER STAPLES SE     | 0                          | 0                          | 0.0%     | 5,467            | 1,514            | 2.61     | 0                            | 0                            | 0.0%     | 53,251             | 25,477             | 109.0%    |
| S&P HEALTH CARE SECTOR      | 0                          | 0                          | 0.0%     | 5,823            | 3,887            | 0.5      | 0                            | 0                            | 0.0%     | 54,574             | 62,057             | -12.1%    |
| S&P TECHNOLOGY SECTOR       | 0                          | 0                          | 0.0%     | 3,430            | 1,953            | 0.76     | 0                            | 0                            | 0.0%     | 33,725             | 18,905             | 78.4%     |
| S&P INDUSTRIAL SECTOR       | 0                          | 0                          | 0.0%     | 2,785            | 981              | 1.84     | 0                            | 0                            | 0.0%     | 20,225             | 15,695             | 28.9%     |
| S&P CONSUMER DSCRTNRY S     | 0                          | 0                          | 0.0%     | 5,496            | 2,620            | 1.1      | 0                            | 0                            | 0.0%     | 34,512             | 40,369             | -14.5%    |
| S&P UTILITIES SECTOR        | 0                          | 0                          | 0.0%     | 13,178           | 5,717            | 1.31     | 0                            | 0                            | 0.0%     | 82,155             | 61,483             | 33.6%     |
| S&P FINANCIAL SECTOR        | 0                          | 0                          | 0.0%     | 3,798            | 1,645            | 1.31     | 0                            | 0                            | 0.0%     | 46,621             | 13,556             | 243.9%    |
| S&P ENERGY SECTOR           | 0                          | 0                          | 0.0%     | 6,527            | 7,028            | -0.07    | 0                            | 0                            | 0.0%     | 56,342             | 37,787             | 49.1%     |
| S&P MATERIALS SECTOR        | 0                          | 0                          | 0.0%     | 4,838            | 1,726            | 1.8      | 0                            | 0                            | 0.0%     | 29,560             | 22,426             | 31.8%     |
| FT-SE 100                   | 0                          | -                          | -        | 1,945            | -                | -        | 0                            | -                            | -        | 12,693             | -                  | -         |
| IBOVESPA INDEX              | 0                          | 0                          | 0.0%     | 382              | 619              | -0.38    | 0                            | 0                            | 0.0%     | 4,663              | 2,665              | 75.0%     |
| E-MINI RUSSELL 1000 GROWT   | 0                          | -                          | -        | 114              | -                | -        | 0                            | -                            | -        | 2,276              | -                  | -         |
| E-MINI RUSSELL 1000 VALUE   | 0                          | -                          | -        | 139              | -                | -        | 0                            | -                            | -        | 3,775              | -                  | -         |

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|-----------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Equity Index Options</b> |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| DJIA                        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 32                           | -100.0%  | 0                  | 0                  | 0.0%     |
| MINI \$5 DOW                | 0                          | 0                          | 0.0%     | 6,917            | 6,477            | 0.07     | 0                            | 0                            | 0.0%     | 93,165             | 71,735             | 29.9%    |
| E-MINI S&P500               | 0                          | 20,920                     | -100.0%  | 2,046,984        | 6,750,986        | -0.7     | 110,315                      | 133,105                      | -17.1%   | 38,705,778         | 42,693,045         | -9.3%    |
| S&P 500                     | 144,025                    | 1,036,966                  | -86.1%   | 0                | 0                | 0        | 4,430,950                    | 5,100,264                    | -13.1%   | 0                  | 83                 | -100.0%  |
| E-MINI MIDCAP               | 0                          | 0                          | 0.0%     | 1                | 1                | 0        | 0                            | 0                            | 0.0%     | 10                 | 28                 | -64.3%   |
| E-MINI NASDAQ 100           | 0                          | 0                          | 0.0%     | 147,233          | 99,664           | 0.48     | 0                            | 0                            | 0.0%     | 1,570,714          | 784,120            | 100.3%   |
| NASDAQ                      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 30                           | -100.0%  | 0                  | 0                  | 0.0%     |
| EOM S&P 500                 | 278,989                    | 157,688                    | 76.9%    | 0                | 0                | 0        | 1,251,252                    | 715,940                      | 74.8%    | 0                  | 0                  | 0.0%     |
| EOM EMINI S&P               | 0                          | 0                          | 0.0%     | 1,984,780        | 1,620,184        | 0.23     | 0                            | 0                            | 0.0%     | 10,974,698         | 7,709,534          | 42.4%    |
| EOW1 S&P 500                | 55,592                     | 33,072                     | 68.1%    | 0                | 0                | 0        | 384,851                      | 220,800                      | 74.3%    | 0                  | 0                  | 0.0%     |
| EOW1 EMINI S&P 500          | 0                          | 0                          | 0.0%     | 814,044          | 745,771          | 0.09     | 0                            | 0                            | 0.0%     | 6,499,409          | 6,215,790          | 4.6%     |
| EOW2 S&P 500                | 110,629                    | 78,410                     | 41.1%    | 0                | 0                | 0        | 886,476                      | 535,193                      | 65.6%    | 0                  | 0                  | 0.0%     |
| EOW2 EMINI S&P 500          | 0                          | 0                          | 0.0%     | 752,439          | 1,269,678        | -0.41    | 0                            | 0                            | 0.0%     | 6,834,181          | 6,827,362          | 0.1%     |
| EOW4 EMINI S&P 500          | 0                          | 0                          | 0.0%     | 1,108,737        | 1,059,400        | 0.05     | 0                            | 0                            | 0.0%     | 7,608,849          | 5,944,969          | 28.0%    |
| EOW3 EMINI S&P 500          | 0                          | -                          | -        | 3,826,861        | -                | -        | 27,000                       | -                            | -        | 9,064,082          | -                  | -        |
| EOW3 S&P 500                | 461,051                    | -                          | -        | 0                | -                | -        | 1,421,889                    | -                            | -        | 0                  | -                  | -        |

