



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Interest Rate Futures</b>												
10-YR NOTE	129,167	95,053	35.9%	26,414,916	26,423,608	-0.03%	452,157	488,760	-7.5%	129,546,438	140,585,750	-7.9%
10-YR SWAP RATE	0	0	0.0%	25,837	22,358	15.56%	0	0	0.0%	149,262	188,517	-20.8%
15-YR SWAP RATE	0	-	-	0	-	-	0	-	-	0	-	-
1-MONTH EURODOLLAR	0	0	0.0%	5	1,282	-99.61%	0	0	0.0%	120	14,111	-99.1%
20-YR SWAP RATE	0	-	-	0	-	-	0	-	-	46	-	-
2-YR NOTE	1,402	1,801	-22.2%	8,375,179	6,799,330	23.18%	8,926	11,408	-21.8%	45,040,758	41,206,968	9.3%
2-YR SWAP RATE	0	-	-	29,937	-	-	0	-	-	139,755	-	-
30-YR BOND	16,403	25,756	-36.3%	4,640,832	5,379,947	-13.74%	71,431	79,687	-10.4%	25,656,260	28,522,598	-10.0%
30-YR SWAP RATE	0	0	0.0%	1,010	76	1,228.95%	0	0	0.0%	2,780	901	208.5%
3-YR SWAP RATE	0	-	-	7,438	-	-	0	-	-	37,429	-	-
4-YR SWAP RATE	0	-	-	19,220	-	-	0	-	-	31,860	-	-
5-YR NOTE	45,486	24,532	85.4%	14,930,576	15,223,071	-1.92%	132,246	122,425	8.0%	82,720,528	85,842,897	-3.6%
5-YR SWAP RATE	0	0	0.0%	43,209	13,498	220.11%	0	0	0.0%	222,634	114,167	95.0%
7-YR SWAP RATE	0	-	-	1,493	-	-	0	-	-	14,384	-	-
EURODOLLARS	750,294	912,451	-17.8%	48,659,782	51,962,886	-6.36%	2,876,834	3,965,940	-27.5%	220,781,619	292,318,784	-24.5%
FED FUND	0	0	0.0%	5,869,186	4,562,836	28.63%	0	0	0.0%	22,476,856	21,680,705	3.7%
SOFR	0	-	-	466,355	-	-	0	-	-	2,188,369	-	-
SONIA	0	-	-	190,171	-	-	0	-	-	651,037	-	-
Ultra 10-Year Note	0	0	0.0%	3,135,066	2,476,339	26.60%	0	0	0.0%	14,896,736	14,415,687	3.3%
ULTRA T-BOND	0	0	0.0%	2,304,265	2,168,412	6.27%	66	230	-71.3%	12,917,148	12,989,644	-0.6%
<b>Interest Rate Options</b>												
10-YR NOTE	2,145,933	1,724,189	24.5%	9,037,748	7,918,667	14.13%	8,597,900	8,736,802	-1.6%	40,477,560	43,203,381	-6.3%
2-YR NOTE	92,956	73,471	26.5%	384,988	484,194	-20.49%	522,891	586,991	-10.9%	1,277,636	1,297,004	-1.5%
30-YR BOND	266,444	356,780	-25.3%	2,079,038	1,999,070	4.00%	1,203,297	1,285,514	-6.4%	9,112,958	9,771,339	-6.7%
5-YR NOTE	885,429	445,061	98.9%	3,529,997	1,924,882	83.39%	3,232,158	2,590,664	24.8%	13,095,803	11,105,696	17.9%
EURODOLLARS	11,312,233	9,070,866	24.7%	5,088,994	3,757,117	35.45%	49,124,252	44,954,230	9.3%	24,139,268	21,468,567	12.4%
EURO MIDCURVE	6,185,708	7,480,525	-17.3%	5,835,982	4,430,530	31.72%	29,309,621	43,873,730	-33.2%	22,536,020	25,181,115	-10.5%
FED FUND	0	0	0.0%	0	150	-100.00%	250	1,750	-85.7%	202	7,967	-97.5%
Ultra 10-Year Note	1,720	0	0.0%	0	0	0.00%	5,957	0	0.0%	5,328	28	18,928.6%
ULTRA T-BOND	3,344	8,159	-59.0%	1,180	2,779	-57.54%	40,567	15,321	164.8%	7,530	9,117	-17.4%

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<b>Equity Index Futures</b>												
BITCOIN FUTURES	0	0	0.0%	208,056	78,590	164.74%	0	0	0.0%	474,570	191,607	147.7%
DJ US REAL ESTATE	0	0	0.0%	17,412	14,061	23.83%	0	0	0.0%	100,167	83,052	20.6%
E-mini (\$5) Dow	0	0	0.0%	3,349,426	5,468,405	-38.75%	0	0	0.0%	16,815,526	22,563,788	-25.5%
E-mini FTSE 100 (USD)	0	0	0.0%	0	1,334	-100.00%	0	0	0.0%	336	7,586	-95.6%
E-mini FTSE China 50	0	0	0.0%	3	1,169	-99.74%	0	0	0.0%	696	5,658	-87.7%
E-MINI MIDCAP	0	0	0.0%	225,935	327,328	-30.98%	0	0	0.0%	1,306,591	1,588,509	-17.7%
E-MINI NASDAQ 100	0	0	0.0%	8,123,569	9,989,301	-18.68%	0	0	0.0%	37,355,762	39,081,877	-4.4%
E-MINI RUSSELL 1000	0	0	0.0%	2,708	7,354	-63.18%	0	0	0.0%	11,614	36,414	-68.1%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	2,147	10,128	-78.80%	0	0	0.0%	9,552	32,380	-70.5%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	6,727	6,648	1.19%	0	0	0.0%	30,615	33,640	-9.0%
E-MINI RUSSELL 2000	0	0	0.0%	2,216,499	2,188,717	1.27%	0	0	0.0%	11,054,433	11,052,980	0.0%
E-MINI S&P500	0	0	0.0%	23,758,746	35,303,475	-32.70%	0	0	0.0%	121,348,240	153,521,291	-21.0%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	3,739	4,154	-9.99%	0	0	0.0%	24,845	15,235	63.1%
FT-SE 100	0	0	0.0%	0	1,558	-100.00%	0	0	0.0%	372	6,346	-94.1%
FTSE Emerging	0	0	0.0%	2,477	25	9,808.00%	0	0	0.0%	9,273	512	1,711.1%
IBOVESPA INDEX	0	0	0.0%	647	1,569	-58.76%	0	0	0.0%	2,940	4,969	-40.8%
