



CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry SEP 2019 | Open Outcry SEP 2018 | % CHG | ELEC SEP 2019 | ELEC SEP 2018 | % CHG | Open Outcry Y.T.D 2019 | Open Outcry Y.T.D 2018 | % CHG | ELEC Y.T.D 2019 | ELEC Y.T.D 2018 | % CHG |
|------------------------------|----------------------------|----------------------------|--------|------------------|------------------|-----------|------------------------------|------------------------------|----------|--------------------|-----------------------|-----------|
| Interest Rate Futures | | | | | | | | | | | | |
| 10-YR NOTE | 213,585 | 121,577 | 75.7% | 32,835,378 | 26,685,646 | 23.05% | 1,272,049 | 1,179,109 | 7.9% | 333,696,310 | 317,246,581 | 5.2% |
| 10-YR SWAP RATE | 0 | 0 | 0.0% | 55,482 | 69,049 | -19.65% | 0 | 0 | 0.0% | 373,827 | 378,781 | -1.3% |
| 15-YR SWAP RATE | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| 1-MONTH EURODOLLAR | 0 | 0 | 0.0% | 9 | 115 | -92.17% | 0 | 0 | 0.0% | 404 | 31,342 | -98.7% |
| 20-YR SWAP RATE | 0 | - | - | 0 | - | - | 0 | - | - | 46 | - | - |
| 2-YR NOTE | 6,281 | 1,588 | 295.5% | 10,203,428 | 6,116,595 | 66.82% | 24,537 | 28,003 | -12.4% | 123,892,050 | 89,263,040 | 38.8% |
| 2-YR SWAP RATE | 0 | - | - | 48,377 | - | - | 0 | - | - | 418,545 | - | - |
| 30-YR BOND | 34,896 | 18,346 | 90.2% | 6,608,810 | 5,821,135 | 13.53% | 179,328 | 190,173 | -5.7% | 65,406,471 | 63,691,139 | 2.7% |
| 30-YR SWAP RATE | 0 | 0 | 0.0% | 333 | 0 | 0.00% | 0 | 0 | 0.0% | 5,839 | 983 | 494.0% |
| 3-YR SWAP RATE | 0 | - | - | 26,356 | - | - | 0 | - | - | 150,072 | - | - |
| 4-YR SWAP RATE | 0 | - | - | 2,994 | - | - | 0 | - | - | 87,909 | - | - |
| 5-YR NOTE | 66,300 | 36,636 | 81.0% | 17,968,154 | 14,771,678 | 21.64% | 407,623 | 304,439 | 33.9% | 213,186,447 | 194,465,763 | 9.6% |
| 5-YR SWAP RATE | 0 | 0 | 0.0% | 94,320 | 37,217 | 153.43% | 0 | 0 | 0.0% | 658,830 | 216,687 | 204.0% |
| 7-YR SWAP RATE | 0 | - | - | 1,203 | - | - | 0 | - | - | 33,855 | - | - |
| EURODOLLARS | 630,735 | 666,690 | -5.4% | 51,687,242 | 53,600,016 | -3.57% | 7,120,405 | 7,260,793 | -1.9% | 544,721,716 | 544,274,113 | 0.1% |
| FED FUND | 0 | 0 | 0.0% | 9,680,830 | 4,087,906 | 136.82% | 0 | 0 | 0.0% | 71,348,525 | 44,959,850 | 58.7% |
| SOFR | 0 | 0 | 0.0% | 1,016,098 | 84,706 | 1,099.56% | 0 | 0 | 0.0% | 5,992,910 | 355,837 | 1,584.2% |
| SONIA | 0 | - | - | 165,858 | - | - | 0 | - | - | 1,618,270 | - | - |
| Ultra 10-Year Note | 0 | 0 | 0.0% | 4,152,737 | 2,649,080 | 56.76% | 0 | 0 | 0.0% | 42,402,810 | 32,576,605 | 30.2% |
| ULTRA T-BOND | 0 | 0 | 0.0% | 2,571,947 | 2,410,340 | 6.70% | 66 | 230 | -71.3% | 33,964,134 | 30,977,531 | 9.6% |
| Interest Rate Options | | | | | | | | | | | | |
| 10-YR NOTE | 2,785,617 | 2,325,293 | 19.8% | 12,236,161 | 8,753,844 | 39.78% | 21,790,191 | 19,613,220 | 11.1% | 100,487,894 | 92,642,449 | 8.5% |
| 2-YR NOTE | 197,292 | 159,800 | 23.5% | 354,950 | 388,827 | -8.71% | 1,387,559 | 1,315,756 | 5.5% | 3,231,849 | 3,512,664 | -8.0% |
| 30-YR BOND | 452,957 | 228,694 | 98.1% | 3,191,536 | 2,681,225 | 19.03% | 2,936,576 | 2,791,449 | 5.2% | 23,991,590 | 21,021,314 | 14.1% |
| 5-YR NOTE | 902,738 | 502,197 | 79.8% | 3,397,372 | 2,034,605 | 66.98% | 8,409,701 | 6,041,092 | 39.2% | 33,017,290 | 22,696,260 | 45.5% |
| EURODOLLARS | 12,757,966 | 6,536,104 | 95.2% | 7,783,813 | 3,894,226 | 99.88% | 128,288,388 | 81,295,503 | 57.8% | 74,343,952 | 39,624,707 | 87.6% |
| EURO MIDCURVE | 4,044,144 | 7,596,054 | -46.8% | 3,443,875 | 4,327,476 | -20.42% | 61,898,067 | 79,877,211 | -22.5% | 50,237,978 | 45,965,407 | 9.3% |
| FED FUND | 32,285 | 0 | 0.0% | 10,396 | 200 | 5,098.00% | 52,085 | 1,750 | 2,876.3% | 12,211 | 15,963 | -23.5% |
| Ultra 10-Year Note | 315 | 0 | 0.0% | 0 | 0 | 0.00% | 21,799 | 0 | 0.0% | 5,328 | 28 | 18,928.6% |
| ULTRA T-BOND | 46,147 | 5,457 | 745.6% | 996 | 1,484 | -32.88% | 182,481 | 34,628 | 427.0% | 14,000 | 20,517 | -31.8% |

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|-----------------------------|----------------------------|----------------------------|--------|------------------|------------------|-----------|------------------------------|------------------------------|--------|--------------------|-----------------------|-----------|
| Equity Index Futures | | | | | | | | | | | | |
| BITCOIN FUTURES | 0 | 0 | 0.0% | 101,454 | 62,014 | 63.60% | 0 | 0 | 0.0% | 1,295,335 | 660,094 | 96.2% |
| DJ US REAL ESTATE | 0 | 0 | 0.0% | 49,673 | 31,109 | 59.67% | 0 | 0 | 0.0% | 228,028 | 212,881 | 7.1% |
| E-mini (\$5) Dow | 0 | 0 | 0.0% | 3,859,353 | 3,518,233 | 9.70% | 0 | 0 | 0.0% | 40,099,305 | 41,321,239 | -3.0% |
| E-MINI COM SERVICES SELEC | 0 | 0 | 0.0% | 4,633 | 156 | 2,869.87% | 0 | 0 | 0.0% | 24,730 | 156 | 15,752.6% |
| E-mini FTSE 100 (USD) | 0 | 0 | 0.0% | 0 | 918 | -100.00% | 0 | 0 | 0.0% | 336 | 12,405 | -97.3% |
| E-mini FTSE China 50 | 0 | 0 | 0.0% | 0 | 657 | -100.00% | 0 | 0 | 0.0% | 711 | 9,765 | -92.7% |
| E-MINI MIDCAP | 0 | 0 | 0.0% | 422,925 | 461,324 | -8.32% | 0 | 0 | 0.0% | 3,060,282 | 3,309,757 | -7.5% |
| E-MINI NASDAQ 100 | 0 | 0 | 0.0% | 9,521,636 | 9,373,956 | 1.58% | 0 | 0 | 0.0% | 90,348,006 | 79,275,454 | 14.0% |
| E-MINI RUSSELL 1000 | 0 | 0 | 0.0% | 4,627 | 6,616 | -30.06% | 0 | 0 | 0.0% | 31,626 | 72,699 | -56.5% |
| E-MINI RUSSELL 1000 GROWT | 0 | 0 | 0.0% | 4,715 | 7,253 | -34.99% | 0 | 0 | 0.0% | 32,575 | 64,185 | -49.2% |
| E-MINI RUSSELL 1000 VALUE | 0 | 0 | 0.0% | 11,187 | 9,004 | 24.24% | 0 | 0 | 0.0% | 68,157 | 81,610 | -16.5% |
| E-MINI RUSSELL 2000 | 0 | 0 | 0.0% | 4,109,954 | 3,384,285 | 21.44% | 0 | 0 | 0.0% | 27,906,279 | 24,834,167 | 12.4% |
| E-MINI S&P500 | 0 | 0 | 0.0% | 35,205,790 | 33,174,768 | 6.12% | 0 | 0 | 0.0% | 304,267,517 | 299,042,180 | 1.7% |
| E-MINI S&P REAL ESTATE SEL | 0 | 0 | 0.0% | 6,615 | 4,007 | 65.09% | 0 | 0 | 0.0% | 27,144 | 29,063 | -6.6% |
| FT-SE 100 | 0 | 0 | 0.0% | 0 | 634 | -100.00% | 0 | 0 | 0.0% | 372 | 11,255 | -96.7% |
| FTSE Emerging | 0 | 0 | 0.0% | 2,637 | 482 | 447.10% | 0 | 0 | 0.0% | 19,288 | 4,234 | 355.6% |
| IBOVESPA INDEX | 0 | 0 | 0.0% | 956 | 863 | 10.78% | 0 | 0 | 0.0% | 5,942 | 9,461 | -37.2% |
| MICRO E-MINI NASDAQ 100 | 0 | - | - | 3,702,224 | - | - | 0 | - | - | 20,691,712 | - | - |
| MICRO E-MINI RUSSELL 2000 | 0 | - | - | 633,799 | - | - | 0 | - | - | 3,201,233 | - | - |
| MICRO E-MINI S&P500 | 0 | - | - | 5,328,816 | - | - | 0 | - | - | 28,793,695 | - | - |
| MICRO MINI \$5 DOW | 0 | - | - | 850,437 | - | - | 0 | - | - | 5,273,924 | - | - |
| NASDAQ BIOTECH | 0 | 0 | 0.0% | 937 | 0 | 0.00% | 0 | 0 | 0.0% | 3,176 | 0 | 0.0% |
| NIFTY 50 | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 54,444 | -100.0% |
| NIKKEI 225 (\$) STOCK | 0 | 0 | 0.0% | 257,971 | 263,979 | -2.28% | 0 | 0 | 0.0% | 2,035,974 | 2,754,183 | -26.1% |
| NIKKEI 225 (YEN) STOCK | 0 | 0 | 0.0% | 871,392 | 734,303 | 18.67% | 228 | 0 | 0.0% | 7,403,051 | 7,663,236 | -3.4% |
| S&P 500 | 49,102 | 79,508 | -38.2% | 2,264 | 3,251 | -30.36% | 215,538 | 394,040 | -45.3% | 14,565 | 41,332 | -64.8% |
| S&P 500 ANNUAL DIVIDEND IN | 0 | 0 | 0.0% | 6,133 | 4,085 | 50.13% | 0 | 0 | 0.0% | 84,801 | 35,279 | 140.4% |
| S&P 500/GI | 0 | 0 | 0.0% | 20 | 20 | 0.00% | 0 | 0 | 0.0% | 60 | 73 | -17.8% |
| S&P 500 QUARLY DIVIDEND IN | 0 | 0 | 0.0% | 260 | 120 | 116.67% | 0 | 0 | 0.0% | 1,201 | 682 | 76.1% |
| S&P 600 SMALLCAP EMINI | 0 | 0 | 0.0% | 17 | 1 | 1,600.00% | 0 | 0 | 0.0% | 17 | 1 | 1,600.0% |
| S&P CONSUMER DSCRTRNY S | 0 | 0 | 0.0% | 10,016 | 13,427 | -25.40% | 0 | 0 | 0.0% | 63,320 | 114,329 | -44.6% |
| S&P CONSUMER STAPLES SE | 0 | 0 | 0.0% | 20,341 | 29,800 | -31.74% | 0 | 0 | 0.0% | 98,995 | 120,693 | -18.0% |
| S&P ENERGY SECTOR | 0 | 0 | 0.0% | 20,733 | 19,514 | 6.25% | 0 | 0 | 0.0% | 106,817 | 169,707 | -37.1% |