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| <b>Metals Futures</b>          |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| COMEX GOLD                     | 6,373                      | 16,532                     | -61.5%   | 5,501,510        | 4,289,640        | 0.28     | 75,478                       | 260,292                      | -71.0%   | 32,902,702         | 24,075,714         | 36.7%    |
| E-MINI SILVER                  | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| COMEX MINY COPPER              | 0                          | 0                          | 0.0%     | 334              | 501              | -0.33    | 0                            | 0                            | 0.0%     | 4,116              | 6,070              | -32.2%   |
| COMEX SILVER                   | 470                        | 2,297                      | -79.5%   | 1,431,615        | 953,686          | 0.5      | 7,913                        | 75,581                       | -89.5%   | 10,023,780         | 7,539,971          | 32.9%    |
| COMEX COPPER                   | 396                        | 4,504                      | -91.2%   | 1,492,309        | 1,392,982        | 0.07     | 850                          | 260,899                      | -99.7%   | 11,738,337         | 9,582,919          | 22.5%    |
| NYMEX HOT ROLLED STEEL         | 0                          | 0                          | 0.0%     | 11               | 100              | -0.89    | 0                            | 0                            | 0.0%     | 3,499              | 1,016              | 244.4%   |
| NYMEX PLATINUM                 | 0                          | 0                          | 0.0%     | 266,683          | 250,589          | 0.06     | 38                           | 224                          | -83.0%   | 2,082,933          | 1,879,765          | 10.8%    |
| URANIUM                        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 993                | 1,547              | -35.8%   |
| PALLADIUM                      | 0                          | 140                        | -100.0%  | 96,252           | 97,287           | -0.01    | 63                           | 276                          | -77.2%   | 725,618            | 710,147            | 2.2%     |
| E-MICRO GOLD                   | 0                          | 0                          | 0.0%     | 97,398           | 37,325           | 1.61     | 0                            | 0                            | 0.0%     | 667,510            | 197,345            | 238.2%   |
| SILVER                         | 0                          | 0                          | 0.0%     | 12,077           | 8,838            | 0.37     | 0                            | 0                            | 0.0%     | 59,210             | 60,684             | -2.4%    |
| Gold Kilo                      | 0                          | 0                          | 0.0%     | 3,717            | 3,094            | 0.2      | 0                            | 0                            | 0.0%     | 35,938             | 24,932             | 44.1%    |
| COPPER                         | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ALUMINUM                       | 0                          | 0                          | 0.0%     | 856              | 174              | 3.92     | 0                            | 0                            | 0.0%     | 8,021              | 2,389              | 235.7%   |
| LNDN ZINC                      | 0                          | 0                          | 0.0%     | 35               | 67               | -0.48    | 0                            | 0                            | 0.0%     | 186                | 68                 | 173.5%   |
| COMEX E-Mini SILVER            | 0                          | 0                          | 0.0%     | 2,179            | 917              | 1.38     | 0                            | 0                            | 0.0%     | 8,560              | 6,378              | 34.2%    |
| Aluminium MW Trans Prem Platts | 0                          | 0                          | 0.0%     | 221              | 1,073            | -0.79    | 0                            | 0                            | 0.0%     | 4,488              | 3,983              | 12.7%    |
| COMEX E-Mini GOLD              | 0                          | 0                          | 0.0%     | 15,804           | 7,432            | 1.13     | 0                            | 0                            | 0.0%     | 80,676             | 40,721             | 98.1%    |
| METALS                         | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 5                  | -                  | -        |
| IRON ORE 58 CHINA TSI FUTU     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| FERROUS PRODUCTS               | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| IRON ORE 62 CHINA TSI FUTU     | 0                          | 0                          | 0.0%     | 585              | 0                | 0        | 0                            | 0                            | 0.0%     | 3,995              | 0                  | 0.0%     |
| IRON ORE 62 CHINA PLATTS F     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                             | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|-----------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Metals Options</b>       |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| COMEX GOLD                  | 39,237                     | 109,998                    | -64.3%   | 403,940          | 625,429          | -0.35    | 507,495                      | 628,726                      | -19.3%   | 4,202,536          | 2,963,931          | 41.8%    |
| COMEX SILVER                | 7,693                      | 11,014                     | -30.2%   | 118,975          | 98,650           | 0.21     | 55,721                       | 103,860                      | -46.3%   | 677,540            | 615,304            | 10.1%    |
| COMEX COPPER                | 90                         | 815                        | -89.0%   | 3,201            | 1,271            | 1.52     | 1,073                        | 6,594                        | -83.7%   | 14,945             | 8,594              | 73.9%    |
| NYMEX PLATINUM              | 5                          | 2                          | 150.0%   | 549              | 490              | 0.12     | 2,010                        | 2,095                        | -4.1%    | 4,050              | 3,150              | 28.6%    |
| PALLADIUM                   | 0                          | 335                        | -100.0%  | 472              | 200              | 1.36     | 272                          | 1,192                        | -77.2%   | 1,474              | 2,131              | -30.8%   |
| SHORT TERM GOLD             | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| SHORT TERM                  | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| SILVER                      | 0                          | 0                          | 0.0%     | 196              | 97               | 1.02     | 0                            | 10                           | -100.0%  | 229                | 1,132              | -79.8%   |
| COPPER                      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 10                 | -100.0%  |
| GOLD                        | 60                         | 355                        | -83.1%   | 4,626            | 1,280            | 2.61     | 616                          | 1,848                        | -66.7%   | 25,875             | 10,919             | 137.0%   |
| IRON ORE 62 CHINA TSI CALL  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| IRON ORE 62 CHINA TSI PUT O | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HOT ROLLED COIL STEEL CAL   | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| HOT ROLLED COIL STEEL PUT   | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| <b>Energy Futures</b>       |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| ETHANOL FWD                 | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HOUSTON SHIP CHANNEL BAS    | 0                          | 0                          | 0.0%     | 243              | 0                | 0        | 0                            | 0                            | 0.0%     | 243                | 61                 | 298.4%   |
| NORTHWEST ROCKIES BASIS     | 0                          | 0                          | 0.0%     | 186              | 0                | 0        | 0                            | 0                            | 0.0%     | 308                | 0                  | 0.0%     |
| HEATING OIL VS ICE GASOIL   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| FUEL OIL CRACK VS ICE       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| FUEL OIL NWE CRACK VS ICE   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NGPL MIDCONTINENT INDEX     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NGPL TEXOK INDEX            | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CENTERPOINT BASIS SWAP      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NATURAL GAS                 | 0                          | 135                        | -100.0%  | 24,445           | 3,587            | 5.81     | 800                          | 1,013                        | -21.0%   | 94,521             | 21,415             | 341.4%   |
| HTG OIL                     | 36                         | 0                          | 0.0%     | 0                | 0                | 0        | 36                           | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| LTD NAT GAS                 | 0                          | 0                          | 0.0%     | 43,613           | 77,648           | -0.44    | 0                            | 549                          | -100.0%  | 496,831            | 413,509            | 20.1%    |
| GASOIL MINI CALENDAR SWA    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOIL 0.1 ROTTERDAM BAR    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| N ROCKIES PIPE SWAP         | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| HUSTN SHIP CHNL PIPE SWP  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SAN JUAN PIPE SWAP        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SOCAL PIPE SWAP           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PANHANDLE PIPE SWAP       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| BRENT OIL LAST DAY        | 300                        | 0                          | 0.0%     | 1,617,387        | 2,597,394        | -0.38    | 344                          | 0                            | 0.0%     | 14,084,432         | 15,782,151         | -10.8%   |
| BRENT CALENDAR SWAP       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOIL 0.1 CARGOES CIF NE | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOIL 0.1 RDAM BRGS VS I | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOIL 0.1 CIF NWE VS ISE | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NY H OIL PLATTS VS NYMEX  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MARS (ARGUS) VS WTI SWAP  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MARS (ARGUS) VS WTI TRD M | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| WTS (ARGUS) VS WTI TRD MT | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE 180CST BALMO    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE 380CST BALMO    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE JET KERO BALMO  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE NAPHTHA BALMO   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| DUBAI CRUDE OIL BALMO     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EURO 3.5% FUEL OIL RDAM B | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EURO 1% FUEL OIL NEW BALM | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NY HARBOR 1% FUEL OIL BAL | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GULF COAST 3% FUEL OIL BA | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PREMIUM UNLD 10P FOB MED  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOIL 10P CRG CIF NW VS  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOIL 0.1 CRG CIF NW VS  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| BRENT CFD SWAP            | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| JET FUEL CRG CIF NEW VS I | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| 3.5% FUEL OIL CID MED SWA | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ARGUS PROPAN FAR EST IND  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ULSD 10PPM CIF VS ICE GAS | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOIL 0.1 CIF VS ICE GAS | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| JET FUEL BRG FOB RDM VS I | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM NILL DA OFF-PEAK      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM AECO DA OFF-PEAK      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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|                           | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| PJM DAYTON DA PEAK        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM BGE DA PEAK           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM BGE DA OFF-PEAK       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM DPL DA PEAK           | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| PJM DPL DA OFF-PEAK       | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| PJM EASTERNH DA PEAK      | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| PJM JCPL DA PEAK          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM JCPL DA OFF-PEAK      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM PEPSCO DA PEAK        | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| PJM PEPSCO DA OFF-PEAK    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM PPL DA PEAK           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM PPL DA OFF-PEAK       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM PSEG DA PEAK          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM PSEG DA OFF-PEAK      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM WESTHDA PEAK          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM WESTH DA OFF-PEAK     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM WESTH RT PEAK         | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM WESTH RT OFF-PEAK     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ALGONQUIN CITYGATES BASI  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TCO NG INDEX SWAP         | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TENNESSEE 500 LEG NG INDE | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| MICHCON NG INDEX SWAP     | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -        |
| CIG ROCKIES NG INDEX SWA  | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -        |
| TENNESSEE 500 LEG NG SWIN | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| GASOIL 0.1 CIF MED SWAP   | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -        |
| GASOIL 0.1CIF MED VS ICE  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ULSD 10PPM CIF MED SWAP   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ULSD 10PPM CIF MED VS ICE | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| BRENT BALMO SWAP          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ICE GASOIL BALMO SWAP     | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| JET FUEL CARGOES CIF NEW  | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| ULSD 10PPM CIF NW BALMO S | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| ULSD 10PPM CIF MED BALMO  | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -        |
| PERMIAN BASIS SWAP        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| Tetco ELA Basis           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PANHANDLE INDEX SWAP FUT  | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 0                  | -                  | -        |
| GULF COAST JET FUEL CLNDR | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EUROPE 1% FUEL OIL NWE CA | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE FUEL 180CST CAL | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO G                   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GULF COAST NO.6 FUEL OIL  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEW YORK HUB ZONE G PEAK  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NORTHERN ILLINOIS OFF-PEA | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| AEP-DAYTON HUB DAILY      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE FUEL OIL SPREA  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE JET KERO GASOI  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TETCO M-3 INDEX           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| DOMINION TRAN INC - APP I | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 0                  | -                  | -        |
| CINERGY HUB PEAK MONTH    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HEATING OIL PHY           | 17                         | 133                        | -87.2%   | 2,827,583        | 2,775,957        | 0.02     | 703                          | 4,292                        | -83.6%   | 20,755,993         | 19,253,144         | 7.8%     |
| GASOIL 10PPM CARGOES CIF  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOIL 10PPM VS ICE SWAP  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NY1% VS GC SPREAD SWAP    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE GASOIL BALMO    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EUROPEAN NAPHTHA BALMO    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PREMIUM UNLD 10PPM CARG   | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| GASOIL 0.1 BRGS FOB VS IC | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| DIESEL 10P BRG FOB RDM VS | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ARGUS PROPAN(SAUDI ARAM   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM AECO DA PEAK          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| N ILLINOIS HUB MTHLY      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MINY HTG OIL              | 0                          | 0                          | 0.0%     | 21               | 11               | 0.91     | 0                            | 0                            | 0.0%     | 72                 | 59                 | 22.0%    |
| WAHA BASIS                | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MINY NATURAL GAS          | 0                          | 0                          | 0.0%     | 24,762           | 22,444           | 0.1      | 0                            | 0                            | 0.0%     | 174,111            | 208,272            | -16.4%   |
| SINGAPORE GASOIL SWAP     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| UP DOWN GC ULSD VS NMX H  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM NILL DA PEAK          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM DAYTON DA OFF-PEAK    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| LA JET (OPIS) SWAP        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ULSD UP-DOWN BALMO SWP    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| JET FUEL UP-DOWN BALMO C  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EIA FLAT TAX ONHWAY DIESE | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ARGUS LLS VS. WTI (ARG) T | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| JAPAN NAPHTHA BALMO SWA   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NY 3.0% FUEL OIL (PLATTS  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NY 2.2% FUEL OIL (PLATTS  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| BRENT CFD(PLATTS) VS FRNT | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| RBOB GASOLINE BALMO CLNC  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOLINE UP-DOWN BALMO S  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TRANSCO ZONE 4 NAT GAS IN | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| COLUMBIA GULF MAIN NAT G  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SOUTHERN NAT LA NAT GAS   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| FL GAS ZONE 3 NAT GAS IND | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 0                  | -                  | -        |
| COLUMB GULF MAINLINE NG B | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TENNESSEE 800 LEG NG BASI | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TRANSCO ZONE 1 NG BASIS   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ONEOK OKLAHOMA NG BASIS   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SOUTH STAR TEX OKLHM KNS  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TEXAS GAS ZONE1 NG BASIS  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO ZONE C 5MW D AH O P | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM NI HUB 5MW REAL TIME  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO ZONE G 5MW D AH O P | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO ZONE J 5MW D AH PK  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO ZONE J 5MW D AH O P | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM COMED 5MW D AH PK     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM COMED 5MW D AH O PK   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEPOOL INTR HUB 5MW D AH  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CIN HUB 5MW REAL TIME PK  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CIN HUB 5MW D AH PK       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO ZONE A 5MW D AH PK  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO ZONE A 5MW D AH O P | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEPOOL W CNT MASS 5MW D   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| NEPOOL CONECTIC 5MW D AH  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEPOOL CNCTCT 5MW D AH O  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEPOOL SE MASS 5MW D AH   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEPOOL SE MASS 5MW D AH   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEPOOL NE MASS 5MW D AH   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEPOOL NE MASS 5MW D AH   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEPOOL MAINE 5MW D AH PK  | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| NYISO ZONE C 5MW D AH PK  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEPOOL W CNTR M 5MW D AH  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO ZONE G 5MW D AH PK  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM AD HUB 5MW REAL TIME  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEPOOL MAINE 5MW D AH O E | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| CIN HUB 5MW D AH O PK     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CIN HUB 5MW REAL TIME O P | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| RBOB PHY                  | 39                         | 111                        | -64.9%   | 3,166,827        | 3,346,075        | -0.05    | 460                          | 2,698                        | -83.0%   | 24,333,643         | 21,915,072         | 11.0%    |
| SING FUEL                 | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| LLS (ARGUS) CALENDAR SWA  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| RBOB VS HEATING OIL SWAP  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NORTHEN NATURAL GAS DEM   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HOUSTON SHIP CHANNEL IND  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EUROPE JET KERO NWE CALS  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MINY WTI CRUDE OIL        | 0                          | 0                          | 0.0%     | 215,615          | 203,972          | 0.06     | 0                            | 0                            | 0.0%     | 2,045,808          | 2,050,493          | -0.2%    |