NASDAQ BIOTECH	0	0	0.0%	413	0	0.00%	0	0	0.0%	739	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%	148,828	242,944	-38.74%	0	0	0.0%	814,054	1,661,224	-51.0%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	558,649	757,063	-26.21%	228	0	0.0%	2,725,459	4,235,900	-35.7%
S&P 500	4,139	20,436	-79.7%	803	4,186	-80.82%	83,187	173,234	-52.0%	5,507	26,177	-79.0%
S&P 500/GI	0	0	0.0%	0	0	0.00%	0	0	0.0%	20	26	-23.1%
S&P 500/VALUE	0	0	0.0%	5,725	4,822	18.73%	0	0	0.0%	35,421	14,541	143.6%
S&P 600 SMALLCAP EMINI	0	-	-	0	-	-	0	-	-	0	-	-
S&P CONSUMER DSCRTNRY S	0	0	0.0%	2,985	18,181	-83.58%	0	0	0.0%	30,059	57,457	-47.7%
S&P CONSUMER STAPLES SE	0	0	0.0%	4,322	7,377	-41.41%	0	0	0.0%	41,714	50,020	-16.6%
S&P ENERGY SECTOR	0	0	0.0%	6,027	16,453	-63.37%	0	0	0.0%	52,378	69,982	-25.2%
S&P FINANCIAL SECTOR	0	0	0.0%	18,580	29,026	-35.99%	0	0	0.0%	62,266	111,629	-44.2%
S&P HEALTH CARE SECTOR	0	0	0.0%	8,229	10,315	-20.22%	0	0	0.0%	45,600	49,430	-7.7%
S&P INDUSTRIAL SECTOR	0	0	0.0%	5,943	14,762	-59.74%	0	0	0.0%	34,615	47,059	-26.4%
S&P MATERIALS SECTOR	0	0	0.0%	5,358	6,526	-17.90%	0	0	0.0%	26,252	30,369	-13.6%
S&P TECHNOLOGY SECTOR	0	0	0.0%	4,464	19,182	-76.73%	0	0	0.0%	44,893	72,985	-38.5%
S&P UTILITIES SECTOR	0	0	0.0%	11,408	17,540	-34.96%	0	0	0.0%	71,826	81,724	-12.1%
YEN DENOMINATED TOPIX	0	0	0.0%	18,792	52	36,038.46%	0	0	0.0%	51,138	1,057	4,738.0%

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<b>Equity Index Options</b>												
E-mini (\$5) Dow	0	0	0.0%	2,616	8,518	-69.29%	0	0	0.0%	19,884	47,957	-58.5%
E-MINI NASDAQ 100	0	0	0.0%	169,910	257,136	-33.92%	0	0	0.0%	783,833	1,126,043	-30.4%
E-MINI RUSSELL 2000	0	0	0.0%	9,423	5,124	83.90%	0	0	0.0%	41,497	63,843	-35.0%
E-MINI S&P500	345	0	0.0%	3,309,993	4,864,439	-31.96%	345	4,955	-93.0%	16,787,397	27,548,237	-39.1%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	6,334	1,984	219.25%	0	0	0.0%	26,672	28,330	-5.9%
EOM EMINI S&P	0	0	0.0%	1,223,694	1,892,120	-35.33%	0	0	0.0%	6,500,235	12,431,531	-47.7%
EOM S&P 500	122,495	86,640	41.4%	0	0	0.00%	501,508	995,729	-49.6%	0	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	2,162	2,425	-10.85%	0	0	0.0%	5,364	10,963	-51.1%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	2,121	3,008	-29.49%	0	0	0.0%	5,299	14,146	-62.5%
EOW1 EMINI S&P 500	0	0	0.0%	813,690	1,274,677	-36.17%	0	0	0.0%	3,128,137	4,961,401	-37.0%
EOW1 S&P 500	69,791	74,428	-6.2%	0	0	0.00%	260,423	275,837	-5.6%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	3,254	4,609	-29.40%	0	0	0.0%	10,236	23,229	-55.9%
EOW2 EMINI S&P 500	0	0	0.0%	612,623	1,697,501	-63.91%	0	0	0.0%	3,402,799	6,550,508	-48.1%
EOW2 S&P 500	101,893	137,389	-25.8%	0	0	0.00%	534,412	643,147	-16.9%	0	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	15,097	22,614	-33.24%	0	0	0.0%	38,421	110,891	-65.4%
EOW3 EMINI S&P 500	0	0	0.0%	2,112,467	4,642,092	-54.49%	0	0	0.0%	9,269,324	19,060,691	-51.4%
EOW3 S&P 500	134,104	337,128	-60.2%	0	0	0.00%	566,796	1,708,464	-66.8%	0	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	3,317	3,856	-13.98%	0	0	0.0%	11,962	33,182	-64.0%
EOW4 EMINI S&P 500	0	0	0.0%	672,575	1,228,546	-45.25%	0	0	0.0%	3,692,579	5,887,041	-37.3%
S&P 500	171,915	194,223	-11.5%	0	0	0.00%	926,721	1,389,125	-33.3%	0	0	0.0%

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<b>Metals Futures</b>												
ALUMINUM	0	0	0.0%	211	1,107	-80.94%	0	0	0.0%	3,080	3,234	-4.8%
COMEX COPPER	0	0	0.0%	2,225,217	3,055,902	-27.18%	0	0	0.0%	8,359,823	11,250,981	-25.7%
COMEX E-Mini GOLD	0	0	0.0%	9,214	6,988	31.85%	0	0	0.0%	28,746	28,545	0.7%
COMEX E-Mini SILVER	0	0	0.0%	3,970	1,201	230.56%	0	0	0.0%	10,680	4,959	115.4%
COMEX GOLD	0	0	0.0%	4,935,669	6,403,880	-22.93%	0	0	0.0%	21,338,871	28,865,817	-26.1%
COMEX MINY COPPER	0	0	0.0%	779	531	46.70%	0	0	0.0%	2,452	2,399	2.2%
COMEX SILVER	0	0	0.0%	1,875,954	2,519,813	-25.55%	0	0	0.0%	6,465,253	8,552,886	-24.4%
COPPER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
E-MICRO GOLD	0	0	0.0%	184,890	133,405	38.59%	0	0	0.0%	803,591	519,152	54.8%
FERROUS PRODUCTS	0	0	0.0%	764	4	19,000.00%	0	0	0.0%	2,301	46	4,902.2%
