



CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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%	4,958	4,289	15.60%	0	0	0.0%	51,614	27,624	-86.8%
10-YR Eris SOFR	0	0	0.0%	38	0	0.00%	0	0	0.0%	911	280	225.4%
10-YR MAC LIBOR	0	0	0.0%	25,096	97,371	-74.23%	0	0	0.0%	180,799	651,601	-72.3%
10-YR MAC SOFR	0	-	-	0	-	-	0	-	-	2	-	-
10-YR NOTE	0	0	0.0%	24,552,584	24,969,286	-1.67%	0	0	0.0%	448,216,973	455,773,489	-1.7%
10Y YIELD	0	0	0.0%	28,685	84,591	-66.09%	0	0	0.0%	1,110,232	767,618	44.6%
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%	9	670	-98.66%	0	0	0.0%	358	672	-46.7%
1-YR Eris BSBY	0	-	-	0	-	-	0	-	-	1,600	-	-
1-YR Eris SOFR	0	0	0.0%	751	4,721	-84.09%	0	0	0.0%	202,617	729,619	-72.2%
20-YR BOND	0	-	-	650	-	-	0	-	-	35,085	-	-
20-YR SWAP RATE	0	0	0.0%	0	90	-100.00%	0	0	0.0%	0	90	-100.0%
2-YR Eris LIBOR	0	0	0.0%	9,917	2,671	271.28%	0	0	0.0%	91,686	36,450	151.5%
2-YR Eris SOFR	0	0	0.0%	4,326	9,151	-52.73%	0	0	0.0%	100,807	65,419	54.1%
2-YR NOTE	0	0	0.0%	7,561,124	6,222,070	21.52%	0	0	0.0%	156,263,093	105,525,838	48.1%
2Y YIELD	0	0	0.0%	6,121	19,926	-69.28%	0	0	0.0%	94,804	54,052	75.4%
30-Year UMBS TBA Futures - 2.5	0	-	-	170	-	-	0	-	-	230	-	-
30-Year UMBS TBA Futures - 3.0	0	-	-	158	-	-	0	-	-	287	-	-
30-Year UMBS TBA Futures - 3.5	0	-	-	346	-	-	0	-	-	1,004	-	-
30-Year UMBS TBA Futures - 4.0	0	-	-	125	-	-	0	-	-	413	-	-
30-Year UMBS TBA Futures - 4.5	0	-	-	382	-	-	0	-	-	573	-	-
30-Year UMBS TBA Futures - 5.0	0	-	-	770	-	-	0	-	-	1,185	-	-
30-Year UMBS TBA Futures - 5.5	0	-	-	60	-	-	0	-	-	60	-	-
30-Year UMBS TBA Futures - 6.0	0	-	-	6	-	-	0	-	-	6	-	-
30-YR BOND	0	0	0.0%	5,428,030	6,472,691	-16.14%	0	0	0.0%	94,327,961	111,249,505	-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%	3,311	6,517	-49.19%	0	0	0.0%	109,245	29,257	273.4%
3-YR Eris BSBY	0	-	-	0	-	-	0	-	-	4	-	-
3-YR Eris LIBOR	0	0	0.0%	1,075	7,268	-85.21%	0	0	0.0%	53,188	53,965	-1.4%
3-YR Eris SOFR	0	0	0.0%	2,517	1,260	99.76%	0	0	0.0%	37,629	20,383	84.6%
3-YR NOTE	0	0	0.0%	113,597	267,789	-57.58%	0	0	0.0%	3,632,786	2,654,393	36.9%
4-YR Eris LIBOR	0	0	0.0%	635	4,708	-86.51%	0	0	0.0%	31,330	30,345	3.2%

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Interest Rate Futures												
4-YR Eris SOFR	0	0	0.0%	330	618	-46.60%	0	0	0.0%	6,987	6,568	6.4%
5-YR Eris LIBOR	0	0	0.0%	12,632	31,130	-59.42%	0	0	0.0%	246,763	279,646	-11.8%
5-YR Eris SOFR	0	0	0.0%	716	1,508	-52.52%	0	0	0.0%	23,728	6,384	271.7%
5-YR MAC LIBOR	0	0	0.0%	20,609	73,958	-72.13%	0	0	0.0%	392,309	632,003	-37.9%
5-YR NOTE	0	0	0.0%	15,917,125	15,385,797	3.45%	0	0	0.0%	312,968,316	270,665,349	15.6%
5Y YIELD	0	0	0.0%	114	6,562	-98.26%	0	0	0.0%	22,473	35,203	-36.2%
7-YR Eris LIBOR	0	0	0.0%	1,327	1,626	-18.39%	0	0	0.0%	28,268	23,692	19.3%
7-YR Eris SOFR	0	0	0.0%	134	1	13,300.00%	0	0	0.0%	604	1	60,300.0%
BSBY 3-MONTH FUTURES	0	0	0.0%	9,433	92,586	-89.81%	0	0	0.0%	566,391	488,032	16.1%
ESTR Basis Spread Futures	0	-	-	859	-	-	0	-	-	2,539	-	-
ESTR Futures	0	-	-	11,134	-	-	0	-	-	16,779	-	-
EURODOLLARS	261,091	468,202	-44.2%	9,743,986	42,478,556	-77.06%	8,035,126	5,767,140	39.3%	380,938,354	595,127,379	-36.0%
FED FUND	0	0	0.0%	4,768,707	3,466,001	37.59%	0	0	0.0%	83,400,646	27,857,616	199.4%
SOFR	264,760	0	0.0%	39,955,183	6,285,564	535.67%	1,621,959	0	0.0%	434,664,801	39,289,306	1,006.3%
SONIA	0	0	0.0%	593	1,583	-62.54%	0	0	0.0%	1,886	805,095	-99.8%
TIIE	0	0	0.0%	130	54	140.74%	0	0	0.0%	1,071	872	22.8%
Ultra 10-Year Note	0	0	0.0%	5,710,220	5,060,702	12.83%	0	0	0.0%	92,698,050	89,806,776	3.2%
ULTRA T-BOND	0	0	0.0%	3,354,979	3,021,049	11.05%	0	0	0.0%	56,509,004	54,934,999	2.9%
Interest Rate Options												
10-YR NOTE	0	0	0.0%	12,828,750	10,701,827	19.87%	0	0	0.0%	160,620,473	156,432,841	2.7%
2-YR NOTE	0	0	0.0%	259,326	52,105	397.70%	0	0	0.0%	1,210,010	235,544	413.7%
30-YR BOND	0	0	0.0%	1,972,300	2,347,962	-16.00%	0	0	0.0%	28,792,657	32,526,914	-11.5%
5-YR NOTE	0	0	0.0%	3,244,243	3,739,257	-13.24%	0	0	0.0%	57,380,908	39,307,770	46.0%
EURODOLLARS	1,503,955	6,559,496	-77.1%	6,194,816	2,709,516	128.63%	78,925,614	40,719,007	93.8%	53,316,802	20,689,479	157.7%
EURO MIDCURVE	181,026	6,928,321	-97.4%	240,944	3,719,930	-93.52%	41,560,016	124,540,924	-66.6%	21,847,289	66,530,876	-67.2%
FED FUND	0	0	0.0%	0	0	0.00%	0	0	0.0%	4,045	0	0.0%
SOFR	8,941,356	0	0.0%	2,573,699	203	1,267,732.02%	54,294,658	7,310	742,645.0%	19,304,838	1,545	1,249,404.1%
SOFR MIDCURVE	2,975,563	0	0.0%	1,222,672	1	122,267,100.00%	16,432,476	0	0.0%	6,291,033	101	6,228,645.5%
Ultra 10-Year Note	0	0	0.0%	479	16	2,893.75%	0	0	0.0%	1,330	62	2,045.2%
ULTRA T-BOND	0	0	0.0%	1,129	931	21.27%	0	0	0.0%	25,728	8,290	210.3%

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Equity Index Futures												
BITCOIN	0	0	0.0%	139,382	163,245	-14.62%	0	0	0.0%	2,545,212	2,492,300	2.1%
DJ US REAL ESTATE SECTOR	0	0	0.0%	44,908	62,732	-28.41%	0	0	0.0%	426,984	418,446	2.0%
E-mini (\$5) Dow	0	0	0.0%	3,869,551	4,214,784	-8.19%	0	0	0.0%	50,938,922	44,319,648	14.9%
E-mini FTSE China 50	0	0	0.0%	55	139	-60.43%	0	0	0.0%	7,408	898	724.9%
