



CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Interest Rate Futures												
10-YR NOTE	160,120	112,679	42.1%	47,960,845	40,251,077	19.15%	1,528,295	1,386,146	10.3%	411,860,519	341,043,767	20.8%
10-YR SWAP RATE	0	0	0.0%	16,421	28,761	-42.91%	0	0	0.0%	408,856	462,353	-11.6%
1-MONTH EURODOLLAR	0	0	0.0%	0	4,420	-100.00%	0	0	0.0%	31,342	51,775	-39.5%
2-YR NOTE	1,685	2,655	-36.5%	18,704,612	13,952,937	34.06%	32,258	19,545	65.0%	117,151,816	83,932,383	39.6%
2-YR SWAP RATE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
30-YR BOND	24,088	14,515	66.0%	10,152,635	8,026,624	26.49%	232,131	182,199	27.4%	84,003,174	66,717,883	25.9%
30-YR SWAP RATE	0	0	0.0%	0	133	-100.00%	0	0	0.0%	983	10,383	-90.5%
5-YR NOTE	42,504	26,737	59.0%	35,560,926	26,797,584	32.70%	378,646	244,575	54.8%	254,554,850	201,180,266	26.5%
5-YR SWAP RATE	0	0	0.0%	15,799	21,609	-26.89%	0	0	0.0%	248,304	462,855	-46.4%
7-YR SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EURODOLLARS	678,692	660,232	2.8%	57,692,399	48,059,358	20.04%	8,669,920	7,007,421	23.7%	673,062,244	578,041,719	16.4%
FED FUND	0	0	0.0%	5,606,524	2,745,030	104.24%	0	30	-100.0%	56,863,229	44,614,457	27.5%
SOFR	0	-	-	245,030	-	-	0	-	-	775,902	-	-
SONIA	0	-	-	124,925	-	-	0	-	-	186,324	-	-
Ultra 10-Year Note	0	0	0.0%	5,210,163	3,954,932	31.74%	0	8	-100.0%	41,762,809	25,797,554	61.9%
ULTRA T-BOND	0	0	0.0%	6,005,546	4,701,981	27.72%	230	15	1,433.3%	40,755,265	29,480,389	38.2%
Interest Rate Options												
10-YR NOTE	3,441,648	2,133,114	61.3%	16,157,718	7,648,757	111.25%	26,488,010	24,335,040	8.8%	125,050,261	93,978,818	33.1%
2-YR NOTE	98,503	88,474	11.3%	217,445	194,197	11.97%	1,517,130	725,063	109.2%	4,037,621	1,294,884	211.8%
30-YR BOND	333,693	210,111	58.8%	3,334,685	1,712,080	94.77%	3,532,270	2,811,068	25.7%	29,017,967	22,173,755	30.9%
5-YR NOTE	1,239,052	571,247	116.9%	3,936,992	1,625,606	142.19%	8,002,485	6,033,461	32.6%	29,497,413	21,453,100	37.5%
EURODOLLARS	5,541,787	6,113,057	-9.3%	4,426,523	3,646,239	21.40%	97,329,754	89,052,373	9.3%	49,491,941	43,024,159	15.0%
EURO MIDCURVE	8,989,740	10,240,172	-12.2%	6,892,241	6,742,140	2.23%	97,587,723	98,467,733	-0.9%	59,839,028	63,835,544	-6.3%
FED FUND	500	0	0.0%	5	65	-92.31%	2,250	15,398	-85.4%	15,968	1,482	977.5%
Ultra 10-Year Note	60	0	0.0%	0	0	0.00%	100	1,652	-93.9%	28	6,835	-99.6%
ULTRA T-BOND	23,531	1,487	1,482.4%	2,965	2,502	18.51%	63,768	12,443	412.5%	30,047	22,107	35.9%

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Equity Index Futures												
BITCOIN FUTURES	0	-	-	125,751	-		0	-	-	842,902	-	-
DJ US REAL ESTATE	0	0	0.0%	22,713	16,236	39.89%	0	0	0.0%	255,438	174,445	46.4%
E-mini (\$5) Dow	0	0	0.0%	4,883,923	2,704,885	80.56%	0	0	0.0%	53,279,864	29,923,362	78.1%
E-mini FTSE 100 (USD)	0	0	0.0%	1,306	1,093	19.49%	0	0	0.0%	15,538	2,072	649.9%
E-mini FTSE China 50	0	0	0.0%	498	4,404	-88.69%	0	0	0.0%	11,249	19,291	-41.7%
E-MINI MIDCAP	0	0	0.0%	354,261	278,129	27.37%	0	0	0.0%	4,177,261	3,760,657	11.1%
E-MINI NASDAQ 100	0	0	0.0%	13,040,926	6,421,192	103.09%	0	0	0.0%	108,936,314	62,479,988	74.4%
E-MINI RUSSELL 1000	0	0	0.0%	10,332	6,643	55.53%	0	0	0.0%	96,277	28,345	239.7%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	11,185	3,032	268.90%	0	0	0.0%	86,327	17,685	388.1%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	10,799	3,731	189.44%	0	0	0.0%	106,118	26,218	304.8%
E-MINI RUSSELL 2000	0	0	0.0%	3,093,984	2,164,088	42.97%	0	0	0.0%	32,143,163	7,210,280	345.8%
E-MINI S&P500	0	0	0.0%	36,983,127	27,554,129	34.22%	0	0	0.0%	388,896,537	333,755,902	16.5%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	6,495	1,264	413.84%	0	0	0.0%	44,854	26,695	68.0%
FT-SE 100	0	0	0.0%	1,167	1,173	-0.51%	0	0	0.0%	13,812	6,703	106.1%
FTSE Emerging	0	0	0.0%	2,979	266	1,019.92%	0	0	0.0%	8,030	722	1,012.2%
IBOVESPA INDEX	0	0	0.0%	136	590	-76.95%	0	0	0.0%	11,475	6,988	64.2%
NASDAQ BIOTECH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NIFTY 50	0	0	0.0%	0	14,369	-100.00%	0	0	0.0%	54,444	131,490	-58.6%
NIKKEI 225 (\$) STOCK	0	0	0.0%	267,623	425,097	-37.04%	0	0	0.0%	3,422,886	3,023,295	13.2%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	850,395	1,148,523	-25.96%	0	0	0.0%	9,818,741	10,066,944	-2.5%
S&P 500	15,177	22,303	-32.0%	3,313	4,209	-21.29%	425,797	698,482	-39.0%	49,091	48,090	2.1%
S&P 500/GI	0	0	0.0%	0	1	-100.00%	0	0	0.0%	73	251	-70.9%
S&P 500/VALUE	0	0	0.0%	6,788	1,162	484.17%	0	0	0.0%	54,033	73,738	-26.7%
S&P 600 SMALLCAP EMINI	0	-	-	0	-		0	-	-	1	-	-
S&P CONSUMER DSCRTNRY S	0	0	0.0%	21,487	3,269	557.30%	0	0	0.0%	173,666	45,434	282.2%
S&P CONSUMER STAPLES SE	0	0	0.0%	13,468	3,197	321.27%	0	0	0.0%	158,080	87,234	81.2%
S&P ENERGY SECTOR	0	0	0.0%	32,649	6,470	404.62%	0	0	0.0%	237,603	107,447	121.1%
S&P FINANCIAL SECTOR	0	0	0.0%	33,904	12,079	180.69%	0	0	0.0%	340,426	164,382	107.1%
S&P HEALTH CARE SECTOR	0	0	0.0%	23,765	4,238	460.76%	0	0	0.0%	163,646	92,740	76.5%
S&P INDUSTRIAL SECTOR	0	0	0.0%	13,405	5,457	145.65%	0	0	0.0%	145,660	51,882	180.8%
S&P MATERIALS SECTOR	0	0	0.0%	9,880	4,179	136.42%	0	0	0.0%	94,011	62,743	49.8%
S&P TECHNOLOGY SECTOR	0	0	0.0%	51,906	4,825	975.77%	0	0	0.0%	314,480	58,683	435.9%
S&P UTILITIES SECTOR	0	0	0.0%	29,757	6,482	359.07%	0	0	0.0%	278,732	151,121	84.4%
YEN DENOMINATED TOPIX	0	-	-	597	-		0	-	-	5,734	-	-

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Equity Index Options												
E-mini (\$5) Dow	0	0	0.0%	8,992	9,656	-6.88%	0	0	0.0%	106,676	63,956	66.8%
E-MINI MIDCAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
E-MINI NASDAQ 100	0	0	0.0%	249,338	351,587	-29.08%	0	0	0.0%	2,683,262	2,691,520	-0.3%
E-MINI RUSSELL 2000	0	0	0.0%	11,113	19,153	-41.98%	0	0	0.0%	143,256	41,359	246.4%
