



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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	149,918	105,820	41.7%	29,037,195	24,606,159	18.01%	896,905	932,265	-3.8%	245,844,714	247,674,765	-0.7%
10-YR SWAP RATE	0	0	0.0%	21,595	12,521	72.47%	0	0	0.0%	262,565	294,495	-10.8%
15-YR SWAP RATE	0	-	-	0	-	-	0	-	-	0	-	-
1-MONTH EURODOLLAR	0	0	0.0%	1	1,124	-99.91%	0	0	0.0%	187	31,166	-99.4%
20-YR SWAP RATE	0	-	-	0	-	-	0	-	-	46	-	-
2-YR NOTE	794	2,570	-69.1%	9,904,906	5,022,859	97.20%	16,575	19,650	-15.6%	89,508,749	69,458,401	28.9%
2-YR SWAP RATE	0	-	-	56,422	-	-	0	-	-	317,306	-	-
30-YR BOND	18,110	23,113	-21.6%	5,637,698	5,095,799	10.63%	123,696	142,614	-13.3%	46,710,789	49,332,789	-5.3%
30-YR SWAP RATE	0	0	0.0%	383	0	0.00%	0	0	0.0%	4,998	983	408.4%
3-YR SWAP RATE	0	-	-	33,751	-	-	0	-	-	95,991	-	-
4-YR SWAP RATE	0	-	-	5,368	-	-	0	-	-	80,541	-	-
5-YR NOTE	65,405	27,217	140.3%	17,481,435	13,345,701	30.99%	292,345	244,305	19.7%	156,982,277	150,798,419	4.1%
5-YR SWAP RATE	0	0	0.0%	62,461	7,533	729.17%	0	0	0.0%	486,352	168,038	189.4%
7-YR SWAP RATE	0	-	-	4,070	-	-	0	-	-	31,220	-	-
EURODOLLARS	515,412	504,953	2.1%	55,046,855	37,334,122	47.44%	5,486,942	5,962,065	-8.0%	422,380,808	448,211,195	-5.8%
FED FUND	0	0	0.0%	9,784,391	2,507,178	290.26%	0	0	0.0%	52,910,862	37,223,516	42.1%
SOFR	0	0	0.0%	751,355	64,874	1,058.18%	0	0	0.0%	4,150,662	131,016	3,068.1%
SONIA	0	-	-	292,367	-	-	0	-	-	1,271,444	-	-
Ultra 10-Year Note	0	0	0.0%	3,616,777	2,419,672	49.47%	0	0	0.0%	29,641,106	25,267,189	17.3%
ULTRA T-BOND	0	0	0.0%	2,328,793	2,090,005	11.43%	66	230	-71.3%	24,449,237	23,180,556	5.5%
<b>Interest Rate Options</b>												
10-YR NOTE	2,134,819	1,580,212	35.1%	10,661,310	7,082,253	50.54%	16,334,245	15,145,240	7.9%	74,357,571	73,407,161	1.3%
2-YR NOTE	87,782	64,045	37.1%	388,953	372,737	4.35%	1,025,648	980,546	4.6%	2,555,675	2,655,432	-3.8%
30-YR BOND	231,332	361,460	-36.0%	2,254,532	1,758,815	28.18%	2,043,470	2,139,358	-4.5%	16,934,035	15,764,194	7.4%
5-YR NOTE	939,083	405,514	131.6%	3,665,948	1,495,448	145.14%	6,336,560	4,721,786	34.2%	25,930,392	18,307,728	41.6%
EURODOLLARS	13,113,227	7,297,228	79.7%	8,969,287	3,000,724	198.90%	99,711,753	66,992,638	48.8%	57,182,022	32,271,231	77.2%
EURO MIDCURVE	5,138,866	5,086,327	1.0%	3,314,961	2,694,156	23.04%	52,940,030	65,405,878	-19.1%	41,954,270	37,730,718	11.2%
FED FUND	17,100	0	0.0%	1,609	1	160,800.00%	18,350	1,750	948.6%	1,811	15,268	-88.1%
Ultra 10-Year Note	510	0	0.0%	0	0	0.00%	12,128	0	0.0%	5,328	28	18,928.6%
ULTRA T-BOND	30,712	202	15,104.0%	261	2,178	-88.02%	115,726	27,107	326.9%	10,069	17,166	-41.3%

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<b>Equity Index Futures</b>												
BITCOIN FUTURES	0	0	0.0%	152,868	129,418	18.12%	0	0	0.0%	1,094,090	471,172	132.2%
DJ US REAL ESTATE	0	0	0.0%	16,292	18,861	-13.62%	0	0	0.0%	162,423	162,187	0.1%
E-mini (\$5) Dow	0	0	0.0%	3,564,186	3,309,138	7.71%	0	0	0.0%	30,478,653	34,815,131	-12.5%
E-MINI COM SERVICES SELEC	0	-	-	1,710	-	-	0	-	-	18,689	-	-
E-mini FTSE 100 (USD)	0	0	0.0%	0	885	-100.00%	0	0	0.0%	336	10,805	-96.9%
E-mini FTSE China 50	0	0	0.0%	0	715	-100.00%	0	0	0.0%	711	8,184	-91.3%
E-MINI MIDCAP	0	0	0.0%	274,293	266,970	2.74%	0	0	0.0%	2,311,316	2,623,582	-11.9%
E-MINI NASDAQ 100	0	0	0.0%	7,906,354	7,252,366	9.02%	0	0	0.0%	67,466,355	62,336,172	8.2%
E-MINI RUSSELL 1000	0	0	0.0%	1,685	8,154	-79.34%	0	0	0.0%	23,925	60,578	-60.5%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	866	7,108	-87.82%	0	0	0.0%	23,963	52,087	-54.0%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	2,027	8,020	-74.73%	0	0	0.0%	48,628	64,670	-24.8%
E-MINI RUSSELL 2000	0	0	0.0%	2,449,054	2,225,633	10.04%	0	0	0.0%	20,318,394	19,271,284	5.4%
E-MINI S&P500	0	0	0.0%	25,316,063	23,169,451	9.26%	0	0	0.0%	224,523,703	240,958,189	-6.8%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	1,418	3,703	-61.71%	0	0	0.0%	17,219	22,899	-24.8%