| NEW ENGLAND HUB PEAK DAI  | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -        |
| ROCKIES KERN OPAL - NW IN | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -        |
| NATURAL GAS PHY           | 28                         | 2,354                      | -98.8%   | 6,571,658        | 6,160,967        | 0.07     | 1,511                        | 20,079                       | -92.5%   | 50,691,969         | 45,863,584         | 10.5%    |
| APPALACHIAN COAL (PHY)    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| WTI CALENDAR              | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 1,069                        | 22                           | 4,759.1% | 0                  | 0                  | 0.0%     |
| HENRY HUB BASIS SWAP      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 31                 | 0                  | 0.0%     |
| DEMARC INDEX FUTURE       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| WTS (ARGUS) VS WTI SWAP   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PREMIUM UNLEAD 10PPM FOB  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CHICAGO UNL GAS PL VS RBO | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CRUDE OIL PHY             | 359                        | 6,453                      | -94.4%   | 18,345,524       | 14,361,226       | 0.28     | 18,159                       | 114,159                      | -84.1%   | 150,385,266        | 110,606,955        | 36.0%    |
| RBOB CALENDAR SWAP        | 0                          | 0                          | 0.0%     | 0                | 2                | -1       | 0                            | 12                           | -100.0%  | 0                  | 2                  | -100.0%  |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| ISO NEW ENGLAND PK LMP    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| LA CARB DIESEL (OPIS)     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CHICAGO ETHANOL SWAP      | 0                          | 0                          | 0.0%     | 1,790            | 563              | 2.18     | 0                            | 0                            | 0.0%     | 9,165              | 3,203              | 186.1%   |
| NEW YORK ETHANOL SWAP     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOIL BULLET SWAP        | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| EURO PROPANE CIF ARA SW   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| JAPAN C&F NAPHTHA SWAP    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYMEX ULSD VS NYMEX HO    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOLINE UP-DOWN (ARGUS)  | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| LA CARBOB GASOLINE(OPIS)S | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| LA CARB DIESEL (OPIS) SWA | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| JAPAN C&F NAPHTHA CRACK   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| LLS (ARGUS) VS WTI SWAP   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MINY RBOB GAS             | 0                          | 0                          | 0.0%     | 3                | 4                | -0.25    | 0                            | 0                            | 0.0%     | 27                 | 35                 | -22.9%   |
| RBOB GAS                  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| RBOB CRACK SPREAD         | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| RBOB UP-DOWN CALENDAR S   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NY HARBOR RESIDUAL FUEL 1 | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NY HARBOR HEAT OIL SWP    | 15                         | 3                          | 400.0%   | 0                | 11               | -1       | 39                           | 146                          | -73.3%   | 3                  | 11                 | -72.7%   |
| LA JET FUEL VS NYM NO 2 H | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ANR OKLAHOMA              | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MICHIGAN BASIS            | 0                          | 0                          | 0.0%     | 62               | 0                | 0        | 0                            | 0                            | 0.0%     | 244                | 0                  | 0.0%     |
| Sumas Basis Swap          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NGPL MID-CONTINENT        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TEXAS EASTERN ZONE M-3 BA | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 31                 | 0                  | 0.0%     |
| PGE&E CITYGATE            | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| PJM MONTHLY               | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NORTHEN NATURAL GAS VEN   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| DOMINION TRANSMISSION INC | 0                          | 0                          | 0.0%     | 152              | 0                | 0        | 0                            | 0                            | 0.0%     | 243                | 0                  | 0.0%     |
| TCO BASIS SWAP            | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CIG BASIS                 | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM DAILY                 | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| COLUMBIA GULF ONSHORE     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| Tetco STX Basis           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| Transco Zone 3 Basis      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HENRY HUB SWING FUTURE    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EL PASO PERMIAN INDEX SWA | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 0                  | -                  | -        |
| HENRY HUB INDEX SWAP FUT  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| WAHA INDEX SWAP FUTURE    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GULF COAST GASOLINE CLND  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EUROPE NAPHTHA CALSWAP    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EUROPE 1% FUEL OIL RDAM C | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EUROPE 3.5% FUEL OIL RDAM | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EUROPE 3.5% FUEL OIL MED  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PANHANDLE BASIS SWAP FUT  | 0                          | 0                          | 0.0%     | 31               | 0                | 0        | 0                            | 0                            | 0.0%     | 61                 | 0                  | 0.0%     |
| SAN JUAN BASIS SWAP       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SOCAL BASIS SWAP          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TRANSCO ZONE 6 BASIS SWA  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO A                   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO J                   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GULF COAST JET VS NYM 2 H | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NY HARBOR RESIDUAL FUEL   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MICHIGAN HUB PEAK MONTH   | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| MICHIGAN HUB OFF-PEAK MO  | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| EURO 3.5% FUEL OIL SPREAD | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOIL CALENDAR SWAP      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EURO GASOIL 10 CAL SWAP   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NGPL MIDCONTINENT SWING   | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 0                  | -                  | -        |
| NGPL TEXOK SWING SWAP     | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| CENTERPOINT EAST INDEX    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CRUDE OIL                 | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 21                 | -100.0%  |
| BRENT FINANCIAL FUTURES   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| WTI-BRENT BULLET SWAP     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| WTI-BRENT CALENDAR SWAP   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| DATED TO FRONTLINE BRENT  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ICE BRENT DUBAI SWAP      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOIL CRACK SPREAD CALE  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EUROPEAN NAPHTHA CRACK S  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| EURO GASOIL 10PPM VS ICE  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| JET CIF NWE VS ICE        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| JET BARGES VS ICE GASOIL  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE GASOIL VS ICE   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NATURAL GAS PEN SWP       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 92                           | 20,576                       | -99.6%   | 0                  | 0                  | 0.0%     |
| WESTERN RAIL DELIVERY PR  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EASTERN RAIL DELIVERY CSX | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EUROPE DATED BRENT SWAP   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TC5 RAS TANURA TO YOKOHA  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TD3 MEG TO JAPAN 250K MT  | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| TC2 ROTTERDAM TO USAC 37  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM OFF-PEAK LMP SWAP FU  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO A OFF-PEAK          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO G OFF-PEAK          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO J OFF-PEAK          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ISO NEW ENGLAND OFF-PEAK  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| AEP-DAYTON HUB OFF-PEAK   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| N ILLINOIS HUB DAILY      | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 0                  | -                  | -        |
| AEP-DAYTON HUB MTHLY      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| FUELOIL SWAP:CARGOES VS.  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EAST/WEST FUEL OIL SPREAD | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE 380CST FUEL OIL | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE JET KEROSENE S  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE NAPHTHA SWAP    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SONAT BASIS SWAP FUTURE   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| FLORIDA GAS ZONE3 BASIS S | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TRANSCO ZONE4 BASIS SWAP  | 0                          | 0                          | 0.0%     | 186              | 0                | 0        | 0                            | 0                            | 0.0%     | 646                | 0                  | 0.0%     |
| ANR LOUISIANA BASIS SWAP  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TENNESSEE 500 LEG BASIS S | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TENNESSEE ZONE 0 BASIS S  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TRANSCO ZONE 6 INDEX      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CINERGY HUB OFF-PEAK MON  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GULF COAST ULSD CALEND    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 3                  | 2                  | 50.0%    |
| GULF COAST ULSD CRACK SP  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                              | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|------------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Futures</b>        |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| HENRY HUB SWAP               | 0                          | 0                          | 0.0%     | 153,919          | 44,810           | 2.43     | 1,472                        | 236                          | 523.7%   | 1,342,408          | 195,868            | 585.4%   |
| DUBAI CRUDE OIL CALENDAR     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| USGC UNL 87 CRACK SPREAD     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYH NO 2 CRACK SPREAD CA     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NO 2 UP-DOWN SPREAD CALE     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE MOGAS 92 UNLEA     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ETHANOL T2 FOB ROTT INCL     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE MOGAS 92 UNLEA     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PROPANE NON-LDH MT. BEL (    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PROPANE NON-LDH MB (OPIS)    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NY JET FUEL (PLATTS) HEAT C  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| JET AV FUEL (P) CAR FM ICE G | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| FUEL OIL (PLATS) CAR CM      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| FUEL OIL (PLATS) CAR CN      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NY JET FUEL (ARGUS) VS HEA   | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| NY ULSD (ARGUS) VS HEATIN    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MISO 5MW PEAK                | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| MISO 5MW OFF PEAK            | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| PJM PECO ZONE5MW PEAK C      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| IN DELIVERY MONTH EUA        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 225                | 506                | -55.5%   |
| DATED BRENT (PLATTS) DAILY   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PETRO OUTRIGHT EURO          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GAS EURO-BOB OXY NWE BA      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GAS EURO-BOB OXY NWE BA      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PREM UNL GAS 10PPM RDAM      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PREM UNL GAS 10PPM RDAM      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MONT BELVIEU NORMAL BUTA     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MONT BELVIEU ETHANE 5 DEC    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MONT BELVIEU LDH PROPANE     | 0                          | 0                          | 0.0%     | 1                | 5                | -0.8     | 0                            | 0                            | 0.0%     | 48                 | 112                | -57.1%   |
| EUROPEAN GASOIL (ICE)        | 0                          | 0                          | 0.0%     | 11,509           | 8,962            | 0.28     | 0                            | 0                            | 0.0%     | 1,453,810          | 73,881             | 1,867.8% |
| ERCOT NORTH ZMCPE 5MW O      | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -        |
| ERCOT NORTH ZMCPE 5MW O      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ERCOT NORTH ZMCPE 5MW P      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE JET KERO VS. GA    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| MONT BELVIEU NORMAL BUTA  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MONT BELVIEU ETHANE OPIS  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MONT BELVIEU NATURAL GAS  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MONT BELVIEU LDH PROPANE  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CONWAY NORMAL BUTANE (O   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CONWAY NATURAL GASOLINE   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CONWAY PROPANE 5 DECIMA   | 0                          | 0                          | 0.0%     | 0                | 7                | -1       | 0                            | 0                            | 0.0%     | 0                  | 20                 | -100.0%  |
| PETROCHEMICALS            | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MONT BELVIEU NATURAL GAS  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CRUDE OIL LAST DAY        | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| ELEC NYISO OFF-PEAK       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ELEC MISO PEAK            | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MARS BLEND CRUDE OIL      | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -        |
| NYMEX ALUMINUM FUTURES    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOIL 0.1 CIF MED BALMO  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| RBOB CRACK SPREAD BALMO   | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -        |
| CARBON EUA EMISSIONS EUR  | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| DIESEL 10PPM BARGES FOB B | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| EURO 3.5% FUEL OIL M CRK  | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| PJM DUQUESNE 5MW D AH PK  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM DUQUS 5MW D AH O PK   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PETRO CRK&SPRD EURO       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GRP THREE ULSD(PLT)VS HEA | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HEATING OIL CRCK SPRD BAL | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -        |
| CHICAGO ULSD PL VS HO SPR | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GRP THREE UNL GS (PLT) VS | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CRUDE OIL OUTRIGHTS       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM WES HUB PEAK LMP 50 M | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| FREIGHT MARKETS           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEPOOL NEW HAMP 5MW D A   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ELEC ERCOT OFF PEAK       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ELECTRICITY OFF PEAK      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HEATING OIL BALMO CLNDR S | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CRUDE OIL SPRDS           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Futures</b>     |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| PJM APS ZONE DA PEAK      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ELEC FINSETTLED           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM APS ZONE DA OFF-PEAK  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NAT GAS BASIS SWAP        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PLASTICS                  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PETRO OUTRIGHT NA         | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MNC FUT                   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MCCLOSKEY ARA ARGS COAL   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MCCLOSKEY RCH BAY COAL    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TRANSCO ZONE 6 PIPE SWAP  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ELEC ERCOT DLY PEAK       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GC ULSD VS GC JET SPREAD  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PETRO CRCKS & SPRDS NA    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ALGON CITY GATES NAT GAS  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE GASOIL CALEND A | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MJC FUT                   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NGPL TEX/OK               | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| RBOB SPREAD (PLATTS) SWA  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEPOOL RHD ISLD 5MW D AH  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE GASOIL          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NEPOOL RHODE IL 5MW D AH  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| TENN 800 LEG NAT GAS INDE | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ONTARIO POWER SWAPS       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PETROLEUM PRODUCTS ASIA   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| INDONESIAN COAL           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| DAILY PJM                 | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| INDIANA MISO              | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PETRO CRCKS & SPRDS ASIA  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| AUSTRALIAN COKE COAL      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| COAL SWAP                 | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NYISO CAPACITY            | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PETROLEUM PRODUCTS        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CANADIAN LIGHT SWEET OIL  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MICHIGAN MISO             | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                            | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|----------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Futures</b>      |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| NEW YORK HUB ZONE J PEAK   | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 0                  | -                  | -        |
| MJB FUT                    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EURO-DENOMINATED PETRO     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EU LOW SULPHUR GASOIL CR   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NY HARBOR LOW SULPUR GA    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CRUDE OIL TRADE AT MARKE   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MINI RBOB V. EBOBARG NWE   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GROUP THREE ULSD (PLATTS)  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NATURAL GAS INDEX          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MINI GAS EUROBOB OXY NWE   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MINI RBOB V. EBOB(ARGUS) N | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| VENTURA NAT GAS PLATTS FI  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CHICAGO ULSD (PLATTS) SWA  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| COLUMBIA GULF NAT GAS FIX  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CENTER POINT NAT GAS FIXE  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| 3.5% FUEL OIL CIF BALMO S  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SUMAS NAT GAS PLATTS FIXE  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MGN1 SWAP FUT              | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NATURAL GAS FIXED PRICE S  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| DLY GAS EURO-BOB OXY       | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 0                  | -                  | -        |
| UCM FUT                    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| DIESEL10PPM BARG VS ICE LS | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ELEC ERCOT DLY OFF PK      | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 0                  | -                  | -        |
| PJM ATSI ELEC              | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MGF FUT                    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| DY EURO 3.5% FUEL OI RDA   | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 0                  | -                  | -        |
| EMMISSIONS                 | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ELECTRICITY ERCOT PEAK     | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| NY HARBOR LOW SULPUR GA    | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| <b>Energy Options</b>      |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| ETHANOL                    | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 0                  | -                  | -        |