E-MINI S&P500	0	3,200	-100.0%	6,606,266	5,429,562	21.67%	14,660	5,135	185.5%	65,060,734	46,788,678	39.1%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	10,529	3,493	201.43%	0	0	0.0%	74,388	15,018	395.3%
EOM EMINI S&P	0	0	0.0%	2,336,360	2,316,604	0.85%	0	0	0.0%	28,995,981	22,235,291	30.4%
EOM S&P 500	157,237	278,004	-43.4%	0	0	0.00%	1,989,998	2,110,848	-5.7%	0	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	1,702	1,641	3.72%	0	0	0.0%	22,621	6,576	244.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	1,937	1,764	9.81%	0	0	0.0%	28,060	6,625	323.5%
EOW1 EMINI S&P 500	0	0	0.0%	1,164,190	1,246,815	-6.63%	0	0	0.0%	12,387,393	11,805,588	4.9%
EOW1 S&P 500	34,448	108,008	-68.1%	0	0	0.00%	878,609	982,064	-10.5%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	5,319	4,977	6.87%	0	0	0.0%	55,304	11,645	374.9%
EOW2 EMINI S&P 500	0	0	0.0%	1,310,158	1,214,931	7.84%	0	0	0.0%	14,328,432	11,746,518	22.0%
EOW2 S&P 500	132,952	243,522	-45.4%	0	0	0.00%	1,720,817	1,911,618	-10.0%	0	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	13,977	12,044	16.05%	0	0	0.0%	207,503	55,382	274.7%
EOW3 EMINI S&P 500	0	0	0.0%	3,199,095	2,992,790	6.89%	0	3,000	-100.0%	40,435,024	37,054,376	9.1%
EOW3 S&P 500	174,710	340,297	-48.7%	0	0	0.00%	2,968,491	3,984,497	-25.5%	0	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	4,718	3,109	51.75%	0	0	0.0%	57,976	11,558	401.6%
EOW4 EMINI S&P 500	0	0	0.0%	990,683	892,935	10.95%	0	0	0.0%	12,419,736	10,536,427	17.9%
S&P 500	409,029	435,685	-6.1%	0	0	0.00%	3,445,548	3,573,737	-3.6%	0	0	0.0%

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Metals Futures												
ALUMINUM	0	0	0.0%	550	398	38.19%	0	0	0.0%	8,496	7,244	17.3%
COMEX COPPER	0	0	0.0%	2,521,183	2,961,088	-14.86%	0	0	0.0%	31,009,521	24,409,645	27.0%
COMEX E-Mini GOLD	0	0	0.0%	9,527	7,107	34.05%	0	0	0.0%	91,830	87,450	5.0%
COMEX E-Mini SILVER	0	0	0.0%	1,047	806	29.90%	0	0	0.0%	12,554	8,890	41.2%
COMEX GOLD	0	0	0.0%	6,115,530	8,313,211	-26.44%	0	0	0.0%	73,507,108	65,353,608	12.5%
COMEX MINY COPPER	0	0	0.0%	337	629	-46.42%	0	0	0.0%	4,933	7,642	-35.4%
COMEX SILVER	0	0	0.0%	2,239,156	2,468,023	-9.27%	0	0	0.0%	22,056,704	21,142,786	4.3%
COPPER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
E-MICRO GOLD	0	0	0.0%	161,742	112,421	43.87%	0	0	0.0%	1,645,616	1,058,548	55.5%
FERROUS PRODUCTS	0	0	0.0%	305	0	0.00%	0	0	0.0%	1,123	85	1,221.2%
GOLD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	1	-100.0%
Gold Kilo	0	0	0.0%	0	285	-100.00%	0	0	0.0%	136	3,561	-96.2%
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%	23	30	-23.33%	0	0	0.0%	172	2,840	-93.9%
LNDN ZINC	0	0	0.0%	2,931	10	29,210.00%	0	0	0.0%	13,475	125	10,680.0%
METALS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYMEX HOT ROLLED STEEL	0	0	0.0%	3,633	837	334.05%	0	0	0.0%	33,933	4,742	615.6%
NYMEX PLATINUM	0	0	0.0%	361,546	373,171	-3.12%	0	0	0.0%	4,829,803	4,151,624	16.3%
PALLADIUM	0	0	0.0%	143,577	148,736	-3.47%	0	0	0.0%	1,304,704	1,265,327	3.1%
SILVER	0	0	0.0%	12,447	7,866	58.24%	0	0	0.0%	89,789	66,270	35.5%
URANIUM	0	0	0.0%	27	2	1,250.00%	0	0	0.0%	793	429	84.8%

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Metals Options												
COMEX COPPER	0	0	0.0%	33,435	11,975	179.21%	0	0	0.0%	240,145	82,241	192.0%
COMEX GOLD	0	0	0.0%	719,309	564,034	27.53%	0	0	0.0%	8,548,130	7,077,375	20.8%
COMEX SILVER	0	0	0.0%	131,793	84,947	55.15%	0	0	0.0%	1,415,708	1,161,289	21.9%
COPPER	0	-	-	35	-	-	0	-	-	506	-	-
GOLD	0	0	0.0%	49,931	24,982	99.87%	0	0	0.0%	461,639	152,619	202.5%
HOT ROLLED COIL STEEL CAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI CALL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI PUT O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX PLATINUM	0	0	0.0%	1,421	2,124	-33.10%	0	0	0.0%	20,018	13,008	53.9%
PALLADIUM	0	0	0.0%	443	1,724	-74.30%	0	0	0.0%	15,010	13,313	12.7%
SILVER	0	0	0.0%	3,629	38	9,450.00%	0	0	0.0%	24,104	1,672	1,341.6%
Energy Futures												
3.5% FUEL OIL CID MED SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
3.5% FUEL OIL CIF BALMO S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB MTHLY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ALGON CITY GATES NAT GAS	0	0	0.0%	0	0	0.00%	0	0	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	0	0.00%	0	0	0.0%	0	0	0.0%
ANR OKLAHOMA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
APPALACHIAN COAL (PHY)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ARGUS LLS VS. WTI (ARG) T	0	0	0.0%	0	0	0.00%	0	0	0.0%	30	60	-50.0%
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	-	-
BRENT FINANCIAL FUTURES	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 NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
BRENT OIL LAST DAY	0	0	0.0%	2,220,732	1,535,316	44.64%	0	0	0.0%	19,734,445	20,280,916	-2.7%
CAISO SP15 EZGNHUB5 MW P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CAISO SP15 EZGNHUB5 PEAK	0	0	0.0%	0	0	0.00%	0	0	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%
CENTERPOINT EAST INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CEU ENERGY	0	-	-	7,093	-	-	0	-	-	70,812	-	-
CHICAGO ETHANOL SWAP	0	0	0.0%	66	621	-89.37%	0	0	0.0%	2,071	4,204	-50.7%
CHICAGO ULSD (PLATTS) SWA	0	0	0.0%	0	0	0.00%	0	0	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	0	0.00%	0	0	0.0%	0	0	0.0%
CINERGY HUB OFF-PEAK MON	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CINERGY HUB PEAK MONTH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIN HUB 5MW D AH O PK	0	0	0.0%	0	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 MAIN NAT G	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
COLUMBIA GULF ONSHORE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CONWAY NATURAL GASOLINE	0	0	0.0%	0	0	0.00%	0	0	0.0%	5	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%	16	4	300.00%	0	0	0.0%	48	58	-17.2%
CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	89	507	-82.4%
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%	26,959,935	27,068,603	-0.40%	0	0	0.0%	278,488,076	283,703,452	-1.8%
CRUDE OIL SPRDS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	50	-100.0%
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	0	0.00%	0	0	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
DEMARC INDEX FUTURE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
DEMARC SWING SWAP	-	0	0.0%	-	0	0.00%	-	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	0	0.00%	0	0	0.0%	0	0	0.0%
DLY GAS EURO-BOB OXY	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
DOMINION TRAN INC - APP I	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DOMINION TRANSMISSION INC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DUBAI CRUDE OIL BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DUBAI CRUDE OIL CALENDAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DY EURO 3.5% FUEL OI RDA	0	0	0.0%	0	0	0.00%	0	0	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	-	-
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	0	0.00%	0	0	0.0%	0	0	0.0%
ELECTRICITY OFF PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC WEST POWER OFF-PEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC WEST POWER PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EL PASO PERMIAN INDEX SWA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ERCOT DAILY 5MW PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ERCOT HOUSTON Z MCPE 5M	0	0	0.0%	0	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%	12,343	9,943	24.14%	0	0	0.0%	101,269	138,193	-26.7%
ETHANOL FWD	-	-	-	-	-	-	-	0	0.0%	-	0	0.0%
ETHANOL SWAP	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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 10 CAL SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EURO GASOIL 10PPM VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL NWE CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL RDAM C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 3.5% FUEL OIL MED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 3.5% FUEL OIL RDAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPEAN GASOIL (ICE)	0	0	0.0%	1,254	1,490	-15.84%	0	0	0.0%	6,929	30,762	-77.5%
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%
FL GAS ZONE 3 NAT GAS IND	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
FLORIDA GAS ZONE3 BASIS S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FREIGHT MARKETS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL CRACK VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL NWE CRACK VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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 BRGS FOB VS IC	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
GASOIL 0.1 CIF MED SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1CIF MED VS ICE	0	0	0.0%	0	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	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CRG CIF NW VS	-	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
GASOIL 10P CRG CIF NW VS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 10PPM CARGOES CIF	-	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	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL CRACK SPREAD CALE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL MINI CALENDAR SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOLINE UP-DOWN BALMO S	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
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%
GULF COAST GASOLINE CLND	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
GULF COAST JET FUEL CLNDR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST JET VS NYM 2 H	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST NO.6 FUEL OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST ULSD CALEND	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST ULSD CRACK SP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL BALMO CLNDR S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL CRCK SPRD BAL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HEATING OIL PHY	0	0	0.0%	4,309,272	3,320,816	29.77%	0	0	0.0%	40,965,345	37,488,106	9.3%
HENRY HUB BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2,996	-100.0%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	1,896	-100.00%	0	0	0.0%	27,703	5,144	438.5%
HENRY HUB INDEX SWAP FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2,996	-100.0%
HENRY HUB SWAP	0	0	0.0%	9,147	3,189	186.83%	0	0	0.0%	68,731	65,169	5.5%
HENRY HUB SWING FUTURE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HOUSTON SHIP CHANNEL BAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOUSTON SHIP CHANNEL IND	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HTG OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	144	-100.0%
HUSTN SHIP CHNL PIPE SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ICE BRENT DUBAI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ICE GASOIL BALMO SWAP	0	0	0.0%	0	0	0.00%	0	0	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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	0	0.00%	0	0	0.0%	0	0	0.0%
INDONESIAN COAL IC14	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 BARGES VS ICE GASOIL	-	0	0.0%	-	0	0.00%	-	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	0	0.00%	0	0	0.0%	0	0	0.0%