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|-----------------------------|----------------------------|----------------------------|--------|------------------|------------------|-----------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| Equity Index Futures | | | | | | | | | | | | |
| S&P FINANCIAL SECTOR | 0 | 0 | 0.0% | 32,235 | 30,989 | 4.02% | 0 | 0 | 0.0% | 168,893 | 249,179 | -32.2% |
| S&P HEALTH CARE SECTOR | 0 | 0 | 0.0% | 19,369 | 22,253 | -12.96% | 0 | 0 | 0.0% | 101,161 | 115,259 | -12.2% |
| S&P INDUSTRIAL SECTOR | 0 | 0 | 0.0% | 15,234 | 16,955 | -10.15% | 0 | 0 | 0.0% | 74,079 | 109,996 | -32.7% |
| S&P MATERIALS SECTOR | 0 | 0 | 0.0% | 6,946 | 15,575 | -55.40% | 0 | 0 | 0.0% | 52,389 | 66,542 | -21.3% |
| S&P TECHNOLOGY SECTOR | 0 | 0 | 0.0% | 13,615 | 33,162 | -58.94% | 0 | 0 | 0.0% | 89,846 | 170,032 | -47.2% |
| S&P UTILITIES SECTOR | 0 | 0 | 0.0% | 27,262 | 39,858 | -31.60% | 0 | 0 | 0.0% | 150,922 | 202,066 | -25.3% |
| S&P VALUE INDEX FUTURES | 0 | 0 | 0.0% | 24 | 24 | 0.00% | 0 | 0 | 0.0% | 72 | 80 | -10.0% |
| YEN DENOMINATED TOPIX | 0 | 0 | 0.0% | 18,655 | 449 | 4,054.79% | 0 | 0 | 0.0% | 169,769 | 4,293 | 3,854.6% |
| Equity Index Options | | | | | | | | | | | | |
| E-mini (\$5) Dow | 0 | 0 | 0.0% | 6,204 | 6,387 | -2.87% | 0 | 0 | 0.0% | 39,466 | 86,791 | -54.5% |
| E-MINI NASDAQ 100 | 0 | 0 | 0.0% | 183,264 | 185,156 | -1.02% | 0 | 0 | 0.0% | 1,894,249 | 2,113,153 | -10.4% |
| E-MINI RUSSELL 2000 | 0 | 0 | 0.0% | 23,441 | 12,513 | 87.33% | 0 | 0 | 0.0% | 132,623 | 115,442 | 14.9% |
| E-MINI S&P500 | 200 | 0 | 0.0% | 6,191,829 | 4,910,266 | 26.10% | 600 | 14,660 | -95.9% | 49,042,465 | 51,111,458 | -4.0% |
| EOM E-MINI RUSSELL 2000 EN | 0 | 0 | 0.0% | 9,150 | 10,180 | -10.12% | 0 | 0 | 0.0% | 81,175 | 56,796 | 42.9% |
| EOM EMINI S&P | 0 | 0 | 0.0% | 1,656,695 | 2,091,261 | -20.78% | 0 | 0 | 0.0% | 17,690,898 | 22,696,360 | -22.1% |
| EOM S&P 500 | 72,441 | 153,142 | -52.7% | 0 | 0 | 0.00% | 1,091,477 | 1,669,669 | -34.6% | 0 | 0 | 0.0% |
| EOW1 E-MINI RUSSELL 2000 W | 0 | 0 | 0.0% | 1,374 | 931 | 47.58% | 0 | 0 | 0.0% | 13,963 | 17,498 | -20.2% |
| EOW1 E-MINI RUSSELL 2000 W | 0 | 0 | 0.0% | 2,582 | 780 | 231.03% | 0 | 0 | 0.0% | 18,013 | 22,968 | -21.6% |
| EOW1 EMINI S&P 500 | 0 | 0 | 0.0% | 1,020,536 | 995,850 | 2.48% | 0 | 0 | 0.0% | 8,915,392 | 9,658,001 | -7.7% |
| EOW1 S&P 500 | 97,437 | 86,343 | 12.8% | 0 | 0 | 0.00% | 634,339 | 736,085 | -13.8% | 0 | 0 | 0.0% |
| EOW2 E-MINI RUSSELL 2000 W | 0 | 0 | 0.0% | 7,069 | 3,240 | 118.18% | 0 | 0 | 0.0% | 46,764 | 43,935 | 6.4% |
| EOW2 EMINI S&P 500 | 0 | 0 | 0.0% | 956,457 | 933,897 | 2.42% | 0 | 0 | 0.0% | 9,035,178 | 10,984,815 | -17.7% |
| EOW2 S&P 500 | 157,872 | 69,457 | 127.3% | 0 | 0 | 0.00% | 1,137,568 | 1,343,698 | -15.3% | 0 | 0 | 0.0% |
| EOW3 E-MINI RUSSELL 2000 W | 0 | 0 | 0.0% | 25,267 | 4,330 | 483.53% | 0 | 0 | 0.0% | 117,388 | 174,204 | -32.6% |
| EOW3 EMINI S&P 500 | 0 | 0 | 0.0% | 1,873,687 | 1,842,005 | 1.72% | 0 | 0 | 0.0% | 20,927,300 | 30,905,958 | -32.3% |
| EOW3 S&P 500 | 58,476 | 102,641 | -43.0% | 0 | 0 | 0.00% | 1,111,614 | 2,549,332 | -56.4% | 0 | 0 | 0.0% |
| EOW4 E-MINI RUSSELL 2000 W | 0 | 0 | 0.0% | 4,619 | 201 | 2,198.01% | 0 | 0 | 0.0% | 30,071 | 46,018 | -34.7% |
| EOW4 EMINI S&P 500 | 0 | 0 | 0.0% | 938,427 | 67,137 | 1,297.78% | 0 | 0 | 0.0% | 7,806,465 | 9,563,674 | -18.4% |
| S&P 500 | 282,369 | 308,755 | -8.5% | 0 | 0 | 0.00% | 2,140,720 | 2,724,357 | -21.4% | 0 | 0 | 0.0% |

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|----------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| Metals Futures | | | | | | | | | | | | |
| ALUMINUM | 0 | 0 | 0.0% | 3,642 | 968 | 276.24% | 0 | 0 | 0.0% | 11,772 | 6,991 | 68.4% |
| COMEX COPPER | 0 | 0 | 0.0% | 1,481,212 | 2,332,430 | -36.49% | 0 | 0 | 0.0% | 18,407,104 | 25,884,869 | -28.9% |
| COMEX E-Mini GOLD | 0 | 0 | 0.0% | 32,339 | 11,095 | 191.47% | 0 | 0 | 0.0% | 176,636 | 71,053 | 148.6% |
| COMEX E-Mini SILVER | 0 | 0 | 0.0% | 7,461 | 795 | 838.49% | 0 | 0 | 0.0% | 41,384 | 10,571 | 291.5% |
| COMEX GOLD | 0 | 0 | 0.0% | 8,363,966 | 5,317,356 | 57.30% | 0 | 0 | 0.0% | 62,171,859 | 61,128,014 | 1.7% |
| COMEX MINY COPPER | 0 | 0 | 0.0% | 743 | 260 | 185.77% | 0 | 0 | 0.0% | 6,088 | 4,181 | 45.6% |
| COMEX SILVER | 0 | 0 | 0.0% | 2,540,246 | 1,611,917 | 57.59% | 0 | 0 | 0.0% | 18,042,889 | 18,071,189 | -0.2% |
| COPPER | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| E-MICRO GOLD | 0 | 0 | 0.0% | 722,659 | 166,039 | 335.23% | 0 | 0 | 0.0% | 3,689,881 | 1,236,878 | 198.3% |
| FERROUS PRODUCTS | 0 | 0 | 0.0% | 118 | 86 | 37.21% | 0 | 0 | 0.0% | 4,373 | 362 | 1,108.0% |
| GOLD | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| Gold Kilo | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 136 | -100.0% |
| IRON ORE 62 CHINA PLATTS F | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| IRON ORE 62 CHINA TSI FUTU | 0 | 0 | 0.0% | 0 | 6 | -100.00% | 0 | 0 | 0.0% | 28 | 141 | -80.1% |
| LNDN ZINC | 0 | 0 | 0.0% | 0 | 1,677 | -100.00% | 0 | 0 | 0.0% | 1,230 | 5,943 | -79.3% |
| NYMEX HOT ROLLED STEEL | 0 | 0 | 0.0% | 1,736 | 2,079 | -16.50% | 0 | 0 | 0.0% | 29,437 | 27,899 | 5.5% |
| NYMEX PLATINUM | 0 | 0 | 0.0% | 715,666 | 558,935 | 28.04% | 0 | 0 | 0.0% | 4,311,232 | 4,094,262 | 5.3% |
| PALLADIUM | 0 | 0 | 0.0% | 76,820 | 85,540 | -10.19% | 0 | 0 | 0.0% | 930,784 | 1,048,787 | -11.3% |
| SILVER | 0 | 0 | 0.0% | 57,038 | 7,226 | 689.34% | 0 | 0 | 0.0% | 231,906 | 67,848 | 241.8% |
| URANIUM | 0 | 0 | 0.0% | 17 | 288 | -94.10% | 0 | 0 | 0.0% | 412 | 593 | -30.5% |

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| Metals Options | | | | | | | | | | | | |
| COMEX COPPER | 0 | 0 | 0.0% | 42,089 | 29,910 | 40.72% | 0 | 0 | 0.0% | 388,128 | 171,016 | 127.0% |
| COMEX GOLD | 0 | 0 | 0.0% | 1,121,100 | 545,202 | 105.63% | 0 | 0 | 0.0% | 9,326,061 | 6,815,620 | 36.8% |
| COMEX SILVER | 0 | 0 | 0.0% | 302,574 | 114,527 | 164.19% | 0 | 0 | 0.0% | 1,529,435 | 1,162,795 | 31.5% |
| COPPER | 0 | 0 | 0.0% | 590 | 31 | 1,803.23% | 0 | 0 | 0.0% | 1,845 | 430 | 329.1% |
| GOLD | 0 | 0 | 0.0% | 179,218 | 38,184 | 369.35% | 0 | 0 | 0.0% | 1,120,090 | 351,731 | 218.5% |
| HOT ROLLED COIL STEEL CAL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| IRON ORE 62 CHINA TSI CALL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| IRON ORE 62 CHINA TSI PUT O | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYMEX PLATINUM | 0 | 0 | 0.0% | 1,154 | 1,498 | -22.96% | 0 | 0 | 0.0% | 13,176 | 17,347 | -24.0% |
| PALLADIUM | 0 | 0 | 0.0% | 423 | 1,151 | -63.25% | 0 | 0 | 0.0% | 5,243 | 13,820 | -62.1% |
| SILVER | 0 | 0 | 0.0% | 13,609 | 3,491 | 289.83% | 0 | 0 | 0.0% | 51,381 | 17,184 | 199.0% |
| Energy Futures | | | | | | | | | | | | |
| 3.5% FUEL OIL CID MED SWA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| 3.5% FUEL OIL CIF BALMO S | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| AEP-DAYTON HUB DAILY | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| AEP-DAYTON HUB MTHLY | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| AEP-DAYTON HUB OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ALGON CITY GATES NAT GAS | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| ALGONQUIN CITYGATES BASI | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ANR LOUISIANA BASIS SWAP | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| ANR OKLAHOMA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ARGUS LLS VS. WTI (ARG) T | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 30 | -100.0% |
| ARGUS PROPAN FAR EST IND | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ARGUS PROPAN(SAUDI ARAM | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| AUSTRIALIAN COKE COAL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT BALMO SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT CALENDAR SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT CFD SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT FINANCIAL FUTURES | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT OIL LAST DAY | 0 | 0 | 0.0% | 2,381,344 | 1,525,993 | 56.05% | 0 | 0 | 0.0% | 19,359,847 | 15,291,343 | 26.6% |