E-MINI MIDCAP	0	0	0.0%	335,102	423,532	-20.88%	0	0	0.0%	3,925,320	3,270,992	20.0%
E-MINI NASDAQ 100	0	0	0.0%	13,868,815	14,194,846	-2.30%	0	0	0.0%	175,992,104	139,598,255	26.1%
E-MINI RUSSELL 1000	0	0	0.0%	6,390	11,890	-46.26%	0	0	0.0%	37,301	58,977	-36.8%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	3,833	7,159	-46.46%	0	0	0.0%	52,180	40,763	28.0%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	12,382	15,176	-18.41%	0	0	0.0%	93,666	99,056	-5.4%
E-MINI RUSSELL 2000	0	0	0.0%	4,902,387	6,142,363	-20.19%	0	0	0.0%	59,498,348	51,096,171	16.4%
E-MINI S&P500	0	0	0.0%	41,838,942	43,907,557	-4.71%	0	0	0.0%	499,313,579	400,484,437	24.7%
E-MINI S&P500 ESG	0	0	0.0%	39,786	30,886	28.82%	0	0	0.0%	315,789	173,931	81.6%
ETHER	0	-	-	0	-	-	0	-	-	7	-	-
ETHER FUTURES	0	0	0.0%	76,142	90,841	-16.18%	0	0	0.0%	1,565,472	887,707	76.4%
FT-SE 100	0	0	0.0%	0	89	-100.00%	0	0	0.0%	1,528	373	309.7%
FTSE Emerging	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	5	-100.0%
IBOVESPA INDEX	0	0	0.0%	63	71	-11.27%	0	0	0.0%	688	2,570	-73.2%
MICRO BITCOIN	0	0	0.0%	116,734	419,521	-72.17%	0	0	0.0%	3,681,347	3,727,461	-1.2%
MICRO E-MINI NASDAQ 100	0	0	0.0%	23,024,785	24,614,942	-6.46%	0	0	0.0%	364,950,140	239,115,577	52.6%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	1,737,641	4,073,952	-57.35%	0	0	0.0%	32,832,497	39,150,463	-16.1%
MICRO E-MINI S&P500	0	0	0.0%	26,075,194	21,948,911	18.80%	0	0	0.0%	343,974,047	218,602,634	57.4%
MICRO ETHER	0	0	0.0%	189,653	208,324	-8.96%	0	0	0.0%	4,915,035	208,324	2,259.3%
MICRO MINI \$5 DOW	0	0	0.0%	2,908,887	3,489,548	-16.64%	0	0	0.0%	44,933,287	33,488,112	34.2%
NASDAQ-100 VOLATILITY	0	0	0.0%	807	0	0.00%	0	0	0.0%	19,362	111	17,343.2%
NASDAQ BIOTECH SECTOR	0	0	0.0%	308	198	55.56%	0	0	0.0%	2,531	5,822	-56.5%
Nearby BTIC+	0	0	0.0%	0	650	-100.00%	0	0	0.0%	5,250	1,106	374.7%
NIKKEI 225 (\$) STOCK	0	0	0.0%	131,856	154,574	-14.70%	0	0	0.0%	1,402,014	1,583,504	-11.5%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	684,932	740,644	-7.52%	0	0	0.0%	9,187,587	8,116,758	13.2%
PHLX SEMICONDUCTOR SECT	0	-	-	130	-	-	0	-	-	1,822	-	-
S&P 500	0	0	0.0%	2,278	1,200	89.83%	0	0	0.0%	10,743	14,436	-25.6%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	34,850	19,013	83.30%	0	0	0.0%	344,511	169,368	103.4%
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%	2,963	10	29,530.00%	0	0	0.0%	27,671	1,034	2,576.1%

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Equity Index Futures												
S&P 600 SMALLCAP EMINI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
S&P BIOTECHNOLOGY SECTO	0	-	-	545	-		0	-	-	9,367	-	-
S&P COMMUNICATION SERVIC	0	0	0.0%	5,608	6,098	-8.04%	0	0	0.0%	41,411	35,349	17.1%
S&P CONSUMER DISCRETION	0	0	0.0%	8,207	14,248	-42.40%	0	0	0.0%	83,425	121,184	-31.2%
S&P CONSUMER STAPLES SE	0	0	0.0%	22,940	28,109	-18.39%	0	0	0.0%	205,033	209,483	-2.1%
S&P ENERGY SECTOR	0	0	0.0%	63,186	46,478	35.95%	0	0	0.0%	538,415	346,248	55.5%
S&P FINANCIAL SECTOR	0	0	0.0%	39,273	51,577	-23.86%	0	0	0.0%	290,719	380,364	-23.6%
S&P HEALTH CARE SECTOR	0	0	0.0%	26,062	31,230	-16.55%	0	0	0.0%	213,753	196,970	8.5%
S&P INDUSTRIAL SECTOR	0	0	0.0%	25,739	18,178	41.59%	0	0	0.0%	166,506	127,565	30.5%
S&P MATERIALS SECTOR	0	0	0.0%	13,520	16,005	-15.53%	0	0	0.0%	104,348	107,154	-2.6%
S&P OIL & GAS EXPLORATION	0	-	-	240	-		0	-	-	4,875	-	-
S&P REAL ESTATE SECTOR	0	0	0.0%	22,780	8,256	175.92%	0	0	0.0%	66,715	53,646	24.4%
S&P REGIONAL BANKS SECTO	0	-	-	334	-		0	-	-	2,645	-	-
S&P RETAIL SECTOR	0	-	-	423	-		0	-	-	3,551	-	-
S&P TECHNOLOGY SECTOR	0	0	0.0%	25,368	30,868	-17.82%	0	0	0.0%	248,459	157,166	58.1%
S&P UTILITIES SECTOR	0	0	0.0%	24,647	28,478	-13.45%	0	0	0.0%	211,224	207,381	1.9%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TOPIX (USD)	0	-	-	54	-		0	-	-	84	-	-
TOPIX (YEN)	0	0	0.0%	282	3,883	-92.74%	0	0	0.0%	20,234	31,216	-35.2%
WATER INDEX FUTURES	0	0	0.0%	6	39	-84.62%	0	0	0.0%	601	986	-39.0%

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Equity Index Options												
BITCOIN OPTIONS	0	0	0.0%	567	1,109	-48.87%	0	0	0.0%	17,630	13,657	29.1%
DJIA	0	-	-	7,514	-		0	-	-	15,965	-	-
E-mini (\$5) Dow	0	0	0.0%	2,551	3,555	-28.24%	0	0	0.0%	27,737	27,353	1.4%
E-MINI NASDAQ 100	0	0	0.0%	789,875	689,271	14.60%	0	0	0.0%	11,795,188	6,981,883	68.9%
E-mini Russell 2000	0	0	0.0%	71,444	125,143	-42.91%	0	0	0.0%	1,172,463	1,160,547	1.0%
E-MINI RUSSELL 2000	0	0	0.0%	36,016	48,045	-25.04%	0	0	0.0%	386,950	385,439	0.4%
E-mini S&P 500	0	0	0.0%	8,774,607	9,864,905	-11.05%	0	0	0.0%	131,044,843	90,332,717	45.1%
E-MINI S&P500	0	0	0.0%	13,314,422	10,462,713	27.26%	0	0	0.0%	137,720,396	80,536,703	71.0%
EOM S&P 500	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2,156	-100.0%
ETHER OPTIONS	0	-	-	175	-		0	-	-	1,015	-	-
MICRO BITCOIN	0	-	-	1,073	-		0	-	-	75,520	-	-
Micro E-mini Nasdaq-100	0	0	0.0%	30,949	46,331	-33.20%	0	0	0.0%	498,105	361,874	37.6%
MICRO E-MINI NASDAQ 100	0	0	0.0%	14,446	19,346	-25.33%	0	0	0.0%	140,712	86,965	61.8%
Micro E-mini S&P 500	0	0	0.0%	251,227	274,197	-8.38%	0	0	0.0%	2,843,721	2,078,793	36.8%
MICRO ETHER	0	-	-	1,093	-		0	-	-	273,515	-	-