JET FUEL CRG CIF NEW VS I	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET FUEL UP-DOWN BALMO C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA CARB DIESEL (OPIS)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA CARB DIESEL (OPIS) SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA CARBOB GASOLINE(OPIS)S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA JET FUEL VS NYM NO 2 H	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA JET (OPIS) SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS (ARGUS) CALENDAR SWA	0	-	-	0	-		0	-	-	0	-	-
LLS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	15	-100.0%
LOS ANGELES CARB GASOLIN	0	-	-	0	-		0	-	-	0	-	-
LTD NAT GAS	0	0	0.0%	303,243	157,723	92.26%	0	0	0.0%	2,364,603	1,408,252	67.9%
MARS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	70	-100.0%
MARS (ARGUS) VS WTI TRD M	0	0	0.0%	0	150	-100.00%	0	0	0.0%	575	950	-39.5%
MARS BLEND CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	200	-100.0%
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	731	0	0.0%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MGF FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MGN1 SWAP FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MICHCON NG INDEX SWAP	-	0	0.0%	-	0	0.00%	-	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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	4	0.00%	0	0	0.0%	44	32	37.5%
MINY NATURAL GAS	0	0	0.0%	112,587	28,377	296.75%	0	0	0.0%	387,425	271,600	42.6%
MINY RBOB GAS	0	0	0.0%	6	4	50.00%	0	0	0.0%	43	47	-8.5%
MINY WTI CRUDE OIL	0	0	0.0%	615,655	235,179	161.78%	0	0	0.0%	4,074,872	2,834,261	43.8%
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	74	-95.95%	0	0	0.0%	212	401	-47.1%
MONT BELVIEU LDH PROPANE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	20	-100.0%
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%	76,626	38,452	99.28%	0	0	0.0%	560,641	393,799	42.4%
NATURAL GAS FIXED PRICE S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS PEN SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	62	-100.0%
NATURAL GAS PHY	0	0	0.0%	13,892,304	9,685,384	43.44%	0	0	0.0%	103,290,989	94,669,998	9.1%
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 NEW HAMP 5MW D A	-	0	0.0%	-	0	0.00%	-	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 SE MASS 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL SE MASS 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL W CNT MASS 5MW D	0	0	0.0%	0	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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 MIDCONTINENT INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NGPL MIDCONTINENT SWING	-	0	0.0%	-	0	0.00%	-	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%
NGPL TEXOK INDEX	-	0	0.0%	-	0	0.00%	-	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	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHWEST ROCKIES BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
N ROCKIES PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY1% VS GC SPREAD SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY 2.2% FUEL OIL (PLATTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY 3.0% FUEL OIL (PLATTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR 1% FUEL OIL BAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	10	0	0.00%	0	0	0.0%	77	3	2,466.7%
NY HARBOR LOW SULPUR GA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR RESIDUAL FUEL 1	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR RESIDUAL FUEL	0	-	-	0	-		0	-	-	0	-	-
NYH NO 2 CRACK SPREAD CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY H OIL PLATTS VS NYMEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO A	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO A OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO CAPACITY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO G	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO G OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE C 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE G 5MW D AH O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE G 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY JET FUEL (PLATTS) HEAT C	-	0	0.0%	-	0	0.00%	-	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 INDEX SWAP FUT	-	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%
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%
PJM AECO DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM AECO DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM APS ZONE DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM APS ZONE DA PEAK	0	0	0.0%	0	0	0.00%	0	0	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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	0	0.00%	0	0	0.0%	0	0	0.0%
PJM JCPL DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM MONTHLY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM NI HUB 5MW REAL TIME	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM NILL DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM NILL DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM OFF-PEAK LMP SWAP FU	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PECO ZONE5MW PEAK C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PPL DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PPL DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PSEG DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PSEG DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WES HUB PEAK LMP 50 M	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM WESTH DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTHDA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTH RT OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTH RT PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PLASTICS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREMIUM UNLD 10P FOB MED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREMIUM UNLEAD 10PPM FOB	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREM UNL GAS 10PPM RDAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREM UNL GAS 10PPM RDAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PROPANE NON-LDH MB (OPIS)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PROPANE NON-LDH MT. BEL (0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	5	-100.0%