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## CME Group Exchange Volume Comparison Report - Monthly

|                           | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG   |
|---------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|------------|
| <b>Energy Options</b>     |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |            |
| NATURAL GAS               | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 0                  | -                  | -          |
| PGE CITYGATE PIPE SWAP    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| N ROCKIES PIPE SWAP       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| HUSTN SHIP CHNL PIPE SWP  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| SAN JUAN PIPE SWAP        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| SOCAL PIPE SWAP           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| BRENT OIL LAST DAY        | 677                        | 91                         | 644.0%   | 4,018            | 0                | 0        | 9,897                        | 2,097                        | 372.0%   | 7,421              | 4                  | 185,425.0% |
| BRENT CALENDAR SWAP       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| SINGAPORE JET FUEL CALEN  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| ROTTERDAM 3.5%FUEL OIL CL | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| SINGAPORE FUEL OIL 180 CS | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| HEATING OIL PHY           | 911                        | 1,381                      | -34.0%   | 5,719            | 4,628            | 0.24     | 5,701                        | 18,975                       | -70.0%   | 49,941             | 42,679             | 17.0%      |
| HENRY HUB FINANCIAL LAST  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| RBOB PHY                  | 245                        | 676                        | -63.8%   | 4,942            | 9,189            | -0.46    | 7,754                        | 12,450                       | -37.7%   | 55,380             | 49,453             | 12.0%      |
| NATURAL GAS PHY           | 1,716                      | 12,152                     | -85.9%   | 827,495          | 217,981          | 2.8      | 18,519                       | 193,274                      | -90.4%   | 4,325,373          | 1,423,071          | 203.9%     |
| CRUDE OIL APO             | 550                        | 73                         | 653.4%   | 0                | 0                | 0        | 7,087                        | 419                          | 1,591.4% | 0                  | 0                  | 0.0%       |
| NATURAL GAS 3 M CSO FIN   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 250                          | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| NATURAL GAS 1 M CSO FIN   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 200                          | 962                          | -79.2%   | 0                  | 0                  | 0.0%       |
| WTI CRUDE OIL 1 M CSO FI  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 3,000                        | -100.0%  | 16,826             | 0                  | 0.0%       |
| CRUDE OIL PHY             | 5,028                      | 69,543                     | -92.8%   | 2,669,418        | 2,662,097        | 0        | 203,578                      | 942,451                      | -78.4%   | 19,235,515         | 15,353,941         | 25.3%      |
| RBOB CALENDAR SWAP        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 50                           | 9                            | 455.6%   | 0                  | 0                  | 0.0%       |
| RBOB 1MO CAL SPD OPTIONS  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| ISO NEW ENGLAND PK LMP    | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%       |
| NY HARBOR HEAT OIL SWP    | 170                        | 126                        | 34.9%    | 0                | 0                | 0        | 1,293                        | 1,282                        | 0.9%     | 6                  | 16                 | -62.5%     |
| PJM MONTHLY               | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| WTI-BRENT BULLET SWAP     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 1,000              | -100.0%    |
| HO 1 MONTH CLNDR OPTIONS  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 125                          | -100.0%  | 0                  | 0                  | 0.0%       |
| NG HH 3 MONTH CAL         | 0                          | -                          | -        | 0                | -                |          | 500                          | -                            | -        | 0                  | -                  | -          |
| CRUDE OIL 1MO             | 0                          | 0                          | 0.0%     | 128,821          | 6,200            | 19.78    | 100                          | 4,600                        | -97.8%   | 420,022            | 49,062             | 756.1%     |
| WTI 6 MONTH CALENDAR OPTI | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%       |
| WTI 12 MONTH CALENDAR OP  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| NYMEX EUROPEAN GASOIL A   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| NYMEX EUROPEAN GASOIL O   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |
| PETRO OUTRIGHT EURO       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%       |

