

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Interest Rate Futures</b>												
10-YR Eris LIBOR	0	0	0.0%	2,093	2,275	-8.00%	0	0	0.0%	44,156	21,237	107.9%
10-YR Eris SOFR	0	0	0.0%	14	100	-86.00%	0	0	0.0%	763	280	172.5%
10-YR MAC LIBOR	0	0	0.0%	5,087	32,827	-84.50%	0	0	0.0%	150,656	530,866	-71.6%
10-YR MAC SOFR	0	-	-	2	-		0	-	-	2	-	-
10-YR NOTE	0	0	0.0%	33,390,372	35,866,012	-6.90%	0	0	0.0%	379,469,102	382,467,894	-0.8%
10Y YIELD	0	0	0.0%	113,109	150,284	-24.74%	0	0	0.0%	1,029,433	590,117	74.4%
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%	48	2	2,300.00%	0	0	0.0%	337	2	16,750.0%
1-YR Eris BSBY	0	-	-	0	-		0	-	-	1,600	-	-
1-YR Eris SOFR	0	0	0.0%	731	41,940	-98.26%	0	0	0.0%	201,416	695,768	-71.1%
20-YR BOND	0	-	-	1,846	-		0	-	-	32,128	-	-
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%	689	4,923	-86.00%	0	0	0.0%	80,874	28,841	180.4%
2-YR Eris SOFR	0	0	0.0%	2,938	14,482	-79.71%	0	0	0.0%	94,977	40,032	137.3%
2-YR NOTE	0	0	0.0%	9,629,879	9,066,820	6.21%	0	0	0.0%	131,346,523	84,273,374	55.9%
2Y YIELD	0	0	0.0%	9,623	11,575	-16.86%	0	0	0.0%	79,680	17,063	367.0%
30-YR BOND	0	0	0.0%	6,680,687	8,774,120	-23.86%	0	0	0.0%	79,632,358	92,950,439	-14.3%
30-YR Eris LIBOR	0	0	0.0%	0	261	-100.00%	0	0	0.0%	185	261	-29.1%
30-YR SWAP RATE	0	0	0.0%	0	9	-100.00%	0	0	0.0%	304	113	169.0%
30Y YIELD	0	0	0.0%	11,210	8,712	28.67%	0	0	0.0%	101,711	16,013	535.2%
3-YR Eris BSBY	0	-	-	0	-		0	-	-	4	-	-
3-YR Eris LIBOR	0	0	0.0%	370	9,788	-96.22%	0	0	0.0%	51,821	34,172	51.6%
3-YR Eris SOFR	0	0	0.0%	4,926	3,512	40.26%	0	0	0.0%	33,765	14,861	127.2%
3-YR NOTE	0	0	0.0%	235,977	366,500	-35.61%	0	0	0.0%	3,349,032	1,975,361	69.5%
4-YR Eris LIBOR	0	0	0.0%	170	1,234	-86.22%	0	0	0.0%	30,338	23,209	30.7%
4-YR Eris SOFR	0	0	0.0%	1,007	1,270	-20.71%	0	0	0.0%	6,491	5,950	9.1%
5-YR Eris LIBOR	0	0	0.0%	10,517	29,774	-64.68%	0	0	0.0%	223,107	220,688	1.1%
5-YR Eris SOFR	0	0	0.0%	1,111	970	14.54%	0	0	0.0%	21,363	4,725	352.1%
5-YR MAC LIBOR	0	0	0.0%	53,810	67,273	-20.01%	0	0	0.0%	347,166	505,641	-31.3%
5-YR NOTE	0	0	0.0%	21,426,272	20,416,533	4.95%	0	0	0.0%	263,441,998	221,164,452	19.1%
5Y YIELD	0	0	0.0%	578	8,820	-93.45%	0	0	0.0%	21,839	15,539	40.5%
7-YR Eris LIBOR	0	0	0.0%	1,643	2,649	-37.98%	0	0	0.0%	25,156	20,811	20.9%
7-YR Eris SOFR	0	-	-	69	-		0	-	-	380	-	-

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Interest Rate Futures</b>												
BSBY 3-MONTH FUTURES	0	0	0.0%	25,525	158,740	-83.92%	0	0	0.0%	539,248	300,427	79.5%
EURODOLLARS	632,652	741,053	-14.6%	17,085,381	65,462,848	-73.90%	7,464,581	4,550,444	64.0%	356,446,490	493,750,734	-27.8%
FED FUND	0	0	0.0%	6,427,977	3,717,498	72.91%	0	0	0.0%	71,747,874	19,798,747	262.4%
SOFR	231,401	0	0.0%	40,807,609	4,944,746	725.27%	1,025,635	0	0.0%	346,697,506	26,649,399	1,201.0%
