

CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
Interest Rate Futures												
10-YR Eris LIBOR	0	0	0.0%	2,500	2,098	19.16%	0	0	0.0%	46,656	23,335	99.9%
10-YR Eris SOFR	0	0	0.0%	110	0	0.00%	0	0	0.0%	873	280	211.8%
10-YR MAC LIBOR	0	0	0.0%	5,047	23,364	-78.40%	0	0	0.0%	155,703	554,230	-71.9%
10-YR MAC SOFR	0	-	-	0	-		0	-	-	2	-	-
10-YR NOTE	0	0	0.0%	44,195,287	48,336,309	-8.57%	0	0	0.0%	423,664,389	430,804,203	-1.7%
10Y YIELD	0	0	0.0%	52,114	92,910	-43.91%	0	0	0.0%	1,081,547	683,027	58.3%
15-YR Eris LIBOR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
1-MONTH EURODOLLAR	0	0	0.0%	12	0	0.00%	0	0	0.0%	349	2	17,350.0%
1-YR Eris BSBY	0	-	-	0	-		0	-	-	1,600	-	-
1-YR Eris SOFR	0	0	0.0%	450	29,130	-98.46%	0	0	0.0%	201,866	724,898	-72.2%
20-YR BOND	0	-	-	2,307	-		0	-	-	34,435	-	-
20-YR SWAP RATE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
2-YR Eris LIBOR	0	0	0.0%	895	4,938	-81.88%	0	0	0.0%	81,769	33,779	142.1%
2-YR Eris SOFR	0	0	0.0%	1,504	16,236	-90.74%	0	0	0.0%	96,481	56,268	71.5%
2-YR NOTE	0	0	0.0%	17,355,446	15,030,394	15.47%	0	0	0.0%	148,701,969	99,303,768	49.7%
2Y YIELD	0	0	0.0%	9,003	17,063	-47.24%	0	0	0.0%	88,683	34,126	159.9%
30-Year UMBS TBA Futures - 2.5	0	-	-	60	-		0	-	-	60	-	-
30-Year UMBS TBA Futures - 3.0	0	-	-	129	-		0	-	-	129	-	-
30-Year UMBS TBA Futures - 3.5	0	-	-	658	-		0	-	-	658	-	-
30-Year UMBS TBA Futures - 4.0	0	-	-	288	-		0	-	-	288	-	-
30-Year UMBS TBA Futures - 4.5	0	-	-	191	-		0	-	-	191	-	-
30-Year UMBS TBA Futures - 5.0	0	-	-	415	-		0	-	-	415	-	-
30-YR BOND	0	0	0.0%	9,267,573	11,826,375	-21.64%	0	0	0.0%	88,899,931	104,776,814	-15.2%
30-YR Eris LIBOR	0	0	0.0%	0	0	0.00%	0	0	0.0%	185	261	-29.1%
30-YR SWAP RATE	0	0	0.0%	0	0	0.00%	0	0	0.0%	304	113	169.0%
30Y YIELD	0	0	0.0%	4,223	6,727	-37.22%	0	0	0.0%	105,934	22,740	365.8%
3-YR Eris BSBY	0	-	-	0	-		0	-	-	4	-	-
3-YR Eris LIBOR	0	0	0.0%	292	12,525	-97.67%	0	0	0.0%	52,113	46,697	11.6%
3-YR Eris SOFR	0	0	0.0%	1,347	4,262	-68.40%	0	0	0.0%	35,112	19,123	83.6%
3-YR NOTE	0	0	0.0%	170,157	411,243	-58.62%	0	0	0.0%	3,519,189	2,386,604	47.5%
4-YR Eris LIBOR	0	0	0.0%	357	2,428	-85.30%	0	0	0.0%	30,695	25,637	19.7%
4-YR Eris SOFR	0	0	0.0%	166	0	0.00%	0	0	0.0%	6,657	5,950	11.9%
5-YR Eris LIBOR	0	0	0.0%	11,024	27,828	-60.39%	0	0	0.0%	234,131	248,516	-5.8%

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Interest Rate Futures												
5-YR Eris SOFR	0	0	0.0%	1,649	151	992.05%	0	0	0.0%	23,012	4,876	371.9%
5-YR MAC LIBOR	0	0	0.0%	24,534	52,404	-53.18%	0	0	0.0%	371,700	558,045	-33.4%
5-YR NOTE	0	0	0.0%	33,609,193	34,115,100	-1.48%	0	0	0.0%	297,051,191	255,279,552	16.4%
5Y YIELD	0	0	0.0%	520	13,102	-96.03%	0	0	0.0%	22,359	28,641	-21.9%
7-YR Eris LIBOR	0	0	0.0%	1,785	1,255	42.23%	0	0	0.0%	26,941	22,066	22.1%
7-YR Eris SOFR	0	-	-	90	-		0	-	-	470	-	-
BSBY 3-MONTH FUTURES	0	0	0.0%	17,710	95,019	-81.36%	0	0	0.0%	556,958	395,446	40.8%
ESTR Basis Spread Futures	0	-	-	1,639	-		0	-	-	1,680	-	-
ESTR Futures	0	-	-	5,634	-		0	-	-	5,645	-	-
EURODOLLARS	309,454	748,494	-58.7%	14,747,878	58,898,089	-74.96%	7,774,035	5,298,938	46.7%	371,194,368	552,648,823	-32.8%
FED FUND	0	0	0.0%	6,884,065	4,592,868	49.89%	0	0	0.0%	78,631,939	24,391,615	222.4%
SOFR	331,564	0	0.0%	48,012,164	6,354,343	655.58%	1,357,199	0	0.0%	394,709,618	33,003,742	1,096.0%
SONIA	0	0	0.0%	0	5,403	-100.00%	0	0	0.0%	1,293	803,512	-99.8%
TIIE	0	0	0.0%	25	39	-35.90%	0	0	0.0%	941	818	15.0%
Ultra 10-Year Note	0	0	0.0%	9,978,182	11,471,799	-13.02%	0	0	0.0%	86,987,830	84,746,074	2.6%
ULTRA T-BOND	0	0	0.0%	7,568,923	7,051,033	7.34%	0	0	0.0%	53,154,025	51,913,950	2.4%
Interest Rate Options												
10-YR NOTE	0	0	0.0%	12,811,236	14,783,306	-13.34%	0	0	0.0%	147,791,723	145,731,014	1.4%
2-YR NOTE	0	0	0.0%	142,633	47,168	202.39%	0	0	0.0%	950,684	183,439	418.3%
30-YR BOND	0	0	0.0%	1,985,084	3,354,638	-40.83%	0	0	0.0%	26,820,357	30,178,952	-11.1%
5-YR NOTE	0	0	0.0%	3,859,226	4,822,592	-19.98%	0	0	0.0%	54,136,665	35,568,513	52.2%
EURODOLLARS	2,030,484	6,461,923	-68.6%	7,535,087	3,400,734	121.57%	77,421,659	34,159,511	126.6%	47,121,986	17,979,963	162.1%
EURO MIDCURVE	405,105	11,295,273	-96.4%	344,159	7,157,925	-95.19%	41,378,990	117,612,603	-64.8%	21,606,345	62,810,946	-65.6%
FED FUND	0	0	0.0%	0	0	0.00%	0	0	0.0%	4,045	0	0.0%
SOFR	9,828,673	0	0.0%	3,557,395	0	0.00%	45,353,302	7,310	620,328.2%	16,731,139	1,342	1,246,631.7%
SOFR MIDCURVE	2,940,389	0	0.0%	1,022,535	15	6,816,800.00%	13,456,913	0	0.0%	5,068,361	100	5,068,261.0%
Ultra 10-Year Note	0	0	0.0%	25	0	0.00%	0	0	0.0%	851	46	1,750.0%
ULTRA T-BOND	0	0	0.0%	1,151	583	97.43%	0	0	0.0%	24,599	7,359	234.3%