GOLD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Gold Kilo	0	0	0.0%	0	60	-100.00%	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	10	-100.00%	0	0	0.0%	28	26	7.7%
LNDN ZINC	0	0	0.0%	117	7	1,571.43%	0	0	0.0%	1,086	40	2,615.0%
NYMEX HOT ROLLED STEEL	0	0	0.0%	3,231	2,748	17.58%	0	0	0.0%	13,213	12,025	9.9%
NYMEX PLATINUM	0	0	0.0%	385,497	412,608	-6.57%	0	0	0.0%	1,712,440	1,734,008	-1.2%
PALLADIUM	0	0	0.0%	94,243	139,059	-32.23%	0	0	0.0%	450,924	487,400	-7.5%
SILVER	0	0	0.0%	15,831	9,335	69.59%	0	0	0.0%	62,601	29,268	113.9%
URANIUM	0	0	0.0%	0	27	-100.00%	0	0	0.0%	307	79	288.6%

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<b>Metals Options</b>												
COMEX COPPER	0	0	0.0%	45,239	14,079	221.32%	0	0	0.0%	163,933	59,123	177.3%
COMEX GOLD	0	0	0.0%	687,264	754,169	-8.87%	0	0	0.0%	2,910,652	3,043,068	-4.4%
COMEX SILVER	0	0	0.0%	93,522	152,003	-38.47%	0	0	0.0%	412,350	512,645	-19.6%
COPPER	0	-	-	99	-	-	0	-	-	216	-	-
GOLD	0	0	0.0%	84,179	34,325	145.24%	0	0	0.0%	292,757	132,244	121.4%
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%	1,184	741	59.78%	0	0	0.0%	5,039	5,798	-13.1%
PALLADIUM	0	0	0.0%	528	2,273	-76.77%	0	0	0.0%	2,495	7,630	-67.3%
SILVER	0	0	0.0%	4,210	603	598.18%	0	0	0.0%	13,776	2,227	518.6%
<b>Energy Futures</b>												
3.5% FUEL OIL CID MED SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
3.5% FUEL OIL CIF BALMO S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB MTHLY	0	0	0.0%	0	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%	2,325,283	1,926,080	20.73%	0	0	0.0%	7,248,937	6,689,842	8.4%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Energy Futures</b>												
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%	1	246	-99.59%	0	0	0.0%	465	1,006	-53.8%
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%	90	0	0.00%	0	0	0.0%	90	6	1,400.0%
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%	27,106,956	27,549,926	-1.61%	0	0	0.0%	98,254,332	106,326,542	-7.6%
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

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Energy Futures</b>												
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%	3,888	1,015	283.05%	0	0	0.0%	31,216	3,410	815.4%
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	-	-
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%	8,269	9,238	-10.49%	0	0	0.0%	39,721	37,636	5.5%
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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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Energy Futures</b>												
EUROPEAN GASOIL (ICE)	0	0	0.0%	0	728	-100.00%	0	0	0.0%	428	1,662	-74.2%
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%	2,502	204	1,126.47%	0	0	0.0%	8,439	2,076	306.5%
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	-	-
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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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Energy Futures</b>												
GULF COAST JET FUEL CLNDR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST JET VS NYM 2 H	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST NO.6 FUEL OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST ULSD CALEND	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST ULSD CRACK SP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL BALMO CLNDR S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL PHY	0	0	0.0%	2,798,789	3,888,124	-28.02%	0	0	0.0%	11,941,912	15,347,066	-22.2%
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	1,248	-100.00%	0	0	0.0%	0	5,911	-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	122	-100.00%	0	0	0.0%	122	13,914	-99.1%
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	0.00%	-	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%
LA CARBOB GASOLINE(OPIS)S	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 APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Energy Futures</b>												
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	-	-