FT-SE 100	0	0	0.0%	0	1,010	-100.00%	0	0	0.0%	372	9,141	-95.9%
FTSE Emerging	0	0	0.0%	1,707	1,357	25.79%	0	0	0.0%	15,216	2,044	644.4%
IBOVESPA INDEX	0	0	0.0%	338	875	-61.37%	0	0	0.0%	4,079	7,098	-42.5%
MICRO E-MINI NASDAQ 100	0	-	-	4,362,562	-	-	0	-	-	10,385,973	-	-
MICRO E-MINI RUSSELL 2000	0	-	-	640,308	-	-	0	-	-	1,559,195	-	-
MICRO E-MINI S&P500	0	-	-	4,563,369	-	-	0	-	-	13,911,414	-	-
MICRO MINI \$5 DOW	0	-	-	1,066,878	-	-	0	-	-	2,810,187	-	-
NASDAQ BIOTECH	0	0	0.0%	242	0	0.00%	0	0	0.0%	2,048	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%	151,817	182,851	-16.97%	0	0	0.0%	1,492,455	2,317,957	-35.6%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	711,869	596,135	19.41%	228	0	0.0%	5,307,960	6,300,201	-15.7%
S&P 500	4,447	8,526	-47.8%	626	1,716	-63.52%	158,304	304,522	-48.0%	9,657	36,864	-73.8%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	7,107	1,714	314.64%	0	0	0.0%	71,065	27,104	162.2%
S&P 500/GI	0	0	0.0%	0	0	0.00%	0	0	0.0%	40	52	-23.1%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	60	0	0.00%	0	0	0.0%	581	462	25.8%
S&P 600 SMALLCAP EMINI	0	-	-	0	-	-	0	-	-	0	-	-
S&P CONSUMER DSCRTRNY S	0	0	0.0%	2,493	8,326	-70.06%	0	0	0.0%	47,675	92,482	-48.4%
S&P CONSUMER STAPLES SE	0	0	0.0%	4,298	10,179	-57.78%	0	0	0.0%	72,717	82,551	-11.9%
S&P ENERGY SECTOR	0	0	0.0%	4,910	11,647	-57.84%	0	0	0.0%	75,811	130,077	-41.7%

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<b>Equity Index Futures</b>												
S&P FINANCIAL SECTOR	0	0	0.0%	13,070	31,775	-58.87%	0	0	0.0%	118,610	196,270	-39.6%
S&P HEALTH CARE SECTOR	0	0	0.0%	5,946	8,679	-31.49%	0	0	0.0%	73,306	82,054	-10.7%
S&P INDUSTRIAL SECTOR	0	0	0.0%	3,703	11,426	-67.59%	0	0	0.0%	51,342	81,575	-37.1%
S&P MATERIALS SECTOR	0	0	0.0%	2,553	4,151	-38.50%	0	0	0.0%	42,493	45,587	-6.8%
S&P TECHNOLOGY SECTOR	0	0	0.0%	3,487	12,852	-72.87%	0	0	0.0%	69,142	125,620	-45.0%
S&P UTILITIES SECTOR	0	0	0.0%	8,827	11,129	-20.68%	0	0	0.0%	110,637	136,290	-18.8%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	48	56	-14.3%
YEN DENOMINATED TOPIX	0	0	0.0%	21,790	772	2,722.54%	0	0	0.0%	125,089	3,046	4,006.7%
<b>Equity Index Options</b>												
E-mini (\$5) Dow	0	0	0.0%	2,115	6,268	-66.26%	0	0	0.0%	28,601	72,415	-60.5%
E-MINI NASDAQ 100	0	0	0.0%	176,875	239,308	-26.09%	0	0	0.0%	1,415,682	1,721,777	-17.8%
E-MINI RUSSELL 2000	0	0	0.0%	5,966	5,047	18.21%	0	0	0.0%	84,172	88,292	-4.7%
E-MINI S&P500	0	8,985	-100.0%	3,785,568	3,085,434	22.69%	345	14,315	-97.6%	33,400,352	40,388,268	-17.3%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	7,325	2,192	234.17%	0	0	0.0%	58,803	40,136	46.5%
EOM EMINI S&P	0	0	0.0%	1,517,529	1,705,110	-11.00%	0	0	0.0%	12,700,448	18,018,857	-29.5%
EOM S&P 500	112,461	92,853	21.1%	0	0	0.00%	901,372	1,362,120	-33.8%	0	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	2,605	1,129	130.74%	0	0	0.0%	11,466	15,815	-27.5%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	2,442	1,255	94.58%	0	0	0.0%	12,896	21,069	-38.8%
EOW1 EMINI S&P 500	0	0	0.0%	1,015,468	980,746	3.54%	0	0	0.0%	6,688,563	7,699,880	-13.1%
EOW1 S&P 500	83,394	160,174	-47.9%	0	0	0.00%	467,487	571,880	-18.3%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	12,979	2,910	346.01%	0	0	0.0%	35,293	37,937	-7.0%
EOW2 EMINI S&P 500	0	0	0.0%	795,872	942,931	-15.60%	0	0	0.0%	6,826,925	9,157,210	-25.4%
EOW2 S&P 500	121,425	191,158	-36.5%	0	0	0.00%	860,226	1,088,597	-21.0%	0	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	15,101	11,561	30.62%	0	0	0.0%	77,300	156,566	-50.6%
EOW3 EMINI S&P 500	0	0	0.0%	2,424,780	3,047,988	-20.45%	0	0	0.0%	15,980,504	26,351,524	-39.4%
EOW3 S&P 500	166,252	212,829	-21.9%	0	0	0.00%	942,464	2,211,946	-57.4%	0	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	3,798	2,323	63.50%	0	0	0.0%	21,339	42,729	-50.1%