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Equity Index Futures												
BITCOIN	0	0	0.0%	276,537	192,986	43.29%	0	0	0.0%	2,405,830	2,329,055	3.3%
DJ US REAL ESTATE SECTOR	0	0	0.0%	26,729	19,841	34.72%	0	0	0.0%	382,076	355,714	7.4%
E-mini (\$5) Dow	0	0	0.0%	4,218,084	3,521,432	19.78%	0	0	0.0%	47,069,371	40,104,864	17.4%
E-mini FTSE China 50	0	0	0.0%	231	94	145.74%	0	0	0.0%	7,353	759	868.8%
E-MINI MIDCAP	0	0	0.0%	264,597	282,904	-6.47%	0	0	0.0%	3,590,218	2,847,460	26.1%
E-MINI NASDAQ 100	0	0	0.0%	13,148,790	11,762,671	11.78%	0	0	0.0%	162,123,289	125,403,409	29.3%
E-MINI RUSSELL 1000	0	0	0.0%	642	2,443	-73.72%	0	0	0.0%	30,911	47,087	-34.4%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	1,723	2,215	-22.21%	0	0	0.0%	48,347	33,604	43.9%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	2,527	6,033	-58.11%	0	0	0.0%	81,284	83,880	-3.1%
E-MINI RUSSELL 2000	0	0	0.0%	3,996,508	4,283,143	-6.69%	0	0	0.0%	54,595,961	44,953,808	21.4%
E-MINI S&P500	0	0	0.0%	35,981,607	29,093,730	23.67%	0	0	0.0%	457,474,637	356,576,880	28.3%
E-MINI S&P500 ESG	0	0	0.0%	15,606	10,396	50.12%	0	0	0.0%	276,003	143,045	92.9%
ETHER	0	-	-	0	-		0	-	-	7	-	-
ETHER FUTURES	0	0	0.0%	167,913	121,928	37.71%	0	0	0.0%	1,489,330	796,866	86.9%
FT-SE 100	0	0	0.0%	4	26	-84.62%	0	0	0.0%	1,528	284	438.0%
FTSE Emerging	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	5	-100.0%
IBOVESPA INDEX	0	0	0.0%	44	266	-83.46%	0	0	0.0%	625	2,499	-75.0%
MICRO BITCOIN	0	0	0.0%	343,673	579,866	-40.73%	0	0	0.0%	3,564,613	3,307,940	7.8%
MICRO E-MINI NASDAQ 100	0	0	0.0%	26,067,137	21,324,242	22.24%	0	0	0.0%	341,925,355	214,500,635	59.4%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	2,240,312	3,738,620	-40.08%	0	0	0.0%	31,094,856	35,076,511	-11.4%
MICRO E-MINI S&P500	0	0	0.0%	27,185,751	18,104,077	50.16%	0	0	0.0%	317,898,853	196,653,723	61.7%
MICRO ETHER	0	-	-	474,356	-		0	-	-	4,725,382	-	-
MICRO MINI \$5 DOW	0	0	0.0%	3,223,376	2,925,417	10.19%	0	0	0.0%	42,024,400	29,998,564	40.1%
NASDAQ-100 VOLATILITY	0	0	0.0%	36	14	157.14%	0	0	0.0%	18,555	111	16,616.2%
NASDAQ BIOTECH SECTOR	0	0	0.0%	63	53	18.87%	0	0	0.0%	2,223	5,624	-60.5%
Nearby BTIC+	0	0	0.0%	50	0	0.00%	0	0	0.0%	5,250	456	1,051.3%
NIKKEI 225 (\$) STOCK	0	0	0.0%	96,887	98,152	-1.29%	0	0	0.0%	1,270,158	1,428,930	-11.1%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	588,830	654,782	-10.07%	0	0	0.0%	8,502,685	7,376,114	15.3%
PHLX SEMICONDUCTOR SECT	0	-	-	229	-		0	-	-	1,692	-	-
S&P 500	0	0	0.0%	2,619	449	483.30%	0	0	0.0%	8,465	13,236	-36.0%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	22,505	14,047	60.21%	0	0	0.0%	309,661	150,355	106.0%
S&P 500/GI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	6,480	160	3,950.00%	0	0	0.0%	24,708	1,024	2,312.9%
S&P 600 SMALLCAP EMINI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%

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Equity Index Futures												
S&P BIOTECHNOLOGY SECTO	0	-	-	681	-		0	-	-	8,822	-	-
S&P COMMUNICATION SERVIC	0	0	0.0%	1,210	1,601	-24.42%	0	0	0.0%	35,803	29,251	22.4%
S&P CONSUMER DISCRETION	0	0	0.0%	3,260	10,832	-69.90%	0	0	0.0%	75,218	106,936	-29.7%
S&P CONSUMER STAPLES SE	0	0	0.0%	8,494	7,959	6.72%	0	0	0.0%	182,093	181,374	0.4%
S&P ENERGY SECTOR	0	0	0.0%	18,963	21,956	-13.63%	0	0	0.0%	475,229	299,770	58.5%
S&P FINANCIAL SECTOR	0	0	0.0%	8,700	20,857	-58.29%	0	0	0.0%	251,446	328,787	-23.5%
S&P HEALTH CARE SECTOR	0	0	0.0%	5,374	11,707	-54.10%	0	0	0.0%	187,691	165,740	13.2%
S&P INDUSTRIAL SECTOR	0	0	0.0%	7,335	5,998	22.29%	0	0	0.0%	140,767	109,387	28.7%
S&P MATERIALS SECTOR	0	0	0.0%	5,562	5,074	9.62%	0	0	0.0%	90,828	91,149	-0.4%
S&P OIL & GAS EXPLORATION	0	-	-	316	-		0	-	-	4,635	-	-
S&P REAL ESTATE SECTOR	0	0	0.0%	1,382	2,065	-33.08%	0	0	0.0%	43,935	45,390	-3.2%
S&P REGIONAL BANKS SECTO	0	-	-	272	-		0	-	-	2,311	-	-
S&P RETAIL SECTOR	0	-	-	289	-		0	-	-	3,128	-	-
S&P TECHNOLOGY SECTOR	0	0	0.0%	9,227	8,247	11.88%	0	0	0.0%	223,091	126,298	76.6%
S&P UTILITIES SECTOR	0	0	0.0%	8,580	16,313	-47.40%	0	0	0.0%	186,577	178,903	4.3%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WATER INDEX FUTURES	0	0	0.0%	3	1	200.00%	0	0	0.0%	595	947	-37.2%
YEN DENOMINATED TOPIX	0	0	0.0%	147	4,039	-96.36%	0	0	0.0%	19,952	27,333	-27.0%