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%	133,063	156,924	-15.21%	0	0	0.0%	657,178	932,269	-29.5%
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	0	0.0%
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%	391	111	252.25%	0	0	0.0%	1,205	369	226.6%
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%	4	3	33.33%	0	0	0.0%	14	13	7.7%
MINY NATURAL GAS	0	0	0.0%	20,761	17,849	16.31%	0	0	0.0%	106,089	132,954	-20.2%
MINY RBOB GAS	0	0	0.0%	3	3	0.00%	0	0	0.0%	24	12	100.0%
MINY WTI CRUDE OIL	0	0	0.0%	299,535	353,922	-15.37%	0	0	0.0%	1,555,151	1,187,255	31.0%
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%	4	4	0.00%	0	0	0.0%	35	30	16.7%
MONT BELVIEU LDH PROPANE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NAT GAS BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS	0	0	0.0%	43,791	45,335	-3.41%	0	0	0.0%	168,860	266,702	-36.7%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Energy Futures</b>												
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%	6,711,655	8,153,778	-17.69%	0	0	0.0%	28,457,922	37,069,408	-23.2%
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%	0	25	-100.00%	0	0	0.0%	0	40	-100.0%
NY HARBOR LOW SULPUR GA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR RESIDUAL FUEL 1	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Energy Futures</b>												
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%
PJM AD HUB 5MW REAL TIME	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 APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Energy Futures</b>												
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 UNL 10P FOB MED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREMIUM UNLEAD 10PPM FOB	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREM UNL GAS 10PPM RDAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREM UNL GAS 10PPM RDAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PROPANE NON-LDH MB (OPIS)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Energy Futures</b>												
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	0.00%	-	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%	4,884,590	3,861,657	26.49%	0	0	0.0%	16,782,416	15,274,854	9.9%
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	1	-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	1	-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%
TC2 ROTTERDAM TO USAC 37	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 APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Energy Futures</b>												
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%	355	5,215	-93.19%	0	0	0.0%	3,129	14,930	-79.0%
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	0	0.0%
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

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Energy Options</b>												
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	1,800	-100.00%	0	0	0.0%	0	1,800	-100.0%
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%	63,187	49,268	28.25%	0	0	0.0%	249,841	156,948	59.2%
COAL API2 INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COAL API4 INDEX	0	0	0.0%	0	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%	8,107	25,725	-68.49%	0	0	0.0%	20,361	70,610	-71.2%
CRUDE OIL APO	0	0	0.0%	0	120	-100.00%	0	0	0.0%	3	166	-98.2%
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%	2,370,115	3,148,040	-24.71%	0	0	0.0%	8,016,201	12,436,519	-35.5%
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%
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%	4,147	6,185	-32.95%	0	0	0.0%	16,058	27,473	-41.5%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	5	-100.0%
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%	0	0	0.00%	0	0	0.0%	2,870	1	286,900.0%
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%
NATURAL GAS 5 M CSO FIN	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 APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Energy Options</b>												
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%	657,651	801,297	-17.93%	0	0	0.0%	3,514,542	5,724,877	-38.6%