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CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry SEP 2019 | Open Outcry SEP 2018 | % CHG | ELEC SEP 2019 | ELEC SEP 2018 | % CHG | Open Outcry Y.T.D 2019 | Open Outcry Y.T.D 2018 | % CHG | ELEC Y.T.D 2019 | ELEC Y.T.D 2018 | % CHG |
|----------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| CAISO SP15 EZGNHUB5 MW P | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| CAISO SP15 EZGNHUB5 PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| CANADIAN LIGHT SWEET OIL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CENTERPOINT BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CHICAGO ETHANOL SWAP | 0 | 0 | 0.0% | 0 | 29 | -100.00% | 0 | 0 | 0.0% | 509 | 1,930 | -73.6% |
| CHICAGO ULSD (PLATTS) SWA | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| CHICAGO ULSD PL VS HO SPR | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CHICAGO UNL GAS PL VS RBO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CIG BASIS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CIG ROCKIES NG INDEX SWA | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| CINERGY HUB OFF-PEAK MON | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CINERGY HUB PEAK MONTH | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CIN HUB 5MW D AH O PK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CIN HUB 5MW D AH PK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CIN HUB 5MW REAL TIME O P | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CIN HUB 5MW REAL TIME PK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| COAL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| COLUMB GULF MAINLINE NG B | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| COLUMBIA GULF ONSHORE | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| CONWAY NATURAL GASOLINE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CONWAY NORMAL BUTANE (O | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CONWAY PROPANE 5 DECIMA | 0 | 0 | 0.0% | 15 | 0 | 0.00% | 0 | 0 | 0.0% | 144 | 32 | 350.0% |
| CRUDE OIL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 89 | -100.0% |
| CRUDE OIL OUTRIGHTS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 50 | 0 | 0.0% |
| CRUDE OIL PHY | 0 | 0 | 0.0% | 26,357,471 | 20,730,513 | 27.14% | 0 | 0 | 0.0% | 225,492,607 | 227,520,577 | -0.9% |
| CRUDE OIL SPRDS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRUDE OIL TRADE AT MARKE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DAILY PJM | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DATED BRENT (PLATTS) DAILY | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| DATED TO FRONTLINE BRENT | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DIESEL 10P BRG FOB RDM VS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DIESEL 10PPM BARGES FOB B | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| DOMINION TRAN INC - APP I | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DOMINION TRANSMISSION INC | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

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|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| DUBAI CRUDE OIL BALMO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DUBAI CRUDE OIL CALENDAR | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DUTCH TTF NATURAL GAS CA | 0 | 0 | 0.0% | 11,641 | 6,557 | 77.54% | 0 | 0 | 0.0% | 80,342 | 14,144 | 468.0% |
| DY EURO 3.5% FUEL OI RDA | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| EASTERN RAIL DELIVERY CSX | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EAST/WEST FUEL OIL SPREAD | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EIA FLAT TAX ONHWAY DIESE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELEC ERCOT DLY OFF PK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELEC ERCOT DLY PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELEC ERCOT OFF PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELEC FINSETTLED | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELEC MISO PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELEC NYISO OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELECTRICITY ERCOT PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| ELECTRICITY OFF PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ELEC WEST POWER OFF-PEA | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| ELEC WEST POWER PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| ERCOT DAILY 5MW PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| ERCOT HOUSTON Z MCPE 5M | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ERCOT NORTH ZMCPE 5MW O | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ERCOT NORTH ZMCPE 5MW O | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ERCOT NORTH ZMCPE 5MW P | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ETHANOL | 0 | 0 | 0.0% | 2,770 | 8,239 | -66.38% | 0 | 0 | 0.0% | 68,607 | 79,580 | -13.8% |
| ETHANOL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ETHANOL T2 FOB ROTT INCL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO 1% FUEL OIL NEW BALM | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO 3.5% FUEL OIL RDAM B | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO 3.5% FUEL OIL SPREAD | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO-DENOMINATED PETRO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO GASOIL 10PPM VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE 1% FUEL OIL NWE CA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE 1% FUEL OIL RDAM C | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE 3.5% FUEL OIL MED | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE 3.5% FUEL OIL RDAM | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| EUROPEAN GASOIL (ICE) | 0 | 0 | 0.0% | 188 | 670 | -71.94% | 0 | 0 | 0.0% | 1,004 | 4,321 | -76.8% |
| EUROPEAN NAPHTHA BALMO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPEAN NAPHTHA CRACK S | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE DATED BRENT SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE JET KERO NWE CALS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPE NAPHTHA CALSWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO PROPANE CIF ARA SW | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FLORIDA GAS ZONE3 BASIS S | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| FREIGHT MARKETS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FUEL OIL CRACK VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FUEL OIL NWE CRACK VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FUEL OIL (PLATS) CAR CM | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FUEL OIL (PLATS) CAR CN | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| FUELOIL SWAP:CARGOES VS. | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GAS EURO-BOB OXY NWE BA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GAS EURO-BOB OXY NWE BA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 0.1 CIF MED SWAP | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| GASOIL 0.1CIF MED VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 0.1 CIF NWE VS ISE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 0.1 CIF VS ICE GAS | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| GASOIL 0.1 RDAM BRGS VS I | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 0.1 ROTTERDAM BAR | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL 10P CRG CIF NW VS | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| GASOIL 10PPM VS ICE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL BULLET SWAP | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| GASOIL CALENDAR SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL CRACK SPREAD CALE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GASOIL MINI CALENDAR SWA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GERMAN POWER BASELOAD | 0 | 0 | 0.0% | 2,354 | 111 | 2,020.72% | 0 | 0 | 0.0% | 21,702 | 3,102 | 599.6% |
| GROUP THREE ULSD (PLATTS) | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GROUP THREE UNLEAD GAS (| 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GRP THREE ULSD(PLT)VS HEA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GRP THREE UNL GS (PLT) VS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GULF COAST 3% FUEL OIL BA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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|------------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| GULF COAST JET FUEL CLNDR | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GULF COAST JET VS NYM 2 H | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GULF COAST NO.6 FUEL OIL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 2 | 0 | 0.0% |
| GULF COAST ULSD CALEND | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GULF COAST ULSD CRACK SP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HEATING OIL BALMO CLNDR S | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HEATING OIL CRCK SPRD BAL | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| HEATING OIL PHY | 0 | 0 | 0.0% | 3,630,118 | 3,276,986 | 10.78% | 0 | 0 | 0.0% | 28,531,122 | 32,883,814 | -13.2% |
| HENRY HUB BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HENRY HUB FINANCIAL LAST | 0 | 0 | 0.0% | 0 | 3,861 | -100.00% | 0 | 0 | 0.0% | 0 | 27,181 | -100.0% |
| HENRY HUB INDEX SWAP FUT | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HENRY HUB SWAP | 0 | 0 | 0.0% | 0 | 1,330 | -100.00% | 0 | 0 | 0.0% | 122 | 56,209 | -99.8% |
| HOUSTON SHIP CHANNEL BAS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HTG OIL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HUSTN SHIP CHNL PIPE SWP | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| ICE BRENT DUBAI SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ICE GASOIL BALMO SWAP | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| IN DELIVERY MONTH EUA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| INDIANA MISO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| INDONESIAN COAL | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| INDONESIAN COAL ICI4 | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ISO NEW ENGLAND OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ISO NEW ENGLAND PK LMP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JAPAN C&F NAPHTHA CRACK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JAPAN C&F NAPHTHA SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JAPAN NAPHTHA BALMO SWA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JET AV FUEL (P) CAR FM ICE G | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JET CIF NWE VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JET FUEL BRG FOB RDM VS I | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| JET FUEL CRG CIF NEW VS I | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JET FUEL UP-DOWN BALMO C | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JKM LNG Futures | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LA CARB DIESEL (OPIS) | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| LA CARB DIESEL (OPIS) SWA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry SEP 2019 | Open Outcry SEP 2018 | % CHG | ELEC SEP 2019 | ELEC SEP 2018 | % CHG | Open Outcry Y.T.D 2019 | Open Outcry Y.T.D 2018 | % CHG | ELEC Y.T.D 2019 | ELEC Y.T.D 2018 | % CHG |
|----------------------------|----------------------------|----------------------------|-------|------------------|------------------|----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| LA CARBOB GASOLINE(OPIS)S | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LA JET FUEL VS NYM NO 2 H | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| LA JET (OPIS) SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LLS (ARGUS) CALENDAR SWA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LLS (ARGUS) VS WTI SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LOS ANGELES CARB GASOLIN | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| LTD NAT GAS | 0 | 0 | 0.0% | 171,810 | 188,472 | -8.84% | 0 | 0 | 0.0% | 1,405,540 | 1,810,102 | -22.4% |
| MARS (ARGUS) VS WTI SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MARS (ARGUS) VS WTI TRD M | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 480 | 375 | 28.0% |
| MARS BLEND CRUDE OIL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MCCLOSKEY ARA ARGS COAL | 0 | 0 | 0.0% | 506 | 0 | 0.00% | 0 | 0 | 0.0% | 4,997 | 719 | 595.0% |
| MCCLOSKEY RCH BAY COAL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MGF FUT | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MGN1 SWAP FUT | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MICHIGAN BASIS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MICHIGAN MISO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MINI GAS EUROBOB OXY NWE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MINI RBOB V. EBOBARG NWE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MINI RBOB V. EBOB(ARGUS) N | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MINY HTG OIL | 0 | 0 | 0.0% | 3 | 7 | -57.14% | 0 | 0 | 0.0% | 29 | 36 | -19.4% |
| MINY NATURAL GAS | 0 | 0 | 0.0% | 44,528 | 24,447 | 82.14% | 0 | 0 | 0.0% | 270,597 | 227,566 | 18.9% |
| MINY RBOB GAS | 0 | 0 | 0.0% | 4 | 5 | -20.00% | 0 | 0 | 0.0% | 60 | 33 | 81.8% |
| MINY WTI CRUDE OIL | 0 | 0 | 0.0% | 606,380 | 298,906 | 102.87% | 0 | 0 | 0.0% | 4,345,418 | 2,989,238 | 45.4% |
| MJC FUT | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MNC FUT | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU ETHANE 5 DEC | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU ETHANE OPIS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU LDH PROPANE | 0 | 0 | 0.0% | 0 | 14 | -100.00% | 0 | 0 | 0.0% | 112 | 184 | -39.1% |
| MONT BELVIEU LDH PROPANE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU NATURAL GAS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU NATURAL GAS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU NORMAL BUTA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MONT BELVIEU NORMAL BUTA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NAT GAS BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry SEP 2019 | Open Outcry SEP 2018 | % CHG | ELEC SEP 2019 | ELEC SEP 2018 | % CHG | Open Outcry Y.T.D 2019 | Open Outcry Y.T.D 2018 | % CHG | ELEC Y.T.D 2019 | ELEC Y.T.D 2018 | % CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| NATURAL GAS | 0 | 0 | 0.0% | 57,120 | 73,666 | -22.46% | 0 | 0 | 0.0% | 355,689 | 439,470 | -19.1% |
| NATURAL GAS FIXED PRICE S | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| NATURAL GAS INDEX | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| NATURAL GAS PEN SWP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS PHY | 0 | 0 | 0.0% | 9,599,264 | 9,438,851 | 1.70% | 0 | 0 | 0.0% | 70,824,480 | 77,419,265 | -8.5% |
| NEPOOL CNCTCT 5MW D AH O | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL CONECTIC 5MW D AH | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL INTR HUB 5MW D AH | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL NE MASS 5MW D AH | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL NE MASS 5MW D AH | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL RHD ISLD 5MW D AH | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL RHODE IL 5MW D AH | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL W CNT MASS 5MW D | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEPOOL W CNTR M 5MW D AH | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEW ENGLAND HUB PEAK DAI | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEW YORK ETHANOL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEW YORK HUB ZONE G PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NEW YORK HUB ZONE J PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NGPL MID-CONTINENT | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NGPL TEX/OK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| N ILLINOIS HUB DAILY | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| N ILLINOIS HUB MTHLY | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NO 2 UP-DOWN SPREAD CALE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NORTHERN NATURAL GAS DEM | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NORTHERN NATURAL GAS VEN | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NORTHERN ILLINOIS OFF-PEA | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| NORTHWEST ROCKIES BASIS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| N ROCKIES PIPE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY1% VS GC SPREAD SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY 2.2% FUEL OIL (PLATTS | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| NY 3.0% FUEL OIL (PLATTS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY HARBOR 1% FUEL OIL BAL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY HARBOR HEAT OIL SWP | 0 | 0 | 0.0% | 5 | 0 | 0.00% | 0 | 0 | 0.0% | 19 | 67 | -71.6% |
| NY HARBOR LOW SULPUR GA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