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Equity Index Options												
BITCOIN OPTIONS	0	0	0.0%	2,394	1,233	94.16%	0	0	0.0%	17,063	12,548	36.0%
DJIA	0	-	-	3,480	-		0	-	-	8,451	-	-
E-mini (\$5) Dow	0	0	0.0%	3,318	6,781	-51.07%	0	0	0.0%	25,186	23,798	5.8%
E-MINI NASDAQ 100	0	0	0.0%	933,724	643,663	45.06%	0	0	0.0%	11,005,313	6,292,612	74.9%
E-mini Russell 2000	0	0	0.0%	58,690	121,475	-51.69%	0	0	0.0%	1,101,019	1,035,404	6.3%
E-MINI RUSSELL 2000	0	0	0.0%	35,996	59,871	-39.88%	0	0	0.0%	350,934	337,394	4.0%
E-mini S&P 500	0	0	0.0%	10,467,990	8,925,718	17.28%	0	0	0.0%	122,270,236	80,467,812	51.9%
E-MINI S&P500	0	0	0.0%	13,071,425	8,694,382	50.34%	0	0	0.0%	124,405,974	70,073,990	77.5%
EOM S&P 500	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2,156	-100.0%
ETHER OPTIONS	0	-	-	446	-		0	-	-	840	-	-
MICRO BITCOIN	0	-	-	3,430	-		0	-	-	74,447	-	-
Micro E-mini Nasdaq-100	0	0	0.0%	37,426	38,379	-2.48%	0	0	0.0%	467,156	315,543	48.0%
MICRO E-MINI NASDAQ 100	0	0	0.0%	10,134	11,191	-9.45%	0	0	0.0%	126,266	67,619	86.7%
Micro E-mini S&P 500	0	0	0.0%	257,197	247,514	3.91%	0	0	0.0%	2,592,494	1,804,596	43.7%
MICRO ETHER	0	-	-	30,233	-		0	-	-	272,422	-	-
S&P 500	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	200	-100.0%

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Metals Futures												
ALUMINUM	0	0	0.0%	44,827	14,256	214.44%	0	0	0.0%	368,924	135,743	171.8%
COBALT METAL FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	15	12	25.0%
COMEX COPPER	0	0	0.0%	2,471,319	1,966,288	25.68%	0	0	0.0%	20,053,074	23,211,431	-13.6%
COMEX E-Mini GOLD	0	0	0.0%	48,013	26,937	78.24%	0	0	0.0%	368,046	253,486	45.2%
COMEX E-Mini SILVER	0	0	0.0%	4,568	5,279	-13.47%	0	0	0.0%	42,932	64,421	-33.4%
COMEX GOLD	0	0	0.0%	5,319,217	5,969,316	-10.89%	0	0	0.0%	49,842,644	54,261,663	-8.1%
COMEX MINY COPPER	0	0	0.0%	4,581	8,864	-48.32%	0	0	0.0%	39,534	55,837	-29.2%
COMEX SILVER	0	0	0.0%	1,807,437	1,850,135	-2.31%	0	0	0.0%	15,673,215	18,338,970	-14.5%
COPPER	0	0	0.0%	91,994	0	0.00%	0	0	0.0%	509,134	0	0.0%
FERROUS PRODUCTS	0	0	0.0%	338	174	94.25%	0	0	0.0%	4,287	7,280	-41.1%
GOLD	0	0	0.0%	793	15,281	-94.81%	0	0	0.0%	60,783	90,337	-32.7%
HOT ROLLED COIL STEEL FUT	0	0	0.0%	1,486	422	252.13%	0	0	0.0%	9,408	2,075	353.4%
IRON ORE 62 CHINA TSI FUTU	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
IRON ORE CHINA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	16	-100.0%
METALS	0	0	0.0%	15	0	0.00%	0	0	0.0%	121	0	0.0%
MICRO GOLD	0	0	0.0%	1,020,946	1,271,788	-19.72%	0	0	0.0%	11,701,858	13,194,542	-11.3%
NYMEX HOT ROLLED STEEL	0	0	0.0%	6,510	2,182	198.35%	0	0	0.0%	57,759	44,468	29.9%
NYMEX PLATINUM	0	0	0.0%	415,479	354,641	17.15%	0	0	0.0%	4,515,771	3,904,945	15.6%
PALLADIUM	0	0	0.0%	76,956	81,913	-6.05%	0	0	0.0%	511,424	539,833	-5.3%
SILVER	0	0	0.0%	199,205	131,283	51.74%	0	0	0.0%	1,819,846	2,101,191	-13.4%
URANIUM	0	0	0.0%	0	0	0.00%	0	0	0.0%	24	543	-95.6%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
Metals Options												
ALUMINUM	0	0	0.0%	282	0	0.00%	0	0	0.0%	737	0	0.0%
COMEX COPPER	0	0	0.0%	85,087	33,179	156.45%	0	0	0.0%	681,730	451,680	50.9%
COMEX GOLD	0	0	0.0%	663,392	716,061	-7.36%	0	0	0.0%	7,924,868	6,484,095	22.2%
COMEX SILVER	0	0	0.0%	163,609	104,964	55.87%	0	0	0.0%	1,194,576	1,471,653	-18.8%
COPPER	0	0	0.0%	4,894	139	3,420.86%	0	0	0.0%	23,375	338	6,815.7%
GOLD	0	0	0.0%	217,843	223,510	-2.54%	0	0	0.0%	2,296,354	1,796,817	27.8%
HOT ROLLED COIL STEEL CAL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HOT ROLLED COIL STEEL PUT	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
IRON ORE 62 CHINA TSI CALL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
IRON ORE 62 CHINA TSI PUT O	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
IRON ORE CHINA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX HOT ROLLED STEEL	0	0	0.0%	20	0	0.00%	0	0	0.0%	20	0	0.0%
NYMEX PLATINUM	0	0	0.0%	782	805	-2.86%	0	0	0.0%	5,624	5,664	-0.7%
PALLADIUM	0	0	0.0%	3	18	-83.33%	0	0	0.0%	138	710	-80.6%
SILVER	0	0	0.0%	44,309	17,229	157.18%	0	0	0.0%	236,787	127,880	85.2%
Energy Futures												
3.5% FUEL OIL CID MED SWA	-	0	0.0%	-	0	0.00%	-	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%
ARGUS LLS VS. WTI (ARG) T	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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	0.00%	-	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 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%	1,447,144	2,192,531	-34.00%	0	0	0.0%	15,934,541	22,232,764	-28.3%
CAR VINTAGE	0	0	0.0%	5,715	3,593	59.06%	0	0	0.0%	66,128	20,789	218.1%
CHICAGO ETHANOL SWAP	0	0	0.0%	273	487	-43.94%	0	0	0.0%	1,776	3,832	-53.7%
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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
Energy Futures												
CIG BASIS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CIN HUB 5MW D AH PK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CIN HUB 5MW REAL TIME O P	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CIN HUB 5MW REAL TIME PK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
COLUMB GULF MAINLINE NG B	-	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%	5	0	0.00%	0	0	0.0%	80	31	158.1%
CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL LAST DAY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	0	0	0.0%	419	0	0.00%	0	0	0.0%	609	0	0.0%
CRUDE OIL PHY	0	0	0.0%	18,320,676	24,621,935	-25.59%	0	0	0.0%	215,440,428	233,094,411	-7.6%
CRUDE OIL SPRDS	0	0	0.0%	144	0	0.00%	0	0	0.0%	179	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%
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	0.00%	-	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%	0	1,368	-100.00%	0	0	0.0%	10,828	390,316	-97.2%
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%	12	1	1,100.0%
ELEC FINSETTLED	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%
EMMISSIONS	0	-	-	3,391	-		0	-	-	22,428	-	-
ETHANOL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	262	-100.0%
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 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	0.00%	-	0	0.0%	-	0	0.0%
EURO GASOIL 10 CAL SWAP	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
Energy Futures												
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	0.00%	-	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%	51	116	-56.03%	0	0	0.0%	2,556	570	348.4%
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%
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	0.00%	-	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 0.1CIF MED VS ICE	0	0	0.0%	0	0	0.00%	0	0	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 10PPM VS ICE 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%
GERMAN POWER BASELOAD	0	0	0.0%	0	6	-100.00%	0	0	0.0%	0	142	-100.0%
GROUP THREE UNLEAD GAS (-	0	0.0%	-	0	0.00%	-	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%
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%

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CME Group Exchange Volume Comparison Report - Monthly