NATURAL GAS WINTER STRIP	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%	56	98	-42.86%	0	0	0.0%	144	157	-8.3%
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%	0	5	-100.0%
PETRO OUTRIGHT EURO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT NA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WES HUB PEAK CAL MTH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WES HUB PEAK LMP 50M	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB 1MO CAL SPD OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CRACK	0	-	-	0	-		0	-	-	0	-	-
RBOB PHY	0	0	0.0%	6,118	2,905	110.60%	0	0	0.0%	14,045	19,329	-27.3%
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%	26	0	0.00%	0	0	0.0%	26	300	-91.3%
SHORT TERM NATURAL GAS	0	0	0.0%	25	33	-24.24%	0	0	0.0%	75	354	-78.8%
SINGAPORE GASOIL CALEND	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%	2,425	18,100	-86.60%	0	0	0.0%	21,655	128,821	-83.2%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	4,000	750	433.33%	0	0	0.0%	8,100	10,950	-26.0%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	19	4	375.00%	0	0	0.0%	71	22	222.7%
AD/JY CROSS RATES	0	0	0.0%	2,855	2,477	15.26%	0	0	0.0%	10,000	15,726	-36.4%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>FX Futures</b>												
AD/NE CROSS RATES	0	0	0.0%	109	62	75.81%	0	0	0.0%	241	335	-28.1%
AUSTRALIAN DOLLAR	0	0	0.0%	1,962,179	1,924,572	1.95%	0	0	0.0%	8,425,675	9,545,866	-11.7%
BDI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BP/JY CROSS RATES	0	0	0.0%	1,983	2,811	-29.46%	0	0	0.0%	8,115	14,521	-44.1%
BP/SF CROSS RATES	0	0	0.0%	283	275	2.91%	0	0	0.0%	1,436	1,167	23.1%
BRAZIL REAL	0	0	0.0%	102,420	103,598	-1.14%	0	0	0.0%	402,343	361,358	11.3%
BRITISH POUND	0	3	-100.0%	1,899,153	2,244,468	-15.39%	0	7	-100.0%	9,765,654	10,906,803	-10.5%
CANADIAN DOLLAR	0	1	-100.0%	1,537,062	1,527,425	0.63%	3	33	-90.9%	6,162,085	6,934,957	-11.1%
CD/JY CROSS RATES	0	0	0.0%	47	218	-78.44%	0	0	0.0%	65	320	-79.7%
CHINESE RENMINBI (CNH)	0	0	0.0%	16,689	1,781	837.06%	0	0	0.0%	95,078	9,505	900.3%
CZECK KORUNA (EC)	0	-	-	0	-	-	0	-	-	10	-	-
CZECK KORUNA (US)	0	-	-	0	-	-	0	-	-	0	-	-
EC/AD CROSS RATES	0	0	0.0%	1,314	662	98.49%	0	0	0.0%	14,749	5,553	165.6%
EC/CD CROSS RATES	0	0	0.0%	1,486	1,947	-23.68%	0	0	0.0%	10,207	14,917	-31.6%
EC/NOK CROSS RATES	0	0	0.0%	382	302	26.49%	0	0	0.0%	1,672	1,227	36.3%
EC/SEK CROSS RATES	0	0	0.0%	175	140	25.00%	0	0	0.0%	1,983	3,048	-34.9%
EFX/BP CROSS RATES	0	0	0.0%	54,722	56,167	-2.57%	0	0	0.0%	348,568	305,144	14.2%
EFX/JY CROSS RATES	0	0	0.0%	30,328	45,633	-33.54%	0	0	0.0%	239,595	300,640	-20.3%
EFX/SF CROSS RATES	0	0	0.0%	28,924	14,611	97.96%	0	0	0.0%	113,212	103,943	8.9%
E-MICRO AUD/USD	0	0	0.0%	122,906	84,891	44.78%	0	0	0.0%	501,827	399,501	25.6%
E-MICRO CAD/USD	0	0	0.0%	15,081	13,835	9.01%	0	0	0.0%	62,401	75,105	-16.9%
E-MICRO CHF/USD	0	0	0.0%	1,099	1,026	7.12%	0	0	0.0%	7,182	5,178	38.7%
E-MICRO EUR/USD	0	0	0.0%	263,239	356,765	-26.22%	0	0	0.0%	1,027,709	1,565,214	-34.3%
E-MICRO GBP/USD	0	0	0.0%	37,017	45,062	-17.85%	0	0	0.0%	194,508	234,221	-17.0%
E-MICRO INR/USD	0	0	0.0%	4,614	3,317	39.10%	0	0	0.0%	20,359	12,967	57.0%
E-MICRO JPY/USD	0	0	0.0%	19,499	33,026	-40.96%	0	0	0.0%	108,145	139,772	-22.6%
E-MINI EURO FX	0	0	0.0%	87,097	63,198	37.82%	0	0	0.0%	367,365	395,854	-7.2%
E-MINI JAPANESE YEN	0	0	0.0%	7,329	10,054	-27.10%	0	0	0.0%	44,615	51,195	-12.9%
EURO FX	20	9	122.2%	3,902,460	4,391,968	-11.15%	31	437	-92.9%	16,779,866	21,691,316	-22.6%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HUNGARIAN FORINT (US)	0	-	-	2	-	-	0	-	-	6	-	-
INDIAN RUPEE	0	0	0.0%	58,338	69,277	-15.79%	0	0	0.0%	301,903	350,314	-13.8%
JAPANESE YEN	0	7	-100.0%	2,121,714	2,594,103	-18.21%	0	17	-100.0%	9,680,055	12,988,936	-25.5%
KOREAN WON	0	0	0.0%	125	149	-16.11%	0	0	0.0%	816	1,187	-31.3%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>FX Futures</b>												
MEXICAN PESO	0	0	0.0%	988,730	1,194,946	-17.26%	0	0	0.0%	5,044,460	5,198,019	-3.0%
NEW ZEALND DOLLAR	0	0	0.0%	525,616	583,105	-9.86%	0	0	0.0%	2,304,120	2,621,373	-12.1%