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## CME Group Exchange Volume Comparison Report - Monthly

|                          | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|--------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Options</b>    |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| NYISO ZONE G 5MW PEAK OP | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PETROCHEMICALS           | 0                          | 0                          | 0.0%     | 2                | 4                | -0.5     | 0                            | 0                            | 0.0%     | 10                 | 33                 | -69.7%   |
| NATURAL GAS SUMMER STRIF | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| NATURAL GAS OPTION ON CA | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ELEC MISO PEAK           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EUROPEAN JET KEROSENE N  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM CALENDAR STRIP       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CRUDE OIL OUTRIGHTS      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| APPALACHIAN COAL         | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ELECTRICITY OFF PEAK     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ELEC FINSETTLED          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| BRENT 1 MONTH CAL        | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| CRUDE OIL CALNDR STRIP   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NATURAL GAS 5 M CSO FIN  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MCCLOSKEY ARA ARGS COAL  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MCCLOSKEY RCH BAY COAL   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NATURAL GAS 2 M CSO FIN  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NATURAL GAS 6 M CSO FIN  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| GASOIL CRACK SPREAD AVG  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SINGAPORE GASOIL CALEND  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| ETHANOL SWAP             | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SHORT TERM NATURAL GAS   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SHORT TERM               | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NATURAL GAS 12 M CSO FIN | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SHORT TERM CRUDE OIL     | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| COAL SWAP                | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| DAILY CRUDE OIL          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| COAL API2 INDEX          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| EURO-DENOMINATED PETRO   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| 1 MO GASOIL CAL SWAP SPR | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -        |
| PJM WES HUB PEAK CAL MTH | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM WES HUB PEAK LMP 50M | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -        |
| COAL API4 INDEX          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PJM ELECTRIC             | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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|                          | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|--------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Energy Options</b>    |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| LLS CRUDE OIL            | 0                          | -                          | -        | 0                | -                |          | 0                            | -                            | -        | 0                  | -                  | -        |
| GASOLINE                 | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| WTI CRUDE OIL 12 M CSO F | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| <b>FX Futures</b>        |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| AUSTRALIAN DOLLAR        | 60                         | 138                        | -56.5%   | 1,739,906        | 1,887,489        | -0.08    | 749                          | 5,860                        | -87.2%   | 14,875,590         | 13,948,523         | 6.6%     |
| BRITISH POUND            | 12                         | 216                        | -94.4%   | 2,333,130        | 1,742,792        | 0.34     | 705                          | 10,224                       | -93.1%   | 16,700,310         | 14,763,203         | 13.1%    |
| BRAZIL REAL              | 0                          | 0                          | 0.0%     | 28,446           | 46,143           | -0.38    | 0                            | 30                           | -100.0%  | 337,891            | 250,506            | 34.9%    |
| CANADIAN DOLLAR          | 0                          | 327                        | -100.0%  | 1,238,653        | 1,438,474        | -0.14    | 744                          | 7,136                        | -89.6%   | 10,870,510         | 10,107,286         | 7.6%     |
| E-MINI EURO FX           | 0                          | 0                          | 0.0%     | 61,158           | 104,763          | -0.42    | 0                            | 0                            | 0.0%     | 575,539            | 950,736            | -39.5%   |
| EURO FX                  | 522                        | 1,484                      | -64.8%   | 2,723,147        | 4,652,278        | -0.41    | 6,320                        | 50,190                       | -87.4%   | 28,565,503         | 39,670,774         | -28.0%   |
| E-MINI JAPANESE YEN      | 0                          | 0                          | 0.0%     | 33,583           | 13,706           | 1.45     | 0                            | 0                            | 0.0%     | 249,122            | 124,228            | 100.5%   |
| JAPANESE YEN             | 147                        | 237                        | -38.0%   | 2,629,425        | 2,231,015        | 0.18     | 2,785                        | 25,464                       | -89.1%   | 21,641,970         | 20,408,358         | 6.0%     |
| MEXICAN PESO             | 0                          | 0                          | 0.0%     | 835,046          | 851,033          | -0.02    | 0                            | 120,694                      | -100.0%  | 7,586,727          | 6,100,638          | 24.4%    |
| NEW ZEALND DOLLAR        | 0                          | 0                          | 0.0%     | 405,442          | 460,741          | -0.12    | 0                            | 732                          | -100.0%  | 3,129,668          | 2,955,576          | 5.9%     |
| NKR/USD CROSS RATE       | 0                          | 0                          | 0.0%     | 649              | 328              | 0.98     | 0                            | 0                            | 0.0%     | 9,990              | 6,945              | 43.8%    |
| RUSSIAN RUBLE            | 0                          | 0                          | 0.0%     | 16,919           | 12,224           | 0.38     | 0                            | 4                            | -100.0%  | 194,195            | 117,054            | 65.9%    |
| S.AFRICAN RAND           | 0                          | 4                          | -100.0%  | 11,609           | 9,907            | 0.17     | 0                            | 806                          | -100.0%  | 99,533             | 96,721             | 2.9%     |
| SWISS FRANC              | 0                          | 0                          | 0.0%     | 326,942          | 376,772          | -0.13    | 0                            | 1,073                        | -100.0%  | 3,254,027          | 3,272,322          | -0.6%    |
| AD/CD CROSS RATES        | 0                          | 0                          | 0.0%     | 0                | 9                | -1       | 0                            | 0                            | 0.0%     | 37                 | 172                | -78.5%   |
| AD/JY CROSS RATES        | 0                          | 0                          | 0.0%     | 2,324            | 4,836            | -0.52    | 0                            | 0                            | 0.0%     | 29,773             | 24,049             | 23.8%    |
| AD/NE CROSS RATES        | 0                          | 0                          | 0.0%     | 55               | 27               | 1.04     | 0                            | 0                            | 0.0%     | 594                | 373                | 59.2%    |
| BP/JY CROSS RATES        | 0                          | 0                          | 0.0%     | 3,528            | 539              | 5.55     | 0                            | 0                            | 0.0%     | 12,926             | 8,501              | 52.1%    |
| BP/SF CROSS RATES        | 0                          | 0                          | 0.0%     | 182              | 238              | -0.24    | 0                            | 0                            | 0.0%     | 309                | 1,360              | -77.3%   |
| CD/JY CROSS RATES        | 0                          | 0                          | 0.0%     | 1                | 7                | -0.86    | 0                            | 0                            | 0.0%     | 10                 | 141                | -92.9%   |
| EC/AD CROSS RATES        | 0                          | 0                          | 0.0%     | 682              | 513              | 0.33     | 0                            | 0                            | 0.0%     | 11,681             | 10,359             | 12.8%    |
| EC/CD CROSS RATES        | 0                          | 0                          | 0.0%     | 1,387            | 756              | 0.83     | 0                            | 0                            | 0.0%     | 16,542             | 17,547             | -5.7%    |
| EC/NOK CROSS RATES       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 21                           | -100.0%  | 7                  | 18                 | -61.1%   |
| EC/SEK CROSS RATES       | 0                          | 0                          | 0.0%     | 21               | 29               | -0.28    | 0                            | 0                            | 0.0%     | 460                | 472                | -2.5%    |
| EFX/BP CROSS RATES       | 0                          | 0                          | 0.0%     | 35,235           | 41,472           | -0.15    | 0                            | 0                            | 0.0%     | 513,043            | 411,489            | 24.7%    |
| EFX/JY CROSS RATES       | 0                          | 0                          | 0.0%     | 26,976           | 36,443           | -0.26    | 0                            | 0                            | 0.0%     | 287,423            | 297,555            | -3.4%    |

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## CME Group Exchange Volume Comparison Report - Monthly