S&P 500	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	200	-100.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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 Futures												
ALUMINUM	0	0	0.0%	53,391	15,686	240.37%	0	0	0.0%	422,315	151,429	178.9%
COBALT METAL FUTURES	0	0	0.0%	2	0	0.00%	0	0	0.0%	17	12	41.7%
COMEX COPPER	0	0	0.0%	1,276,168	1,150,698	10.90%	0	0	0.0%	21,329,242	24,362,129	-12.4%
COMEX E-Mini GOLD	0	0	0.0%	26,372	16,417	60.64%	0	0	0.0%	394,418	269,903	46.1%
COMEX E-Mini SILVER	0	0	0.0%	4,252	3,111	36.68%	0	0	0.0%	47,184	67,532	-30.1%
COMEX GOLD	0	0	0.0%	3,184,064	3,021,383	5.38%	0	0	0.0%	53,026,708	57,283,046	-7.4%
COMEX MINY COPPER	0	0	0.0%	2,111	3,743	-43.60%	0	0	0.0%	41,645	59,580	-30.1%
COMEX SILVER	0	0	0.0%	1,106,005	990,136	11.70%	0	0	0.0%	16,779,220	19,329,106	-13.2%
COPPER	0	0	0.0%	54,574	0	0.00%	0	0	0.0%	563,708	0	0.0%
FERROUS PRODUCTS	0	0	0.0%	1,037	585	77.26%	0	0	0.0%	5,324	7,865	-32.3%
GOLD	0	0	0.0%	219	14,067	-98.44%	0	0	0.0%	61,002	104,404	-41.6%
HOT ROLLED COIL STEEL FUT	0	0	0.0%	1,214	141	760.99%	0	0	0.0%	10,622	2,216	379.3%
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%	5	0	0.00%	0	0	0.0%	126	0	0.0%
MICRO GOLD	0	0	0.0%	839,181	730,417	14.89%	0	0	0.0%	12,541,039	13,924,959	-9.9%
NYMEX HOT ROLLED STEEL	0	0	0.0%	6,578	2,977	120.96%	0	0	0.0%	64,337	47,445	35.6%
NYMEX PLATINUM	0	0	0.0%	531,902	438,471	21.31%	0	0	0.0%	5,047,673	4,343,416	16.2%
PALLADIUM	0	0	0.0%	41,373	36,054	14.75%	0	0	0.0%	552,797	575,887	-4.0%
SILVER	0	0	0.0%	180,078	96,084	87.42%	0	0	0.0%	1,999,924	2,197,275	-9.0%
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 DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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%	260	0	0.00%	0	0	0.0%	997	0	0.0%
COMEX COPPER	0	0	0.0%	65,920	26,678	147.09%	0	0	0.0%	747,650	478,358	56.3%
COMEX GOLD	0	0	0.0%	490,156	405,547	20.86%	0	0	0.0%	8,415,024	6,889,642	22.1%
COMEX SILVER	0	0	0.0%	138,868	79,161	75.42%	0	0	0.0%	1,333,444	1,550,814	-14.0%
COPPER	0	0	0.0%	5,801	97	5,880.41%	0	0	0.0%	29,176	435	6,607.1%
GOLD	0	0	0.0%	261,471	127,497	105.08%	0	0	0.0%	2,557,825	1,924,314	32.9%
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%	0	0	0.00%	0	0	0.0%	20	0	0.0%
NYMEX PLATINUM	0	0	0.0%	347	393	-11.70%	0	0	0.0%	5,971	6,057	-1.4%
PALLADIUM	0	0	0.0%	122	6	1,933.33%	0	0	0.0%	260	716	-63.7%
SILVER	0	0	0.0%	38,222	14,674	160.47%	0	0	0.0%	275,009	142,554	92.9%
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%	1,117,574	1,680,516	-33.50%	0	0	0.0%	17,052,115	23,913,280	-28.7%
CAR VINTAGE	0	0	0.0%	5,248	2,346	123.70%	0	0	0.0%	71,376	23,135	208.5%
CHICAGO ETHANOL SWAP	0	0	0.0%	10	295	-96.61%	0	0	0.0%	1,786	4,127	-56.7%
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 DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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%	0	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%	127	0	0.00%	0	0	0.0%	736	0	0.0%
CRUDE OIL PHY	0	0	0.0%	16,341,663	18,660,079	-12.42%	0	0	0.0%	231,782,091	251,754,490	-7.9%
CRUDE OIL SPRDS	0	0	0.0%	109	0	0.00%	0	0	0.0%	288	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	10,892	-100.00%	0	0	0.0%	10,828	401,208	-97.3%
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	-	-	1,144	-	-	0	-	-	23,572	-	-
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 DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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%	6	66	-90.91%	0	0	0.0%	2,562	636	302.8%
EUROPEAN NAPHTHA BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPEAN NAPHTHA CRACK S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE DATED BRENT SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE JET KERO NWE CALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE NAPHTHA CALSWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO PROPANE CIF ARA SW	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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	0	0.00%	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 CLNDF	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST JET VS NYM 2 H	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST NO.6 FUEL OIL	0	0	0.0%	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%	2,833,397	2,674,621	5.94%	0	0	0.0%	38,400,135	36,564,712	5.0%
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%	4	0	0.00%	0	0	0.0%	1,856	31	5,887.1%
HOUSTON SHIP CHANNEL BAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HTG OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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%	295,471	265,594	11.25%	0	0	0.0%	2,941,301	2,856,286	3.0%
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%	230	467	-50.75%	0	0	0.0%	7,079	22,478	-68.5%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0.00%	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 DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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%	8	13	-38.46%	0	0	0.0%	107	83	28.9%