EOW4 EMINI S&P 500	0	0	0.0%	703,668	979,691	-28.17%	0	0	0.0%	5,552,341	8,504,677	-34.7%
S&P 500	143,603	171,663	-16.3%	0	0	0.00%	1,567,909	2,129,121	-26.4%	0	0	0.0%

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<b>Metals Futures</b>												
ALUMINUM	0	0	0.0%	561	976	-42.52%	0	0	0.0%	4,568	5,604	-18.5%
COMEX COPPER	0	0	0.0%	1,864,597	2,807,297	-33.58%	0	0	0.0%	14,540,830	20,174,838	-27.9%
COMEX E-Mini GOLD	0	0	0.0%	31,114	11,516	170.18%	0	0	0.0%	99,382	52,196	90.4%
COMEX E-Mini SILVER	0	0	0.0%	4,349	1,123	287.27%	0	0	0.0%	26,372	8,566	207.9%
COMEX GOLD	0	0	0.0%	9,212,412	6,989,474	31.80%	0	0	0.0%	44,513,787	49,728,173	-10.5%
COMEX MINY COPPER	0	0	0.0%	703	360	95.28%	0	0	0.0%	4,612	3,540	30.3%
COMEX SILVER	0	0	0.0%	2,042,399	1,546,660	32.05%	0	0	0.0%	12,542,872	14,156,233	-11.4%
COPPER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
E-MICRO GOLD	0	0	0.0%	608,677	126,651	380.59%	0	0	0.0%	2,077,415	906,697	129.1%
FERROUS PRODUCTS	0	0	0.0%	313	9	3,377.78%	0	0	0.0%	4,062	111	3,559.5%
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	38	-100.00%	0	0	0.0%	28	117	-76.1%
LNDN ZINC	0	0	0.0%	0	1,538	-100.00%	0	0	0.0%	1,230	2,831	-56.6%
NYMEX HOT ROLLED STEEL	0	0	0.0%	1,946	4,137	-52.96%	0	0	0.0%	26,202	22,910	14.4%
NYMEX PLATINUM	0	0	0.0%	431,123	386,681	11.49%	0	0	0.0%	3,112,772	3,131,234	-0.6%
PALLADIUM	0	0	0.0%	76,857	93,629	-17.91%	0	0	0.0%	724,914	794,777	-8.8%
SILVER	0	0	0.0%	23,306	6,645	250.73%	0	0	0.0%	118,812	51,187	132.1%
URANIUM	0	0	0.0%	0	21	-100.00%	0	0	0.0%	395	131	201.5%

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<b>Metals Options</b>												
COMEX COPPER	0	0	0.0%	45,032	24,105	86.82%	0	0	0.0%	302,252	121,363	149.0%
COMEX GOLD	0	0	0.0%	1,137,230	748,184	52.00%	0	0	0.0%	6,560,167	5,327,032	23.1%
COMEX SILVER	0	0	0.0%	218,369	114,859	90.12%	0	0	0.0%	907,301	908,962	-0.2%
COPPER	0	0	0.0%	131	140	-6.43%	0	0	0.0%	775	188	312.2%
GOLD	0	0	0.0%	166,416	49,655	235.14%	0	0	0.0%	744,628	261,631	184.6%
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%	919	3,646	-74.79%	0	0	0.0%	9,286	12,565	-26.1%
PALLADIUM	0	0	0.0%	279	1,080	-74.17%	0	0	0.0%	4,430	11,390	-61.1%
SILVER	0	0	0.0%	4,845	3,501	38.39%	0	0	0.0%	29,232	9,843	197.0%
<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%	1,976,266	1,610,194	22.73%	0	0	0.0%	14,737,444	12,573,585	17.2%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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%	0	15	-100.00%	0	0	0.0%	474	1,845	-74.3%
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%	0	0	0.00%	0	0	0.0%	123	31	296.8%
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%	22,470,373	22,689,538	-0.97%	0	0	0.0%	171,681,954	187,583,797	-8.5%
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 JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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%	17,365	482	3,502.70%	0	0	0.0%	59,242	7,170	726.2%
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%	5,391	6,646	-18.88%	0	0	0.0%	61,501	63,104	-2.5%
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 JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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%	100	318	-68.55%	0	0	0.0%	732	3,317	-77.9%
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%	5,143	0	0.00%	0	0	0.0%	17,435	2,076	739.8%
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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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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 CLNDF	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%	2	0	0.00%	0	0	0.0%	2	0	0.0%
GULF COAST ULSD CALEND A	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%	2,883,991	3,171,255	-9.06%	0	0	0.0%	21,713,479	26,230,278	-17.2%