NKR/USD CROSS RATE	0	0	0.0%	3,298	3,455	-4.54%	0	0	0.0%	12,873	13,658	-5.7%
POLISH ZLOTY (EC)	0	0	0.0%	159	4	3,875.00%	0	0	0.0%	382	48	695.8%
POLISH ZLOTY (US)	0	0	0.0%	71	68	4.41%	0	0	0.0%	394	438	-10.0%
RMB USD	0	0	0.0%	1	0	0.00%	0	0	0.0%	2	15	-86.7%
RUSSIAN RUBLE	0	0	0.0%	31,849	85,099	-62.57%	0	0	0.0%	216,494	240,846	-10.1%
S.AFRICAN RAND	0	0	0.0%	20,038	34,752	-42.34%	0	0	0.0%	145,844	160,345	-9.0%
SF/JY CROSS RATES	0	0	0.0%	0	0	0.00%	0	0	0.0%	7	0	0.0%
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%	1,979	3,355	-41.01%	0	0	0.0%	10,065	12,317	-18.3%
SWISS FRANCO	0	0	0.0%	513,255	479,569	7.02%	0	0	0.0%	1,999,130	2,332,420	-14.3%
TURKISH LIRA	0	0	0.0%	0	0	0.00%	0	0	0.0%	8	0	0.0%
USDZAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	20	5	300.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>FX Options</b>												
AUD/USD PQO 2pm Fix	0	0	0.0%	104,347	121,428	-14.07%	0	0	0.0%	394,949	514,724	-23.3%
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	117	-100.0%
CAD/USD PQO 2pm Fix	90	17	429.4%	114,730	163,140	-29.67%	331	1,609	-79.4%	422,539	674,782	-37.4%
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 PQO 2pm Fix	0	0	0.0%	2,692	3,446	-21.88%	0	0	0.0%	9,969	8,405	18.6%
EFX/BP CROSS RATES	0	-	-	0	-	-	0	-	-	74	-	-
EFX/JY CROSS RATES	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	0	0.00%	0	0	0.0%	0	21	-100.0%
EUR/USD PQO 2pm Fix	1,975	243	712.8%	570,912	582,666	-2.02%	5,848	4,249	37.6%	2,132,714	3,216,434	-33.7%
GBP/USD PQO 2pm Fix	520	18	2,788.9%	169,234	208,991	-19.02%	683	455	50.1%	772,668	992,784	-22.2%
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 PQO 2pm Fix	10	240	-95.8%	232,210	257,818	-9.93%	35	3,153	-98.9%	779,826	1,107,618	-29.6%
MEXICAN PESO	0	580	-100.0%	1,019	4,653	-78.10%	900	1,480	-39.2%	5,226	7,026	-25.6%
NEW ZEALND DOLLAR	0	-	-	187	-	-	0	-	-	2,333	-	-
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%
<b>Ags Futures</b>												
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	0	0.0%	0	747	-100.00%	0	0	0.0%	0	7,659	-100.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Foreign Exchange Options</b>												
AUD/USD PQO 2pm Fix	0	0	0.0%	1,216	560	117.14%	0	0	0.0%	4,024	2,066	94.8%
<b>Ag Products Futures</b>												
BUTTER CS	0	0	0.0%	3,772	3,296	14.44%	0	0	0.0%	15,012	18,563	-19.1%
CASH-SETTLED CHEESE	0	0	0.0%	9,743	8,001	21.77%	0	0	0.0%	48,707	36,754	32.5%
CATTLE	2,303	1,199	92.1%	1,434,653	1,292,477	11.00%	6,501	5,819	11.7%	6,003,094	5,477,108	9.6%
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%	0	0	0.0%
CHI WHEAT	3,522	11,152	-68.4%	3,032,141	3,423,022	-11.42%	31,726	53,856	-41.1%	10,892,390	12,789,075	-14.8%
CLASS IV MILK	12	0	0.0%	3,537	550	543.09%	105	0	0.0%	10,778	2,440	341.7%
COCOA TAS	0	0	0.0%	0	5	-100.00%	0	0	0.0%	0	5	-100.0%
COFFEE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CORN	19,418	38,776	-49.9%	9,995,329	9,845,934	1.52%	80,636	104,745	-23.0%	33,371,157	34,965,914	-4.6%
COTTON	0	0	0.0%	0	0	0.00%	0	0	0.0%	3	2	50.0%
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%	19,244	32,792	-41.31%	0	0	0.0%	156,435	299,586	-47.8%
DRY WHEY	0	0	0.0%	1,248	910	37.14%	0	0	0.0%	5,671	4,750	19.4%
FEEDER CATTLE	0	5	-100.0%	365,969	339,737	7.72%	9	12	-25.0%	1,260,098	1,222,139	3.1%
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	27,466	30,782	-10.77%	0	0	0.0%	117,431	124,730	-5.9%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	296	-100.0%
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	2,518	1,555	61.9%	1,347,724	960,469	40.32%	7,739	6,399	20.9%	5,149,123	4,028,841	27.8%
HOUSING INDEX	0	0	0.0%	19	9	111.11%	0	0	0.0%	66	30	120.0%
Intercommodity Spread	0	-	-	0	-	-	0	-	-	0	-	-
KC WHEAT	1,044	1,547	-32.5%	1,485,944	1,424,528	4.31%	4,769	5,575	-14.5%	5,146,593	5,855,938	-12.1%
LUMBER	0	0	0.0%	17,404	22,439	-22.44%	0	0	0.0%	57,340	73,814	-22.3%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Ag Products Futures</b>												
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	19	0	0.0%	25,805	18,985	35.92%	100	212	-52.8%	101,346	78,446	29.2%