MINY NATURAL GAS	0	0	0.0%	381,570	194,234	96.45%	0	0	0.0%	3,792,547	2,305,179	64.5%
MINY RBOB GAS	0	0	0.0%	6	13	-53.85%	0	0	0.0%	101	107	-5.6%
MINY WTI CRUDE OIL	0	0	0.0%	386,580	479,671	-19.41%	0	0	0.0%	6,940,633	5,261,224	31.9%
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	28	-100.00%	0	0	0.0%	310	371	-16.4%
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%	86	16	437.50%	0	0	0.0%	715	516	38.6%
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%	26	0	0.00%	0	0	0.0%	300	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%	10	0	0.00%	0	0	0.0%	10	40	-75.0%
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%	43,829	36,032	21.64%	0	0	0.0%	508,979	631,245	-19.4%
NATURAL GAS PEN SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	4	133	-97.0%
NATURAL GAS PHY	0	0	0.0%	7,154,003	7,522,225	-4.90%	0	0	0.0%	84,170,185	95,799,648	-12.1%
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

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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												
NY HARBOR HEAT OIL SWP	0	0	0.0%	8	2	300.00%	0	0	0.0%	80	37	116.2%
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 DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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%	2,685,906	3,181,981	-15.59%	0	0	0.0%	39,277,361	45,643,987	-13.9%
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 DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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%	1,725	959	79.87%	0	0	0.0%	37,104	34,356	8.0%
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%	575	4,150	-86.14%	0	0	0.0%	36,908	49,630	-25.6%
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	-	-	11,102	-	-	0	-	-	23,887	-	-
CRUDE OIL PHY	0	0	0.0%	1,453,456	2,121,928	-31.50%	0	0	0.0%	23,522,192	24,873,018	-5.4%
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%	2,227	3,252	-31.52%	0	0	0.0%	27,204	27,666	-1.7%
HENRY HUB FINANCIAL LAST	0	0	0.0%	12,609	14	89,964.29%	0	0	0.0%	23,073	54	42,627.8%
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 DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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 ARG S 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%	3,710	3,785	-1.98%	0	0	0.0%	12,510	16,819	-25.6%
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%	200	0	0.00%	0	0	0.0%	1,000	200	400.0%
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	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%	981,102	724,962	35.33%	0	0	0.0%	11,773,567	13,993,292	-15.9%
NATURAL GAS SUMMER STRIF	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%	291	34	755.88%	0	0	0.0%	3,359	706	375.8%
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%	184	1,399	-86.85%	0	0	0.0%	9,527	24,553	-61.2%
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%	1,650	775	112.90%	0	0	0.0%	12,220	10,875	12.4%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	250	-100.00%	0	0	0.0%	571	2,325	-75.4%
FX Futures												
AD/CD CROSS RATES	0	0	0.0%	106	74	43.24%	0	0	0.0%	842	246	242.3%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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 Futures												
AD/JY CROSS RATES	0	0	0.0%	2,141	3,753	-42.95%	0	0	0.0%	50,247	28,462	76.5%
AD/NE CROSS RATES	0	0	0.0%	1,748	349	400.86%	0	0	0.0%	42,471	3,850	1,003.1%
AUSTRALIAN DOLLAR	0	0	0.0%	2,030,390	2,101,185	-3.37%	0	0	0.0%	25,331,568	24,495,976	3.4%
BP/JY CROSS RATES	0	0	0.0%	4,388	3,798	15.53%	0	0	0.0%	52,950	31,136	70.1%
BP/SF CROSS RATES	0	0	0.0%	2,555	2,714	-5.86%	0	0	0.0%	25,584	11,614	120.3%
BRAZIL REAL	0	0	0.0%	250,092	262,717	-4.81%	0	0	0.0%	3,425,260	2,790,938	22.7%
BRITISH POUND	0	0	0.0%	2,336,619	2,458,454	-4.96%	0	0	0.0%	30,688,291	24,135,676	27.1%
CANADIAN DOLLAR	0	0	0.0%	1,884,186	1,886,774	-0.14%	0	0	0.0%	22,693,716	20,041,195	13.2%
CD/JY CROSS RATES	0	0	0.0%	81	8	912.50%	0	0	0.0%	468	1,987	-76.4%
CHINESE RENMINBI (CNH)	0	0	0.0%	40,239	21,882	83.89%	0	0	0.0%	384,203	202,935	89.3%
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	0	0.00%	0	0	0.0%	46	12	283.3%
EC/AD CROSS RATES	0	0	0.0%	8,270	8,133	1.68%	0	0	0.0%	69,274	58,025	19.4%
EC/CD CROSS RATES	0	0	0.0%	15,153	19,120	-20.75%	0	0	0.0%	100,086	93,875	6.6%
EC/NOK CROSS RATES	0	0	0.0%	1,528	1,033	47.92%	0	0	0.0%	21,242	7,726	174.9%
EC/SEK CROSS RATES	0	0	0.0%	2,620	2,622	-0.08%	0	0	0.0%	27,369	9,153	199.0%
EFX/BP CROSS RATES	0	0	0.0%	136,229	123,884	9.96%	0	0	0.0%	1,167,208	728,097	60.3%
EFX/JY CROSS RATES	0	0	0.0%	68,392	93,157	-26.58%	0	0	0.0%	646,221	555,520	16.3%
EFX/SF CROSS RATES	0	0	0.0%	35,553	43,952	-19.11%	0	0	0.0%	450,035	300,860	49.6%
E-MICRO USD/CAD	0	0	0.0%	159	900	-82.33%	0	0	0.0%	2,073	3,094	-33.0%
E-MICRO USD/CHF	0	0	0.0%	108	111	-2.70%	0	0	0.0%	874	243	259.7%
E-MICRO USD/JPY	0	0	0.0%	1,846	3,638	-49.26%	0	0	0.0%	154,207	11,592	1,230.3%
E-MINI EURO FX	0	0	0.0%	202,467	133,692	51.44%	0	0	0.0%	1,910,593	1,437,820	32.9%
E-MINI JAPANESE YEN	0	0	0.0%	12,508	5,184	141.28%	0	0	0.0%	144,164	106,465	35.4%
EURO FX	0	0	0.0%	5,967,342	5,097,665	17.06%	0	0	0.0%	60,775,052	48,680,154	24.8%