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Energy Futures												
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	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL PHY	0	0	0.0%	2,589,043	3,692,975	-29.89%	0	0	0.0%	35,566,738	33,890,091	4.9%
HENRY HUB BASIS SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HENRY HUB FINANCIAL LAST	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HENRY HUB INDEX SWAP FUT	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HENRY HUB SWAP	0	0	0.0%	382	0	0.00%	0	0	0.0%	1,852	31	5,874.2%
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%
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%
INDIANA MISO	0	0	0.0%	0	0	0.00%	0	0	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%
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 CIF NWE VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET FUEL UP-DOWN BALMO C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JKM LNG Futures	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA CARB DIESEL (OPIS) 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 (OPIS) SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS (ARGUS) CALENDAR SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LOS ANGELES CARB GASOLIN	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
LTD NAT GAS	0	0	0.0%	242,969	254,937	-4.69%	0	0	0.0%	2,645,830	2,590,692	2.1%
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%	0	0	0.0%
MARS BLEND CRUDE OIL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	590	729	-19.07%	0	0	0.0%	6,849	22,011	-68.9%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	30	-100.00%	0	0	0.0%	140	247	-43.3%
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	0.00%	-	0	0.0%	-	0	0.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
Energy Futures												
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%	13	9	44.44%	0	0	0.0%	99	70	41.4%
MINY NATURAL GAS	0	0	0.0%	325,450	326,126	-0.21%	0	0	0.0%	3,410,977	2,110,945	61.6%
MINY RBOB GAS	0	0	0.0%	5	8	-37.50%	0	0	0.0%	95	94	1.1%
MINY WTI CRUDE OIL	0	0	0.0%	432,710	618,678	-30.06%	0	0	0.0%	6,554,053	4,781,553	37.1%
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	18	-100.00%	0	0	0.0%	310	343	-9.6%
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%	102	6	1,600.00%	0	0	0.0%	629	500	25.8%
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%	53	0	0.00%	0	0	0.0%	274	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	40	-100.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS	0	0	0.0%	36,117	60,148	-39.95%	0	0	0.0%	465,150	595,213	-21.9%
NATURAL GAS PEN SWP	0	0	0.0%	4	0	0.00%	0	0	0.0%	4	133	-97.0%
NATURAL GAS PHY	0	0	0.0%	6,829,393	7,411,282	-7.85%	0	0	0.0%	77,016,182	88,277,423	-12.8%
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	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL NE MASS 5MW D AH	-	0	0.0%	-	0	0.00%	-	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	0.00%	-	0	0.0%	-	0	0.0%
NGPL TEX/OK	-	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%
NO 2 UP-DOWN SPREAD CALE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NORTHWEST ROCKIES BASIS	-	0	0.0%	-	0	0.00%	-	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 HARBOR 1% FUEL OIL BAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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CME Group Exchange Volume Comparison Report - Monthly

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Energy Futures												
NY HARBOR HEAT OIL SWP	0	0	0.0%	0	11	-100.00%	0	0	0.0%	72	35	105.7%
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%
NYH NO 2 CRACK SPREAD CA	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 ZONE A 5MW D AH O P	-	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	0.00%	-	0	0.0%	-	0	0.0%
NYISO ZONE J 5MW D AH PK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYMEX ALUMINUM FUTURES	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYMEX ULSD VS NYMEX HO	-	0	0.0%	-	0	0.00%	-	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%
PANHANDLE BASIS SWAP FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PERMIAN BASIS SWAP	-	0	0.0%	-	0	0.00%	-	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	50	-100.0%
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 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	0.00%	-	0	0.0%	-	0	0.0%
PJM DAYTON DA PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM MONTHLY	-	0	0.0%	-	0	0.00%	-	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 PECO ZONE5MW PEAK C	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM PSEG DA OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM PSEG DA PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM WESTH DA OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM WESTHDA PEAK	-	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 NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
Energy Futures												
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%
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	-	-
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%	2,749,107	3,974,823	-30.84%	0	0	0.0%	36,591,455	42,462,006	-13.8%
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	0.00%	-	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 180 CS	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	0	0.0%
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	0.00%	-	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 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	0	0.0%
Sumas Basis Swap	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TC2 ROTTERDAM TO USAC 37	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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	0.00%	-	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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
Energy Futures												
TEXAS EASTERN ZONE M-3 BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TRANSCO ZONE4 BASIS SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
UK NBP NAT GAS CAL MTH FU	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2,535	-100.0%
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	0.00%	-	0	0.0%	-	0	0.0%
WTI-BRENT BULLET SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
WTI-BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI CALENDAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI MIDLAND CRUDE OIL	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%
Energy Options												
BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT CRUDE OIL 1 M CSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	4,802	2,087	130.09%	0	0	0.0%	35,379	33,397	5.9%
COAL API2 INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL 1MO	0	0	0.0%	3,675	3,300	11.36%	0	0	0.0%	36,333	45,480	-20.1%
CRUDE OIL APO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL CALNDR STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	0	-	-	7,184	-	-	0	-	-	12,785	-	-
CRUDE OIL PHY	0	0	0.0%	1,936,153	2,971,908	-34.85%	0	0	0.0%	22,068,736	22,751,090	-3.0%
ELEC FINSETTLED	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%
FREIGHT MARKETS	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%	2,438	4,002	-39.08%	0	0	0.0%	24,977	24,414	2.3%
HENRY HUB FINANCIAL LAST	0	0	0.0%	4,308	0	0.00%	0	0	0.0%	10,464	40	26,060.0%
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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
Energy Options												
MCCLOSKY ARA ARG5 COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MCCLOSKY RCH BAY COAL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NATURAL GAS	0	-	-	0	-		0	-	-	4,743	-	-
NATURAL GAS 1 M CSO FIN	0	0	0.0%	2,550	2,300	10.87%	0	0	0.0%	8,800	13,034	-32.5%
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%	800	200	300.0%
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	400	-100.00%	0	0	0.0%	0	400	-100.0%
NATURAL GAS OPT	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%	867,244	721,454	20.21%	0	0	0.0%	10,792,465	13,268,330	-18.7%
NATURAL GAS SUMMER STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS WINTER STRIP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
N ROCKIES PIPE SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	1,187	17	6,882.35%	0	0	0.0%	3,068	672	356.5%
PETROCHEMICALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	12	75	-84.0%
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	-	-
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB PHY	0	0	0.0%	209	2,307	-90.94%	0	0	0.0%	9,343	23,154	-59.6%
SAN JUAN PIPE SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SHORT TERM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SHORT TERM NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	550	100	450.00%	0	0	0.0%	10,570	10,100	4.7%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	685	-100.00%	0	0	0.0%	571	2,075	-72.5%
FX Futures												
AD/CD CROSS RATES	0	0	0.0%	217	0	0.00%	0	0	0.0%	736	172	327.9%

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CME Group Exchange Volume Comparison Report - Monthly