MINI CORN	0	0	0.0%	9,347	11,200	-16.54%	0	0	0.0%	30,696	41,913	-26.8%
MINI SOYBEAN	0	0	0.0%	13,850	28,778	-51.87%	0	0	0.0%	62,892	121,741	-48.3%
MINI WHEAT	0	0	0.0%	4,531	5,618	-19.35%	0	0	0.0%	17,684	23,616	-25.1%
MLK MID OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NFD MILK	0	5	-100.0%	6,796	7,080	-4.01%	0	43	-100.0%	27,771	22,663	22.5%
OATS	0	0	0.0%	18,572	20,809	-10.75%	0	0	0.0%	54,608	64,120	-14.8%
ROUGH RICE	0	0	0.0%	25,306	25,124	0.72%	31	0	0.0%	75,240	68,649	9.6%
SOYBEAN	5,516	19,597	-71.9%	4,511,291	6,435,961	-29.90%	21,822	66,461	-67.2%	15,157,182	21,753,762	-30.3%
SOYBEAN MEAL	463	4,661	-90.1%	2,690,850	3,254,536	-17.32%	2,720	19,199	-85.8%	8,874,270	11,252,383	-21.1%
SOYBEAN OIL	2,063	2,054	0.4%	2,938,434	3,137,482	-6.34%	3,311	6,512	-49.2%	9,660,353	10,789,941	-10.5%
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	58	-100.00%	0	0	0.0%	0	58	-100.0%
USD CRUDE PALM OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WHEAT	0	0	0.0%	552	0	0.00%	0	0	0.0%	4,095	22	18,513.6%
<b>Ag Products Options</b>												
AUG-NOV SOYBEAN CAL SPR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BUTTER CS	606	2,241	-73.0%	3,865	2,935	31.69%	3,535	4,914	-28.1%	13,223	8,391	57.6%
CASH-SETTLED CHEESE	423	2,821	-85.0%	9,144	5,574	64.05%	9,456	10,740	-12.0%	34,434	26,891	28.1%
CATTLE	35,277	29,285	20.5%	202,256	272,589	-25.80%	111,905	119,350	-6.2%	705,888	995,658	-29.1%
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	61,018	139,842	-56.4%	428,727	634,680	-32.45%	388,367	706,732	-45.0%	2,331,896	2,471,564	-5.7%
CLASS IV MILK	531	259	105.0%	4,425	689	542.24%	2,438	340	617.1%	16,147	3,414	373.0%
CORN	338,250	534,385	-36.7%	1,754,342	1,687,494	3.96%	1,317,870	2,092,441	-37.0%	6,506,907	5,728,397	13.6%
CORN NEARBY+2 CAL SPRD	125	10	1,150.0%	0	0	0.00%	8,595	6,708	28.1%	1	0	0.0%
DEC-DEC CORN CAL SPRD	2,174	352	517.6%	0	0	0.00%	2,747	1,428	92.4%	0	0	0.0%
DEC-JULY CORN CAL SPRD	3,210	0	0.0%	0	0	0.00%	6,910	0	0.0%	0	0	0.0%
DEC-JULY WHEAT CAL SPRD	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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<b>Ag Products Options</b>												
DRY WHEY	224	42	433.3%	1,066	184	479.35%	288	739	-61.0%	3,508	979	258.3%
FEEDER CATTLE	2,073	2,172	-4.6%	32,656	31,985	2.10%	4,827	10,074	-52.1%	106,870	133,250	-19.8%
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	45,415	35,491	28.0%	379,443	175,363	116.38%	162,986	109,262	49.2%	1,291,302	655,555	97.0%
HOUSING INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
Intercommodity Spread	100	180	-44.4%	0	0	0.00%	680	6,630	-89.7%	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	2,060	4,700	-56.2%	600	0	0.00%	6,545	8,719	-24.9%	1,100	100	1,000.0%
JULY-DEC SOYMEAL CAL SPR	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	50	200	-75.0%	0	45	-100.00%	1,350	665	103.0%	0	55	-100.0%
JULY-NOV SOYBEAN CAL SPR	415	8,732	-95.2%	0	1,398	-100.00%	3,966	44,119	-91.0%	190	1,978	-90.4%
KC WHEAT	11,841	32,258	-63.3%	47,634	63,574	-25.07%	76,030	151,721	-49.9%	254,484	242,968	4.7%
LUMBER	0	5	-100.0%	2,451	1,904	28.73%	70	136	-48.5%	7,956	7,396	7.6%
LV CATL CSO	10	10	0.0%	0	0	0.00%	419	20	1,995.0%	0	0	0.0%
MAR-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	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%
MILK	3,462	6,760	-48.8%	39,326	21,471	83.16%	10,492	23,262	-54.9%	139,179	81,976	69.8%
MLK MID OPTIONS	0	87	-100.0%	54	0	0.00%	8	210	-96.2%	152	0	0.0%
NFD MILK	115	1,622	-92.9%	5,638	7,572	-25.54%	574	5,914	-90.3%	32,715	17,824	83.5%
NOV-JULY SOYBEAN CAL SPR	750	0	0.0%	0	0	0.00%	750	1	74,900.0%	50	0	0.0%
NOV-MAR SOYBEAN CSO	0	70	-100.0%	0	0	0.00%	0	70	-100.0%	0	0	0.0%
NOV-NOV SOYBEAN CAL SPR	0	4	-100.0%	0	0	0.00%	114	13	776.9%	0	0	0.0%
OATS	281	12	2,241.7%	305	354	-13.84%	1,832	472	288.1%	1,193	1,423	-16.2%
ROUGH RICE	790	52	1,419.2%	696	814	-14.50%	5,284	1,448	264.9%	3,393	3,352	1.2%
SEP-DEC SOYBEAN MEAL CSC	0	-	-	0	-	-	0	-	-	0	-	-
SOYBEAN	142,168	347,300	-59.1%	927,109	1,521,973	-39.09%	544,817	1,239,837	-56.1%	3,438,496	5,626,379	-38.9%