SONIA	0	0	0.0%	0	19,085	-100.00%	0	0	0.0%	1,293	798,109	-99.8%
TIIE	0	0	0.0%	35	40	-12.50%	0	0	0.0%	916	779	17.6%
Ultra 10-Year Note	0	0	0.0%	6,802,784	6,525,730	4.25%	0	0	0.0%	77,009,648	73,274,275	5.1%
ULTRA T-BOND	0	0	0.0%	3,597,455	3,756,910	-4.24%	0	0	0.0%	45,585,102	44,862,917	1.6%
<b>Interest Rate Options</b>												
10-YR NOTE	0	0	0.0%	13,354,341	11,089,905	20.42%	0	0	0.0%	134,980,487	130,947,708	3.1%
2-YR NOTE	0	0	0.0%	215,044	25,037	758.90%	0	0	0.0%	808,051	136,271	493.0%
30-YR BOND	0	0	0.0%	2,390,931	2,521,238	-5.17%	0	0	0.0%	24,835,273	26,824,314	-7.4%
5-YR NOTE	0	0	0.0%	4,591,026	3,213,658	42.86%	0	0	0.0%	50,277,439	30,745,921	63.5%
EURODOLLARS	4,159,347	5,175,362	-19.6%	6,796,048	2,707,118	151.04%	75,391,175	27,697,588	172.2%	39,586,899	14,579,229	171.5%
EURO MIDCURVE	723,808	12,286,672	-94.1%	377,028	9,362,421	-95.97%	40,973,885	106,317,330	-61.5%	21,262,186	55,653,021	-61.8%
FED FUND	0	0	0.0%	4,000	0	0.00%	0	0	0.0%	4,045	0	0.0%
SOFR	9,044,344	0	0.0%	3,415,804	0	0.00%	35,524,629	7,310	485,873.0%	13,173,744	1,342	981,550.1%
SOFR MIDCURVE	2,226,563	0	0.0%	1,023,941	25	4,095,664.00%	10,516,524	0	0.0%	4,045,826	85	4,759,695.3%
Ultra 10-Year Note	0	0	0.0%	75	0	0.00%	0	0	0.0%	826	46	1,695.7%
ULTRA T-BOND	0	0	0.0%	1,693	792	113.76%	0	0	0.0%	23,448	6,776	246.0%
<b>Equity Index Futures</b>												
BITCOIN	0	0	0.0%	266,286	255,650	4.16%	0	0	0.0%	2,129,293	2,136,069	-0.3%
DJ US REAL ESTATE SECTOR	0	0	0.0%	35,903	26,502	35.47%	0	0	0.0%	355,347	335,873	5.8%
E-mini (\$5) Dow	0	0	0.0%	4,197,769	3,644,793	15.17%	0	0	0.0%	42,851,287	36,583,432	17.1%
E-mini FTSE China 50	0	0	0.0%	116	144	-19.44%	0	0	0.0%	7,122	665	971.0%
E-MINI MIDCAP	0	0	0.0%	291,192	248,318	17.27%	0	0	0.0%	3,325,621	2,564,556	29.7%
E-MINI NASDAQ 100	0	0	0.0%	15,974,485	11,154,495	43.21%	0	0	0.0%	148,974,499	113,640,738	31.1%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Equity Index Futures</b>												
E-MINI RUSSELL 1000	0	0	0.0%	1,613	4,014	-59.82%	0	0	0.0%	30,269	44,644	-32.2%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	2,729	2,202	23.93%	0	0	0.0%	46,624	31,389	48.5%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	2,337	2,851	-18.03%	0	0	0.0%	78,757	77,847	1.2%
E-MINI RUSSELL 2000	0	0	0.0%	5,141,662	3,522,740	45.96%	0	0	0.0%	50,599,453	40,670,665	24.4%
E-MINI S&P500	0	0	0.0%	47,784,324	28,690,411	66.55%	0	0	0.0%	421,493,030	327,483,150	28.7%
E-MINI S&P500 ESG	0	0	0.0%	26,163	12,307	112.59%	0	0	0.0%	260,397	132,649	96.3%
ETHER	0	-	-	0	-		0	-	-	7	-	-
ETHER FUTURES	0	0	0.0%	131,553	114,603	14.79%	0	0	0.0%	1,321,417	674,938	95.8%
FT-SE 100	0	0	0.0%	145	57	154.39%	0	0	0.0%	1,524	258	490.7%