HUNGARIAN FORINT (EC)	0	0	0.0%	4	0	0.00%	0	0	0.0%	7	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	7	10	-30.00%	0	0	0.0%	55	187	-70.6%
INDIAN RUPEE	0	0	0.0%	30,647	18,218	68.22%	0	0	0.0%	330,398	174,460	89.4%
JAPANESE YEN	0	0	0.0%	3,517,212	2,360,551	49.00%	0	0	0.0%	39,300,913	27,041,400	45.3%
KOREAN WON	0	0	0.0%	140	442	-68.33%	0	0	0.0%	3,851	12,660	-69.6%
MEXICAN PESO	0	0	0.0%	1,786,552	1,145,822	55.92%	0	0	0.0%	15,233,784	13,267,225	14.8%
MICRO AUD/USD	0	0	0.0%	267,914	317,005	-15.49%	0	0	0.0%	3,184,143	2,698,006	18.0%
MICRO CAD/USD	0	0	0.0%	65,788	68,575	-4.06%	0	0	0.0%	759,823	687,105	10.6%
MICRO CHF/USD	0	0	0.0%	17,420	8,173	113.14%	0	0	0.0%	207,361	105,662	96.2%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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 Futures												
MICRO EUR/USD	0	0	0.0%	837,913	574,447	45.86%	0	0	0.0%	9,634,442	5,958,190	61.7%
MICRO GBP/USD	0	0	0.0%	100,832	109,113	-7.59%	0	0	0.0%	1,480,028	1,025,415	44.3%
MICRO INR/USD	0	0	0.0%	747	709	5.36%	0	0	0.0%	8,554	18,981	-54.9%
MICRO JPY/USD	0	0	0.0%	0	47,740	-100.00%	0	0	0.0%	101,719	480,037	-78.8%
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%	647,307	540,529	19.75%	0	0	0.0%	7,762,672	6,982,267	11.2%
NKR/USD CROSS RATE	0	0	0.0%	2,715	5,112	-46.89%	0	0	0.0%	32,624	54,324	-39.9%
POLISH ZLOTY (EC)	0	0	0.0%	235	376	-37.50%	0	0	0.0%	1,454	1,778	-18.2%
POLISH ZLOTY (US)	0	0	0.0%	1,619	1,745	-7.22%	0	0	0.0%	17,229	11,314	52.3%
RMB USD	0	0	0.0%	1	0	0.00%	0	0	0.0%	30	3	900.0%
RUSSIAN RUBLE	0	0	0.0%	0	207,254	-100.00%	0	0	0.0%	576,766	1,459,099	-60.5%
S.AFRICAN RAND	0	0	0.0%	89,109	94,293	-5.50%	0	0	0.0%	1,063,510	742,095	43.3%
SF/JY CROSS RATES	0	0	0.0%	754	65	1,060.00%	0	0	0.0%	7,586	444	1,608.6%
SHEKEL	0	0	0.0%	41	21	95.24%	0	0	0.0%	194	65	198.5%
SKR/USD CROSS RATES	0	0	0.0%	10,062	5,771	74.35%	0	0	0.0%	78,385	59,764	31.2%
SWISS FRANC	0	0	0.0%	458,387	513,470	-10.73%	0	0	0.0%	6,370,993	5,967,887	6.8%
TURKISH LIRA	0	0	0.0%	0	8	-100.00%	0	0	0.0%	26	16	62.5%
USDZAR	0	0	0.0%	0	6	-100.00%	0	0	0.0%	31	1,285	-97.6%
FX Options												
AUD/USD MONDAY OPTION W	0	0	0.0%	53	209	-74.64%	0	0	0.0%	1,901	6,432	-70.4%
AUD/USD MONDAY OPTION W	0	0	0.0%	91	489	-81.39%	0	0	0.0%	3,395	4,365	-22.2%
AUD/USD MONDAY OPTION W	0	0	0.0%	174	95	83.16%	0	0	0.0%	3,011	4,232	-28.9%
AUD/USD MONDAY OPTION W	0	0	0.0%	9	451	-98.00%	0	0	0.0%	3,589	4,975	-27.9%
AUD/USD MONDAY OPTION W	0	0	0.0%	1	0	0.00%	0	0	0.0%	1,364	2,356	-42.1%
AUD/USD MONTHLY OPTIONS	0	0	0.0%	34,000	44,465	-23.54%	0	0	0.0%	780,648	596,458	30.9%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	114	0	0.00%	0	0	0.0%	5,582	7,231	-22.8%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,006	2,019	-50.17%	0	0	0.0%	18,047	22,118	-18.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,019	2,753	-62.99%	0	0	0.0%	21,671	31,929	-32.1%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,114	1,557	-28.45%	0	0	0.0%	18,104	34,739	-47.9%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	604	883	-31.60%	0	0	0.0%	5,800	9,688	-40.1%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	102	329	-69.00%	0	0	0.0%	6,213	13,207	-53.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	280	177	58.19%	0	0	0.0%	5,954	8,367	-28.8%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	621	464	33.84%	0	0	0.0%	2,811	3,603	-22.0%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	132	786	-83.21%	0	0	0.0%	5,716	10,371	-44.9%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	0	269	-100.00%	0	0	0.0%	958	2,254	-57.5%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	42	1,068	-96.07%	0	0	0.0%	3,318	5,056	-34.4%
CAD/USD MONDAY OPTIONS	0	0	0.0%	207	1,276	-83.78%	0	0	0.0%	4,544	11,615	-60.9%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,188	1,570	-24.33%	0	0	0.0%	12,696	17,998	-29.5%
CAD/USD MONDAY OPTIONS	0	0	0.0%	201	394	-48.98%	0	0	0.0%	11,650	11,076	5.2%
CAD/USD MONDAY OPTIONS	0	0	0.0%	9	379	-97.63%	0	0	0.0%	7,216	23,272	-69.0%
CAD/USD MONDAY OPTIONS	0	0	0.0%	746	3	24,766.67%	0	0	0.0%	3,521	4,374	-19.5%
CAD/USD MONTHLY OPTIONS	0	0	0.0%	61,065	75,077	-18.66%	0	0	0.0%	760,937	833,791	-8.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	167	0	0.00%	0	0	0.0%	16,384	27,536	-40.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,179	3,278	-64.03%	0	0	0.0%	37,299	57,780	-35.4%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,700	5,714	-52.75%	0	0	0.0%	59,259	89,971	-34.1%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,640	4,485	-41.14%	0	0	0.0%	51,269	102,003	-49.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,627	4,923	-46.64%	0	0	0.0%	15,253	33,062	-53.9%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	501	1,400	-64.21%	0	0	0.0%	11,411	24,681	-53.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	218	760	-71.32%	0	0	0.0%	13,026	21,174	-38.5%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	766	1,884	-59.34%	0	0	0.0%	15,792	26,220	-39.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	395	1,942	-79.66%	0	0	0.0%	17,019	29,228	-41.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	0	655	-100.00%	0	0	0.0%	5,512	9,690	-43.1%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	2,829	21,661	-86.94%	0	0	0.0%	49,284	82,630	-40.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	5	0	0.00%	0	0	0.0%	1,160	411	182.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	172	272	-36.76%	0	0	0.0%	1,109	3,655	-69.7%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	57	99	-42.42%	0	0	0.0%	1,353	2,064	-34.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	59	382	-84.55%	0	0	0.0%	1,458	3,190	-54.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	8	22	-63.64%	0	0	0.0%	208	307	-32.2%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	100	0	0.00%	0	0	0.0%	304	6	4,966.7%