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	4,044	-100.00%	0	0	0.0%	0	18,823	-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	671	-100.00%	0	0	0.0%	122	54,635	-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	0.00%	-	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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 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	-	-
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%	151,395	146,864	3.09%	0	0	0.0%	1,125,057	1,463,095	-23.1%
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%	456	285	60.00%	0	0	0.0%	4,299	714	502.1%
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	4	-25.00%	0	0	0.0%	23	22	4.5%
MINY NATURAL GAS	0	0	0.0%	33,478	18,448	81.47%	0	0	0.0%	191,184	185,986	2.8%
MINY RBOB GAS	0	0	0.0%	6	4	50.00%	0	0	0.0%	43	23	87.0%
MINY WTI CRUDE OIL	0	0	0.0%	550,243	403,151	36.49%	0	0	0.0%	3,208,632	2,380,009	34.8%
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%	3	48	-93.75%	0	0	0.0%	75	136	-44.9%
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 JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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	0	0	0.0%	28,753	31,291	-8.11%	0	0	0.0%	271,167	342,255	-20.8%
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%	8,827,979	6,867,404	28.55%	0	0	0.0%	52,170,897	59,742,918	-12.7%
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%	4	12	-66.67%	0	0	0.0%	8	58	-86.2%
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

	Open Outcry JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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 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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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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 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 JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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 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%	4,012,160	3,776,733	6.23%	0	0	0.0%	29,384,002	27,333,173	7.5%
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 JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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>												
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%	150	6,192	-97.58%	0	0	0.0%	3,299	39,226	-91.6%
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	3	-100.00%	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

	Open Outcry JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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	500	-100.00%	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%	41,378	114,122	-63.74%	0	0	0.0%	455,867	406,945	12.0%
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%	4,300	12,200	-64.75%	0	0	0.0%	48,461	107,260	-54.8%
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%	2,217,745	2,559,968	-13.37%	0	0	0.0%	16,436,680	21,049,003	-21.9%
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%
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%	3,438	2,120	62.17%	0	0	0.0%	29,812	39,927	-25.3%
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%	700	987	-29.08%	0	0	0.0%	3,570	1,141	212.9%
NATURAL GAS 2 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 3 M CSO FIN	0	0	0.0%	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 JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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%	1,053,762	800,146	31.70%	0	0	0.0%	6,238,303	8,410,127	-25.8%
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%	45	67	-32.84%	0	0	0.0%	297	410	-27.6%
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%	6	0	0.00%	0	0	0.0%	17	20	-15.0%
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%	4,235	1,458	190.47%	0	0	0.0%	26,342	27,175	-3.1%