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|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|--------------------|-------|
| Energy Futures | | | | | | | | | | | | |
| NY HARBOR RESIDUAL FUEL 1 | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY HARBOR RESIDUAL FUEL | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| NYH NO 2 CRACK SPREAD CA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO A | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| NYISO A OFF-PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| NYISO CAPACITY | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO G | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| NYISO G OFF-PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| NYISO J | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO J OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE A 5MW D AH O P | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE A 5MW D AH PK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE C 5MW D AH O P | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| NYISO ZONE C 5MW D AH PK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| NYISO ZONE G 5MW D AH O P | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE G 5MW D AH PK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE J 5MW D AH O P | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYISO ZONE J 5MW D AH PK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYMEX ALUMINUM FUTURES | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYMEX ULSD VS NYMEX HO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY ULSD (ARGUS) VS HEATIN | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ONEOK OKLAHOMA NG BASIS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ONTARIO POWER SWAPS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PANHANDLE BASIS SWAP FUT | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PANHANDLE PIPE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PERMIAN BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETROCHEMICALS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO CRCKS & SPRDS ASIA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO CRCKS & SPRDS NA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO CRK&SPRD EURO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETROLEUM PRODUCTS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETROLEUM PRODUCTS ASIA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO OUTRIGHT EURO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO OUTRIGHT NA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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|--------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| PJM AD HUB 5MW REAL TIME | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM AECO DA OFF-PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| PJM AECO DA PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| PJM APS ZONE DA OFF-PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| PJM APS ZONE DA PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| PJM ATSI ELEC | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM BGE DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM BGE DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM COMED 5MW D AH O PK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM COMED 5MW D AH PK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM DAILY | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM DAYTON DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM DAYTON DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM JCPL DA OFF-PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| PJM JCPL DA PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| PJM MONTHLY | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM NI HUB 5MW REAL TIME | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM NILL DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM NILL DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM OFF-PEAK LMP SWAP FU | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM PECO ZONE5MW PEAK C | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| PJM PPL DA OFF-PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| PJM PPL DA PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| PJM PSEG DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM PSEG DA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM WESTH DA OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM WESTHDA PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM WESTH RT OFF-PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM WESTH RT PEAK | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PLASTICS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PREMIUM UNLD 10P FOB MED | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PREMIUM UNLEAD 10PPM FOB | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PREM UNL GAS 10PPM RDAM | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PREM UNL GAS 10PPM RDAM | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry SEP 2019 | Open Outcry SEP 2018 | % CHG | ELEC SEP 2019 | ELEC SEP 2018 | % CHG | Open Outcry Y.T.D 2019 | Open Outcry Y.T.D 2018 | % CHG | ELEC Y.T.D 2019 | ELEC Y.T.D 2018 | % CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| PROPANE NON-LDH MB (OPIS) | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PROPANE NON-LDH MT. BEL (| 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB CALENDAR SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB CRACK SPREAD | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB CRACK SPREAD BALMO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB GAS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB GASOLINE BALMO CLNC | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB PHY | 0 | 0 | 0.0% | 3,869,679 | 3,707,112 | 4.39% | 0 | 0 | 0.0% | 36,719,254 | 35,673,959 | 2.9% |
| RBOB SPREAD (PLATTS) SWA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB VS HEATING OIL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SAN JUAN BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SAN JUAN PIPE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE 180CST BALMO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE 380CST BALMO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE 380CST FUEL OIL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE FUEL 180CST CAL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE FUEL OIL SPREA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE GASOIL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE GASOIL CALEND | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE GASOIL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 2 | -100.0% |
| SINGAPORE GASOIL VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE JET KERO BALMO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE JET KERO GASOI | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE JET KEROSENE S | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE JET KERO VS. GA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE MOGAS 92 UNLEA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE MOGAS 92 UNLEA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 2 | -100.0% |
| SINGAPORE NAPHTHA SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SING FUEL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SOCAL PIPE SWAP | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| SONAT BASIS SWAP FUTURE | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| SOUTH STAR TEX OKLHM KNS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| Sumas Basis Swap | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SUMAS NAT GAS PLATTS FIXE | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry SEP 2019 | Open Outcry SEP 2018 | % CHG | ELEC SEP 2019 | ELEC SEP 2018 | % CHG | Open Outcry Y.T.D 2019 | Open Outcry Y.T.D 2018 | % CHG | ELEC Y.T.D 2019 | ELEC Y.T.D 2018 | % CHG |
|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|---------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| Energy Futures | | | | | | | | | | | | |
| TC2 ROTTERDAM TO USAC 37 | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TC5 RAS TANURA TO YOKOHA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TCO BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TCO NG INDEX SWAP | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| TD3 MEG TO JAPAN 250K MT | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TENNESSEE 500 LEG BASIS S | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| TENNESSEE 800 LEG NG BASI | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| TENNESSEE ZONE 0 BASIS S | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TETCO M-3 INDEX | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| Tetco STX Basis | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TEXAS EASTERN ZONE M-3 BA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TEXAS GAS ZONE1 NG BASIS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| Transco Zone 3 Basis | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TRANSCO ZONE 3 NG INDEX S | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| TRANSCO ZONE4 BASIS SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TRANSCO ZONE 4 NAT GAS IN | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| TRANSCO ZONE 6 BASIS SWA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| TRANSCO ZONE 6 INDEX | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| UCM FUT | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| UK NBP NAT GAS CAL MTH FU | 0 | 0 | 0.0% | 1,210 | 5,342 | -77.35% | 0 | 0 | 0.0% | 5,679 | 45,904 | -87.6% |
| ULSD 10PPM CIF MED SWAP | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| ULSD 10PPM CIF MED VS ICE | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ULSD 10PPM CIF NW BALMO S | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| ULSD UP-DOWN BALMO SWP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| UP DOWN GC ULSD VS NMX H | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WAHA BASIS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WAHA INDEX SWAP FUTURE | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| WESTERN RAIL DELIVERY PR | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WTI-BRENT BULLET SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WTI-BRENT CALENDAR SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 6 | -100.0% |
| WTI CALENDAR | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WTS (ARGUS) VS WTI SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WTS (ARGUS) VS WTI TRD MT | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

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|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| Energy Options | | | | | | | | | | | | |
| 12 MO GASOIL CAL SWAP SPR | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| BRENT 1 MONTH CAL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT CALENDAR SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT CRUDE OIL 12 M CSO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT CRUDE OIL 1 M CSO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 1,800 | 2,900 | -37.9% |
| BRENT CRUDE OIL 6 M CSO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| BRENT OIL LAST DAY | 0 | 0 | 0.0% | 53,891 | 85,616 | -37.05% | 0 | 0 | 0.0% | 567,256 | 550,429 | 3.1% |
| COAL API2 INDEX | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| COAL API4 INDEX | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| COAL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRUDE OIL | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| CRUDE OIL 1MO | 0 | 0 | 0.0% | 10,450 | 4,345 | 140.51% | 0 | 0 | 0.0% | 79,961 | 125,235 | -36.2% |
| CRUDE OIL APO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 3 | 331 | -99.1% |
| CRUDE OIL CALNDR STRIP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRUDE OIL OUTRIGHTS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CRUDE OIL PHY | 0 | 0 | 0.0% | 2,698,381 | 2,721,678 | -0.86% | 0 | 0 | 0.0% | 21,809,601 | 26,250,365 | -16.9% |
| ELEC MISO PEAK | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| ETHANOL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| ETHANOL SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EUROPEAN JET KEROSENE N | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| FREIGHT MARKETS | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| GASOLINE | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| HEATING OIL CRACK OPTIONS | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| HEATING OIL CRK SPD AVG P | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| HEATING OIL PHY | 0 | 0 | 0.0% | 6,131 | 3,656 | 67.70% | 0 | 0 | 0.0% | 40,066 | 46,540 | -13.9% |
| HENRY HUB FINANCIAL LAST | 0 | 0 | 0.0% | 46 | 0 | 0.00% | 0 | 0 | 0.0% | 46 | 5 | 820.0% |
| HO 1 MONTH CLNDR OPTIONS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| LLS CRUDE OIL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MCCLOSKEY ARA ARGS COAL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MCCLOSKEY RCH BAY COAL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| NATURAL GAS 1 M CSO FIN | 0 | 0 | 0.0% | 8,002 | 243 | 3,193.00% | 0 | 0 | 0.0% | 19,522 | 1,629 | 1,098.4% |
| NATURAL GAS 2 M CSO FIN | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS 3 M CSO FIN | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 1 | -100.0% |