FTSE Emerging	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	5	-100.0%
IBOVESPA INDEX	0	0	0.0%	52	379	-86.28%	0	0	0.0%	581	2,233	-74.0%
MICRO BITCOIN	0	0	0.0%	218,951	570,675	-61.63%	0	0	0.0%	3,220,940	2,728,074	18.1%
MICRO E-MINI NASDAQ 100	0	0	0.0%	31,704,461	19,586,443	61.87%	0	0	0.0%	315,858,218	193,176,393	63.5%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	2,931,274	2,939,925	-0.29%	0	0	0.0%	28,854,544	31,337,891	-7.9%
MICRO E-MINI S&P500	0	0	0.0%	33,300,874	17,825,532	86.82%	0	0	0.0%	290,713,102	178,549,646	62.8%
MICRO ETHER	0	-	-	329,615	-		0	-	-	4,251,026	-	-
MICRO MINI \$5 DOW	0	0	0.0%	3,671,649	3,056,552	20.12%	0	0	0.0%	38,801,024	27,073,147	43.3%
NASDAQ-100 VOLATILITY	0	0	0.0%	70	2	3,400.00%	0	0	0.0%	18,519	97	18,991.8%
NASDAQ BIOTECH SECTOR	0	0	0.0%	202	88	129.55%	0	0	0.0%	2,160	5,571	-61.2%
Nearby BTIC+	0	0	0.0%	750	100	650.00%	0	0	0.0%	5,200	456	1,040.4%
NIKKEI 225 (\$) STOCK	0	0	0.0%	100,356	148,247	-32.30%	0	0	0.0%	1,173,271	1,330,778	-11.8%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	759,153	810,581	-6.34%	0	0	0.0%	7,913,855	6,721,332	17.7%
PHLX SEMICONDUCTOR SECT	0	-	-	829	-		0	-	-	1,463	-	-
S&P 500	0	0	0.0%	4,003	202	1,881.68%	0	0	0.0%	5,846	12,787	-54.3%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	30,538	12,754	139.44%	0	0	0.0%	287,156	136,308	110.7%
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%	2,889	100	2,789.00%	0	0	0.0%	18,228	864	2,009.7%
S&P 600 SMALLCAP EMINI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
S&P BIOTECHNOLOGY SECTO	0	-	-	934	-		0	-	-	8,141	-	-
S&P COMMUNICATION SERVIC	0	0	0.0%	3,037	1,272	138.76%	0	0	0.0%	34,593	27,650	25.1%
S&P CONSUMER DISCRETION	0	0	0.0%	6,711	8,681	-22.69%	0	0	0.0%	71,958	96,104	-25.1%
S&P CONSUMER STAPLES SE	0	0	0.0%	13,696	10,863	26.08%	0	0	0.0%	173,599	173,415	0.1%
S&P ENERGY SECTOR	0	0	0.0%	30,772	20,156	52.67%	0	0	0.0%	456,266	277,814	64.2%
S&P FINANCIAL SECTOR	0	0	0.0%	15,009	15,195	-1.22%	0	0	0.0%	242,746	307,930	-21.2%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Equity Index Futures</b>												
S&P HEALTH CARE SECTOR	0	0	0.0%	9,387	13,815	-32.05%	0	0	0.0%	182,317	154,033	18.4%
S&P INDUSTRIAL SECTOR	0	0	0.0%	10,630	5,797	83.37%	0	0	0.0%	133,432	103,389	29.1%
S&P MATERIALS SECTOR	0	0	0.0%	7,209	5,275	36.66%	0	0	0.0%	85,266	86,075	-0.9%
S&P OIL & GAS EXPLORATION	0	-	-	494	-		0	-	-	4,319	-	-
S&P REAL ESTATE SECTOR	0	0	0.0%	3,272	2,823	15.91%	0	0	0.0%	42,553	43,325	-1.8%
S&P REGIONAL BANKS SECTO	0	-	-	472	-		0	-	-	2,039	-	-
S&P RETAIL SECTOR	0	-	-	180	-		0	-	-	2,839	-	-
S&P TECHNOLOGY SECTOR	0	0	0.0%	25,028	5,641	343.68%	0	0	0.0%	213,864	118,051	81.2%
S&P UTILITIES SECTOR	0	0	0.0%	14,092	16,098	-12.46%	0	0	0.0%	177,997	162,590	9.5%