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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
RBOB PHY	0	0	0.0%	3,784,893	3,493,215	8.35%	0	0	0.0%	43,873,965	43,324,640	1.3%
RBOB (PLATTS) CAL SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
RBOB SPREAD (PLATTS) SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB UP-DOWN CALENDAR S	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
RBOB VS HEATING OIL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ROCKIES KERN OPAL - NW IN	-	0	0.0%	-	0	0.00%	-	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	-	-
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%	2	36	-94.4%
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%	2	5	-60.0%
SINGAPORE NAPHTHA BALMO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SINGAPORE NAPHTHA SWAP	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	0	0.00%	0	0	0.0%	0	0	0.0%
SONAT BASIS SWAP FUTURE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SOUTHERN NAT LA NAT GAS	-	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	0	0.00%	0	0	0.0%	0	0	0.0%
TC2 ROTTERDAM TO USAC 37	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TC5 RAS TANURA TO YOKOHA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Futures												
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	0	0.00%	0	0	0.0%	0	0	0.0%
TD3 MEG TO JAPAN 250K MT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TENN 800 LEG NAT GAS INDE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TENNESSEE 500 LEG BASIS S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TENNESSEE 800 LEG NG BASI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TENNESSEE ZONE 0 BASIS S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TETCO M-3 INDEX	0	0	0.0%	0	0	0.00%	0	0	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	0	0.00%	0	0	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	0	0.00%	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 6 BASIS SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 6 INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
UCM FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ULSD 10PPM CIF MED BALMO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ULSD 10PPM CIF MED SWAP	0	0	0.0%	0	0	0.00%	0	0	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	0	0.00%	0	0	0.0%	0	0	0.0%
ULSD 10PPM CIF VS ICE GAS	-	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%
USGC UNL 87 CRACK SPREAD	-	0	0.0%	-	0	0.00%	-	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	0	0.00%	0	0	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%	6	120	-95.0%
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 NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Options												
12 MO GASOIL CAL SWAP SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
1 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	-	-
BRENT CALENDAR SWAP	0	0	0.0%	12	0	0.00%	0	0	0.0%	24	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	-	-	100	-	-	0	-	-	3,000	-	-
BRENT CRUDE OIL 6 M CSO	0	-	-	0	-	-	0	-	-	0	-	-
BRENT OIL LAST DAY	0	0	0.0%	126,936	26,281	383.00%	0	0	0.0%	804,649	129,611	520.8%
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 1MO	0	0	0.0%	37,230	62,490	-40.42%	0	0	0.0%	188,985	385,190	-50.9%
CRUDE OIL APO	0	0	0.0%	5	65	-92.31%	0	0	0.0%	336	135	148.9%
CRUDE OIL CALNDR STRIP	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%	4,817,911	3,393,685	41.97%	0	0	0.0%	34,536,143	33,034,371	4.5%
ELEC FINSETTLED	-	0	0.0%	-	0	0.00%	-	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%
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%
EURO-DENOMINATED PETRO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EUROPEAN JET KEROSENE N	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOLINE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL CRACK OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL CRK SPD AVG P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL PHY	0	0	0.0%	7,385	4,252	73.68%	0	0	0.0%	58,392	53,919	8.3%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0.00%	0	0	0.0%	5	0	0.0%
HO 1 MONTH CLNDR OPTIONS	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%
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	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 1 M CSO FIN	0	0	0.0%	250	0	0.00%	0	0	0.0%	2,629	3,920	-32.9%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Energy Options												
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%	1	0	0.0%
NATURAL GAS 5 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 6 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 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%	2,182,172	1,962,490	11.19%	0	0	0.0%	15,184,583	14,222,768	6.8%
NATURAL GAS WINTER STRIP	0	-	-	0	-	-	0	-	-	0	-	-
NG HH 3 MONTH CAL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
N ROCKIES PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	44	26	69.23%	0	0	0.0%	602	509	18.3%
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	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX EUROPEAN GASOIL O	-	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	8	-100.00%	0	0	0.0%	23	16	43.8%
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 MONTHLY	-	0	0.0%	-	0	0.00%	-	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	10	-100.0%
RBOB CRACK	0	-	-	0	-	-	0	-	-	2	-	-