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|---------------------------|----------------------------|----------------------------|-------|------------------|------------------|-----------|------------------------------|------------------------------|-------|--------------------|-----------------------|----------|
| Energy Options | | | | | | | | | | | | |
| NATURAL GAS 5 M CSO FIN | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS 6 M CSO FIN | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS OPTION ON CA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NATURAL GAS PHY | 0 | 0 | 0.0% | 1,371,015 | 1,467,911 | -6.60% | 0 | 0 | 0.0% | 8,521,331 | 11,071,844 | -23.0% |
| NATURAL GAS WINTER STRIP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| N ROCKIES PIPE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NY HARBOR HEAT OIL SWP | 0 | 0 | 0.0% | 19 | 50 | -62.00% | 0 | 0 | 0.0% | 396 | 496 | -20.2% |
| NYISO ZONE G 5MW PEAK OP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NYMEX EUROPEAN GASOIL A | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| PANHANDLE PIPE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETROCHEMICALS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 21 | 23 | -8.7% |
| PETRO OUTRIGHT EURO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PETRO OUTRIGHT NA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM WES HUB PEAK CAL MTH | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| PJM WES HUB PEAK LMP 50M | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB 1MO CAL SPD OPTIONS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB CALENDAR SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| RBOB CRACK | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| RBOB PHY | 0 | 0 | 0.0% | 3,649 | 2,412 | 51.29% | 0 | 0 | 0.0% | 32,930 | 31,187 | 5.6% |
| ROTTERDAM 3.5%FUEL OIL CL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SAN JUAN PIPE SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SHORT TERM | 0 | 0 | 0.0% | 0 | 15 | -100.00% | 0 | 0 | 0.0% | 43 | 996 | -95.7% |
| SHORT TERM NATURAL GAS | 0 | 0 | 0.0% | 0 | 35 | -100.00% | 0 | 0 | 0.0% | 84 | 845 | -90.1% |
| SINGAPORE GASOIL CALEND A | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SINGAPORE JET FUEL CALEN | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SOCAL PIPE SWAP | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| WTI-BRENT BULLET SWAP | 0 | 0 | 0.0% | 1,100 | 1,104 | -0.36% | 0 | 0 | 0.0% | 31,705 | 138,765 | -77.2% |
| WTI CRUDE OIL 1 M CSO FI | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 8,600 | 15,050 | -42.9% |
| FX Futures | | | | | | | | | | | | |
| AD/CD CROSS RATES | 0 | 0 | 0.0% | 16 | 1 | 1,500.00% | 0 | 0 | 0.0% | 133 | 53 | 150.9% |

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CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry SEP 2019 | Open Outcry SEP 2018 | % CHG | ELEC SEP 2019 | ELEC SEP 2018 | % CHG | Open Outcry Y.T.D 2019 | Open Outcry Y.T.D 2018 | % CHG | ELEC Y.T.D 2019 | ELEC Y.T.D 2018 | % CHG |
|------------------------|----------------------------|----------------------------|---------|------------------|------------------|-----------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| FX Futures | | | | | | | | | | | | |
| AD/JY CROSS RATES | 0 | 0 | 0.0% | 1,798 | 6,058 | -70.32% | 0 | 0 | 0.0% | 24,609 | 39,288 | -37.4% |
| AD/NE CROSS RATES | 0 | 0 | 0.0% | 399 | 34 | 1,073.53% | 0 | 0 | 0.0% | 1,284 | 699 | 83.7% |
| AUSTRALIAN DOLLAR | 0 | 0 | 0.0% | 2,103,582 | 2,349,852 | -10.48% | 0 | 0 | 0.0% | 18,997,885 | 21,321,476 | -10.9% |
| BDI | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| BP/JY CROSS RATES | 0 | 0 | 0.0% | 5,915 | 3,114 | 89.95% | 0 | 0 | 0.0% | 28,449 | 28,091 | 1.3% |
| BP/SF CROSS RATES | 0 | 0 | 0.0% | 252 | 444 | -43.24% | 0 | 0 | 0.0% | 3,714 | 3,354 | 10.7% |
| BRAZIL REAL | 0 | 0 | 0.0% | 135,291 | 95,158 | 42.18% | 0 | 0 | 0.0% | 1,143,892 | 888,644 | 28.7% |
| BRITISH POUND | 3 | 3 | 0.0% | 3,168,766 | 2,955,386 | 7.22% | 3 | 10 | -70.0% | 22,056,640 | 24,504,277 | -10.0% |
| CANADIAN DOLLAR | 0 | 0 | 0.0% | 1,930,683 | 1,679,782 | 14.94% | 3 | 41 | -92.7% | 14,776,756 | 15,745,435 | -6.2% |
| CD/JY CROSS RATES | 0 | 0 | 0.0% | 1 | 0 | 0.00% | 0 | 0 | 0.0% | 127 | 849 | -85.0% |
| CHINESE RENMINBI (CNH) | 0 | 0 | 0.0% | 34,786 | 21,260 | 63.62% | 0 | 0 | 0.0% | 254,806 | 59,394 | 329.0% |
| CZECK KORUNA (EC) | 0 | 0 | 0.0% | 12 | 4 | 200.00% | 0 | 0 | 0.0% | 30 | 6 | 400.0% |
| CZECK KORUNA (US) | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 15 | -100.0% |
| EC/AD CROSS RATES | 0 | 0 | 0.0% | 6,888 | 5,747 | 19.85% | 0 | 0 | 0.0% | 42,652 | 18,616 | 129.1% |
| EC/CD CROSS RATES | 0 | 0 | 0.0% | 7,110 | 5,933 | 19.84% | 0 | 0 | 0.0% | 30,100 | 31,110 | -3.2% |
| EC/NOK CROSS RATES | 0 | 0 | 0.0% | 384 | 772 | -50.26% | 0 | 0 | 0.0% | 4,422 | 3,757 | 17.7% |
| EC/SEK CROSS RATES | 0 | 0 | 0.0% | 1,516 | 1,656 | -8.45% | 0 | 0 | 0.0% | 6,305 | 7,843 | -19.6% |
| EFX/BP CROSS RATES | 0 | 0 | 0.0% | 145,865 | 144,144 | 1.19% | 0 | 0 | 0.0% | 848,681 | 751,416 | 12.9% |
| EFX/JY CROSS RATES | 0 | 0 | 0.0% | 126,224 | 108,953 | 15.85% | 0 | 0 | 0.0% | 618,453 | 739,218 | -16.3% |
| EFX/SF CROSS RATES | 0 | 0 | 0.0% | 60,131 | 49,778 | 20.80% | 0 | 0 | 0.0% | 320,581 | 267,526 | 19.8% |
| E-MICRO AUD/USD | 0 | 0 | 0.0% | 67,895 | 121,585 | -44.16% | 0 | 0 | 0.0% | 961,239 | 967,888 | -0.7% |
| E-MICRO CAD/USD | 0 | 0 | 0.0% | 16,522 | 13,711 | 20.50% | 0 | 0 | 0.0% | 154,346 | 159,410 | -3.2% |
| E-MICRO CHF/USD | 0 | 0 | 0.0% | 3,795 | 1,995 | 90.23% | 0 | 0 | 0.0% | 25,860 | 13,293 | 94.5% |
| E-MICRO EUR/USD | 0 | 0 | 0.0% | 201,254 | 332,456 | -39.46% | 0 | 0 | 0.0% | 2,159,266 | 3,364,884 | -35.8% |
| E-MICRO GBP/USD | 0 | 0 | 0.0% | 53,918 | 46,347 | 16.34% | 0 | 0 | 0.0% | 396,919 | 428,269 | -7.3% |
| E-MICRO INR/USD | 0 | 0 | 0.0% | 4,812 | 5,862 | -17.91% | 0 | 0 | 0.0% | 45,002 | 40,852 | 10.2% |
| E-MICRO JPY/USD | 0 | 0 | 0.0% | 25,717 | 23,194 | 10.88% | 0 | 0 | 0.0% | 262,337 | 275,559 | -4.8% |
| E-MINI EURO FX | 0 | 0 | 0.0% | 109,376 | 113,175 | -3.36% | 0 | 0 | 0.0% | 881,253 | 940,863 | -6.3% |
| E-MINI JAPANESE YEN | 0 | 0 | 0.0% | 21,019 | 8,809 | 138.61% | 0 | 0 | 0.0% | 151,426 | 117,022 | 29.4% |
| EURO FX | 3 | 4 | -25.0% | 5,661,531 | 6,141,988 | -7.82% | 60 | 538 | -88.8% | 39,617,280 | 52,908,910 | -25.1% |
| HUNGARIAN FORINT (EC) | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HUNGARIAN FORINT (US) | 0 | 0 | 0.0% | 1 | 0 | 0.00% | 0 | 0 | 0.0% | 9 | 0 | 0.0% |
| INDIAN RUPEE | 0 | 0 | 0.0% | 80,493 | 89,647 | -10.21% | 0 | 0 | 0.0% | 652,663 | 785,215 | -16.9% |
| JAPANESE YEN | 0 | 2 | -100.0% | 2,983,670 | 2,568,243 | 16.18% | 2 | 104 | -98.1% | 24,572,811 | 27,134,775 | -9.4% |

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CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry SEP 2019 | Open Outcry SEP 2018 | % CHG | ELEC SEP 2019 | ELEC SEP 2018 | % CHG | Open Outcry Y.T.D 2019 | Open Outcry Y.T.D 2018 | % CHG | ELEC Y.T.D 2019 | ELEC Y.T.D 2018 | % CHG |
|---------------------------|----------------------------|----------------------------|---------|------------------|------------------|----------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| FX Futures | | | | | | | | | | | | |
| KOREAN WON | 0 | 0 | 0.0% | 392 | 320 | 22.50% | 0 | 0 | 0.0% | 2,731 | 2,093 | 30.5% |
| MEXICAN PESO | 0 | 0 | 0.0% | 1,375,714 | 1,485,043 | -7.36% | 0 | 0 | 0.0% | 11,473,436 | 12,653,298 | -9.3% |
| NEW ZEALND DOLLAR | 0 | 0 | 0.0% | 628,578 | 615,837 | 2.07% | 0 | 0 | 0.0% | 5,226,688 | 5,766,533 | -9.4% |
| NKR/USD CROSS RATE | 0 | 0 | 0.0% | 7,251 | 9,475 | -23.47% | 0 | 0 | 0.0% | 43,412 | 42,553 | 2.0% |
| POLISH ZLOTY (EC) | 0 | 0 | 0.0% | 22 | 26 | -15.38% | 0 | 0 | 0.0% | 440 | 174 | 152.9% |
| POLISH ZLOTY (US) | 0 | 0 | 0.0% | 160 | 69 | 131.88% | 0 | 0 | 0.0% | 940 | 770 | 22.1% |
| RMB USD | 0 | 0 | 0.0% | 1 | 0 | 0.00% | 0 | 0 | 0.0% | 7 | 23 | -69.6% |
| RUSSIAN RUBLE | 0 | 0 | 0.0% | 151,524 | 85,544 | 77.13% | 0 | 0 | 0.0% | 676,001 | 487,368 | 38.7% |
| S.AFRICAN RAND | 0 | 0 | 0.0% | 79,763 | 55,589 | 43.49% | 0 | 0 | 0.0% | 454,692 | 424,583 | 7.1% |
| SF/JY CROSS RATES | 0 | 0 | 0.0% | 4 | 7 | -42.86% | 0 | 0 | 0.0% | 11 | 7 | 57.1% |
| SHEKEL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SKR/USD CROSS RATES | 0 | 0 | 0.0% | 4,641 | 8,656 | -46.38% | 0 | 0 | 0.0% | 24,493 | 38,404 | -36.2% |
| SWISS FRANC | 0 | 0 | 0.0% | 724,421 | 695,845 | 4.11% | 0 | 0 | 0.0% | 5,136,404 | 5,440,395 | -5.6% |
| TURKISH LIRA | 0 | 0 | 0.0% | 8 | 5 | 60.00% | 0 | 0 | 0.0% | 68 | 10 | 580.0% |
| USDZAR | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 20 | 5 | 300.0% |
| FX Options | | | | | | | | | | | | |
| AUD/USD MONTHLY OPTIONS | 0 | 600 | -100.0% | 72,234 | 84,970 | -14.99% | 0 | 600 | -100.0% | 613,503 | 737,473 | -16.8% |
| AUD/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 14,616 | 30,915 | -52.7% |
| AUD/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 5,858 | 15,259 | -61.61% | 0 | 0 | 0.0% | 53,419 | 61,128 | -12.6% |
| AUD/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 3,945 | 10,463 | -62.30% | 0 | 0 | 0.0% | 56,015 | 89,339 | -37.3% |
| AUD/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 4,091 | 12,740 | -67.89% | 0 | 0 | 0.0% | 60,421 | 95,189 | -36.5% |
| AUD/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 16,035 | 25,186 | -36.3% |
| AUD/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 1,571 | 4,174 | -62.36% | 0 | 0 | 0.0% | 15,574 | 27,002 | -42.3% |
| AUD/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 1,273 | 4,705 | -72.94% | 0 | 0 | 0.0% | 16,139 | 21,125 | -23.6% |
| AUD/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 881 | 1,171 | -24.77% | 0 | 0 | 0.0% | 7,112 | 12,011 | -40.8% |
| AUD/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 1,723 | 2,789 | -38.22% | 0 | 0 | 0.0% | 11,787 | 19,276 | -38.9% |
| AUD/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 3,824 | 7,552 | -49.4% |
| AUSTRALIAN DLR (EU) | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| AUSTRALIAN DOLLAR | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| BRITISH POUND | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| BRITISH POUND (EU) | 0 | 0 | 0.0% | 0 | 3 | -100.00% | 0 | 0 | 0.0% | 0 | 275 | -100.0% |