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	125	-100.00%	0	0	0.0%	43	625	-93.1%
SHORT TERM NATURAL GAS	0	0	0.0%	0	184	-100.00%	0	0	0.0%	84	746	-88.7%
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%	1,400	1,250	12.00%	0	0	0.0%	29,205	136,511	-78.6%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	800	-100.00%	0	0	0.0%	8,600	14,550	-40.9%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	5	1	400.00%	0	0	0.0%	109	43	153.5%
AD/JY CROSS RATES	0	0	0.0%	1,763	5,262	-66.50%	0	0	0.0%	19,552	28,730	-31.9%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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%	165	93	77.42%	0	0	0.0%	673	545	23.5%
AUSTRALIAN DOLLAR	0	0	0.0%	1,867,784	1,970,145	-5.20%	0	0	0.0%	15,014,580	16,536,688	-9.2%
BDI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BP/JY CROSS RATES	0	0	0.0%	3,214	2,463	30.49%	0	0	0.0%	18,337	21,852	-16.1%
BP/SF CROSS RATES	0	0	0.0%	847	485	74.64%	0	0	0.0%	3,221	2,454	31.3%
BRAZIL REAL	0	0	0.0%	111,734	71,542	56.18%	0	0	0.0%	787,200	655,696	20.1%
BRITISH POUND	0	0	0.0%	2,077,280	2,492,055	-16.64%	0	7	-100.0%	16,557,317	19,235,209	-13.9%
CANADIAN DOLLAR	0	0	0.0%	1,382,467	1,407,690	-1.79%	3	38	-92.1%	11,200,988	12,432,924	-9.9%
CD/JY CROSS RATES	0	0	0.0%	6	4	50.00%	0	0	0.0%	125	542	-76.9%
CHINESE RENMINBI (CNH)	0	0	0.0%	26,940	2,968	807.68%	0	0	0.0%	182,460	17,604	936.5%
CZECK KORUNA (EC)	0	0	0.0%	0	2	-100.00%	0	0	0.0%	18	2	800.0%
CZECK KORUNA (US)	0	0	0.0%	0	15	-100.00%	0	0	0.0%	0	15	-100.0%
EC/AD CROSS RATES	0	0	0.0%	3,490	1,014	244.18%	0	0	0.0%	32,796	11,296	190.3%
EC/CD CROSS RATES	0	0	0.0%	1,594	912	74.78%	0	0	0.0%	21,354	24,110	-11.4%
EC/NOK CROSS RATES	0	0	0.0%	370	308	20.13%	0	0	0.0%	3,316	2,487	33.3%
EC/SEK CROSS RATES	0	0	0.0%	409	307	33.22%	0	0	0.0%	4,530	5,854	-22.6%
EFX/BP CROSS RATES	0	0	0.0%	78,584	56,977	37.92%	0	0	0.0%	626,105	554,541	12.9%
EFX/JY CROSS RATES	0	0	0.0%	40,996	39,548	3.66%	0	0	0.0%	428,888	567,913	-24.5%
EFX/SF CROSS RATES	0	0	0.0%	27,444	15,596	75.97%	0	0	0.0%	228,569	192,919	18.5%
E-MICRO AUD/USD	0	0	0.0%	97,827	99,245	-1.43%	0	0	0.0%	793,267	696,844	13.8%
E-MICRO CAD/USD	0	0	0.0%	17,664	14,260	23.87%	0	0	0.0%	118,740	126,909	-6.4%
E-MICRO CHF/USD	0	0	0.0%	4,292	1,326	223.68%	0	0	0.0%	15,981	9,586	66.7%
E-MICRO EUR/USD	0	0	0.0%	224,416	245,637	-8.64%	0	0	0.0%	1,739,886	2,709,618	-35.8%
E-MICRO GBP/USD	0	0	0.0%	40,880	33,767	21.06%	0	0	0.0%	296,782	345,853	-14.2%
E-MICRO INR/USD	0	0	0.0%	5,860	4,270	37.24%	0	0	0.0%	33,567	28,820	16.5%
E-MICRO JPY/USD	0	0	0.0%	25,014	25,224	-0.83%	0	0	0.0%	193,091	224,531	-14.0%
E-MINI EURO FX	0	0	0.0%	84,189	69,489	21.15%	0	0	0.0%	686,908	742,007	-7.4%
E-MINI JAPANESE YEN	0	0	0.0%	24,132	15,261	58.13%	0	0	0.0%	87,233	95,832	-9.0%
EURO FX	11	2	450.0%	3,774,769	4,486,043	-15.86%	53	452	-88.3%	29,981,056	40,787,233	-26.5%
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%	0	0	0.00%	0	0	0.0%	8	0	0.0%
INDIAN RUPEE	0	0	0.0%	58,879	65,210	-9.71%	0	0	0.0%	473,438	621,977	-23.9%
JAPANESE YEN	2	2	0.0%	2,166,012	2,760,440	-21.53%	2	102	-98.0%	18,220,447	22,058,390	-17.4%
KOREAN WON	0	0	0.0%	329	112	193.75%	0	0	0.0%	1,817	1,637	11.0%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>FX Futures</b>												
MEXICAN PESO	0	0	0.0%	871,362	1,238,707	-29.66%	0	0	0.0%	8,933,896	9,826,952	-9.1%
NEW ZEALND DOLLAR	0	0	0.0%	492,310	527,199	-6.62%	0	0	0.0%	4,072,981	4,573,036	-10.9%
NKR/USD CROSS RATE	0	0	0.0%	4,421	3,464	27.63%	0	0	0.0%	30,482	27,882	9.3%
POLISH ZLOTY (EC)	0	0	0.0%	11	9	22.22%	0	0	0.0%	405	84	382.1%
POLISH ZLOTY (US)	0	0	0.0%	122	30	306.67%	0	0	0.0%	705	624	13.0%
RMB USD	0	0	0.0%	0	1	-100.00%	0	0	0.0%	5	18	-72.2%
RUSSIAN RUBLE	0	0	0.0%	51,082	23,243	119.77%	0	0	0.0%	449,079	361,262	24.3%
S.AFRICAN RAND	0	0	0.0%	51,799	36,992	40.03%	0	0	0.0%	291,513	305,125	-4.5%
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%	1,806	2,975	-39.29%	0	0	0.0%	17,634	25,639	-31.2%