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FX Futures												
AD/JY CROSS RATES	0	0	0.0%	2,605	3,099	-15.94%	0	0	0.0%	48,106	24,709	94.7%
AD/NE CROSS RATES	0	0	0.0%	1,791	507	253.25%	0	0	0.0%	40,723	3,501	1,063.2%
AUSTRALIAN DOLLAR	0	0	0.0%	2,118,822	1,809,084	17.12%	0	0	0.0%	23,301,178	22,394,791	4.0%
BP/JY CROSS RATES	0	0	0.0%	2,724	2,498	9.05%	0	0	0.0%	48,562	27,338	77.6%
BP/SF CROSS RATES	0	0	0.0%	1,146	1,391	-17.61%	0	0	0.0%	23,029	8,900	158.8%
BRAZIL REAL	0	0	0.0%	367,245	215,405	70.49%	0	0	0.0%	3,175,168	2,528,221	25.6%
BRITISH POUND	0	0	0.0%	2,369,458	2,035,010	16.43%	0	0	0.0%	28,351,672	21,677,222	30.8%
CANADIAN DOLLAR	0	0	0.0%	1,783,225	1,564,740	13.96%	0	0	0.0%	20,809,530	18,154,421	14.6%
CD/JY CROSS RATES	0	0	0.0%	29	446	-93.50%	0	0	0.0%	387	1,979	-80.4%
CHINESE RENMINBI (CNH)	0	0	0.0%	44,931	16,254	176.43%	0	0	0.0%	343,964	181,053	90.0%
CZECK KORUNA (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	19	2	850.0%
CZECK KORUNA (US)	0	0	0.0%	9	4	125.00%	0	0	0.0%	37	12	208.3%
EC/AD CROSS RATES	0	0	0.0%	3,803	2,814	35.15%	0	0	0.0%	61,004	49,892	22.3%
EC/CD CROSS RATES	0	0	0.0%	4,340	4,358	-0.41%	0	0	0.0%	84,933	74,755	13.6%
EC/NOK CROSS RATES	0	0	0.0%	1,005	128	685.16%	0	0	0.0%	19,714	6,693	194.5%
EC/SEK CROSS RATES	0	0	0.0%	1,517	355	327.32%	0	0	0.0%	24,749	6,531	278.9%
EFX/BP CROSS RATES	0	0	0.0%	65,559	37,389	75.34%	0	0	0.0%	1,030,979	604,213	70.6%
EFX/JY CROSS RATES	0	0	0.0%	26,131	38,076	-31.37%	0	0	0.0%	577,829	462,363	25.0%
EFX/SF CROSS RATES	0	0	0.0%	13,899	23,119	-39.88%	0	0	0.0%	414,482	256,908	61.3%
E-MICRO USD/CAD	0	0	0.0%	76	490	-84.49%	0	0	0.0%	1,914	2,194	-12.8%
E-MICRO USD/CHF	0	0	0.0%	27	49	-44.90%	0	0	0.0%	766	132	480.3%
E-MICRO USD/JPY	0	0	0.0%	1,200	5,033	-76.16%	0	0	0.0%	152,361	7,954	1,815.5%
E-MINI EURO FX	0	0	0.0%	186,774	109,017	71.33%	0	0	0.0%	1,708,126	1,304,128	31.0%
E-MINI JAPANESE YEN	0	0	0.0%	9,960	8,505	17.11%	0	0	0.0%	131,656	101,281	30.0%
EURO FX	0	0	0.0%	4,660,219	3,925,540	18.72%	0	0	0.0%	54,807,710	43,582,489	25.8%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	3	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	6	6	0.00%	0	0	0.0%	48	177	-72.9%
INDIAN RUPEE	0	0	0.0%	33,070	16,976	94.80%	0	0	0.0%	299,751	156,242	91.9%
JAPANESE YEN	0	0	0.0%	3,024,617	2,469,996	22.45%	0	0	0.0%	35,783,701	24,680,849	45.0%
KOREAN WON	0	0	0.0%	336	396	-15.15%	0	0	0.0%	3,711	12,218	-69.6%
MEXICAN PESO	0	0	0.0%	1,218,473	1,102,997	10.47%	0	0	0.0%	13,447,232	12,121,403	10.9%
MICRO AUD/USD	0	0	0.0%	271,953	314,611	-13.56%	0	0	0.0%	2,916,229	2,381,001	22.5%
MICRO CAD/USD	0	0	0.0%	80,400	55,396	45.14%	0	0	0.0%	694,035	618,530	12.2%
MICRO CHF/USD	0	0	0.0%	15,839	10,691	48.15%	0	0	0.0%	189,941	97,489	94.8%

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FX Futures												
MICRO EUR/USD	0	0	0.0%	873,666	580,150	50.59%	0	0	0.0%	8,796,529	5,383,743	63.4%
MICRO GBP/USD	0	0	0.0%	126,339	146,207	-13.59%	0	0	0.0%	1,379,196	916,302	50.5%
MICRO INR/USD	0	0	0.0%	764	738	3.52%	0	0	0.0%	7,807	18,272	-57.3%
MICRO JPY/USD	0	0	0.0%	0	86,243	-100.00%	0	0	0.0%	101,719	432,297	-76.5%
MICRO USD/CNH	0	0	0.0%	0	0	0.00%	0	0	0.0%	2	36	-94.4%
NEW ZEALND DOLLAR	0	0	0.0%	609,881	489,622	24.56%	0	0	0.0%	7,115,365	6,441,738	10.5%
NKR/USD CROSS RATE	0	0	0.0%	1,386	3,543	-60.88%	0	0	0.0%	29,909	49,212	-39.2%
POLISH ZLOTY (EC)	0	0	0.0%	6	26	-76.92%	0	0	0.0%	1,219	1,402	-13.1%
POLISH ZLOTY (US)	0	0	0.0%	2,087	750	178.27%	0	0	0.0%	15,610	9,569	63.1%
RMB USD	0	0	0.0%	0	0	0.00%	0	0	0.0%	29	3	866.7%
RUSSIAN RUBLE	0	0	0.0%	0	173,500	-100.00%	0	0	0.0%	576,766	1,251,845	-53.9%
S.AFRICAN RAND	0	0	0.0%	67,749	73,736	-8.12%	0	0	0.0%	974,401	647,802	50.4%
SF/JY CROSS RATES	0	0	0.0%	1,236	50	2,372.00%	0	0	0.0%	6,832	379	1,702.6%
SHEKEL	0	0	0.0%	6	25	-76.00%	0	0	0.0%	153	44	247.7%
SKR/USD CROSS RATES	0	0	0.0%	5,327	4,601	15.78%	0	0	0.0%	68,323	53,993	26.5%
SWISS FRANC	0	0	0.0%	450,688	541,407	-16.76%	0	0	0.0%	5,912,606	5,454,417	8.4%
TURKISH LIRA	0	0	0.0%	0	0	0.00%	0	0	0.0%	26	8	225.0%
USDZAR	0	0	0.0%	0	1,207	-100.00%	0	0	0.0%	31	1,279	-97.6%
FX Options												
AUD/USD MONDAY OPTION W	0	0	0.0%	89	1,969	-95.48%	0	0	0.0%	1,848	6,223	-70.3%
AUD/USD MONDAY OPTION W	0	0	0.0%	43	150	-71.33%	0	0	0.0%	3,304	3,876	-14.8%
AUD/USD MONDAY OPTION W	0	0	0.0%	417	153	172.55%	0	0	0.0%	2,837	4,137	-31.4%
AUD/USD MONDAY OPTION W	0	0	0.0%	346	12	2,783.33%	0	0	0.0%	3,580	4,524	-20.9%
AUD/USD MONDAY OPTION W	0	0	0.0%	0	986	-100.00%	0	0	0.0%	1,363	2,356	-42.1%
AUD/USD MONTHLY OPTIONS	0	0	0.0%	64,366	58,760	9.54%	0	0	0.0%	746,648	551,993	35.3%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	896	0	0.00%	0	0	0.0%	5,468	7,231	-24.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,043	3,424	-40.33%	0	0	0.0%	17,041	20,099	-15.2%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,242	2,484	-50.00%	0	0	0.0%	20,652	29,176	-29.2%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	878	3,885	-77.40%	0	0	0.0%	16,990	33,182	-48.8%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	164	-100.00%	0	0	0.0%	5,196	8,805	-41.0%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	50	1,083	-95.38%	0	0	0.0%	6,111	12,878	-52.5%