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CME Group Exchange Volume Comparison Report - Monthly

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|---------------------------|----------------------------|----------------------------|--------|------------------|------------------|------------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| FX Options | | | | | | | | | | | | |
| BRL/USD MONTHLY OPTIONS | 0 | - | - | 260 | - | | 0 | - | - | 396 | - | - |
| CAD/USD MONTHLY OPTIONS | 42 | 136 | -69.1% | 46,479 | 82,415 | -43.60% | 909 | 2,101 | -56.7% | 466,695 | 782,134 | -40.3% |
| CAD/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 41 | 0 | 0.00% | 0 | 0 | 0.0% | 27,013 | 45,518 | -40.7% |
| CAD/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 7,035 | 24,521 | -71.31% | 0 | 0 | 0.0% | 61,417 | 115,111 | -46.6% |
| CAD/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 8,353 | 16,901 | -50.58% | 0 | 0 | 0.0% | 83,753 | 158,609 | -47.2% |
| CAD/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 6,140 | 15,938 | -61.48% | 0 | 0 | 0.0% | 88,685 | 143,653 | -38.3% |
| CAD/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 23,565 | 52,416 | -55.0% |
| CAD/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 990 | 4,735 | -79.09% | 0 | 0 | 0.0% | 25,476 | 31,296 | -18.6% |
| CAD/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 3,788 | 4,568 | -17.08% | 0 | 0 | 0.0% | 29,948 | 32,108 | -6.7% |
| CAD/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 3,323 | 6,957 | -52.24% | 0 | 0 | 0.0% | 27,681 | 35,360 | -21.7% |
| CAD/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 1,837 | 1,755 | 4.67% | 0 | 0 | 0.0% | 23,929 | 32,908 | -27.3% |
| CAD/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 7,133 | 16,134 | -55.8% |
| CANADIAN DOLLAR | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| CANADIAN DOLLAR (EU) | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 63 | -100.0% |
| CHF/USD MONTHLY OPTIONS | 0 | 0 | 0.0% | 2,854 | 1,261 | 126.33% | 0 | 0 | 0.0% | 20,432 | 21,867 | -6.6% |
| CHF/USD WKLY FRIDAY OPTIO | 0 | 0 | 0.0% | 50 | 0 | 0.00% | 0 | 0 | 0.0% | 167 | 71 | 135.2% |
| CHF/USD WKLY FRIDAY OPTIO | 0 | 0 | 0.0% | 219 | 108 | 102.78% | 0 | 0 | 0.0% | 2,056 | 751 | 173.8% |
| CHF/USD WKLY FRIDAY OPTIO | 0 | 0 | 0.0% | 229 | 2 | 11,350.00% | 0 | 0 | 0.0% | 1,648 | 907 | 81.7% |
| CHF/USD WKLY FRIDAY OPTIO | 0 | 0 | 0.0% | 218 | 117 | 86.32% | 0 | 0 | 0.0% | 993 | 1,739 | -42.9% |
| CHF/USD WKLY FRIDAY OPTIO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 613 | 712 | -13.9% |
| EUR/GBP MONTHLY OPTIONS | 0 | - | - | 0 | - | | 0 | - | - | 74 | - | - |
| EUR/JPY MONTHLY OPTIONS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| EURO FX | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| EURO FX (EU) | 0 | 0 | 0.0% | 0 | 3 | -100.00% | 0 | 0 | 0.0% | 0 | 59 | -100.0% |
| EUR/USD MONTHLY OPTIONS | 236 | 1,350 | -82.5% | 366,303 | 388,110 | -5.62% | 9,004 | 10,317 | -12.7% | 3,348,291 | 4,738,173 | -29.3% |
| EUR/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 103 | 0 | 0.00% | 0 | 80 | -100.0% | 86,090 | 226,644 | -62.0% |
| EUR/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 38,828 | 41,764 | -7.03% | 0 | 0 | 0.0% | 247,432 | 297,585 | -16.9% |
| EUR/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 36,360 | 42,792 | -15.03% | 0 | 1,800 | -100.0% | 274,634 | 444,452 | -38.2% |
| EUR/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 24,602 | 48,153 | -48.91% | 0 | 750 | -100.0% | 323,163 | 468,246 | -31.0% |
| EUR/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 80,249 | 123,624 | -35.1% |
| EUR/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 14,328 | 9,811 | 46.04% | 0 | 0 | 0.0% | 120,635 | 118,152 | 2.1% |
| EUR/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 12,280 | 9,096 | 35.00% | 0 | 0 | 0.0% | 117,643 | 105,999 | 11.0% |
| EUR/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 20,681 | 11,237 | 84.04% | 0 | 0 | 0.0% | 115,932 | 106,598 | 8.8% |
| EUR/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 14,658 | 8,708 | 68.33% | 0 | 0 | 0.0% | 122,947 | 123,939 | -0.8% |

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CME Group Exchange Volume Comparison Report - Monthly

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|---------------------------|----------------------------|----------------------------|---------|------------------|------------------|----------|------------------------------|------------------------------|---------|--------------------|-----------------------|----------|
| FX Options | | | | | | | | | | | | |
| EUR/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 29,955 | 47,956 | -37.5% |
| GBP/USD MONTHLY OPTIONS | 48 | 56 | -14.3% | 134,100 | 208,405 | -35.65% | 872 | 602 | 44.9% | 1,087,534 | 1,550,180 | -29.8% |
| GBP/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 32 | 0 | 0.00% | 0 | 0 | 0.0% | 23,932 | 53,308 | -55.1% |
| GBP/USD WKLY FRIDAY OPTIC | 16 | 0 | 0.0% | 6,836 | 20,099 | -65.99% | 16 | 0 | 0.0% | 56,032 | 110,749 | -49.4% |
| GBP/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 6,365 | 23,777 | -73.23% | 0 | 30 | -100.0% | 63,251 | 170,136 | -62.8% |
| GBP/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 4,499 | 21,770 | -79.33% | 0 | 0 | 0.0% | 60,177 | 180,893 | -66.7% |
| GBP/USD WKLY FRIDAY OPTIC | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 25,313 | 43,715 | -42.1% |
| GBP/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 958 | 4,287 | -77.65% | 0 | 0 | 0.0% | 20,525 | 30,067 | -31.7% |
| GBP/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 1,514 | 3,022 | -49.90% | 0 | 0 | 0.0% | 21,969 | 34,102 | -35.6% |
| GBP/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 1,097 | 4,051 | -72.92% | 0 | 0 | 0.0% | 23,654 | 36,834 | -35.8% |
| GBP/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 1,637 | 7,067 | -76.84% | 0 | 0 | 0.0% | 20,873 | 34,345 | -39.2% |
| GBP/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 7,357 | 17,377 | -57.7% |
| JAPANESE YEN | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| JAPANESE YEN (EU) | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| JPY/USD MONTHLY OPTIONS | 30 | 395 | -92.4% | 124,325 | 109,689 | 13.34% | 193 | 4,438 | -95.7% | 1,271,437 | 1,492,959 | -14.8% |
| JPY/USD WKLY FRIDAY OPTIO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 44,503 | 66,384 | -33.0% |
| JPY/USD WKLY FRIDAY OPTIO | 0 | 0 | 0.0% | 11,079 | 18,481 | -40.05% | 0 | 0 | 0.0% | 90,144 | 132,850 | -32.1% |
| JPY/USD WKLY FRIDAY OPTIO | 0 | 0 | 0.0% | 16,254 | 16,996 | -4.37% | 0 | 0 | 0.0% | 131,647 | 187,857 | -29.9% |
| JPY/USD WKLY FRIDAY OPTIO | 0 | 0 | 0.0% | 9,268 | 19,668 | -52.88% | 0 | 0 | 0.0% | 128,723 | 198,260 | -35.1% |
| JPY/USD WKLY FRIDAY OPTIO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 46,282 | 47,221 | -2.0% |
| JPY/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 7,813 | 5,191 | 50.51% | 0 | 0 | 0.0% | 42,066 | 35,680 | 17.9% |
| JPY/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 4,613 | 3,358 | 37.37% | 0 | 0 | 0.0% | 38,087 | 35,570 | 7.1% |
| JPY/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 6,161 | 2,140 | 187.90% | 0 | 0 | 0.0% | 36,453 | 29,436 | 23.8% |
| JPY/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 4,450 | 2,599 | 71.22% | 0 | 0 | 0.0% | 39,156 | 43,347 | -9.7% |
| JPY/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 7,723 | 14,041 | -45.0% |
| MXN/USD MONTHLY OPTIONS | 0 | 1,200 | -100.0% | 809 | 651 | 24.27% | 900 | 5,288 | -83.0% | 12,285 | 12,775 | -3.8% |
| MXN/USD WKLY FRIDAY OPTI | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| MXN/USD WKLY FRIDAY OPTI | 0 | 0 | 0.0% | 0 | 5 | -100.00% | 0 | 0 | 0.0% | 429 | 205 | 109.3% |
| MXN/USD WKLY FRIDAY OPTI | 0 | 0 | 0.0% | 0 | 48 | -100.00% | 0 | 0 | 0.0% | 1,103 | 48 | 2,197.9% |
| MXN/USD WKLY FRIDAY OPTI | 0 | 0 | 0.0% | 0 | 26 | -100.00% | 0 | 0 | 0.0% | 329 | 260 | 26.5% |
| MXN/USD WKLY FRIDAY OPTI | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| NZD/USD MONTHLY OPTIONS | 0 | - | - | 1,652 | - | - | 0 | - | - | 4,975 | - | - |
| NZD/USD WKLY FRIDAY OPTIO | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| NZD/USD WKLY FRIDAY OPTIO | 0 | - | - | 0 | - | - | 0 | - | - | 120 | - | - |