|                         | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|-------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>FX Futures</b>       |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| EFX/SF CROSS RATES      | 0                          | 0                          | 0.0%     | 12,391           | 23,003           | -0.46    | 0                            | 0                            | 0.0%     | 225,711            | 213,334            | 5.8%     |
| SF/JY CROSS RATES       | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| SKR/USD CROSS RATES     | 0                          | 0                          | 0.0%     | 929              | 588              | 0.58     | 0                            | 20                           | -100.0%  | 10,181             | 7,812              | 30.3%    |
| CZECK KORUNA (US)       | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| CZECK KORUNA (EC)       | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| HUNGARIAN FORINT (US)   | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 2                  | -100.0%  |
| HUNGARIAN FORINT (EC)   | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| POLISH ZLOTY (US)       | 0                          | 0                          | 0.0%     | 301              | 23               | 12.09    | 0                            | 0                            | 0.0%     | 2,692              | 980                | 174.7%   |
| POLISH ZLOTY (EC)       | 0                          | 0                          | 0.0%     | 1                | 0                | 0        | 0                            | 0                            | 0.0%     | 4,592              | 0                  | 0.0%     |
| SHEKEL                  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 3                  | -100.0%  |
| RMB USD                 | 0                          | 0                          | 0.0%     | 37               | 736              | -0.95    | 6                            | 0                            | 0.0%     | 1,648              | 2,512              | -34.4%   |
| KOREAN WON              | 0                          | 0                          | 0.0%     | 2                | 9                | -0.78    | 0                            | 0                            | 0.0%     | 118                | 169                | -30.2%   |
| TURKISH LIRA            | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 21                 | -100.0%  |
| TURKISH LIRA (EU)       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| E-MICRO EUR/USD         | 0                          | 0                          | 0.0%     | 244,931          | 369,430          | -0.34    | 0                            | 0                            | 0.0%     | 2,091,176          | 2,618,809          | -20.1%   |
| E-MICRO GBP/USD         | 0                          | 0                          | 0.0%     | 118,706          | 44,630           | 1.66     | 0                            | 0                            | 0.0%     | 504,419            | 296,807            | 69.9%    |
| E-MICRO USD/CAD         | 0                          | 0                          | 0.0%     | 0                | 2                | -1       | 0                            | 0                            | 0.0%     | 22                 | 12                 | 83.3%    |
| E-MICRO USD/CHF         | 0                          | 0                          | 0.0%     | 0                | 2                | -1       | 0                            | 0                            | 0.0%     | 1                  | 3                  | -66.7%   |
| E-MICRO USD/JPY         | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 4                  | 71                 | -94.4%   |
| E-MICRO AUD/USD         | 0                          | 0                          | 0.0%     | 125,054          | 61,792           | 1.02     | 0                            | 0                            | 0.0%     | 667,951            | 369,665            | 80.7%    |
| MICRO CHF/USD           | 0                          | 0                          | 0.0%     | 895              | 2,090            | -0.57    | 0                            | 0                            | 0.0%     | 14,271             | 16,679             | -14.4%   |
| CHINESE RENMINBI (CNH)  | 0                          | 0                          | 0.0%     | 659              | 687              | -0.04    | 0                            | 0                            | 0.0%     | 10,022             | 4,057              | 147.0%   |
| E-MICRO JPY/USD         | 0                          | 0                          | 0.0%     | 37,559           | 7,582            | 3.95     | 0                            | 0                            | 0.0%     | 206,006            | 87,944             | 134.2%   |
| E-MICRO USD/CNH         | 0                          | 0                          | 0.0%     | 0                | 15               | -1       | 0                            | 0                            | 0.0%     | 61                 | 289                | -78.9%   |
| E-MICRO CAD/USD         | 0                          | 0                          | 0.0%     | 21,611           | 10,512           | 1.06     | 0                            | 0                            | 0.0%     | 143,217            | 87,732             | 63.2%    |
| INDIAN RUPEE            | 0                          | 0                          | 0.0%     | 9,985            | 8,577            | 0.16     | 0                            | 0                            | 0.0%     | 86,417             | 78,067             | 10.7%    |
| E-MICRO INR/USD         | 0                          | 0                          | 0.0%     | 2,510            | 78               | 31.18    | 0                            | 0                            | 0.0%     | 11,297             | 2,063              | 447.6%   |
| USDZAR                  | 0                          | 0                          | 0.0%     | 2                | 69               | -0.97    | 0                            | 0                            | 0.0%     | 6                  | 365                | -98.4%   |
| FCXRX                   | 0                          | -                          | -        | 127              | -                | -        | 0                            | -                            | -        | 410                | -                  | -        |
| EURO QUARTERLY VARIANCE | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                                                | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|------------------------------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>FX Options</b>                              |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| AUSTRALIAN DOLLAR                              | 773                        | 2,864                      | -73.0%   | 104,621          | 155,783          | -0.33    | 6,579                        | 22,925                       | -71.3%   | 976,062            | 913,865            | 6.8%     |
| BRITISH POUND                                  | 1,086                      | 8,703                      | -87.5%   | 180,743          | 140,598          | 0.29     | 25,945                       | 75,310                       | -65.5%   | 1,422,287          | 1,652,184          | -13.9%   |
| BRAZIL REAL                                    | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| CANADIAN DOLLAR                                | 309                        | 2,037                      | -84.8%   | 112,557          | 138,742          | -0.19    | 23,016                       | 20,597                       | 11.7%    | 1,037,240          | 773,091            | 34.2%    |
| EURO FX                                        | 4,140                      | 27,250                     | -84.8%   | 469,004          | 816,169          | -0.43    | 88,070                       | 225,167                      | -60.9%   | 5,129,917          | 7,760,844          | -33.9%   |
| JAPANESE YEN                                   | 6,136                      | 10,999                     | -44.2%   | 312,754          | 212,688          | 0.47     | 53,648                       | 87,150                       | -38.4%   | 2,160,925          | 1,490,535          | 45.0%    |
| MEXICAN PESO                                   | 32                         | 155                        | -79.4%   | 2,727            | 1,591            | 0.71     | 765                          | 2,220                        | -65.5%   | 16,475             | 7,870              | 109.3%   |
| NEW ZEALND DOLLAR                              | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 13                 | -100.0%  |
| RUSSIAN RUBLE                                  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SWISS FRANC                                    | 25                         | 18                         | 38.9%    | 5,960            | 9,111            | -0.35    | 272                          | 4,042                        | -93.3%   | 48,990             | 107,027            | -54.2%   |
| JAPANESE YEN (EU)                              | 0                          | 0                          | 0.0%     | 909              | 517              | 0.76     | 0                            | 3                            | -100.0%  | 5,803              | 2,537              | 128.7%   |
| EURO FX (EU)                                   | 0                          | 0                          | 0.0%     | 3,891            | 3,726            | 0.04     | 0                            | 5                            | -100.0%  | 27,727             | 41,217             | -32.7%   |
| SWISS FRANC (EU)                               | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| CANADIAN DOLLAR (EU)                           | 0                          | 0                          | 0.0%     | 110              | 137              | -0.2     | 0                            | 0                            | 0.0%     | 1,768              | 1,262              | 40.1%    |
| BRITISH POUND (EU)                             | 0                          | 0                          | 0.0%     | 1,329            | 144              | 8.23     | 0                            | 2                            | -100.0%  | 8,966              | 4,211              | 112.9%   |
| AUSTRALIAN DLR (EU)                            | 0                          | 0                          | 0.0%     | 80               | 210              | -0.62    | 0                            | 0                            | 0.0%     | 1,124              | 894                | 25.7%    |
| <b>Commodities and Alternative Investments</b> |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| <b>Futures</b>                                 |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| CORN                                           | 65,260                     | 134,436                    | -51.5%   | 6,030,054        | 8,188,464        | -0.26    | 333,751                      | 1,009,042                    | -66.9%   | 53,769,592         | 48,795,858         | 10.2%    |
| SOYBEAN                                        | 34,679                     | 62,788                     | -44.8%   | 4,591,154        | 4,229,464        | 0.09     | 234,349                      | 481,972                      | -51.4%   | 38,322,500         | 29,744,037         | 28.8%    |
| SOYBEAN MEAL                                   | 5,629                      | 7,009                      | -19.7%   | 1,960,279        | 2,092,535        | -0.06    | 34,705                       | 135,523                      | -74.4%   | 15,543,627         | 13,135,927         | 18.3%    |
| SOYBEAN OIL                                    | 2,471                      | 9,465                      | -73.9%   | 2,106,104        | 2,294,272        | -0.08    | 28,465                       | 123,034                      | -76.9%   | 16,314,251         | 15,671,527         | 4.1%     |
| OATS                                           | 10                         | 23                         | -56.5%   | 11,107           | 10,221           | 0.09     | 10                           | 553                          | -98.2%   | 134,407            | 108,920            | 23.4%    |
| ROUGH RICE                                     | 0                          | 12                         | -100.0%  | 10,380           | 18,677           | -0.44    | 0                            | 996                          | -100.0%  | 167,190            | 154,231            | 8.4%     |
| MINI CORN                                      | 0                          | 5                          | -100.0%  | 10,884           | 17,501           | -0.38    | 0                            | 1,409                        | -100.0%  | 88,600             | 83,865             | 5.6%     |
| MINI SOYBEAN                                   | 0                          | 42                         | -100.0%  | 18,434           | 21,728           | -0.15    | 0                            | 3,129                        | -100.0%  | 175,713            | 138,384            | 27.0%    |
| MINI WHEAT                                     | 0                          | 2                          | -100.0%  | 7,914            | 8,730            | -0.09    | 0                            | 489                          | -100.0%  | 45,286             | 52,558             | -13.8%   |
| LIVE CATTLE                                    | 1,816                      | 5,748                      | -68.4%   | 1,068,616        | 1,158,477        | -0.08    | 25,034                       | 382,388                      | -93.5%   | 7,407,911          | 7,187,590          | 3.1%     |
| FEEDER CATTLE                                  | 5                          | 94                         | -94.7%   | 191,521          | 213,615          | -0.1     | 172                          | 42,453                       | -99.6%   | 1,396,824          | 1,347,477          | 3.7%     |
| LEAN HOGS                                      | 2,348                      | 7,863                      | -70.1%   | 823,316          | 962,678          | -0.14    | 14,476                       | 301,571                      | -95.2%   | 5,166,387          | 5,761,243          | -10.3%   |
| LUMBER                                         | 0                          | 9                          | -100.0%  | 10,769           | 14,147           | -0.24    | 0                            | 1,357                        | -100.0%  | 100,487            | 114,712            | -12.4%   |

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## CME Group Exchange Volume Comparison Report - Monthly