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%	0	2	-100.00%	0	0	0.0%	592	946	-37.4%
YEN DENOMINATED TOPIX	0	0	0.0%	39	5,672	-99.31%	0	0	0.0%	19,805	23,294	-15.0%
<b>Equity Index Options</b>												
BITCOIN OPTIONS	0	0	0.0%	1,760	1,130	55.75%	0	0	0.0%	14,669	11,315	29.6%
DJIA	0	-	-	3,079	-		0	-	-	4,971	-	-
E-mini (\$5) Dow	0	0	0.0%	2,616	3,217	-18.68%	0	0	0.0%	21,868	17,017	28.5%
E-MINI NASDAQ 100	0	0	0.0%	1,059,100	669,301	58.24%	0	0	0.0%	10,071,589	5,648,949	78.3%
E-mini Russell 2000	0	0	0.0%	100,109	100,424	-0.31%	0	0	0.0%	1,042,329	913,929	14.0%
E-MINI RUSSELL 2000	0	0	0.0%	25,800	21,025	22.71%	0	0	0.0%	314,938	277,523	13.5%
E-mini S&P 500	0	0	0.0%	13,500,954	9,830,745	37.33%	0	0	0.0%	111,802,246	71,542,094	56.3%
E-MINI S&P500	0	0	0.0%	13,908,599	6,706,737	107.38%	0	0	0.0%	111,334,549	61,379,608	81.4%
EOM S&P 500	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2,156	-100.0%
ETHER OPTIONS	0	-	-	296	-		0	-	-	394	-	-
MICRO BITCOIN	0	-	-	7,057	-		0	-	-	71,017	-	-
Micro E-mini Nasdaq-100	0	0	0.0%	40,407	38,834	4.05%	0	0	0.0%	429,730	277,164	55.0%
MICRO E-MINI NASDAQ 100	0	0	0.0%	6,684	3,959	68.83%	0	0	0.0%	116,132	56,428	105.8%
Micro E-mini S&P 500	0	0	0.0%	221,386	230,503	-3.96%	0	0	0.0%	2,335,297	1,557,082	50.0%
MICRO ETHER	0	-	-	39,574	-		0	-	-	242,189	-	-
S&P 500	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	200	-100.0%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Metals Futures</b>												
ALUMINUM	0	0	0.0%	52,849	15,206	247.55%	0	0	0.0%	324,097	121,487	166.8%
COBALT METAL FUTURES	0	0	0.0%	1	0	0.00%	0	0	0.0%	15	12	25.0%
COMEX COPPER	0	0	0.0%	1,808,044	1,764,794	2.45%	0	0	0.0%	17,581,755	21,245,143	-17.2%
COMEX E-Mini GOLD	0	0	0.0%	45,577	18,826	142.10%	0	0	0.0%	320,033	226,549	41.3%
COMEX E-Mini SILVER	0	0	0.0%	4,378	3,776	15.94%	0	0	0.0%	38,364	59,142	-35.1%
COMEX GOLD	0	0	0.0%	3,927,652	4,065,110	-3.38%	0	0	0.0%	44,523,427	48,292,347	-7.8%
COMEX MINY COPPER	0	0	0.0%	2,817	8,878	-68.27%	0	0	0.0%	34,953	46,973	-25.6%
COMEX SILVER	0	0	0.0%	1,322,197	1,163,448	13.64%	0	0	0.0%	13,865,778	16,488,835	-15.9%
COPPER	0	0	0.0%	71,359	0	0.00%	0	0	0.0%	417,140	0	0.0%
FERROUS PRODUCTS	0	0	0.0%	281	361	-22.16%	0	0	0.0%	3,949	7,106	-44.4%
GOLD	0	0	0.0%	798	12,906	-93.82%	0	0	0.0%	59,990	75,056	-20.1%
HOT ROLLED COIL STEEL FUT	0	0	0.0%	1,624	230	606.09%	0	0	0.0%	7,922	1,653	379.2%
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%	35	0	0.00%	0	0	0.0%	106	0	0.0%
MICRO GOLD	0	0	0.0%	941,893	1,054,682	-10.69%	0	0	0.0%	10,680,912	11,922,754	-10.4%
NYMEX HOT ROLLED STEEL	0	0	0.0%	6,331	4,566	38.66%	0	0	0.0%	51,249	42,286	21.2%
NYMEX PLATINUM	0	0	0.0%	404,976	292,422	38.49%	0	0	0.0%	4,100,292	3,550,304	15.5%
PALLADIUM	0	0	0.0%	38,634	41,136	-6.08%	0	0	0.0%	434,468	457,920	-5.1%