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FX Options												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,003	344	191.57%	0	0	0.0%	5,674	8,190	-30.7%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	33	71	-53.52%	0	0	0.0%	2,190	3,139	-30.2%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	849	516	64.53%	0	0	0.0%	5,584	9,585	-41.7%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	380	0	0.00%	0	0	0.0%	958	1,985	-51.7%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	233	697	-66.57%	0	0	0.0%	3,276	3,988	-17.9%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,819	1,444	25.97%	0	0	0.0%	4,337	10,339	-58.1%
CAD/USD MONDAY OPTIONS	0	0	0.0%	796	708	12.43%	0	0	0.0%	11,508	16,428	-29.9%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,403	378	271.16%	0	0	0.0%	11,449	10,682	7.2%
CAD/USD MONDAY OPTIONS	0	0	0.0%	190	386	-50.78%	0	0	0.0%	7,207	22,893	-68.5%
CAD/USD MONDAY OPTIONS	0	0	0.0%	0	1,224	-100.00%	0	0	0.0%	2,775	4,371	-36.5%
CAD/USD MONTHLY OPTIONS	0	0	0.0%	99,626	69,446	43.46%	0	0	0.0%	699,872	758,714	-7.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,298	0	0.00%	0	0	0.0%	16,217	27,536	-41.1%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,638	8,738	-69.81%	0	0	0.0%	36,120	54,502	-33.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,762	7,527	-50.02%	0	0	0.0%	56,559	84,257	-32.9%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,846	4,468	-36.30%	0	0	0.0%	48,629	97,518	-50.1%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	6	120	-95.00%	0	0	0.0%	12,626	28,139	-55.1%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	746	2,089	-64.29%	0	0	0.0%	10,910	23,281	-53.1%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	783	2,043	-61.67%	0	0	0.0%	12,808	20,414	-37.3%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	459	4,169	-88.99%	0	0	0.0%	15,026	24,336	-38.3%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	810	945	-14.29%	0	0	0.0%	16,624	27,286	-39.1%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,038	0	0.00%	0	0	0.0%	5,512	9,035	-39.0%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	3,646	5,493	-33.62%	0	0	0.0%	46,455	60,969	-23.8%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	166	0	0.00%	0	0	0.0%	1,155	411	181.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	36	1,091	-96.70%	0	0	0.0%	937	3,383	-72.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	249	83	200.00%	0	0	0.0%	1,296	1,965	-34.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	162	377	-57.03%	0	0	0.0%	1,399	2,808	-50.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	83	3	2,666.67%	0	0	0.0%	200	285	-29.8%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	204	6	3,300.0%
EUR/GBP WKLY FRIDAY OPTIC	0	0	0.0%	0	100	-100.00%	0	0	0.0%	0	100	-100.0%
EURODOLLARS	0	-	-	3,332	-		0	-	-	6,842	-	-
EUR/USD MONDAY OPTION W	0	0	0.0%	1,033	785	31.59%	0	0	0.0%	20,287	20,167	0.6%
EUR/USD MONDAY OPTION W	0	0	0.0%	3,017	714	322.55%	0	0	0.0%	27,974	17,688	58.2%
EUR/USD MONDAY OPTION W	0	0	0.0%	1,962	1,005	95.22%	0	0	0.0%	12,385	16,593	-25.4%
EUR/USD MONDAY OPTION W	0	0	0.0%	638	4,924	-87.04%	0	0	0.0%	26,946	30,888	-12.8%

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FX Options												
EUR/USD MONDAY OPTION W	0	0	0.0%	0	3,149	-100.00%	0	0	0.0%	5,022	9,094	-44.8%
EUR/USD MONTHLY OPTIONS	0	0	0.0%	327,101	193,747	68.83%	0	0	0.0%	2,808,639	2,139,124	31.3%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	13,182	0	0.00%	0	0	0.0%	63,586	49,464	28.6%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,794	29,497	-70.19%	0	0	0.0%	143,961	155,371	-7.3%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	18,883	32,767	-42.37%	0	0	0.0%	177,380	231,849	-23.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	12,137	15,676	-22.58%	0	0	0.0%	185,746	198,652	-6.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	9	163	-94.48%	0	0	0.0%	58,038	85,936	-32.5%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	3,254	8,027	-59.46%	0	0	0.0%	69,663	73,417	-5.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,111	8,553	-40.24%	0	0	0.0%	60,452	77,081	-21.6%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,963	9,834	-39.36%	0	0	0.0%	59,321	75,072	-21.0%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,767	10,056	-42.65%	0	0	0.0%	70,415	98,580	-28.6%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	3,037	0	0.00%	0	0	0.0%	23,274	25,392	-8.3%
GBP/USD MONDAY OPTION W	0	0	0.0%	688	239	187.87%	0	0	0.0%	5,977	4,639	28.8%
GBP/USD MONDAY OPTION W	0	0	0.0%	451	729	-38.13%	0	0	0.0%	11,163	6,677	67.2%
GBP/USD MONDAY OPTION W	0	0	0.0%	643	828	-22.34%	0	0	0.0%	3,826	4,859	-21.3%
GBP/USD MONDAY OPTION W	0	0	0.0%	483	1,153	-58.11%	0	0	0.0%	6,192	6,708	-7.7%
GBP/USD MONDAY OPTION W	0	0	0.0%	0	584	-100.00%	0	0	0.0%	3,321	1,238	168.3%
GBP/USD MONTHLY OPTIONS	0	0	0.0%	62,468	67,254	-7.12%	0	0	0.0%	832,860	799,891	4.1%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,615	0	0.00%	0	0	0.0%	9,122	12,239	-25.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,471	7,242	-52.07%	0	0	0.0%	25,874	31,654	-18.3%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	6,609	4,422	49.46%	0	0	0.0%	33,684	32,701	3.0%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,944	3,184	-38.94%	0	0	0.0%	27,695	38,746	-28.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	62	29	113.79%	0	0	0.0%	8,831	10,444	-15.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	661	1,288	-48.68%	0	0	0.0%	13,289	12,989	2.3%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	509	1,383	-63.20%	0	0	0.0%	5,341	8,166	-34.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,054	2,006	-47.46%	0	0	0.0%	10,933	8,777	24.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	803	2,645	-69.64%	0	0	0.0%	10,871	14,323	-24.1%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	650	0	0.00%	0	0	0.0%	1,320	2,591	-49.1%
JPY/USD MONDAY OPTION WE	0	0	0.0%	88	121	-27.27%	0	0	0.0%	6,782	3,973	70.7%
JPY/USD MONDAY OPTION WE	0	0	0.0%	1,563	136	1,049.26%	0	0	0.0%	9,428	6,147	53.4%
JPY/USD MONDAY OPTION WE	0	0	0.0%	109	208	-47.60%	0	0	0.0%	3,085	4,100	-24.8%
JPY/USD MONDAY OPTION WE	0	0	0.0%	289	640	-54.84%	0	0	0.0%	12,444	4,669	166.5%
JPY/USD MONDAY OPTION WE	0	0	0.0%	0	200	-100.00%	0	0	0.0%	967	2,897	-66.6%
JPY/USD MONTHLY OPTIONS	0	0	0.0%	74,881	79,469	-5.77%	0	0	0.0%	1,367,549	891,601	53.4%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
FX Options												
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	5,796	0	0.00%	0	0	0.0%	37,624	28,297	33.0%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	6,686	17,151	-61.02%	0	0	0.0%	86,274	68,900	25.2%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	10,842	13,213	-17.94%	0	0	0.0%	124,734	109,127	14.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	3,501	7,843	-55.36%	0	0	0.0%	112,335	99,197	13.2%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	21	310	-93.23%	0	0	0.0%	37,070	36,637	1.2%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	1,728	5,984	-71.12%	0	0	0.0%	42,323	34,295	23.4%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,165	6,053	-47.71%	0	0	0.0%	39,469	42,157	-6.4%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,992	7,142	-58.11%	0	0	0.0%	35,010	38,889	-10.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,101	6,799	-69.10%	0	0	0.0%	46,248	38,684	19.6%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,561	0	0.00%	0	0	0.0%	14,891	7,879	89.0%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	954	972	-1.85%	0	0	0.0%	7,819	15,504	-49.6%
MXN/USD WKLY FRIDAY OPTI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	300	-100.00%	0	0	0.0%	17	904	-98.1%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	100	0	0.00%	0	0	0.0%	100	552	-81.9%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	631	-100.0%
MXN/USD WKLY FRIDAY OPTI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NZD/USD MONTHLY OPTIONS	0	0	0.0%	4	587	-99.32%	0	0	0.0%	684	2,498	-72.6%
NZD/USD WKLY FRIDAY OPTIO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	67	-100.0%
NZD/USD WKLY FRIDAY OPTIO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
RUB/USD MONTHLY OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	68	-100.0%
Ags Futures												
FERTILIZER PRODUCS	0	0	0.0%	1	0	0.00%	0	0	0.0%	8	54	-85.2%
Foreign Exchange Futures												
CHILEAN PESO	0	-	-	0	-		0	-	-	24	-	-