|                                                | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|------------------------------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Commodities and Alternative Investments</b> |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| <b>Futures</b>                                 |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| MILK                                           | 22                         | 54                         | -59.3%   | 17,769           | 23,866           | -0.26    | 323                          | 3,073                        | -89.5%   | 172,200            | 169,686            | 1.5%     |
| MLK MID                                        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| NFD MILK                                       | 0                          | 0                          | 0.0%     | 2,980            | 5,443            | -0.45    | 0                            | 259                          | -100.0%  | 34,722             | 23,712             | 46.4%    |
| BUTTER CS                                      | 0                          | 0                          | 0.0%     | 1,995            | 3,711            | -0.46    | 0                            | 0                            | 0.0%     | 20,255             | 19,743             | 2.6%     |
| CLASS IV MILK                                  | 0                          | 0                          | 0.0%     | 1,025            | 1,850            | -0.45    | 0                            | 149                          | -100.0%  | 6,921              | 6,168              | 12.2%    |
| DRY WHEY                                       | 0                          | 0                          | 0.0%     | 755              | 1,751            | -0.57    | 0                            | 0                            | 0.0%     | 7,789              | 11,188             | -30.4%   |
| GSCI EXCESS RETURN FUT                         | 0                          | 0                          | 0.0%     | 33               | 0                | 0        | 0                            | 0                            | 0.0%     | 819                | 221                | 270.6%   |
| GOLDMAN SACHS                                  | 0                          | 0                          | 0.0%     | 27,325           | 28,286           | -0.03    | 0                            | 6,135                        | -100.0%  | 190,165            | 191,181            | -0.5%    |
| ETHANOL                                        | 0                          | 0                          | 0.0%     | 14,057           | 17,441           | -0.19    | 0                            | 0                            | 0.0%     | 101,035            | 129,006            | -21.7%   |
| HDD WEATHER                                    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 78                 | 52                 | 50.0%    |
| CDD WEATHER                                    | 0                          | 0                          | 0.0%     | 150              | 150              | 0        | 0                            | 0                            | 0.0%     | 350                | 250                | 40.0%    |
| HDD SEASONAL STRIP                             | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 52                 | -100.0%  |
| CDD SEASONAL STRIP                             | 0                          | 0                          | 0.0%     | 0                | 50               | -1       | 0                            | 0                            | 0.0%     | 0                  | 54                 | -100.0%  |
| HDD WEATHER EUROPEAN                           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 100                | 0                  | 0.0%     |
| CAT WEATHER EUROPEAN                           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HDD EURO SEASONAL STRIP                        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 50                 | 0                  | 0.0%     |
| CAT EURO SEASONAL STRIP                        | 0                          | -                          | -        | 0                | -                | -        | 0                            | -                            | -        | 0                  | -                  | -        |
| WKLY AVG TEMP                                  | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| HOUSING INDEX                                  | 0                          | 0                          | 0.0%     | 9                | 5                | 0.8      | 0                            | 0                            | 0.0%     | 63                 | 49                 | 28.6%    |
| DOW-UBS COMMOD INDEX                           | 0                          | 0                          | 0.0%     | 15,988           | 25,434           | -0.37    | 0                            | 0                            | 0.0%     | 225,163            | 181,700            | 23.9%    |
| COTTON                                         | 0                          | 0                          | 0.0%     | 124              | 67               | 0.85     | 0                            | 0                            | 0.0%     | 470                | 367                | 28.1%    |
| COCOA TAS                                      | 0                          | 0                          | 0.0%     | 182              | 158              | 0.15     | 0                            | 0                            | 0.0%     | 1,517              | 661                | 129.5%   |
| COFFEE                                         | 0                          | 0                          | 0.0%     | 6                | 61               | -0.9     | 0                            | 0                            | 0.0%     | 137                | 424                | -67.7%   |
| SUGAR 11                                       | 0                          | 0                          | 0.0%     | 54               | 166              | -0.67    | 0                            | 0                            | 0.0%     | 378                | 1,041              | -63.7%   |
| CASH-SETTLED CHEESE                            | 0                          | 0                          | 0.0%     | 5,849            | 11,643           | -0.5     | 0                            | 0                            | 0.0%     | 75,758             | 65,475             | 15.7%    |
| OTC SP GSCI ER SWAP                            | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| DOW-UBS COMMOD INDEX SW                        | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| GRAIN BASIS SWAPS                              | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| FERTILIZER PRODUCS                             | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| KC WHEAT                                       | 1,145                      | 279                        | 310.4%   | 649,706          | 533,416          | 0.22     | 10,568                       | 16,559                       | -36.2%   | 5,375,857          | 4,218,584          | 27.4%    |
| CHI WHEAT                                      | 15,539                     | 29,742                     | -47.8%   | 2,319,289        | 2,707,803        | -0.14    | 125,651                      | 239,107                      | -47.4%   | 18,881,395         | 18,746,425         | 0.7%     |
| Intercommodity Spread                          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| DJ_UBS ROLL SELECT INDEX                       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| PALM OIL                                       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                                                | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|------------------------------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Commodities and Alternative Investments</b> |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| <b>Futures</b>                                 |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| S&P GSCI ENHANCED ER SWA                       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| MALAYSIAN PALM SWAP                            | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| <b>Commodities and Alternative Investments</b> |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| <b>Options</b>                                 |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| CORN                                           | 984,966                    | 1,637,285                  | -39.8%   | 1,727,138        | 2,297,932        | -0.25    | 5,601,638                    | 6,539,492                    | -14.3%   | 10,015,568         | 9,306,868          | 7.6%     |
| SOYBEAN                                        | 579,704                    | 643,275                    | -9.9%    | 1,657,886        | 1,258,688        | 0.32     | 3,541,082                    | 4,268,890                    | -17.0%   | 10,488,428         | 7,363,429          | 42.4%    |
| SOYBEAN MEAL                                   | 68,382                     | 67,747                     | 0.9%     | 116,525          | 141,975          | -0.18    | 485,271                      | 691,437                      | -29.8%   | 1,051,596          | 1,086,031          | -3.2%    |
| SOYBEAN OIL                                    | 84,462                     | 118,376                    | -28.6%   | 79,314           | 63,086           | 0.26     | 665,772                      | 720,620                      | -7.6%    | 716,786            | 383,687            | 86.8%    |
| SOYBEAN CRUSH                                  | 57                         | 68                         | -16.2%   | 0                | 0                | 0        | 4,463                        | 486                          | 818.3%   | 0                  | 0                  | 0.0%     |
| OATS                                           | 795                        | 855                        | -7.0%    | 699              | 593              | 0.18     | 3,856                        | 8,923                        | -56.8%   | 4,610              | 4,449              | 3.6%     |
| ROUGH RICE                                     | 70                         | 378                        | -81.5%   | 1,419            | 3,015            | -0.53    | 2,169                        | 4,325                        | -49.8%   | 11,510             | 8,261              | 39.3%    |
| WHEAT                                          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 485                          | -100.0%  | 0                  | 0                  | 0.0%     |
| LIVE CATTLE                                    | 58,134                     | 89,228                     | -34.8%   | 198,609          | 178,939          | 0.11     | 927,042                      | 587,066                      | 57.9%    | 1,681,035          | 1,344,354          | 25.0%    |
| FEEDER CATTLE                                  | 4,636                      | 2,276                      | 103.7%   | 27,148           | 37,100           | -0.27    | 28,660                       | 24,615                       | 16.4%    | 207,696            | 218,468            | -4.9%    |
| LEAN HOGS                                      | 45,811                     | 72,886                     | -37.1%   | 168,485          | 182,433          | -0.08    | 251,540                      | 413,072                      | -39.1%   | 887,032            | 1,256,933          | -29.4%   |
| LUMBER                                         | 10                         | 0                          | 0.0%     | 880              | 1,500            | -0.41    | 105                          | 18                           | 483.3%   | 6,297              | 8,241              | -23.6%   |
| MILK                                           | 7,970                      | 12,107                     | -34.2%   | 15,789           | 12,506           | 0.26     | 82,992                       | 74,558                       | 11.3%    | 101,508            | 94,110             | 7.9%     |
| MLK MID                                        | 60                         | 51                         | 17.6%    | 0                | 0                | 0        | 279                          | 228                          | 22.4%    | 0                  | 0                  | 0.0%     |
| NFD MILK                                       | 693                        | 6,457                      | -89.3%   | 864              | 426              | 1.03     | 16,399                       | 22,461                       | -27.0%   | 8,174              | 1,545              | 429.1%   |
| BUTTER CS                                      | 778                        | 1,406                      | -44.7%   | 247              | 185              | 0.34     | 7,349                        | 7,507                        | -2.1%    | 1,574              | 1,178              | 33.6%    |
| CLASS IV MILK                                  | 1,012                      | 208                        | 386.5%   | 1,692            | 171              | 8.89     | 1,915                        | 3,056                        | -37.3%   | 4,568              | 1,486              | 207.4%   |
| DRY WHEY                                       | 20                         | 35                         | -42.9%   | 18               | 60               | -0.7     | 630                          | 2,319                        | -72.8%   | 37                 | 308                | -88.0%   |
| HDD WEATHER                                    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CDD WEATHER                                    | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HDD SEASONAL STRIP                             | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CDD SEASONAL STRIP                             | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HDD WEATHER EUROPEAN                           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| CAT WEATHER EUROPEAN                           | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HDD EURO SEASONAL STRIP                        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| HOUSING INDEX                                  | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 18                 | 0                  | 0.0%     |
| CORN NEARBY+2 CAL SPRD                         | 2,770                      | 2,979                      | -7.0%    | 0                | 55               | -1       | 29,952                       | 26,786                       | 11.8%    | 76                 | 2,092              | -96.4%   |
| SOYBN NEARBY+2 CAL SPRD                        | 1                          | 0                          | 0.0%     | 0                | 0                | 0        | 351                          | 280                          | 25.4%    | 0                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                                                | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG | ELEC<br>JUL 2016 | ELEC<br>JUL 2015 | %<br>CHG | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG | ELEC<br>Y.T.D 2016 | ELEC<br>Y.T.D 2015 | %<br>CHG |
|------------------------------------------------|----------------------------|----------------------------|----------|------------------|------------------|----------|------------------------------|------------------------------|----------|--------------------|--------------------|----------|
| <b>Commodities and Alternative Investments</b> |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| <b>Options</b>                                 |                            |                            |          |                  |                  |          |                              |                              |          |                    |                    |          |
| WHEAT NEARBY+2 CAL SPRD                        | 5,417                      | 23,847                     | -77.3%   | 2                | 719              | -1       | 30,382                       | 80,110                       | -62.1%   | 1,191              | 5,042              | -76.4%   |
| JULY-DEC CORN CAL SPRD                         | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 34,934                       | 22,431                       | 55.7%    | 175                | 827                | -78.8%   |
| DEC-JULY WHEAT CAL SPRD                        | 0                          | 35                         | -100.0%  | 0                | 0                | 0        | 0                            | 35                           | -100.0%  | 0                  | 0                  | 0.0%     |
| JULY-NOV SOYBEAN CAL SPR                       | 30                         | 0                          | 0.0%     | 0                | 0                | 0        | 60,409                       | 33,430                       | 80.7%    | 263                | 192                | 37.0%    |
| JULY-DEC WHEAT CAL SPRD                        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 33,174                       | 10,404                       | 218.9%   | 145                | 2,292              | -93.7%   |
| JULY-JULY WHEAT CAL SPRD                       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 480                          | 0                            | 0.0%     | 13                 | 0                  | 0.0%     |
| NOV-NOV SOYBEAN CAL SPR                        | 165                        | 239                        | -31.0%   | 0                | 0                | 0        | 726                          | 272                          | 166.9%   | 0                  | 0                  | 0.0%     |
| SOYMEAL NEARBY+2 CAL SPR                       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 3,785                        | 300                          | 1,161.7% | 0                  | 0                  | 0.0%     |
| LV CATL CSO                                    | 0                          | 12                         | -100.0%  | 0                | 0                | 0        | 249                          | 79                           | 215.2%   | 0                  | 0                  | 0.0%     |
| SBIN HURR                                      | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| JULY-DEC SOYMEAL CAL SPR                       | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| JULY-DEC SOY OIL CAL SPRD                      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 45                           | -100.0%  | 0                  | 0                  | 0.0%     |
| NOV-JULY SOYBEAN CAL SPR                       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| SOY OIL NEARBY+2 CAL SPRD                      | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 75                           | -100.0%  | 0                  | 0                  | 0.0%     |
| CASH-SETTLED CHEESE                            | 5,035                      | 6,994                      | -28.0%   | 1,081            | 1,999            | -0.46    | 31,704                       | 30,791                       | 3.0%     | 17,427             | 9,943              | 75.3%    |
| DEC-JULY CORN CAL SPRD                         | 3,400                      | 2,760                      | 23.2%    | 0                | 40               | -1       | 3,600                        | 6,960                        | -48.3%   | 0                  | 360                | -100.0%  |
| WHEAT-CORN IC SO                               | 140                        | 450                        | -68.9%   | 0                | 0                | 0        | 6,232                        | 7,920                        | -21.3%   | 0                  | 0                  | 0.0%     |
| DEC-DEC CORN CAL SPRD                          | 4,682                      | 419                        | 1,017.4% | 0                | 0                | 0        | 15,879                       | 1,269                        | 1,151.3% | 5                  | 0                  | 0.0%     |
| SNOWFALL                                       | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| AUG-NOV SOYBEAN CAL SPR                        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 20                           | 0                            | 0.0%     | 0                  | 0                  | 0.0%     |
| JAN-MAY SOYBEAN CAL SPRD                       | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| KC WHEAT                                       | 9,159                      | 15,974                     | -42.7%   | 15,962           | 7,435            | 1.15     | 125,331                      | 241,132                      | -48.0%   | 121,996            | 109,345            | 11.6%    |
| MAR-JULY CORN CAL SPRD                         | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 2,416                        | 0                            | 0.0%     | 4                  | 0                  | 0.0%     |
| MAR-DEC CORN CAL SPRD                          | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 5,430                        | -100.0%  | 0                  | 0                  | 0.0%     |
| CHI WHEAT                                      | 154,673                    | 303,563                    | -49.0%   | 312,535          | 530,261          | -0.41    | 1,330,337                    | 2,309,478                    | -42.4%   | 3,200,458          | 2,780,458          | 15.1%    |
| Intercommodity Spread                          | 0                          | 40                         | -100.0%  | 0                | 0                | 0        | 3,395                        | 634                          | 435.5%   | 0                  | 0                  | 0.0%     |
| MAR-JULY WHEAT CAL SPRD                        | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 1,650                        | 310                          | 432.3%   | 0                  | 6                  | -100.0%  |
| SEP-DEC SOYBEAN MEAL CSC                       | 0                          | 0                          | 0.0%     | 0                | 0                | 0        | 0                            | 1,000                        | -100.0%  | 0                  | 0                  | 0.0%     |
| AUG-DEC SOYBEAN MEAL CS                        | 0                          | -                          | -        | 0                | -                | -        | 5                            | -                            | -        | 0                  | -                  | -        |
| DEC-JUL SOYBEAN OIL CSO                        | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| MAY-NOV SOYBEAN CAL SPR                        | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |
| NOV-DEC SOYBEAN CSO                            | -                          | 0                          | 0.0%     | -                | 0                | 0        | -                            | 0                            | 0.0%     | -                  | 0                  | 0.0%     |