SILVER	0	0	0.0%	173,016	103,555	67.08%	0	0	0.0%	1,620,641	1,969,908	-17.7%
URANIUM	0	0	0.0%	0	53	-100.00%	0	0	0.0%	24	543	-95.6%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Metals Options</b>												
ALUMINUM	0	0	0.0%	237	0	0.00%	0	0	0.0%	455	0	0.0%
COMEX COPPER	0	0	0.0%	58,949	46,091	27.90%	0	0	0.0%	596,643	418,501	42.6%
COMEX GOLD	0	0	0.0%	652,453	572,154	14.03%	0	0	0.0%	7,261,476	5,768,034	25.9%
COMEX SILVER	0	0	0.0%	133,547	91,135	46.54%	0	0	0.0%	1,030,967	1,366,689	-24.6%
COPPER	0	0	0.0%	4,062	17	23,794.12%	0	0	0.0%	18,481	199	9,186.9%
GOLD	0	0	0.0%	192,449	148,623	29.49%	0	0	0.0%	2,078,511	1,573,307	32.1%
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%	0	0	0.0%
NYMEX PLATINUM	0	0	0.0%	312	449	-30.51%	0	0	0.0%	4,842	4,859	-0.3%
PALLADIUM	0	0	0.0%	8	12	-33.33%	0	0	0.0%	135	692	-80.5%
SILVER	0	0	0.0%	29,381	14,949	96.54%	0	0	0.0%	192,478	110,651	74.0%
<b>Energy Futures</b>												
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%	1,417,149	2,080,706	-31.89%	0	0	0.0%	14,487,397	20,040,233	-27.7%
CAR VINTAGE	0	0	0.0%	5,264	3,460	52.14%	0	0	0.0%	60,413	17,196	251.3%
CHICAGO ETHANOL SWAP	0	0	0.0%	175	906	-80.68%	0	0	0.0%	1,503	3,345	-55.1%
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%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Energy Futures</b>												
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%	1	0	0.00%	0	0	0.0%	75	31	141.9%
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%	190	0	0.00%	0	0	0.0%	190	0	0.0%
CRUDE OIL PHY	0	0	0.0%	16,151,786	25,320,827	-36.21%	0	0	0.0%	197,119,752	208,472,476	-5.4%
CRUDE OIL SPRDS	0	0	0.0%	35	0	0.00%	0	0	0.0%	35	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	3,988	-100.00%	0	0	0.0%	10,828	388,948	-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	-	-	1,437	-		0	-	-	19,037	-	-
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%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Energy Futures</b>												
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%	99	52	90.38%	0	0	0.0%	2,505	454	451.8%
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	46	-100.00%	0	0	0.0%	0	136	-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%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Energy Futures</b>												
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%	3,447,055	3,638,608	-5.26%	0	0	0.0%	32,977,695	30,197,116	9.2%
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%	162	0	0.00%	0	0	0.0%	1,470	31	4,641.9%
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%	243,614	290,241	-16.06%	0	0	0.0%	2,402,861	2,335,755	2.9%
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%	265	1,645	-83.89%	0	0	0.0%	6,259	21,282	-70.6%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	4	-100.00%	0	0	0.0%	140	217	-35.5%