RBOB PHY	0	0	0.0%	2,901	6,740	-56.96%	0	0	0.0%	36,662	75,996	-51.8%
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	282	-100.00%	0	0	0.0%	996	534	86.5%
SHORT TERM NATURAL GAS	0	0	0.0%	0	2,535	-100.00%	0	0	0.0%	1,005	3,637	-72.4%
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	0	0.00%	0	0	0.0%	0	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	2,300	13,024	-82.34%	0	0	0.0%	148,335	54,628	171.5%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	3,700	-100.00%	0	0	0.0%	15,050	7,700	95.5%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
FX Futures												
AD/CD CROSS RATES	0	0	0.0%	2	0	0.00%	0	0	0.0%	55	38	44.7%
AD/JY CROSS RATES	0	0	0.0%	3,090	1,567	97.19%	0	0	0.0%	45,521	26,109	74.3%
AD/NE CROSS RATES	0	0	0.0%	62	51	21.57%	0	0	0.0%	795	940	-15.4%
AUSTRALIAN DOLLAR	0	0	0.0%	2,223,688	1,966,988	13.05%	0	1,537	-100.0%	25,768,304	21,951,546	17.4%
BDI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	6,243	-100.0%
BP/JY CROSS RATES	0	0	0.0%	2,049	3,643	-43.76%	0	0	0.0%	32,759	32,137	1.9%
BP/SF CROSS RATES	0	0	0.0%	172	175	-1.71%	0	0	0.0%	3,853	912	322.5%
BRAZIL REAL	0	0	0.0%	86,134	87,786	-1.88%	0	0	0.0%	1,110,191	650,829	70.6%
BRITISH POUND	0	0	0.0%	2,861,731	2,937,040	-2.56%	10	249	-96.0%	29,765,078	27,979,757	6.4%
CANADIAN DOLLAR	0	0	0.0%	1,544,012	1,413,742	9.21%	45	2,684	-98.3%	18,954,703	17,345,207	9.3%
CD/JY CROSS RATES	0	0	0.0%	0	0	0.00%	0	0	0.0%	949	554	71.3%
CHINESE RENMINBI (CNH)	0	0	0.0%	20,793	2,098	891.09%	0	0	0.0%	98,437	17,522	461.8%
CZECK KORUNA (EC)	0	-	-	2	-		0	-	-	8	-	-
CZECK KORUNA (US)	0	-	-	0	-		0	-	-	15	-	-
EC/AD CROSS RATES	0	0	0.0%	1,155	1,533	-24.66%	0	0	0.0%	20,915	25,047	-16.5%
EC/CD CROSS RATES	0	0	0.0%	744	2,342	-68.23%	0	0	0.0%	33,075	45,774	-27.7%
EC/NOK CROSS RATES	0	0	0.0%	173	766	-77.42%	0	0	0.0%	4,165	2,776	50.0%
EC/SEK CROSS RATES	0	0	0.0%	110	1,225	-91.02%	0	0	0.0%	8,090	7,502	7.8%
EFX/BP CROSS RATES	0	0	0.0%	61,271	66,882	-8.39%	0	0	0.0%	873,700	771,836	13.2%
EFX/JY CROSS RATES	0	0	0.0%	42,635	54,669	-22.01%	0	0	0.0%	845,610	698,424	21.1%
EFX/SF CROSS RATES	0	0	0.0%	19,142	17,156	11.58%	0	0	0.0%	313,613	350,493	-10.5%
E-MICRO AUD/USD	0	0	0.0%	123,047	83,620	47.15%	0	0	0.0%	1,201,816	946,499	27.0%
E-MICRO CAD/USD	0	0	0.0%	15,649	17,650	-11.34%	0	0	0.0%	189,497	222,816	-15.0%
E-MICRO CHF/USD	0	0	0.0%	1,481	1,346	10.03%	0	0	0.0%	16,267	11,016	47.7%
E-MICRO EUR/USD	0	0	0.0%	324,646	227,772	42.53%	0	0	0.0%	4,037,284	2,769,857	45.8%
E-MICRO GBP/USD	0	0	0.0%	53,401	55,621	-3.99%	0	0	0.0%	509,258	632,229	-19.5%
E-MICRO INR/USD	0	0	0.0%	5,994	3,423	75.11%	0	0	0.0%	54,678	29,104	87.9%
E-MICRO JPY/USD	0	0	0.0%	24,174	37,845	-36.12%	0	0	0.0%	331,003	427,547	-22.6%
E-MICRO USD/CAD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
E-MICRO USD/CHF	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
E-MICRO USD/CNH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
E-MICRO USD/JPY	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
E-MINI EURO FX	0	0	0.0%	84,842	89,708	-5.42%	0	0	0.0%	1,121,476	1,033,894	8.5%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
FX Futures												
E-MINI JAPANESE YEN	0	0	0.0%	9,376	10,882	-13.84%	0	0	0.0%	140,981	308,393	-54.3%
EURO FX	2	152	-98.7%	4,606,155	4,571,246	0.76%	544	2,825	-80.7%	62,903,914	50,607,396	24.3%
HUNGARIAN FORINT (EC)	0	-	-	0	-		0	-	-	0	-	-
HUNGARIAN FORINT (US)	0	-	-	0	-		0	-	-	0	-	-
INDIAN RUPEE	0	0	0.0%	99,328	69,855	42.19%	0	0	0.0%	1,010,786	427,776	136.3%
JAPANESE YEN	4	46	-91.3%	2,704,644	3,486,863	-22.43%	111	8,981	-98.8%	33,442,354	38,320,545	-12.7%
KOREAN WON	0	0	0.0%	391	150	160.67%	0	0	0.0%	2,791	350	697.4%
MEXICAN PESO	0	0	0.0%	1,280,686	1,025,069	24.94%	0	5	-100.0%	15,441,433	11,505,936	34.2%
NEW ZEALND DOLLAR	0	0	0.0%	623,641	511,002	22.04%	0	0	0.0%	6,896,725	5,683,002	21.4%
NKR/USD CROSS RATE	0	0	0.0%	2,756	1,576	74.87%	0	0	0.0%	52,629	19,572	168.9%
POLISH ZLOTY (EC)	0	0	0.0%	22	19	15.79%	0	0	0.0%	208	407	-48.9%
POLISH ZLOTY (US)	0	0	0.0%	54	313	-82.75%	0	0	0.0%	934	1,293	-27.8%
RMB USD	0	0	0.0%	0	1	-100.00%	0	0	0.0%	25	281	-91.1%
RUSSIAN RUBLE	0	0	0.0%	42,376	52,886	-19.87%	0	0	0.0%	568,752	396,654	43.4%
S.AFRICAN RAND	0	0	0.0%	37,222	34,974	6.43%	0	0	0.0%	497,058	490,296	1.4%
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%	2,788	1,471	89.53%	0	0	0.0%	48,253	21,799	121.4%
SWISS FRANC	0	0	0.0%	477,324	517,290	-7.73%	0	0	0.0%	6,476,230	6,207,772	4.3%
TURKISH LIRA	0	0	0.0%	0	6	-100.00%	0	0	0.0%	10	18	-44.4%
USDZAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	15	0	0.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
FX Options												
AUD/USD PQO 2pm Fix	0	0	0.0%	149,195	97,896	52.40%	600	5,746	-89.6%	1,405,249	1,183,009	18.8%
AUSTRALIAN DLR (EU)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2	-100.0%
AUSTRALIAN DOLLAR	0	0	0.0%	0	0	0.00%	0	2,674	-100.0%	0	200,250	-100.0%
BRITISH POUND	0	0	0.0%	0	0	0.00%	0	693	-100.0%	0	462,114	-100.0%
BRITISH POUND (EU)	0	0	0.0%	2	178	-98.88%	0	0	0.0%	279	4,429	-93.7%
CAD/USD PQO 2pm Fix	334	945	-64.7%	120,063	138,660	-13.41%	3,040	6,145	-50.5%	1,732,506	1,524,613	13.6%
CANADIAN DOLLAR	0	0	0.0%	0	0	0.00%	0	4,597	-100.0%	0	183,080	-100.0%
CANADIAN DOLLAR (EU)	0	0	0.0%	0	25	-100.00%	0	0	0.0%	63	136	-53.7%
CHF/USD PQO 2pm Fix	0	0	0.0%	852	2,504	-65.97%	0	0	0.0%	29,719	36,975	-19.6%
EFX/JY CROSS RATES	0	-	-	0	-	-	0	-	-	0	-	-
EURO FX	0	0	0.0%	0	0	0.00%	0	8,535	-100.0%	0	1,287,538	-100.0%
EURO FX (EU)	0	0	0.0%	0	16	-100.00%	0	0	0.0%	59	505	-88.3%
EUR/USD PQO 2pm Fix	2,327	1,818	28.0%	603,964	822,167	-26.54%	15,854	29,946	-47.1%	8,066,359	7,092,602	13.7%
GBP/USD PQO 2pm Fix	260	257	1.2%	333,863	384,704	-13.22%	912	5,002	-81.8%	2,933,490	2,426,611	20.9%