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## CME Group Exchange Volume Comparison Report - Monthly

|                                  | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG      | ELEC<br>JUL 2016   | ELEC<br>JUL 2015   | %<br>CHG     | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG      | ELEC<br>Y.T.D 2016   | ELEC<br>Y.T.D 2015   | %<br>CHG     |
|----------------------------------|----------------------------|----------------------------|---------------|--------------------|--------------------|--------------|------------------------------|------------------------------|---------------|----------------------|----------------------|--------------|
| <b>Foreign Exchange Futures</b>  |                            |                            |               |                    |                    |              |                              |                              |               |                      |                      |              |
| CHILEAN PESO                     | 0                          | 0                          | 0.0%          | 0                  | 0                  | 0            | 6                            | 0                            | 0.0%          | 4                    | 64                   | -93.8%       |
| <b>TOTAL FUTURES GROUP</b>       |                            |                            |               |                    |                    |              |                              |                              |               |                      |                      |              |
| Interest Rate Futures            | 696,901                    | 682,332                    | 2.1%          | 95,482,315         | 93,285,997         | 2.4%         | 5,495,227                    | 9,717,756                    | -43.5%        | 780,427,921          | 760,123,821          | 2.7%         |
| Equity Index Futures             | 48,248                     | 48,579                     | -0.7%         | 39,252,526         | 42,710,073         | -8.1%        | 810,462                      | 1,012,977                    | -20.0%        | 363,853,182          | 296,287,048          | 22.8%        |
| Metals Futures                   | 7,239                      | 23,473                     | -69.2%        | 8,921,586          | 7,043,705          | 26.7%        | 84,342                       | 597,272                      | -85.9%        | 58,350,567           | 44,133,649           | 32.2%        |
| Energy Futures                   | 794                        | 9,189                      | -91.4%        | 33,005,517         | 29,603,645         | 11.5%        | 24,685                       | 163,782                      | -84.9%        | 265,870,142          | 216,388,376          | 22.9%        |
| FX Futures                       | 741                        | 2,406                      | -69.2%        | 13,030,146         | 14,442,359         | -9.8%        | 11,309                       | 222,254                      | -94.9%        | 112,943,602          | 117,332,302          | -3.7%        |
| Commodities and Alternative Inve | 128,924                    | 257,571                    | -49.9%        | 19,897,828         | 22,591,810         | -11.9%       | 807,504                      | 2,749,198                    | -70.6%        | 163,727,997          | 146,062,363          | 12.1%        |
| Foreign Exchange Futures         | 0                          | 0                          | 0.0%          | 0                  | 0                  | 0.0%         | 6                            | 0                            | 0.0%          | 4                    | 64                   | -93.8%       |
| <b>TOTAL FUTURES</b>             | <b>882,847</b>             | <b>1,023,550</b>           | <b>-13.7%</b> | <b>209,589,918</b> | <b>209,677,589</b> | <b>0.0%</b>  | <b>7,233,535</b>             | <b>14,463,239</b>            | <b>-50.0%</b> | <b>1,745,173,415</b> | <b>1,580,327,623</b> | <b>10.4%</b> |
| <b>TOTAL OPTIONS GROUP</b>       |                            |                            |               |                    |                    |              |                              |                              |               |                      |                      |              |
| Equity Index Options             | 1,050,286                  | 1,327,056                  | -20.9%        | 10,687,996         | 11,552,161         | -7.5%        | 8,512,733                    | 6,705,364                    | 27.0%         | 81,350,886           | 70,246,666           | 15.8%        |
| Interest Rate Options            | 20,648,348                 | 19,984,058                 | 3.3%          | 13,126,456         | 13,451,397         | -2.4%        | 150,228,797                  | 135,547,035                  | 10.8%         | 99,928,579           | 80,529,200           | 24.1%        |
| Metals Options                   | 47,085                     | 122,519                    | -61.6%        | 531,959            | 727,417            | -26.9%       | 567,187                      | 744,325                      | -23.8%        | 4,926,649            | 3,605,171            | 36.7%        |
| Energy Options                   | 9,297                      | 84,042                     | -88.9%        | 3,640,415          | 2,900,099          | 25.5%        | 254,929                      | 1,179,644                    | -78.4%        | 24,110,494           | 16,919,259           | 42.5%        |
| FX Options                       | 12,501                     | 52,026                     | -76.0%        | 1,194,685          | 1,479,416          | -19.2%       | 198,295                      | 437,421                      | -54.7%        | 10,837,284           | 12,755,550           | -15.0%       |
| Commodities and Alternative Inve | 2,023,032                  | 3,009,950                  | -32.8%        | 4,326,293          | 4,719,118          | -8.3%        | 13,336,173                   | 16,148,729                   | -17.4%        | 28,528,190           | 23,989,905           | 18.9%        |
| <b>TOTAL OPTIONS</b>             | <b>23,790,549</b>          | <b>24,579,651</b>          | <b>-3.2%</b>  | <b>33,507,804</b>  | <b>34,829,608</b>  | <b>-3.8%</b> | <b>173,098,114</b>           | <b>160,762,518</b>           | <b>7.7%</b>   | <b>249,682,082</b>   | <b>208,045,751</b>   | <b>20.0%</b> |

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## CME Group Exchange Volume Comparison Report - Monthly

|                                  | Open<br>Outcry<br>JUL 2016 | Open<br>Outcry<br>JUL 2015 | %<br>CHG     | ELEC<br>JUL 2016   | ELEC<br>JUL 2015   | %<br>CHG     | Open<br>Outcry<br>Y.T.D 2016 | Open<br>Outcry<br>Y.T.D 2015 | %<br>CHG    | ELEC<br>Y.T.D 2016   | ELEC<br>Y.T.D 2015   | %<br>CHG     |
|----------------------------------|----------------------------|----------------------------|--------------|--------------------|--------------------|--------------|------------------------------|------------------------------|-------------|----------------------|----------------------|--------------|
| <b>TOTAL COMBINED</b>            |                            |                            |              |                    |                    |              |                              |                              |             |                      |                      |              |
| Interest Rate                    | 21,345,249                 | 20,666,390                 | 3.3%         | 108,608,771        | 106,737,394        | 1.8%         | 155,724,024                  | 145,264,791                  | 7.2%        | 880,356,500          | 840,653,021          | 4.7%         |
| Equity Index                     | 1,098,534                  | 1,375,635                  | -20.1%       | 49,940,522         | 54,262,234         | -8.0%        | 9,323,195                    | 7,718,341                    | 20.8%       | 445,204,068          | 366,533,714          | 21.5%        |
| Metals                           | 54,324                     | 145,992                    | -62.8%       | 9,453,545          | 7,771,122          | 21.6%        | 651,529                      | 1,341,597                    | -51.4%      | 63,277,216           | 47,738,820           | 32.5%        |
| Energy                           | 10,091                     | 93,231                     | -89.2%       | 36,645,932         | 32,503,744         | 12.7%        | 279,614                      | 1,343,426                    | -79.2%      | 289,980,636          | 233,307,635          | 24.3%        |
| FX                               | 13,242                     | 54,432                     | -75.7%       | 14,224,831         | 15,921,775         | -10.7%       | 209,604                      | 659,675                      | -68.2%      | 123,780,886          | 130,087,852          | -4.8%        |
| Commodities and Alternative Inve | 2,151,956                  | 3,267,521                  | -34.1%       | 24,224,121         | 27,310,928         | -11.3%       | 14,143,677                   | 18,897,927                   | -25.2%      | 192,256,187          | 170,052,268          | 13.1%        |
| Foreign Exchange                 | 0                          | 0                          | 0.0%         | 0                  | 0                  | 0.0%         | 6                            | 0                            | 0.0%        | 4                    | 64                   | -93.8%       |
| <b>GRAND TOTAL</b>               | <b>24,673,396</b>          | <b>25,603,201</b>          | <b>-3.6%</b> | <b>243,097,722</b> | <b>244,507,197</b> | <b>-0.6%</b> | <b>180,331,649</b>           | <b>175,225,757</b>           | <b>2.9%</b> | <b>1,994,855,497</b> | <b>1,788,373,374</b> | <b>11.5%</b> |

\*\*\* 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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