SWISS FRANC	0	0	0.0%	463,258	501,443	-7.62%	0	0	0.0%	3,789,087	4,116,800	-8.0%
TURKISH LIRA	0	0	0.0%	40	0	0.00%	0	0	0.0%	56	0	0.0%
USDZAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	20	5	300.0%

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<b>FX Options</b>												
AUD/USD PQO 2pm Fix	0	0	0.0%	69,927	102,256	-31.62%	0	0	0.0%	683,817	857,425	-20.2%
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%
BRAZIL REAL	0	-	-	23	-		0	-	-	79	-	-
BRITISH POUND	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRITISH POUND (EU)	0	0	0.0%	0	13	-100.00%	0	0	0.0%	0	254	-100.0%
CAD/USD PQO 2pm Fix	40	10	300.0%	68,178	122,603	-44.39%	857	1,944	-55.9%	697,481	1,156,218	-39.7%
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%	2,605	3,551	-26.64%	0	0	0.0%	19,314	22,221	-13.1%
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	5	-100.00%	0	0	0.0%	0	36	-100.0%
EUR/USD PQO 2pm Fix	823	1,151	-28.5%	551,504	516,626	6.75%	8,353	9,451	-11.6%	3,742,779	5,469,939	-31.6%
GBP/USD PQO 2pm Fix	48	0	0.0%	144,513	220,248	-34.39%	780	576	35.4%	1,151,754	1,668,232	-31.0%
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	75	82	-8.5%	163,009	279,558	-41.69%	163	3,965	-95.9%	1,418,473	1,857,974	-23.7%
MEXICAN PESO	0	0	0.0%	1,195	2,312	-48.31%	900	3,888	-76.9%	10,035	11,994	-16.3%
NEW ZEALND DOLLAR	0	-	-	523	-		0	-	-	3,112	-	-
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	593	-100.00%	0	0	0.0%	0	9,388	-100.0%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Foreign Exchange Options</b>												
AUD/USD PQO 2pm Fix	0	0	0.0%	553	239	131.38%	0	0	0.0%	5,939	4,894	21.4%
<b>Ag Products Futures</b>												
BUTTER CS	0	0	0.0%	5,701	3,266	74.56%	0	0	0.0%	28,078	30,571	-8.2%
CASH-SETTLED CHEESE	0	0	0.0%	12,831	10,596	21.09%	0	0	0.0%	80,235	71,049	12.9%
CATTLE	151	968	-84.4%	1,319,012	1,475,409	-10.60%	8,828	9,614	-8.2%	10,207,368	9,798,456	4.2%
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%	25	0	0.00%	0	0	0.0%	25	0	0.0%
CHI WHEAT	3,957	20,838	-81.0%	2,256,117	2,942,450	-23.33%	52,487	104,180	-49.6%	19,482,732	23,293,804	-16.4%
CLASS IV MILK	0	0	0.0%	1,260	577	118.37%	157	0	0.0%	16,060	4,145	287.5%
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%
CORN	18,082	51,258	-64.7%	7,852,450	6,391,095	22.87%	184,596	261,992	-29.5%	67,313,531	60,299,466	11.6%
COTTON	0	0	0.0%	14	0	0.00%	0	0	0.0%	29	2	1,350.0%
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%	25,015	57,061	-56.16%	0	0	0.0%	342,134	591,685	-42.2%
DRY WHEY	0	0	0.0%	908	1,055	-13.93%	0	0	0.0%	9,241	8,924	3.6%
FEEDER CATTLE	73	5	1,360.0%	305,018	338,058	-9.77%	178	17	947.1%	2,181,587	2,073,451	5.2%
FERTILIZER PRODUCS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	27,483	28,783	-4.52%	0	0	0.0%	200,900	220,462	-8.9%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	33	-100.00%	0	0	0.0%	0	338	-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	1,129	1,348	-16.2%	1,562,776	1,246,877	25.34%	13,154	9,967	32.0%	9,556,143	7,816,806	22.3%
HOUSING INDEX	0	0	0.0%	10	5	100.00%	0	0	0.0%	81	57	42.1%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
KC WHEAT	209	744	-71.9%	1,096,376	1,038,998	5.52%	6,744	8,193	-17.7%	9,125,939	9,631,948	-5.3%
LUMBER	0	0	0.0%	12,438	15,314	-18.78%	0	0	0.0%	99,687	134,023	-25.6%

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## CME Group Exchange Volume Comparison Report - Monthly

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<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	40	170	-76.5%	25,860	23,318	10.90%	260	1,038	-75.0%	173,523	155,260	11.8%
MINI CORN	0	0	0.0%	16,852	8,387	100.93%	0	0	0.0%	101,533	73,754	37.7%
MINI SOYBEAN	0	0	0.0%	17,531	17,299	1.34%	0	0	0.0%	125,879	173,266	-27.3%
MINI WHEAT	0	0	0.0%	9,256	10,986	-15.75%	0	0	0.0%	42,632	54,541	-21.8%