JAPANESE YEN	0	0	0.0%	0	0	0.00%	0	8,468	-100.0%	0	544,469	-100.0%
JAPANESE YEN (EU)	0	0	0.0%	0	2	-100.00%	0	0	0.0%	0	182	-100.0%
JPY/USD PQO 2pm Fix	20	725	-97.2%	232,896	273,932	-14.98%	4,485	34,603	-87.0%	2,821,053	2,820,665	0.0%
MEXICAN PESO	400	180	122.2%	1,219	1,906	-36.04%	6,118	1,770	245.6%	16,576	25,346	-34.6%
NEW ZEALND DOLLAR	0	-	-	1,017	-	-	0	-	-	1,033	-	-
RUSSIAN RUBLE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SWISS FRANC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	5,710	-100.0%
SWISS FRANC (EU)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	15	-100.0%
Ags Futures												
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
Foreign Exchange Futures												
CHILEAN PESO	0	0	0.0%	134	516	-74.03%	0	0	0.0%	12,942	17,593	-26.4%

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CME Group Exchange Volume Comparison Report - Monthly

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Foreign Exchange Options												
AUD/USD PQO 2pm Fix	0	0	0.0%	479	634	-24.45%	0	0	0.0%	9,681	634	1,427.0%
Ag Products Futures												
BUTTER CS	0	0	0.0%	4,440	3,548	25.14%	0	0	0.0%	47,001	35,369	32.9%
CASH-SETTLED CHEESE	0	0	0.0%	13,239	15,258	-13.23%	0	0	0.0%	120,259	113,436	6.0%
CAT EURO SEASONAL STRIP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CATTLE	128	1,342	-90.5%	1,466,221	1,498,605	-2.16%	12,971	37,877	-65.8%	15,294,230	15,097,606	1.3%
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	25	-100.0%
CHI WHEAT	6,896	4,896	40.8%	3,031,498	3,660,619	-17.19%	147,612	154,337	-4.4%	34,898,773	31,734,614	10.0%
CLASS IV MILK	3	0	0.0%	2,127	417	410.07%	3	79	-96.2%	8,418	10,013	-15.9%
COCOA TAS	0	0	0.0%	0	1	-100.00%	0	0	0.0%	5	87	-94.3%
COFFEE	0	0	0.0%	0	1	-100.00%	0	0	0.0%	0	41	-100.0%
CORN	21,727	26,157	-16.9%	9,278,538	10,328,123	-10.16%	357,667	368,830	-3.0%	89,564,532	82,953,182	8.0%
COTTON	0	0	0.0%	1	3	-66.67%	0	0	0.0%	21	19	10.5%
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%	58,173	57,947	0.39%	0	0	0.0%	838,770	869,525	-3.5%
DRY WHEY	0	0	0.0%	1,009	1,844	-45.28%	0	0	0.0%	15,359	19,079	-19.5%
FEEDER CATTLE	21	13	61.5%	226,098	248,088	-8.86%	38	538	-92.9%	3,296,953	3,264,471	1.0%
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	31,129	33,561	-7.25%	0	0	0.0%	343,251	373,955	-8.2%
GSCI EXCESS RETURN FUT	0	0	0.0%	202	0	0.00%	0	0	0.0%	818	1,065	-23.2%
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%	55	50	10.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	50	-100.0%
HOGS	1,432	3,438	-58.3%	1,259,546	1,092,958	15.24%	17,211	34,177	-49.6%	12,760,457	10,428,534	22.4%
HOUSING INDEX	0	0	0.0%	11	2	450.00%	0	0	0.0%	100	133	-24.8%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
KC WHEAT	315	532	-40.8%	1,337,072	1,509,537	-11.43%	12,435	10,220	21.7%	14,323,304	11,589,669	23.6%
LUMBER	0	0	0.0%	13,993	18,607	-24.80%	0	0	0.0%	202,554	185,268	9.3%

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CME Group Exchange Volume Comparison Report - Monthly

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Ag Products Futures												
MALYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	0	1,829	-100.0%	30,949	25,474	21.49%	1,239	2,914	-57.5%	271,744	290,709	-6.5%
MINI CORN	0	0	0.0%	12,003	14,781	-18.79%	0	0	0.0%	112,705	110,107	2.4%
MINI SOYBEAN	0	0	0.0%	24,396	15,324	59.20%	0	0	0.0%	252,870	186,223	35.8%
MINI WHEAT	0	0	0.0%	5,946	5,043	17.91%	0	0	0.0%	84,952	64,943	30.8%
MLK MID OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NFD MILK	0	15	-100.0%	5,784	3,915	47.74%	43	29	48.3%	55,682	54,958	1.3%
OATS	3	0	0.0%	19,766	18,315	7.92%	43	80	-46.3%	157,180	145,203	8.2%
PALM OIL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ROUGH RICE	32	0	0.0%	6,833	15,162	-54.93%	58	0	0.0%	197,345	234,246	-15.8%
SOYBEAN	14,073	11,118	26.6%	3,331,046	3,579,275	-6.94%	171,824	158,162	8.6%	51,779,288	46,860,074	10.5%
SOYBEAN MEAL	1,636	966	69.4%	2,357,910	2,497,499	-5.59%	36,624	23,094	58.6%	28,702,468	22,622,598	26.9%
SOYBEAN OIL	369	4,747	-92.2%	3,073,565	3,058,733	0.48%	15,854	43,629	-63.7%	28,143,707	26,850,410	4.8%
S&P GSCI ENHANCED ER SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SUGAR 11	0	0	0.0%	0	0	0.00%	0	0	0.0%	58	42	38.1%
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%	0	118	-100.00%	0	0	0.0%	22	119,222	-100.0%
Ag Products Options												
AUG-DEC SOYBEAN MEAL CS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
AUG-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	103	-100.0%	0	0	0.0%
BUTTER CS	196	926	-78.8%	3,448	2,018	70.86%	10,712	11,566	-7.4%	33,272	9,038	268.1%
CASH-SETTLED CHEESE	1,926	3,897	-50.6%	6,100	9,474	-35.61%	31,062	50,431	-38.4%	78,368	52,729	48.6%
CATTLE	12,312	30,719	-59.9%	149,990	215,294	-30.33%	277,604	538,580	-48.5%	2,217,257	2,171,611	2.1%
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	69,558	91,117	-23.7%	467,792	389,583	20.08%	1,907,844	1,601,843	19.1%	6,939,226	5,480,439	26.6%
CLASS IV MILK	307	336	-8.6%	1,326	1,560	-15.00%	1,088	3,291	-66.9%	11,526	16,045	-28.2%
CORN	286,978	377,077	-23.9%	1,319,282	1,220,055	8.13%	5,967,025	6,423,526	-7.1%	18,173,071	16,552,657	9.8%
CORN NEARBY+2 CAL SPRD	4,730	1,980	138.9%	50	25	100.00%	30,718	15,738	95.2%	150	102	47.1%
DEC-DEC CORN CAL SPRD	0	0	0.0%	0	0	0.00%	18,242	11,786	54.8%	33	274	-88.0%
DEC-JULY CORN CAL SPRD	2,075	290	615.5%	0	0	0.00%	18,499	39,888	-53.6%	0	0	0.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Ag Products Options												
DEC-JULY WHEAT CAL SPRD	50	399	-87.5%	0	10	-100.00%	1,744	1,923	-9.3%	0	210	-100.0%
DRY WHEY	0	686	-100.0%	88	670	-86.87%	1,355	3,810	-64.4%	5,216	2,824	84.7%
FEEDER CATTLE	1,392	3,012	-53.8%	23,307	25,316	-7.94%	20,159	48,334	-58.3%	298,254	329,777	-9.6%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOGS	33,769	35,846	-5.8%	193,646	181,941	6.43%	304,284	342,476	-11.2%	2,303,868	2,050,290	12.4%