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
Foreign Exchange Options												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	63	570	-88.95%	0	0	0.0%	3,410	5,103	-33.2%
Ag Products Futures												
BLOCK CHEESE	0	0	0.0%	189	270	-30.00%	0	0	0.0%	2,798	6,604	-57.6%
BUTTER CS	0	0	0.0%	3,733	3,812	-2.07%	0	0	0.0%	43,973	42,427	3.6%
CASH-SETTLED CHEESE	0	0	0.0%	9,198	15,286	-39.83%	0	0	0.0%	103,013	129,521	-20.5%
CAT ASIA WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CATTLE	0	0	0.0%	1,200,984	1,271,639	-5.56%	0	0	0.0%	13,221,236	12,954,303	2.1%
CAT WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHI WHEAT	0	0	0.0%	2,527,533	2,976,832	-15.09%	0	0	0.0%	24,355,031	28,147,599	-13.5%
CLASS IV MILK	0	0	0.0%	1,129	3,996	-71.75%	0	0	0.0%	23,997	17,272	38.9%
COFFEE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2	-100.0%
CORN	0	0	0.0%	6,953,817	7,751,244	-10.29%	0	0	0.0%	70,806,205	79,348,854	-10.8%
COTTON	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
DJ_UBS ROLL SELECT INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	22	-100.0%
DOW-UBS COMMOD INDEX	0	0	0.0%	12,777	23,156	-44.82%	0	0	0.0%	437,431	528,022	-17.2%
DOW-UBS COMMOD INDEX SW	-	-	-	-	-		0	-	-	0	-	-
DRY WHEY	0	0	0.0%	669	1,565	-57.25%	0	0	0.0%	9,667	21,058	-54.1%
FEEDER CATTLE	0	0	0.0%	277,193	233,821	18.55%	0	0	0.0%	3,101,725	2,829,056	9.6%
FERTILIZER PRODUCS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	2,194	5,090	-56.90%	0	0	0.0%	30,544	89,871	-66.0%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	91	151	-39.7%
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	0	0	0.0%	943,827	968,318	-2.53%	0	0	0.0%	10,580,799	10,646,941	-0.6%
HOUSING INDEX	0	0	0.0%	17	20	-15.00%	0	0	0.0%	173	152	13.8%
Intercommodity Spread	-	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 NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
Ag Products Futures												
KC WHEAT	0	0	0.0%	854,091	1,360,086	-37.20%	0	0	0.0%	9,610,375	11,873,619	-19.1%
LUMBER	0	0	0.0%	8,308	7,269	14.29%	0	0	0.0%	97,456	104,964	-7.2%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	0	0	0.0%	25,536	31,211	-18.18%	0	0	0.0%	304,740	272,213	11.9%
MINI CORN	0	0	0.0%	32,046	47,322	-32.28%	0	0	0.0%	583,477	666,962	-12.5%
MINI SOYBEAN	0	0	0.0%	39,521	41,496	-4.76%	0	0	0.0%	643,960	617,112	4.4%
MINI WHEAT	0	0	0.0%	25,922	24,649	5.16%	0	0	0.0%	306,273	230,527	32.9%
MLK MID OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NFD MILK	0	0	0.0%	4,838	5,480	-11.72%	0	0	0.0%	61,686	59,018	4.5%
OATS	0	0	0.0%	11,296	19,040	-40.67%	0	0	0.0%	95,937	125,906	-23.8%
PACIFIC RIM DAT SS WTHR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PORK CUTOUT	0	0	0.0%	1,489	2,221	-32.96%	0	0	0.0%	22,861	26,382	-13.3%
ROUGH RICE	0	0	0.0%	18,120	19,145	-5.35%	0	0	0.0%	207,478	181,819	14.1%
SOYBEAN	0	0	0.0%	3,377,919	3,487,361	-3.14%	0	0	0.0%	44,613,430	46,196,903	-3.4%
SOYBEAN MEAL	0	0	0.0%	2,545,523	2,947,625	-13.64%	0	0	0.0%	24,447,059	23,542,585	3.8%
SOYBEAN OIL	0	0	0.0%	2,951,519	2,755,785	7.10%	0	0	0.0%	26,342,657	29,491,002	-10.7%
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	0.00%	-	0	0.0%	-	0	0.0%
USD CRUDE PALM OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WHEAT	0	0	0.0%	0	2,238	-100.00%	0	0	0.0%	6,012	33,611	-82.1%
Ag Products Options												
AUG-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	212	0	0.0%
BLOCK CHEESE	0	0	0.0%	0	0	0.00%	0	0	0.0%	2,515	2,964	-15.1%
BUTTER CS	0	0	0.0%	2,185	1,862	17.35%	0	0	0.0%	16,191	20,961	-22.8%
CASH-SETTLED CHEESE	0	0	0.0%	4,646	5,395	-13.88%	0	0	0.0%	67,370	67,160	0.3%
CATTLE	0	0	0.0%	204,546	238,747	-14.33%	0	0	0.0%	2,331,010	2,119,230	10.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHI WHEAT	0	0	0.0%	548,118	765,756	-28.42%	0	0	0.0%	6,537,382	5,332,217	22.6%
CLASS IV MILK	0	0	0.0%	8,096	7,926	2.14%	0	0	0.0%	81,994	47,220	73.6%
CORN	0	0	0.0%	1,858,813	1,931,686	-3.77%	0	0	0.0%	28,352,251	30,110,146	-5.8%

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CME Group Exchange Volume Comparison Report - Monthly