SOYBEAN CRUSH	4	10	-60.0%	0	0	0.00%	4	82	-95.1%	0	0	0.0%
SOYBEAN MEAL	36,354	117,795	-69.1%	113,032	211,324	-46.51%	130,266	498,904	-73.9%	435,972	855,826	-49.1%
SOYBEAN OIL	15,038	43,326	-65.3%	88,531	62,442	41.78%	66,648	160,879	-58.6%	362,044	340,772	6.2%
SOYBN NEARBY+2 CAL SPRD	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 APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>Ag Products Options</b>												
SOYMEAL NEARBY+2 CAL SPR	15	400	-96.3%	0	0	0.00%	465	400	16.3%	0	0	0.0%
WHEAT	1,744	0	0.0%	305	0	0.00%	3,450	410	741.5%	1,538	154	898.7%
WHEAT-CORN ICSCO	640	300	113.3%	0	0	0.00%	2,490	2,345	6.2%	0	0	0.0%
WHEAT NEARBY+2 CAL SPRD	960	100	860.0%	0	340	-100.00%	2,040	4,650	-56.1%	200	2,246	-91.1%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	942,752	1,059,593	-11.0%	115,114,477	115,033,643	0.1%	3,541,660	4,668,450	-24.1%	557,474,019	637,880,729	-12.6%
Equity Index Futures	4,139	20,436	-79.7%	38,718,617	54,552,245	-29.0%	83,415	173,234	-51.8%	192,587,473	234,789,868	-18.0%
Metals Futures	0	0	0.0%	9,735,587	12,686,685	-23.3%	0	0	0.0%	39,255,396	51,491,001	-23.8%
Energy Futures	0	0	0.0%	44,339,930	45,971,757	-3.5%	0	0	0.0%	165,258,215	183,308,028	-9.8%
FX Futures	20	20	0.0%	14,365,646	15,978,177	-10.1%	34	494	-93.1%	64,431,315	77,015,296	-16.3%
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	747	-100.0%	0	0	0.0%	0	7,659	-100.0%
Ag Products Futures	36,878	80,551	-54.2%	27,989,527	30,330,582	-7.7%	159,469	268,833	-40.7%	96,300,035	109,117,354	-11.7%
<b>TOTAL FUTURES</b>	<b>983,789</b>	<b>1,160,600</b>	<b>-15.2%</b>	<b>250,263,784</b>	<b>274,553,836</b>	<b>-8.8%</b>	<b>3,784,578</b>	<b>5,111,011</b>	<b>-26.0%</b>	<b>1,115,306,453</b>	<b>1,293,609,935</b>	<b>-13.8%</b>
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	600,543	829,808	-27.6%	8,959,276	15,908,649	-43.7%	2,790,205	5,017,257	-44.4%	43,723,639	77,897,993	-43.9%
Interest Rate Options	20,893,767	19,159,051	9.1%	25,957,927	20,517,389	26.5%	92,036,893	102,045,002	-9.8%	110,652,305	112,044,214	-1.2%
Metals Options	0	0	0.0%	916,225	958,193	-4.4%	0	0	0.0%	3,801,218	3,762,735	1.0%
Energy Options	0	0	0.0%	3,115,857	4,054,321	-23.1%	0	0	0.0%	11,863,921	18,578,316	-36.1%
FX Options	2,595	1,098	136.3%	1,195,331	1,342,145	-10.9%	7,797	10,946	-28.8%	4,520,298	6,521,974	-30.7%
Ag Products Options	706,123	1,310,823	-46.1%	4,041,605	4,704,704	-14.1%	2,878,218	5,213,835	-44.8%	15,688,868	17,206,548	-8.8%
Foreign Exchange Options	0	0	0.0%	1,216	560	117.1%	0	0	0.0%	4,024	2,066	94.8%
<b>TOTAL OPTIONS</b>	<b>22,203,028</b>	<b>21,300,780</b>	<b>4.2%</b>	<b>44,187,437</b>	<b>47,485,961</b>	<b>-6.9%</b>	<b>97,713,113</b>	<b>112,287,040</b>	<b>-13.0%</b>	<b>190,254,273</b>	<b>236,013,846</b>	<b>-19.4%</b>

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2019	Open Outcry APR 2018	% CHG	ELEC APR 2019	ELEC APR 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
<b>TOTAL COMBINED</b>												
Interest Rate	21,836,519	20,218,644	8.0%	141,072,404	135,551,032	4.1%	95,578,553	106,713,452	-10.4%	668,126,324	749,924,943	-10.9%
Equity Index	604,682	850,244	-28.9%	47,677,893	70,460,894	-32.3%	2,873,620	5,190,491	-44.6%	236,311,112	312,687,861	-24.4%
Metals	0	0	0.0%	10,651,812	13,644,878	-21.9%	0	0	0.0%	43,056,614	55,253,736	-22.1%
Energy	0	0	0.0%	47,455,787	50,026,078	-5.1%	0	0	0.0%	177,122,136	201,886,344	-12.3%
FX	2,615	1,118	133.9%	15,560,977	17,320,322	-10.2%	7,831	11,440	-31.5%	68,951,613	83,537,270	-17.5%
Ags	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Foreign Exchange	0	0	0.0%	1,216	1,307	-7.0%	0	0	0.0%	4,024	9,725	-58.6%
Ag Products	743,001	1,391,374	-46.6%	32,031,132	35,035,286	-8.6%	3,037,687	5,482,668	-44.6%	111,988,903	126,323,902	-11.3%
<b>GRAND TOTAL</b>	<b>23,186,817</b>	<b>22,461,380</b>	<b>3.2%</b>	<b>294,451,221</b>	<b>322,039,797</b>	<b>-8.6%</b>	<b>101,497,691</b>	<b>117,398,051</b>	<b>-13.5%</b>	<b>1,305,560,726</b>	<b>1,529,623,781</b>	<b>-14.6%</b>

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