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CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry SEP 2019 | Open Outcry SEP 2018 | % CHG | ELEC SEP 2019 | ELEC SEP 2018 | % CHG | Open Outcry Y.T.D 2019 | Open Outcry Y.T.D 2018 | % CHG | ELEC Y.T.D 2019 | ELEC Y.T.D 2018 | % CHG |
|---------------------------------|----------------------------|----------------------------|--------|------------------|------------------|----------|------------------------------|------------------------------|--------|--------------------|-----------------------|----------|
| FX Options | | | | | | | | | | | | |
| NZD/USD WKLY FRIDAY OPTIO | 0 | - | - | 0 | - | | 0 | - | - | 206 | - | - |
| SWISS FRANC | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| SWISS FRANC (EU) | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| Ags Futures | | | | | | | | | | | | |
| FERTILIZER PRODUCS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| Foreign Exchange Futures | | | | | | | | | | | | |
| CHILEAN PESO | 0 | 0 | 0.0% | 0 | 493 | -100.00% | 0 | 0 | 0.0% | 0 | 11,841 | -100.0% |
| Foreign Exchange Options | | | | | | | | | | | | |
| AUD/USD WKLY WED OPTIONS | 0 | 0 | 0.0% | 560 | 1,252 | -55.27% | 0 | 0 | 0.0% | 7,063 | 7,928 | -10.9% |
| Ag Products Futures | | | | | | | | | | | | |
| BUTTER CS | 0 | 0 | 0.0% | 3,483 | 3,986 | -12.62% | 0 | 0 | 0.0% | 36,246 | 37,744 | -4.0% |
| CASH-SETTLED CHEESE | 0 | 0 | 0.0% | 10,073 | 8,490 | 18.65% | 0 | 0 | 0.0% | 99,212 | 89,206 | 11.2% |
| CATTLE | 1,152 | 984 | 17.1% | 1,536,153 | 1,431,849 | 7.28% | 10,948 | 11,865 | -7.7% | 13,074,841 | 12,432,759 | 5.2% |
| CAT WEATHER EUROPEAN | 0 | - | - | 0 | - | | 0 | - | - | 0 | - | - |
| CDD SEASONAL STRIP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CDD WEATHER | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 25 | 0 | 0.0% |
| CHI WHEAT | 2,015 | 10,049 | -79.9% | 1,529,585 | 2,056,784 | -25.63% | 61,132 | 129,920 | -52.9% | 23,862,845 | 29,483,808 | -19.1% |
| CLASS IV MILK | 0 | 0 | 0.0% | 2,576 | 511 | 404.11% | 158 | 0 | 0.0% | 21,523 | 5,261 | 309.1% |
| COCOA TAS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 8 | 5 | 60.0% |
| COFFEE | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry SEP 2019 | Open Outcry SEP 2018 | % CHG | ELEC SEP 2019 | ELEC SEP 2018 | % CHG | Open Outcry Y.T.D 2019 | Open Outcry Y.T.D 2018 | % CHG | ELEC Y.T.D 2019 | ELEC Y.T.D 2018 | % CHG |
|----------------------------|----------------------------|----------------------------|---------|------------------|------------------|---------|------------------------------|------------------------------|---------|--------------------|-----------------------|-----------|
| Ag Products Futures | | | | | | | | | | | | |
| CORN | 5,349 | 18,705 | -71.4% | 5,149,685 | 5,403,997 | -4.71% | 217,236 | 311,358 | -30.2% | 82,445,035 | 73,945,803 | 11.5% |
| COTTON | 0 | 0 | 0.0% | 6 | 9 | -33.33% | 0 | 0 | 0.0% | 36 | 13 | 176.9% |
| DJ_UBS ROLL SELECT INDEX | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| DOW-UBS COMMOD INDEX | 0 | 0 | 0.0% | 70,880 | 87,065 | -18.59% | 0 | 0 | 0.0% | 437,003 | 718,178 | -39.2% |
| DRY WHEY | 0 | 0 | 0.0% | 956 | 1,517 | -36.98% | 0 | 0 | 0.0% | 10,931 | 11,679 | -6.4% |
| FEEDER CATTLE | 0 | 0 | 0.0% | 301,660 | 293,434 | 2.80% | 178 | 17 | 947.1% | 2,847,150 | 2,739,267 | 3.9% |
| FERTILIZER PRODUCTS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| GOLDMAN SACHS | 0 | 0 | 0.0% | 27,240 | 29,492 | -7.64% | 0 | 0 | 0.0% | 255,014 | 280,356 | -9.0% |
| GSCI EXCESS RETURN FUT | 0 | 0 | 0.0% | 334 | 278 | 20.14% | 0 | 0 | 0.0% | 334 | 616 | -45.8% |
| HDD EURO SEASONAL STRIP | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| HDD SEASONAL STRIP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HDD WEATHER | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 55 | -100.0% |
| HDD WEATHER EUROPEAN | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HOGS | 1,200 | 1,550 | -22.6% | 1,454,663 | 1,239,627 | 17.35% | 15,135 | 13,233 | 14.4% | 12,224,285 | 10,362,854 | 18.0% |
| HOUSING INDEX | 0 | 0 | 0.0% | 18 | 2 | 800.00% | 0 | 0 | 0.0% | 109 | 67 | 62.7% |
| Intercommodity Spread | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| KC WHEAT | 654 | 581 | 12.6% | 779,572 | 721,736 | 8.01% | 8,326 | 10,950 | -24.0% | 11,489,289 | 12,004,219 | -4.3% |
| LUMBER | 0 | 0 | 0.0% | 10,058 | 14,116 | -28.75% | 0 | 0 | 0.0% | 123,264 | 168,067 | -26.7% |
| MALAYSIAN PALM SWAP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| MILK | 2 | 0 | 0.0% | 34,943 | 22,004 | 58.80% | 262 | 1,182 | -77.8% | 233,014 | 204,949 | 13.7% |
| MINI CORN | 0 | 0 | 0.0% | 13,184 | 7,914 | 66.59% | 0 | 0 | 0.0% | 135,704 | 91,835 | 47.8% |
| MINI SOYBEAN | 0 | 0 | 0.0% | 17,357 | 13,212 | 31.37% | 0 | 0 | 0.0% | 162,013 | 203,476 | -20.4% |
| MINI WHEAT | 0 | 0 | 0.0% | 16,521 | 5,750 | 187.32% | 0 | 0 | 0.0% | 70,670 | 71,882 | -1.7% |
| MLK MID OPTIONS | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| NFD MILK | 0 | 0 | 0.0% | 5,925 | 4,143 | 43.01% | 19 | 43 | -55.8% | 56,690 | 46,006 | 23.2% |
| OATS | 0 | 0 | 0.0% | 8,174 | 8,011 | 2.03% | 0 | 40 | -100.0% | 114,520 | 120,389 | -4.9% |
| ROUGH RICE | 0 | 18 | -100.0% | 14,866 | 11,175 | 33.03% | 31 | 26 | 19.2% | 176,153 | 162,055 | 8.7% |
| SOYBEAN | 5,919 | 12,375 | -52.2% | 3,288,819 | 2,992,068 | 9.92% | 51,808 | 138,128 | -62.5% | 36,121,823 | 42,913,019 | -15.8% |
| SOYBEAN MEAL | 749 | 2,654 | -71.8% | 2,010,566 | 2,260,500 | -11.06% | 7,860 | 33,991 | -76.9% | 20,294,285 | 23,794,669 | -14.7% |
| SOYBEAN OIL | 248 | 1,430 | -82.7% | 2,482,133 | 2,323,476 | 6.83% | 4,676 | 13,627 | -65.7% | 21,949,129 | 22,805,980 | -3.8% |
| S&P GSCI ENHANCED ER SWA | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| SUGAR 11 | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 10 | 58 | -82.8% |
| USD CRUDE PALM OIL | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| WHEAT | 0 | 0 | 0.0% | 301 | 0 | 0.00% | 0 | 0 | 0.0% | 7,212 | 22 | 32,681.8% |

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CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry SEP 2019 | Open Outcry SEP 2018 | % CHG | ELEC SEP 2019 | ELEC SEP 2018 | % CHG | Open Outcry Y.T.D 2019 | Open Outcry Y.T.D 2018 | % CHG | ELEC Y.T.D 2019 | ELEC Y.T.D 2018 | % CHG |
|----------------------------|----------------------------|----------------------------|---------|------------------|------------------|----------|------------------------------|------------------------------|---------|-----------------------|-----------------------|----------|
| Ag Products Options | | | | | | | | | | | | |
| AUG-NOV SOYBEAN CAL SPR | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| BUTTER CS | 270 | 1,410 | -80.9% | 1,408 | 5,166 | -72.74% | 4,464 | 10,314 | -56.7% | 24,903 | 27,032 | -7.9% |
| CASH-SETTLED CHEESE | 1,940 | 2,616 | -25.8% | 6,976 | 7,016 | -0.57% | 15,011 | 22,282 | -32.6% | 71,883 | 66,096 | 8.8% |
| CATTLE | 30,669 | 32,350 | -5.2% | 198,675 | 161,634 | 22.92% | 230,977 | 247,149 | -6.5% | 1,583,666 | 1,910,644 | -17.1% |
| CAT WEATHER EUROPEAN | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| CDD SEASONAL STRIP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| CDD WEATHER | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| CHI WHEAT | 46,719 | 148,616 | -68.6% | 297,292 | 552,264 | -46.17% | 857,872 | 1,708,077 | -49.8% | 5,071,505 | 5,883,033 | -13.8% |
| CLASS IV MILK | 123 | 57 | 115.8% | 2,345 | 1,048 | 123.76% | 3,532 | 749 | 371.6% | 30,866 | 9,551 | 223.2% |
| CORN | 232,619 | 330,647 | -29.6% | 1,613,047 | 1,386,591 | 16.33% | 4,057,818 | 5,342,405 | -24.0% | 22,320,260 | 15,755,955 | 41.7% |
| CORN NEARBY+2 CAL SPRD | 8,050 | 5,350 | 50.5% | 500 | 0 | 0.00% | 48,593 | 22,268 | 118.2% | 2,891 | 100 | 2,791.0% |
| DEC-DEC CORN CAL SPRD | 770 | 1,604 | -52.0% | 41 | 0 | 0.00% | 12,459 | 15,742 | -20.9% | 2,377 | 0 | 0.0% |
| DEC-JULY CORN CAL SPRD | 1,632 | 2,480 | -34.2% | 122 | 0 | 0.00% | 19,553 | 15,924 | 22.8% | 146 | 0 | 0.0% |
| DEC-JULY WHEAT CAL SPRD | 0 | 1,550 | -100.0% | 0 | 0 | 0.00% | 0 | 1,694 | -100.0% | 0 | 0 | 0.0% |
| DRY WHEY | 25 | 6 | 316.7% | 732 | 842 | -13.06% | 735 | 1,355 | -45.8% | 6,555 | 4,561 | 43.7% |
| FEEDER CATTLE | 1,945 | 965 | 101.6% | 19,922 | 23,438 | -15.00% | 19,021 | 17,778 | 7.0% | 262,121 | 249,866 | 4.9% |
| HDD EURO SEASONAL STRIP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HDD SEASONAL STRIP | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HDD WEATHER | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| HDD WEATHER EUROPEAN | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| HOGS | 29,038 | 21,158 | 37.2% | 305,608 | 231,808 | 31.84% | 282,790 | 241,844 | 16.9% | 3,048,279 | 1,870,688 | 62.9% |
| HOUSING INDEX | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 0 | 0.0% | 7 | 0 | 0.0% |
| Intercommodity Spread | 0 | 560 | -100.0% | 0 | 0 | 0.00% | 1,000 | 9,819 | -89.8% | 0 | 0 | 0.0% |
| JAN-MAY SOYBEAN CAL SPRD | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| JULY-DEC CORN CAL SPRD | 80 | 200 | -60.0% | 51 | 0 | 0.00% | 9,427 | 10,146 | -7.1% | 1,151 | 100 | 1,051.0% |
| JULY-DEC SOYMEAL CAL SPR | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 1,200 | -100.0% | 0 | 0 | 0.0% |
| JULY-DEC SOY OIL CAL SPRD | - | 0 | 0.0% | - | 0 | 0.00% | - | 0 | 0.0% | - | 0 | 0.0% |
| JULY-DEC WHEAT CAL SPRD | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 1,450 | 1,965 | -26.2% | 0 | 455 | -100.0% |
| JULY-NOV SOYBEAN CAL SPR | 0 | 3,770 | -100.0% | 0 | 15 | -100.00% | 5,931 | 53,243 | -88.9% | 290 | 2,598 | -88.8% |
| KC WHEAT | 14,077 | 33,470 | -57.9% | 54,451 | 39,921 | 36.40% | 205,041 | 317,627 | -35.4% | 637,745 | 524,642 | 21.6% |
| LUMBER | 0 | 5 | -100.0% | 998 | 1,384 | -27.89% | 70 | 216 | -67.6% | 15,853 | 15,381 | 3.1% |
| LV CATL CSO | 50 | 169 | -70.4% | 0 | 0 | 0.00% | 529 | 282 | 87.6% | 0 | 0 | 0.0% |
| MAR-JULY CORN CAL SPRD | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 40 | 0 | 0.0% | 0 | 0 | 0.0% |
| MAR-JULY WHEAT CAL SPRD | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 200 | -100.0% | 30 | 0 | 0.0% |