EUR/GBP WKLY FRIDAY OPTIC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	100	-100.0%
EURODOLLARS	0	-	-	6,843	-	-	0	-	-	13,685	-	-
EUR/USD MONDAY OPTION W	0	0	0.0%	411	2,307	-82.18%	0	0	0.0%	20,698	22,474	-7.9%
EUR/USD MONDAY OPTION W	0	0	0.0%	2,847	214	1,230.37%	0	0	0.0%	30,821	17,902	72.2%
EUR/USD MONDAY OPTION W	0	0	0.0%	3,206	823	289.55%	0	0	0.0%	15,591	17,416	-10.5%
EUR/USD MONDAY OPTION W	0	0	0.0%	872	917	-4.91%	0	0	0.0%	27,818	31,805	-12.5%

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CME Group Exchange Volume Comparison Report - Monthly

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FX Options												
EUR/USD MONDAY OPTION W	0	0	0.0%	720	51	1,311.76%	0	0	0.0%	5,742	9,145	-37.2%
EUR/USD MONTHLY OPTIONS	0	0	0.0%	231,672	135,217	71.33%	0	0	0.0%	3,040,311	2,274,341	33.7%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	831	0	0.00%	0	0	0.0%	64,417	49,464	30.2%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	16,967	18,298	-7.27%	0	0	0.0%	160,928	173,669	-7.3%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	25,878	22,259	16.26%	0	0	0.0%	203,258	254,108	-20.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	9,407	17,626	-46.63%	0	0	0.0%	195,153	216,278	-9.8%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	7,370	10,809	-31.82%	0	0	0.0%	65,408	96,745	-32.4%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	4,290	3,092	38.75%	0	0	0.0%	73,953	76,509	-3.3%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	4,618	5,431	-14.97%	0	0	0.0%	65,070	82,512	-21.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	4,624	4,360	6.06%	0	0	0.0%	63,945	79,432	-19.5%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	2,911	2,734	6.47%	0	0	0.0%	73,326	101,314	-27.6%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	0	2,023	-100.00%	0	0	0.0%	23,274	27,415	-15.1%
GBP/USD MONDAY OPTION W	0	0	0.0%	703	1,301	-45.96%	0	0	0.0%	6,680	5,940	12.5%
GBP/USD MONDAY OPTION W	0	0	0.0%	754	510	47.84%	0	0	0.0%	11,917	7,187	65.8%
GBP/USD MONDAY OPTION W	0	0	0.0%	997	250	298.80%	0	0	0.0%	4,823	5,109	-5.6%
GBP/USD MONDAY OPTION W	0	0	0.0%	509	130	291.54%	0	0	0.0%	6,701	6,838	-2.0%
GBP/USD MONDAY OPTION W	0	0	0.0%	418	0	0.00%	0	0	0.0%	3,739	1,238	202.0%
GBP/USD MONTHLY OPTIONS	0	0	0.0%	52,717	56,759	-7.12%	0	0	0.0%	885,577	856,650	3.4%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	633	0	0.00%	0	0	0.0%	9,755	12,239	-20.3%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,443	1,399	3.15%	0	0	0.0%	27,317	33,053	-17.4%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,217	2,175	47.91%	0	0	0.0%	36,901	34,876	5.8%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,472	3,004	-17.71%	0	0	0.0%	30,167	41,750	-27.7%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,168	2,544	24.53%	0	0	0.0%	11,999	12,988	-7.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,927	1,669	15.46%	0	0	0.0%	15,216	14,658	3.8%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,054	145	626.90%	0	0	0.0%	6,395	8,311	-23.1%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,193	1,887	-36.78%	0	0	0.0%	12,126	10,664	13.7%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,853	1,322	40.17%	0	0	0.0%	12,724	15,645	-18.7%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	0	582	-100.00%	0	0	0.0%	1,320	3,173	-58.4%
JPY/USD MONDAY OPTION WE	0	0	0.0%	329	169	94.67%	0	0	0.0%	7,111	4,142	71.7%
JPY/USD MONDAY OPTION WE	0	0	0.0%	161	202	-20.30%	0	0	0.0%	9,589	6,349	51.0%
JPY/USD MONDAY OPTION WE	0	0	0.0%	175	40	337.50%	0	0	0.0%	3,260	4,140	-21.3%
JPY/USD MONDAY OPTION WE	0	0	0.0%	57	91	-37.36%	0	0	0.0%	12,501	4,760	162.6%
JPY/USD MONDAY OPTION WE	0	0	0.0%	16	3	433.33%	0	0	0.0%	983	2,900	-66.1%
JPY/USD MONTHLY OPTIONS	0	0	0.0%	65,963	111,731	-40.96%	0	0	0.0%	1,433,512	1,003,332	42.9%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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%	831	0	0.00%	0	0	0.0%	38,455	28,297	35.9%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	2,164	14,975	-85.55%	0	0	0.0%	88,438	83,875	5.4%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	7,825	7,574	3.31%	0	0	0.0%	132,559	116,701	13.6%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	4,933	7,960	-38.03%	0	0	0.0%	117,268	107,157	9.4%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	2,174	5,043	-56.89%	0	0	0.0%	39,244	41,680	-5.8%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	5,724	2,634	117.31%	0	0	0.0%	48,047	36,929	30.1%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	5,113	4,587	11.47%	0	0	0.0%	44,582	46,744	-4.6%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,065	4,428	-8.20%	0	0	0.0%	39,075	43,317	-9.8%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,044	2,589	-21.05%	0	0	0.0%	48,292	41,273	17.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	0	2,625	-100.00%	0	0	0.0%	14,891	10,504	41.8%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	91	350	-74.00%	0	0	0.0%	7,910	15,854	-50.1%