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Ag Products Options												
CORN NEARBY+2 CAL SPRD	0	0	0.0%	16,426	14,304	14.84%	0	0	0.0%	236,950	139,200	70.2%
DEC-DEC CORN CAL SPRD	0	0	0.0%	0	800	-100.00%	0	0	0.0%	0	3,717	-100.0%
DEC-JULY CORN CAL SPRD	0	0	0.0%	3,245	1,950	66.41%	0	0	0.0%	19,106	24,185	-21.0%
DEC-JULY WHEAT CAL SPRD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
DRY WHEY	0	0	0.0%	0	45	-100.00%	0	0	0.0%	2,734	1,803	51.6%
FEEDER CATTLE	0	0	0.0%	28,770	27,336	5.25%	0	0	0.0%	389,976	243,389	60.2%
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	0	0.00%	0	0	0.0%	0	0	0.0%
HOGS	0	0	0.0%	183,582	180,669	1.61%	0	0	0.0%	2,478,029	2,230,633	11.1%
HOUSING INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	271	-100.0%
JAN-MAR SOYBEAN CSO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JAN-MAY SOYBEAN CAL SPRD	0	-	-	300	-		0	-	-	300	-	-
JULY-DEC CORN CAL SPRD	0	0	0.0%	15,032	0	0.00%	0	0	0.0%	93,952	40,105	134.3%
JULY-DEC SOYMEAL CAL SPR	0	-	-	0	-		0	-	-	845	-	-
JULY-DEC SOY OIL CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JULY-DEC WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	3,200	100	3,100.0%
JULY-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	2	0	0.0%
JULY-NOV SOYBEAN CAL SPR	0	0	0.0%	5,155	2,321	122.10%	0	0	0.0%	53,614	5,393	894.1%
KC WHEAT	0	0	0.0%	46,119	140,432	-67.16%	0	0	0.0%	754,643	783,134	-3.6%
LUMBER	0	0	0.0%	206	539	-61.78%	0	0	0.0%	4,316	7,618	-43.3%
LV CATL CSO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
MAR-DEC CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MAR-JULY CORN CAL SPRD	0	0	0.0%	8,840	3,840	130.21%	0	0	0.0%	39,445	4,290	819.5%
MAR-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	650	0	0.0%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	0	700	-100.00%	0	0	0.0%	150	700	-78.6%
MILK	0	0	0.0%	32,763	25,050	30.79%	0	0	0.0%	262,209	277,360	-5.5%
MLK MID OPTIONS	0	0	0.0%	1	12	-91.67%	0	0	0.0%	46	28	64.3%
NFD MILK	0	0	0.0%	2,579	2,053	25.62%	0	0	0.0%	38,247	36,201	5.7%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	5,260	0	0.0%
NOV-MAR SOYBEAN CSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	150	-100.0%
NOV-NOV SOYBEAN CAL SPR	-	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 NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
Ag Products Options												
OATS	0	0	0.0%	70	398	-82.41%	0	0	0.0%	1,998	3,904	-48.8%
PORK CUTOUT	0	0	0.0%	10	0	0.00%	0	0	0.0%	45	750	-94.0%
ROUGH RICE	0	0	0.0%	1,609	2,284	-29.55%	0	0	0.0%	18,936	9,458	100.2%
SEP-DEC SOYBEAN MEAL CSC	0	-	-	0	-		0	-	-	830	-	-
SOYBEAN	0	0	0.0%	787,378	1,228,673	-35.92%	0	0	0.0%	15,801,251	16,975,171	-6.9%
SOYBEAN CRUSH	0	0	0.0%	5	1	400.00%	0	0	0.0%	170	1,232	-86.2%
SOYBEAN MEAL	0	0	0.0%	179,072	357,459	-49.90%	0	0	0.0%	2,437,857	2,553,911	-4.5%
SOYBEAN OIL	0	0	0.0%	321,885	221,721	45.18%	0	0	0.0%	2,675,085	3,078,798	-13.1%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	3,350	0	0.00%	0	0	0.0%	40,509	20,274	99.8%
SOYMEAL NEARBY+2 CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,250	0	0.0%
SOY OIL NEARBY+2 CAL SPRD	0	-	-	0	-		0	-	-	1,250	-	-
WHEAT	0	0	0.0%	958	269	256.13%	0	0	0.0%	2,979	7,056	-57.8%
WHEAT-CORN ICSSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	2,522	851	196.4%
WHEAT NEARBY+2 CAL SPRD	0	0	0.0%	170	340	-50.00%	0	0	0.0%	33,937	6,185	448.7%
TOTAL FUTURES GROUP												
Interest Rate Futures	641,018	748,494	-14.4%	191,935,546	198,494,435	-3.3%	9,131,234	5,298,938	72.3%	1,949,782,288	1,643,547,531	18.6%
Equity Index Futures	0	0	0.0%	118,433,641	96,856,636	22.3%	0	0	0.0%	1,482,885,747	1,063,883,707	39.4%
Metals Futures	0	0	0.0%	11,513,684	11,698,759	-1.6%	0	0	0.0%	105,578,799	116,206,793	-9.1%
Energy Futures	0	0	0.0%	32,983,756	43,159,816	-23.6%	0	0	0.0%	393,740,274	430,477,130	-8.5%
FX Futures	0	0	0.0%	18,450,541	15,876,185	16.2%	0	0	0.0%	213,480,508	172,192,104	24.0%
Ags Futures	0	0	0.0%	1	0	0.0%	0	0	0.0%	8	54	-85.2%
Foreign Exchange Futures	0	-	-	0	-		0	-	-	24	-	-
Ag Products Futures	0	0	0.0%	21,829,388	24,005,977	-9.1%	0	0	0.0%	230,060,084	248,184,478	-7.3%
TOTAL FUTURES	641,018	748,494	-14.4%	395,146,557	390,091,808	1.3%	9,131,234	5,298,938	72.3%	4,375,527,732	3,674,491,797	19.1%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
TOTAL OPTIONS GROUP												
Equity Index Options	0	0	0.0%	24,915,883	18,750,207	32.9%	0	0	0.0%	262,717,801	160,433,672	63.8%
Interest Rate Options	15,204,651	17,757,196	-14.4%	31,258,531	33,566,961	-6.9%	177,610,864	151,779,424	17.0%	320,256,755	292,461,674	9.5%
Metals Options	0	0	0.0%	1,180,221	1,095,905	7.7%	0	0	0.0%	12,364,209	10,338,837	19.6%
Energy Options	0	0	0.0%	2,830,300	3,708,560	-23.7%	0	0	0.0%	33,019,046	36,172,461	-8.7%
FX Options	0	0	0.0%	811,142	744,541	8.9%	0	0	0.0%	8,683,628	7,739,708	12.2%
Ag Products Options	0	0	0.0%	4,263,929	5,162,568	-17.4%	0	0	0.0%	62,791,218	64,155,765	-2.1%
Foreign Exchange Options	0	0	0.0%	63	570	-88.9%	0	0	0.0%	3,410	5,103	-33.2%
TOTAL OPTIONS	15,204,651	17,757,196	-14.4%	65,260,069	63,029,312	3.5%	177,610,864	151,779,424	17.0%	699,836,067	571,307,220	22.5%
TOTAL COMBINED												
Interest Rate	15,845,669	18,505,690	-14.4%	223,194,077	232,061,396	-3.8%	186,742,098	157,078,362	18.9%	2,270,039,043	1,936,009,205	17.3%
Equity Index	0	0	0.0%	143,349,524	115,606,843	24.0%	0	0	0.0%	1,745,603,548	1,224,317,379	42.6%
Metals	0	0	0.0%	12,693,905	12,794,664	-0.8%	0	0	0.0%	117,943,008	126,545,630	-6.8%
Energy	0	0	0.0%	35,814,056	46,868,376	-23.6%	0	0	0.0%	426,759,320	466,649,591	-8.5%
FX	0	0	0.0%	19,261,683	16,620,726	15.9%	0	0	0.0%	222,164,136	179,931,812	23.5%
Ags	0	0	0.0%	1	0	0.0%	0	0	0.0%	8	54	-85.2%
Foreign Exchange	0	0	0.0%	63	570	-88.9%	0	0	0.0%	3,434	5,103	-32.7%
Ag Products	0	0	0.0%	26,093,317	29,168,545	-10.5%	0	0	0.0%	292,851,302	312,340,243	-6.2%
GRAND TOTAL	15,845,669	18,505,690	-14.4%	460,406,626	453,121,120	1.6%	186,742,098	157,078,362	18.9%	5,075,363,799	4,245,799,017	19.5%

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