MLK MID OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NFD MILK	14	0	0.0%	5,025	6,049	-16.93%	14	43	-67.4%	45,201	37,143	21.7%
OATS	0	0	0.0%	9,121	6,841	33.33%	0	40	-100.0%	98,357	97,565	0.8%
ROUGH RICE	0	0	0.0%	13,422	10,670	25.79%	31	0	0.0%	130,422	124,162	5.0%
SOYBEAN	4,542	12,257	-62.9%	3,673,127	3,627,110	1.27%	40,748	109,100	-62.7%	29,214,297	35,973,112	-18.8%
SOYBEAN MEAL	846	938	-9.8%	1,916,235	2,325,134	-17.59%	5,226	29,520	-82.3%	16,091,087	18,904,842	-14.9%
SOYBEAN OIL	491	1,500	-67.3%	2,175,470	2,112,584	2.98%	4,038	11,493	-64.9%	16,867,941	18,327,972	-8.0%
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%	991	0	0.00%	0	0	0.0%	5,726	22	25,927.3%
<b>Ag Products Options</b>												
AUG-NOV SOYBEAN CAL SPR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BUTTER CS	200	518	-61.4%	2,077	2,260	-8.10%	3,915	8,309	-52.9%	22,151	19,004	16.6%
CASH-SETTLED CHEESE	724	2,406	-69.9%	7,948	6,988	13.74%	11,995	18,396	-34.8%	58,713	51,051	15.0%
CATTLE	11,414	18,573	-38.5%	120,718	186,608	-35.31%	180,268	193,777	-7.0%	1,192,578	1,615,530	-26.2%
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	0.00%	-	0	0.0%	-	0	0.0%
CHI WHEAT	89,966	233,042	-61.4%	522,512	662,583	-21.14%	705,214	1,323,834	-46.7%	4,232,261	4,523,651	-6.4%
CLASS IV MILK	119	122	-2.5%	3,440	1,332	158.26%	3,217	615	423.1%	25,719	6,331	306.2%
CORN	417,840	658,191	-36.5%	2,650,147	1,987,971	33.31%	3,346,652	4,420,638	-24.3%	17,915,469	12,615,847	42.0%
CORN NEARBY+2 CAL SPRD	8,506	800	963.3%	0	100	-100.00%	34,288	7,778	340.8%	1,441	100	1,341.0%
DEC-DEC CORN CAL SPRD	1,496	2,233	-33.0%	0	0	0.00%	8,631	8,404	2.7%	2,285	0	0.0%
DEC-JULY CORN CAL SPRD	2,000	6,334	-68.4%	2	0	0.00%	17,406	9,494	83.3%	24	0	0.0%
DEC-JULY WHEAT CAL SPRD	0	110	-100.0%	0	0	0.00%	0	110	-100.0%	0	0	0.0%

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<b>Ag Products Options</b>												
DRY WHEY	12	103	-88.3%	313	390	-19.74%	704	1,222	-42.4%	5,803	2,911	99.3%
FEEDER CATTLE	1,549	1,336	15.9%	27,566	25,339	8.79%	14,147	14,469	-2.2%	211,014	198,727	6.2%
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	24,398	29,783	-18.1%	405,274	280,856	44.30%	239,025	183,860	30.0%	2,392,590	1,290,753	85.4%
HOUSING INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	7	0	0.0%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	1,000	8,779	-88.6%	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	693	0	0.0%	0	0	0.00%	9,173	9,346	-1.9%	1,100	100	1,000.0%
JULY-DEC SOYMEAL CAL SPR	0	1,200	-100.0%	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	0	0.0%	0	0	0.00%	5,931	47,773	-87.6%	190	2,333	-91.9%
KC WHEAT	35,691	29,588	20.6%	58,441	61,653	-5.21%	172,242	230,040	-25.1%	493,915	417,743	18.2%
LUMBER	0	1	-100.0%	2,004	922	117.35%	70	207	-66.2%	13,403	12,788	4.8%
LV CATL CSO	0	5	-100.0%	0	0	0.00%	479	113	323.9%	0	0	0.0%
MAR-JULY CORN CAL SPRD	20	0	0.0%	0	0	0.00%	20	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	1,443	5,374	-73.1%	39,160	30,753	27.34%	17,925	46,434	-61.4%	247,477	176,729	40.0%
MLK MID OPTIONS	8	42	-81.0%	13	0	0.00%	16	332	-95.2%	194	1	19,300.0%
NFD MILK	479	235	103.8%	4,357	3,965	9.89%	1,246	7,468	-83.3%	43,980	29,529	48.9%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	250	0	0.00%	750	1	74,900.0%	2,500	0	0.0%
NOV-MAR SOYBEAN CSO	0	50	-100.0%	0	0	0.00%	20	130	-84.6%	0	0	0.0%
NOV-NOV SOYBEAN CAL SPR	20	0	0.0%	1,000	0	0.00%	134	18	644.4%	1,750	0	0.0%
OATS	66	14	371.4%	92	109	-15.60%	2,119	686	208.9%	1,714	1,919	-10.7%
ROUGH RICE	2,500	678	268.7%	1,077	795	35.47%	9,829	3,982	146.8%	6,078	6,170	-1.5%
SEP-DEC SOYBEAN MEAL CSC	0	4	-100.0%	0	0	0.00%	0	1,170	-100.0%	0	0	0.0%
SOYBEAN	132,231	275,037	-51.9%	978,380	1,178,324	-16.97%	1,024,560	2,319,472	-55.8%	7,470,878	10,286,068	-27.4%
SOYBEAN CRUSH	0	54	-100.0%	0	0	0.00%	4	185	-97.8%	0	0	0.0%
SOYBEAN MEAL	27,339	48,819	-44.0%	135,858	141,456	-3.96%	227,926	810,543	-71.9%	920,506	1,451,446	-36.6%