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	0	0.00%	0	0	0.0%	17	904	-98.1%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	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%	2	13	-84.62%	0	0	0.0%	686	2,511	-72.7%
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%
ZAR/USD MONTHLY OPTIONS	0	-	-	0	-		0	-	-	0	-	-
Ags Futures												
FERTILIZER PRODUCS	0	0	0.0%	0	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 DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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%	8	6	33.33%	0	0	0.0%	3,418	5,109	-33.1%
OTC AUDUSD SUB	0	-	-	712	-	-	0	-	-	712	-	-
OTC EURUSD SUB	0	-	-	974	-	-	0	-	-	974	-	-
OTC GBPUSD SUB	0	-	-	778	-	-	0	-	-	778	-	-
OTC USDCAD SUB	0	-	-	24	-	-	0	-	-	24	-	-
OTC USDJPY SUB	0	-	-	155	-	-	0	-	-	155	-	-
Ag Products Futures												
BLOCK CHEESE	0	0	0.0%	228	857	-73.40%	0	0	0.0%	3,026	7,461	-59.4%
BUTTER CS	0	0	0.0%	3,642	6,474	-43.74%	0	0	0.0%	47,615	48,901	-2.6%
CASH-SETTLED CHEESE	0	0	0.0%	11,990	9,628	24.53%	0	0	0.0%	115,003	139,149	-17.4%
CAT ASIA WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CATTLE	0	0	0.0%	893,475	954,369	-6.38%	0	0	0.0%	14,114,711	13,908,672	1.5%
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%	1,352,291	1,569,906	-13.86%	0	0	0.0%	25,707,322	29,717,505	-13.5%
CLASS IV MILK	0	0	0.0%	821	4,539	-81.91%	0	0	0.0%	24,818	21,811	13.8%
COFFEE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2	-100.0%
CORN	0	0	0.0%	3,835,224	4,306,005	-10.93%	0	0	0.0%	74,641,429	83,654,859	-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%	43,046	81,172	-46.97%	0	0	0.0%	480,477	609,194	-21.1%
DOW-UBS COMMOD INDEX SW	-	-	-	-	-	-	0	-	-	0	-	-
DRY WHEAT	0	0	0.0%	1,479	1,198	23.46%	0	0	0.0%	11,146	22,256	-49.9%
FEEDER CATTLE	0	0	0.0%	253,449	237,535	6.70%	0	0	0.0%	3,355,174	3,066,591	9.4%
FERTILIZER PRODUCS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	2,221	3,499	-36.52%	0	0	0.0%	32,765	93,370	-64.9%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	77	-100.00%	0	0	0.0%	91	228	-60.1%
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%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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												
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%	800,607	752,378	6.41%	0	0	0.0%	11,381,406	11,399,319	-0.2%
HOUSING INDEX	0	0	0.0%	12	14	-14.29%	0	0	0.0%	185	166	11.4%
Intercommodity Spread	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
KC WHEAT	0	0	0.0%	476,570	752,411	-36.66%	0	0	0.0%	10,086,945	12,626,030	-20.1%
LUMBER	0	0	0.0%	13,112	9,801	33.78%	0	0	0.0%	110,568	114,765	-3.7%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	0	0	0.0%	27,011	30,656	-11.89%	0	0	0.0%	331,751	302,869	9.5%
MINI CORN	0	0	0.0%	25,554	37,422	-31.71%	0	0	0.0%	609,031	704,384	-13.5%
MINI SOYBEAN	0	0	0.0%	46,323	45,549	1.70%	0	0	0.0%	690,283	662,661	4.2%
MINI WHEAT	0	0	0.0%	17,930	20,532	-12.67%	0	0	0.0%	324,203	251,059	29.1%
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%	3,869	5,779	-33.05%	0	0	0.0%	65,555	64,797	1.2%
OATS	0	0	0.0%	8,260	9,908	-16.63%	0	0	0.0%	104,197	135,814	-23.3%
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%	1,275	2,172	-41.30%	0	0	0.0%	24,136	28,554	-15.5%
ROUGH RICE	0	0	0.0%	29,157	26,254	11.06%	0	0	0.0%	236,635	208,073	13.7%
SOYBEAN	0	0	0.0%	4,452,876	4,528,073	-1.66%	0	0	0.0%	49,066,306	50,724,976	-3.3%
SOYBEAN MEAL	0	0	0.0%	2,701,572	2,326,248	16.13%	0	0	0.0%	27,148,631	25,868,833	4.9%
SOYBEAN OIL	0	0	0.0%	3,180,270	2,556,196	24.41%	0	0	0.0%	29,522,927	32,047,198	-7.9%
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	3,077	-100.00%	0	0	0.0%	6,012	36,688	-83.6%
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%	124	40	210.00%	0	0	0.0%	2,639	3,004	-12.2%
BUTTER CS	0	0	0.0%	2,201	3,445	-36.11%	0	0	0.0%	18,392	24,406	-24.6%
CASH-SETTLED CHEESE	0	0	0.0%	3,722	6,931	-46.30%	0	0	0.0%	71,092	74,091	-4.0%
CATTLE	0	0	0.0%	239,496	164,771	45.35%	0	0	0.0%	2,570,506	2,284,001	12.5%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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												
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%	367,085	442,044	-16.96%	0	0	0.0%	6,904,467	5,774,261	19.6%
CLASS IV MILK	0	0	0.0%	4,593	9,944	-53.81%	0	0	0.0%	86,587	57,164	51.5%
CORN	0	0	0.0%	1,141,436	1,380,253	-17.30%	0	0	0.0%	29,493,687	31,490,399	-6.3%
CORN NEARBY+2 CAL SPRD	0	0	0.0%	1,445	20,187	-92.84%	0	0	0.0%	238,395	159,387	49.6%