HOUSING INDEX	0	0	0.0%	0	4	-100.00%	0	0	0.0%	0	46	-100.0%
Intercommodity Spread	395	0	0.0%	0	0	0.00%	10,713	701	1,428.2%	0	0	0.0%
JAN-MAY SOYBEAN CAL SPRD	0	0	0.0%	0	0	0.00%	0	36	-100.0%	0	0	0.0%
JULY-DEC CORN CAL SPRD	400	0	0.0%	0	0	0.00%	10,576	17,402	-39.2%	100	0	0.0%
JULY-DEC SOYMEAL CAL SPR	0	-	-	0	-	-	1,200	-	-	0	-	-
JULY-DEC SOY OIL CAL SPRD	0	0	0.0%	0	0	0.00%	0	630	-100.0%	0	10	-100.0%
JULY-DEC WHEAT CAL SPRD	200	0	0.0%	0	0	0.00%	2,165	1,414	53.1%	455	200	127.5%
JULY-JULY WHEAT CAL SPRD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JULY-NOV SOYBEAN CAL SPR	780	10	7,700.0%	17	0	0.00%	56,383	69,350	-18.7%	2,615	1,317	98.6%
KC WHEAT	14,442	6,748	114.0%	38,260	20,559	86.10%	344,095	154,009	123.4%	590,268	341,970	72.6%
LUMBER	7	1	600.0%	1,526	2,714	-43.77%	223	44	406.8%	19,264	14,566	32.3%
LV CATL CSO	14	0	0.0%	0	0	0.00%	316	1,972	-84.0%	0	0	0.0%
MAR-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	70	-100.0%	0	0	0.0%
MAR-JULY WHEAT CAL SPRD	0	200	-100.0%	0	0	0.00%	200	1,493	-86.6%	0	76	-100.0%
MILK	2,325	16,315	-85.7%	35,040	25,543	37.18%	61,007	133,144	-54.2%	326,415	259,504	25.8%
MLK MID OPTIONS	6	142	-95.8%	1	0	0.00%	431	756	-43.0%	28	0	0.0%
NFD MILK	456	1,610	-71.7%	5,258	3,087	70.33%	9,116	15,909	-42.7%	46,028	32,108	43.4%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	1	1,696	-99.9%	0	0	0.0%
NOV-MAR SOYBEAN CSO	0	-	-	0	-	-	130	-	-	0	-	-
NOV-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	118	164	-28.0%	0	0	0.0%
OATS	190	615	-69.1%	460	381	20.73%	2,093	6,116	-65.8%	4,316	7,328	-41.1%
ROUGH RICE	431	1,180	-63.5%	463	1,460	-68.29%	8,411	11,715	-28.2%	8,920	12,102	-26.3%
SEP-DEC SOYBEAN MEAL CSC	0	-	-	0	-	-	1,170	-	-	0	-	-
SOYBEAN	187,517	222,048	-15.6%	1,141,028	954,565	19.53%	3,181,841	3,230,645	-1.5%	14,659,940	12,589,797	16.4%
SOYBEAN CRUSH	0	76	-100.0%	0	0	0.00%	185	716	-74.2%	0	0	0.0%
SOYBEAN MEAL	38,466	52,190	-26.3%	105,046	119,298	-11.95%	1,044,245	590,775	76.8%	2,032,566	1,315,840	54.5%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
Ag Products Options												
SOYBEAN OIL	26,110	93,902	-72.2%	99,010	100,708	-1.69%	402,997	885,990	-54.5%	905,312	1,047,007	-13.5%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	0	0	0.00%	10	460	-97.8%	0	600	-100.0%
SOYMEAL NEARBY+2 CAL SPR	0	0	0.0%	0	0	0.00%	8,415	0	0.0%	0	0	0.0%
WHEAT	77	50	54.0%	0	50	-100.00%	2,987	1,047	185.3%	335	503	-33.4%
WHEAT-CORN ICSCO	0	1,015	-100.0%	0	0	0.00%	5,780	6,550	-11.8%	0	6	-100.0%
WHEAT NEARBY+2 CAL SPRD	255	1,135	-77.5%	50	260	-80.77%	9,487	12,926	-26.6%	4,531	4,367	3.8%
TOTAL FUTURES GROUP												
Interest Rate Futures	907,089	816,818	11.1%	187,295,825	148,544,446	26.1%	10,841,480	8,839,939	22.6%	1,681,665,617	1,371,795,784	22.6%
Equity Index Futures	15,177	22,303	-32.0%	59,908,519	40,804,412	46.8%	425,797	698,482	-39.0%	604,236,466	451,604,827	33.8%
Metals Futures	0	0	0.0%	11,573,561	14,394,620	-19.6%	0	0	0.0%	134,610,690	117,570,817	14.5%
Energy Futures	0	0	0.0%	52,305,189	45,580,440	14.8%	0	0	0.0%	494,019,740	484,627,273	1.9%
FX Futures	6	198	-97.0%	17,386,962	17,358,251	0.2%	710	16,281	-95.6%	212,824,220	189,978,098	12.0%
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%	134	516	-74.0%	0	0	0.0%	12,942	17,593	-26.4%
Ag Products Futures	46,635	55,053	-15.3%	25,591,495	27,702,758	-7.6%	773,622	833,966	-7.2%	281,472,881	254,214,926	10.7%
TOTAL FUTURES	968,907	894,372	8.3%	354,061,685	294,385,443	20.3%	12,041,609	10,388,668	15.9%	3,408,842,556	2,869,809,318	18.8%
TOTAL OPTIONS GROUP												
Equity Index Options	908,376	1,408,716	-35.5%	15,914,377	14,501,061	9.7%	11,018,123	12,570,899	-12.4%	177,006,346	143,070,517	23.7%
Interest Rate Options	19,668,514	19,357,662	1.6%	34,968,574	21,571,586	62.1%	234,523,490	221,454,231	5.9%	296,980,274	245,790,684	20.8%
Metals Options	0	0	0.0%	939,996	689,824	36.3%	0	0	0.0%	10,725,260	8,501,517	26.2%
Energy Options	0	0	0.0%	7,177,246	5,475,578	31.1%	0	0	0.0%	50,981,422	47,972,944	6.3%
FX Options	3,341	3,925	-14.9%	1,443,071	1,721,990	-16.2%	31,009	108,179	-71.3%	17,006,386	17,798,251	-4.4%
Ag Products Options	685,364	943,522	-27.4%	3,591,188	3,274,575	9.7%	13,754,631	14,239,025	-3.4%	48,661,334	42,293,343	15.1%
Foreign Exchange Options	0	0	0.0%	479	634	-24.4%	0	0	0.0%	9,681	634	1,427.0%
TOTAL OPTIONS	21,265,595	21,713,825	-2.1%	64,034,931	47,235,248	35.6%	259,327,253	248,372,334	4.4%	601,370,703	505,427,890	19.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2018	Open Outcry NOV 2017	% CHG	ELEC NOV 2018	ELEC NOV 2017	% CHG	Open Outcry Y.T.D 2018	Open Outcry Y.T.D 2017	% CHG	ELEC Y.T.D 2018	ELEC Y.T.D 2017	% CHG
TOTAL COMBINED												
Interest Rate	20,575,603	20,174,480	2.0%	222,264,399	170,116,032	30.7%	245,364,970	230,294,170	6.5%	1,978,645,891	1,617,586,468	22.3%
Equity Index	923,553	1,431,019	-35.5%	75,822,896	55,305,473	37.1%	11,443,920	13,269,381	-13.8%	781,242,812	594,675,344	31.4%
Metals	0	0	0.0%	12,513,557	15,084,444	-17.0%	0	0	0.0%	145,335,950	126,072,334	15.3%
Energy	0	0	0.0%	59,482,435	51,056,018	16.5%	0	0	0.0%	545,001,162	532,600,217	2.3%
FX	3,347	4,123	-18.8%	18,830,033	19,080,241	-1.3%	31,719	124,460	-74.5%	229,830,606	207,776,349	10.6%
Ags	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Foreign Exchange	0	0	0.0%	613	1,150	-46.7%	0	0	0.0%	22,623	18,227	24.1%
Ag Products	731,999	998,575	-26.7%	29,182,683	30,977,333	-5.8%	14,528,253	15,072,991	-3.6%	330,134,215	296,508,269	11.3%
GRAND TOTAL	22,234,502	22,608,197	-1.7%	418,096,616	341,620,691	22.4%	271,368,862	258,761,002	4.9%	4,010,213,259	3,375,237,208	18.8%

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