SOYBEAN OIL	12,611	29,010	-56.5%	77,828	51,593	50.85%	124,682	248,061	-49.7%	633,585	546,180	16.0%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	0	0	0.00%	3,500	10	34,900.0%	2,000	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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	25	250	-90.0%	0	0	0.00%	490	2,650	-81.5%	0	0	0.0%
WHEAT	100	1,495	-93.3%	195	5	3,800.00%	4,916	2,105	133.5%	2,316	218	962.4%
WHEAT-CORN ICSCO	100	1,435	-93.0%	0	0	0.00%	2,680	4,780	-43.9%	0	0	0.0%
WHEAT NEARBY+2 CAL SPRD	200	550	-63.6%	0	675	-100.00%	2,240	7,285	-69.3%	200	3,881	-94.8%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	749,639	663,673	13.0%	134,065,823	92,507,547	44.9%	6,816,529	7,301,129	-6.6%	1,075,129,854	1,051,772,528	2.2%
Equity Index Futures	4,447	8,526	-47.8%	51,264,776	37,297,016	37.5%	158,532	304,522	-47.9%	382,845,517	370,587,915	3.3%
Metals Futures	0	0	0.0%	14,298,357	11,976,755	19.4%	0	0	0.0%	77,798,253	89,039,281	-12.6%
Energy Futures	0	0	0.0%	40,963,261	38,733,602	5.8%	0	0	0.0%	294,631,724	318,026,405	-7.4%
FX Futures	13	4	225.0%	14,085,566	16,221,734	-13.2%	58	599	-90.3%	115,358,229	137,978,088	-16.4%
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	593	-100.0%	0	0	0.0%	0	9,388	-100.0%
Ag Products Futures	29,534	90,026	-67.2%	22,340,324	21,697,955	3.0%	316,461	545,197	-42.0%	181,540,386	187,896,944	-3.4%
<b>TOTAL FUTURES</b>	<b>783,633</b>	<b>762,229</b>	<b>2.8%</b>	<b>277,018,107</b>	<b>218,435,202</b>	<b>26.8%</b>	<b>7,291,580</b>	<b>8,151,447</b>	<b>-10.5%</b>	<b>2,127,303,963</b>	<b>2,155,310,549</b>	<b>-1.3%</b>
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	627,135	837,662	-25.1%	10,472,091	11,013,893	-4.9%	4,739,803	7,377,979	-35.8%	82,894,685	112,317,152	-26.2%
Interest Rate Options	21,693,431	14,794,988	46.6%	29,256,861	16,406,312	78.3%	178,537,910	155,414,303	14.9%	218,931,173	180,168,926	21.5%
Metals Options	0	0	0.0%	1,573,221	945,170	66.4%	0	0	0.0%	8,558,071	6,652,974	28.6%
Energy Options	0	0	0.0%	3,327,009	3,493,927	-4.8%	0	0	0.0%	23,279,084	30,197,677	-22.9%
FX Options	986	1,243	-20.7%	1,001,477	1,247,172	-19.7%	11,053	19,824	-44.2%	7,726,918	11,044,356	-30.0%
Ag Products Options	771,750	1,347,392	-42.7%	5,038,652	4,624,677	9.0%	6,178,864	9,945,841	-37.9%	35,901,871	33,259,465	7.9%
Foreign Exchange Options	0	0	0.0%	553	239	131.4%	0	0	0.0%	5,939	4,894	21.4%
<b>TOTAL OPTIONS</b>	<b>23,093,302</b>	<b>16,981,285</b>	<b>36.0%</b>	<b>50,669,864</b>	<b>37,731,390</b>	<b>34.3%</b>	<b>189,467,630</b>	<b>172,757,947</b>	<b>9.7%</b>	<b>377,297,741</b>	<b>373,645,444</b>	<b>1.0%</b>

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2019	Open Outcry JUL 2018	% CHG	ELEC JUL 2019	ELEC JUL 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	22,443,070	15,458,661	45.2%	163,322,684	108,913,859	50.0%	185,354,439	162,715,432	13.9%	1,294,061,027	1,231,941,454	5.0%
Equity Index	631,582	846,188	-25.4%	61,736,867	48,310,909	27.8%	4,898,335	7,682,501	-36.2%	465,740,202	482,905,067	-3.6%
Metals	0	0	0.0%	15,871,578	12,921,925	22.8%	0	0	0.0%	86,356,324	95,692,255	-9.8%
Energy	0	0	0.0%	44,290,270	42,227,529	4.9%	0	0	0.0%	317,910,808	348,224,082	-8.7%
FX	999	1,247	-19.9%	15,087,043	17,468,906	-13.6%	11,111	20,423	-45.6%	123,085,147	149,022,444	-17.4%
Ags	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Foreign Exchange	0	0	0.0%	553	832	-33.5%	0	0	0.0%	5,939	14,282	-58.4%
Ag Products	801,284	1,437,418	-44.3%	27,378,976	26,322,632	4.0%	6,495,325	10,491,038	-38.1%	217,442,257	221,156,409	-1.7%
<b>GRAND TOTAL</b>	<b>23,876,935</b>	<b>17,743,514</b>	<b>34.6%</b>	<b>327,687,971</b>	<b>256,166,592</b>	<b>27.9%</b>	<b>196,759,210</b>	<b>180,909,394</b>	<b>8.8%</b>	<b>2,504,601,704</b>	<b>2,528,955,993</b>	<b>-1.0%</b>

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