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CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry SEP 2019 | Open Outcry SEP 2018 | % CHG | ELEC SEP 2019 | ELEC SEP 2018 | % CHG | Open Outcry Y.T.D 2019 | Open Outcry Y.T.D 2018 | % CHG | ELEC Y.T.D 2019 | ELEC Y.T.D 2018 | % CHG |
|----------------------------|----------------------------|----------------------------|-------------|--------------------|--------------------|--------------|------------------------------|------------------------------|--------------|----------------------|-----------------------|-------------|
| Ag Products Options | | | | | | | | | | | | |
| MILK | 1,310 | 3,552 | -63.1% | 39,431 | 33,284 | 18.47% | 20,418 | 56,078 | -63.6% | 321,201 | 252,241 | 27.3% |
| MLK MID OPTIONS | 4 | 12 | -66.7% | 0 | 0 | 0.00% | 24 | 387 | -93.8% | 194 | 27 | 618.5% |
| NFD MILK | 271 | 236 | 14.8% | 2,313 | 4,408 | -47.53% | 1,819 | 7,804 | -76.7% | 49,375 | 37,043 | 33.3% |
| NOV-JULY SOYBEAN CAL SPR | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 1,050 | 1 | 104,900.0% | 2,500 | 0 | 0.0% |
| NOV-MAR SOYBEAN CSO | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 20 | 130 | -84.6% | 0 | 0 | 0.0% |
| NOV-NOV SOYBEAN CAL SPR | 10 | 0 | 0.0% | 0 | 0 | 0.00% | 144 | 118 | 22.0% | 1,750 | 0 | 0.0% |
| OATS | 65 | 126 | -48.4% | 99 | 524 | -81.11% | 2,274 | 1,056 | 115.3% | 1,920 | 2,987 | -35.7% |
| ROUGH RICE | 2,960 | 1,170 | 153.0% | 1,114 | 625 | 78.24% | 18,509 | 6,550 | 182.6% | 8,536 | 7,730 | 10.4% |
| SEP-DEC SOYBEAN MEAL CSC | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 0 | 1,170 | -100.0% | 0 | 0 | 0.0% |
| SOYBEAN | 85,808 | 161,848 | -47.0% | 740,060 | 917,790 | -19.36% | 1,238,353 | 2,780,857 | -55.5% | 9,038,517 | 12,460,660 | -27.5% |
| SOYBEAN CRUSH | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 4 | 185 | -97.8% | 0 | 0 | 0.0% |
| SOYBEAN MEAL | 26,460 | 58,893 | -55.1% | 107,729 | 138,213 | -22.06% | 288,001 | 947,087 | -69.6% | 1,140,215 | 1,783,723 | -36.1% |
| SOYBEAN OIL | 17,903 | 43,625 | -59.0% | 114,037 | 86,829 | 31.34% | 170,191 | 322,100 | -47.2% | 859,747 | 709,458 | 21.2% |
| SOYBN NEARBY+2 CAL SPRD | 0 | 0 | 0.0% | 0 | 0 | 0.00% | 3,500 | 10 | 34,900.0% | 2,000 | 0 | 0.0% |
| SOYMEAL NEARBY+2 CAL SPR | 0 | 2,540 | -100.0% | 0 | 0 | 0.00% | 490 | 5,190 | -90.6% | 0 | 0 | 0.0% |
| WHEAT | 2,784 | 270 | 931.1% | 2,411 | 7 | 34,342.86% | 7,700 | 2,910 | 164.6% | 6,577 | 310 | 2,021.6% |
| WHEAT-CORN ICSCO | 0 | 15 | -100.0% | 0 | 0 | 0.00% | 2,680 | 5,135 | -47.8% | 0 | 0 | 0.0% |
| WHEAT NEARBY+2 CAL SPRD | 50 | 160 | -68.8% | 33 | 140 | -76.43% | 2,390 | 8,192 | -70.8% | 233 | 4,471 | -94.8% |
| TOTAL FUTURES GROUP | | | | | | | | | | | | |
| Interest Rate Futures | 951,797 | 844,837 | 12.7% | 137,119,556 | 116,333,483 | 17.9% | 9,004,008 | 8,962,747 | 0.5% | 1,437,958,970 | 1,318,438,252 | 9.1% |
| Equity Index Futures | 49,102 | 79,508 | -38.2% | 65,144,855 | 51,264,044 | 27.1% | 215,766 | 394,040 | -45.2% | 535,995,305 | 460,822,011 | 16.3% |
| Metals Futures | 0 | 0 | 0.0% | 14,003,663 | 10,096,697 | 38.7% | 0 | 0 | 0.0% | 108,057,015 | 111,659,717 | -3.2% |
| Energy Futures | 0 | 0 | 0.0% | 46,736,410 | 39,291,111 | 18.9% | 0 | 0 | 0.0% | 387,488,412 | 394,489,280 | -1.8% |
| FX Futures | 6 | 9 | -33.3% | 19,932,101 | 19,851,504 | 0.4% | 68 | 693 | -90.2% | 152,079,273 | 176,404,223 | -13.8% |
| Ags Futures | 0 | 0 | 0.0% | 0 | 0 | 0.0% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| Foreign Exchange Futures | 0 | 0 | 0.0% | 0 | 493 | -100.0% | 0 | 0 | 0.0% | 0 | 11,841 | -100.0% |
| Ag Products Futures | 17,288 | 48,346 | -64.2% | 18,769,731 | 18,941,146 | -0.9% | 377,769 | 664,380 | -43.1% | 226,248,373 | 232,694,297 | -2.8% |
| TOTAL FUTURES | 1,018,193 | 972,700 | 4.7% | 301,706,316 | 255,778,478 | 18.0% | 9,597,611 | 10,021,860 | -4.2% | 2,847,827,348 | 2,694,519,621 | 5.7% |

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

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CME Group Exchange Volume Comparison Report - Monthly

| | Open Outcry SEP 2019 | Open Outcry SEP 2018 | % CHG | ELEC SEP 2019 | ELEC SEP 2018 | % CHG | Open Outcry Y.T.D 2019 | Open Outcry Y.T.D 2018 | % CHG | ELEC Y.T.D 2019 | ELEC Y.T.D 2018 | % CHG |
|----------------------------|----------------------------|----------------------------|--------------|--------------------|--------------------|--------------|------------------------------|------------------------------|--------------|----------------------|-----------------------|-------------|
| TOTAL OPTIONS GROUP | | | | | | | | | | | | |
| Equity Index Options | 668,795 | 720,338 | -7.2% | 12,900,601 | 11,064,134 | 16.6% | 6,116,318 | 9,037,801 | -32.3% | 115,791,410 | 137,597,071 | -15.8% |
| Interest Rate Options | 21,219,461 | 17,353,599 | 22.3% | 30,419,099 | 22,081,887 | 37.8% | 224,966,847 | 190,970,609 | 17.8% | 285,342,092 | 225,499,309 | 26.5% |
| Metals Options | 0 | 0 | 0.0% | 1,660,757 | 733,994 | 126.3% | 0 | 0 | 0.0% | 12,435,359 | 8,549,943 | 45.4% |
| Energy Options | 0 | 0 | 0.0% | 4,152,684 | 4,287,065 | -3.1% | 0 | 0 | 0.0% | 31,113,365 | 38,236,641 | -18.6% |
| FX Options | 372 | 3,737 | -90.0% | 1,044,997 | 1,326,556 | -21.2% | 11,894 | 26,006 | -54.3% | 9,933,375 | 13,957,854 | -28.8% |
| Ag Products Options | 505,632 | 859,430 | -41.2% | 3,509,395 | 3,592,947 | -2.3% | 7,533,880 | 12,187,239 | -38.2% | 44,513,293 | 41,579,352 | 7.1% |
| Foreign Exchange Options | 0 | 0 | 0.0% | 560 | 1,252 | -55.3% | 0 | 0 | 0.0% | 7,063 | 7,928 | -10.9% |
| TOTAL OPTIONS | 22,394,260 | 18,937,104 | 18.3% | 53,688,093 | 43,087,835 | 24.6% | 238,628,939 | 212,221,655 | 12.4% | 499,135,957 | 465,428,098 | 7.2% |
| TOTAL COMBINED | | | | | | | | | | | | |
| Interest Rate | 22,171,258 | 18,198,436 | 21.8% | 167,538,655 | 138,415,370 | 21.0% | 233,970,855 | 199,933,356 | 17.0% | 1,723,301,062 | 1,543,937,561 | 11.6% |
| Equity Index | 717,897 | 799,846 | -10.2% | 78,045,456 | 62,328,178 | 25.2% | 6,332,084 | 9,431,841 | -32.9% | 651,786,715 | 598,419,082 | 8.9% |
| Metals | 0 | 0 | 0.0% | 15,664,420 | 10,830,691 | 44.6% | 0 | 0 | 0.0% | 120,492,374 | 120,209,660 | 0.2% |
| Energy | 0 | 0 | 0.0% | 50,889,094 | 43,578,176 | 16.8% | 0 | 0 | 0.0% | 418,601,777 | 432,725,921 | -3.3% |
| FX | 378 | 3,746 | -89.9% | 20,977,098 | 21,178,060 | -0.9% | 11,962 | 26,699 | -55.2% | 162,012,648 | 190,362,077 | -14.9% |
| Ags | 0 | 0 | 0.0% | 0 | 0 | 0.0% | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| Foreign Exchange | 0 | 0 | 0.0% | 560 | 1,745 | -67.9% | 0 | 0 | 0.0% | 7,063 | 19,769 | -64.3% |
| Ag Products | 522,920 | 907,776 | -42.4% | 22,279,126 | 22,534,093 | -1.1% | 7,911,649 | 12,851,619 | -38.4% | 270,761,666 | 274,273,649 | -1.3% |
| GRAND TOTAL | 23,412,453 | 19,909,804 | 17.6% | 355,394,409 | 298,866,313 | 18.9% | 248,226,550 | 222,243,515 | 11.7% | 3,346,963,305 | 3,159,947,719 | 5.9% |

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