DEC-DEC CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	3,717	-100.0%
DEC-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	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%	50	20	150.00%	0	0	0.0%	2,784	1,823	52.7%
FEEDER CATTLE	0	0	0.0%	26,693	22,829	16.93%	0	0	0.0%	416,669	266,218	56.5%
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%	219,266	180,663	21.37%	0	0	0.0%	2,697,295	2,411,296	11.9%
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	-	-	0	-	-	0	-	-	300	-	-
JULY-DEC CORN CAL SPRD	0	0	0.0%	10,638	7,756	37.16%	0	0	0.0%	104,590	47,861	118.5%
JULY-DEC SOYMEAL CAL SPR	0	-	-	0	-	-	0	-	-	845	-	-
JULY-DEC SOY OIL CAL SPRD	0	0	0.0%	500	0	0.00%	0	0	0.0%	500	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%	2,284	7,430	-69.26%	0	0	0.0%	55,898	12,823	335.9%
KC WHEAT	0	0	0.0%	35,561	116,507	-69.48%	0	0	0.0%	790,204	899,641	-12.2%
LUMBER	0	0	0.0%	108	689	-84.33%	0	0	0.0%	4,424	8,307	-46.7%
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%	5,875	1,500	291.67%	0	0	0.0%	45,320	5,790	682.7%
MAR-JULY SOYBEAN CAL SPR	0	0	0.0%	700	0	0.00%	0	0	0.0%	1,350	0	0.0%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	0	200	-100.00%	0	0	0.0%	150	900	-83.3%
MILK	0	0	0.0%	17,964	37,941	-52.65%	0	0	0.0%	280,173	315,301	-11.1%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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												
MLK MID OPTIONS	0	0	0.0%	1	4	-75.00%	0	0	0.0%	47	32	46.9%
NFD MILK	0	0	0.0%	1,456	2,501	-41.78%	0	0	0.0%	39,703	38,702	2.6%
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%
OATS	0	0	0.0%	77	280	-72.50%	0	0	0.0%	2,075	4,184	-50.4%
PORK CUTOUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	45	750	-94.0%
ROUGH RICE	0	0	0.0%	2,355	1,603	46.91%	0	0	0.0%	21,291	11,061	92.5%
SEP-DEC SOYBEAN MEAL CSC	0	-	-	0	-	-	0	-	-	830	-	-
SOYBEAN	0	0	0.0%	780,029	1,218,026	-35.96%	0	0	0.0%	16,581,280	18,193,197	-8.9%
SOYBEAN CRUSH	0	0	0.0%	0	25	-100.00%	0	0	0.0%	170	1,257	-86.5%
SOYBEAN MEAL	0	0	0.0%	294,839	316,740	-6.91%	0	0	0.0%	2,732,696	2,870,651	-4.8%
SOYBEAN OIL	0	0	0.0%	322,403	248,163	29.92%	0	0	0.0%	2,997,488	3,326,961	-9.9%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	285	1,400	-79.64%	0	0	0.0%	40,794	21,674	88.2%
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%	1,111	322	245.03%	0	0	0.0%	4,090	7,378	-44.6%
WHEAT-CORN ICSCO	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%	971	376	158.24%	0	0	0.0%	34,908	6,561	432.1%
TOTAL FUTURES GROUP												
Interest Rate Futures	525,851	468,202	12.3%	117,253,652	114,082,364	2.8%	9,657,085	5,767,140	67.5%	2,067,035,940	1,757,629,895	17.6%
Equity Index Futures	0	0	0.0%	120,327,970	125,220,244	-3.9%	0	0	0.0%	1,603,213,717	1,189,103,951	34.8%
Metals Futures	0	0	0.0%	7,308,526	6,519,970	12.1%	0	0	0.0%	112,887,325	122,726,763	-8.0%
Energy Futures	0	0	0.0%	31,247,015	34,709,091	-10.0%	0	0	0.0%	424,987,289	465,186,221	-8.6%
FX Futures	0	0	0.0%	20,840,135	18,294,254	13.9%	0	0	0.0%	234,320,643	190,486,358	23.0%
Ags Futures	0	0	0.0%	0	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%	18,182,264	18,281,729	-0.5%	0	0	0.0%	248,242,348	266,466,207	-6.8%
TOTAL FUTURES	525,851	468,202	12.3%	315,159,562	317,107,652	-0.6%	9,657,085	5,767,140	67.5%	4,690,687,294	3,991,599,449	17.5%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 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%	23,295,959	21,534,615	8.2%	0	0	0.0%	286,013,760	181,968,287	57.2%
Interest Rate Options	13,601,900	13,487,817	0.8%	28,538,358	23,271,748	22.6%	191,212,764	165,267,241	15.7%	348,795,113	315,733,422	10.5%
Metals Options	0	0	0.0%	1,001,167	654,053	53.1%	0	0	0.0%	13,365,376	10,992,890	21.6%
Energy Options	0	0	0.0%	2,468,831	2,861,508	-13.7%	0	0	0.0%	35,487,877	39,033,969	-9.1%
FX Options	0	0	0.0%	615,393	647,042	-4.9%	0	0	0.0%	9,299,021	8,386,750	10.9%
Ag Products Options	0	0	0.0%	3,483,268	4,192,590	-16.9%	0	0	0.0%	66,274,486	68,348,355	-3.0%
Foreign Exchange Options	0	0	0.0%	2,651	6	44,083.3%	0	0	0.0%	6,061	5,109	18.6%
TOTAL OPTIONS	13,601,900	13,487,817	0.8%	59,405,627	53,161,562	11.7%	191,212,764	165,267,241	15.7%	759,241,694	624,468,782	21.6%
TOTAL COMBINED												
Interest Rate	14,127,751	13,956,019	1.2%	145,792,010	137,354,112	6.1%	200,869,849	171,034,381	17.4%	2,415,831,053	2,073,363,317	16.5%
Equity Index	0	0	0.0%	143,623,929	146,754,859	-2.1%	0	0	0.0%	1,889,227,477	1,371,072,238	37.8%
Metals	0	0	0.0%	8,309,693	7,174,023	15.8%	0	0	0.0%	126,252,701	133,719,653	-5.6%
Energy	0	0	0.0%	33,715,846	37,570,599	-10.3%	0	0	0.0%	460,475,166	504,220,190	-8.7%
FX	0	0	0.0%	21,455,528	18,941,296	13.3%	0	0	0.0%	243,619,664	198,873,108	22.5%
Ags	0	0	0.0%	0	0	0.0%	0	0	0.0%	8	54	-85.2%
Foreign Exchange	0	0	0.0%	2,651	6	44,083.3%	0	0	0.0%	6,085	5,109	19.1%
Ag Products	0	0	0.0%	21,665,532	22,474,319	-3.6%	0	0	0.0%	314,516,834	334,814,562	-6.1%
GRAND TOTAL	14,127,751	13,956,019	1.2%	374,565,189	370,269,214	1.2%	200,869,849	171,034,381	17.4%	5,449,928,988	4,616,068,231	18.1%

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