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%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Energy Futures</b>												
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%	10	4	150.00%	0	0	0.0%	86	61	41.0%
MINY NATURAL GAS	0	0	0.0%	198,820	529,394	-62.44%	0	0	0.0%	3,085,527	1,784,819	72.9%
MINY RBOB GAS	0	0	0.0%	7	7	0.00%	0	0	0.0%	90	86	4.7%
MINY WTI CRUDE OIL	0	0	0.0%	463,840	431,708	7.44%	0	0	0.0%	6,121,343	4,162,875	47.0%
MJC FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MNC FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU ETHANE 5 DEC	0	0	0.0%	0	0	0.00%	0	0	0.0%	310	325	-4.6%
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%	198	37	435.14%	0	0	0.0%	527	494	6.7%
MONT BELVIEU LDH PROPANE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	46	0	0.00%	0	0	0.0%	221	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	15	-100.00%	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%	32,982	86,817	-62.01%	0	0	0.0%	429,033	535,065	-19.8%
NATURAL GAS PEN SWP	0	0	0.0%	0	15	-100.00%	0	0	0.0%	0	133	-100.0%
NATURAL GAS PHY	0	0	0.0%	6,296,137	8,878,810	-29.09%	0	0	0.0%	70,186,789	80,866,141	-13.2%
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%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Energy Futures</b>												
NY HARBOR HEAT OIL SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	72	24	200.0%
NY HARBOR LOW SULPUR GA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR RESIDUAL FUEL 1	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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	50	-100.00%	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%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Energy Futures</b>												
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%	2,883,787	3,772,739	-23.56%	0	0	0.0%	33,842,348	38,487,183	-12.1%
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%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Energy Futures</b>												
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%
<b>Energy Options</b>												
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%	3,598	3,028	18.82%	0	0	0.0%	30,577	31,310	-2.3%
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%	400	0	0.00%	0	0	0.0%	32,658	42,180	-22.6%
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	-	-	4,173	-		0	-	-	5,601	-	-
CRUDE OIL PHY	0	0	0.0%	1,554,271	2,523,258	-38.40%	0	0	0.0%	20,132,583	19,779,182	1.8%
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%	2,129	3,048	-30.15%	0	0	0.0%	22,539	20,412	10.4%
HENRY HUB FINANCIAL LAST	0	0	0.0%	3,243	0	0.00%	0	0	0.0%	6,156	40	15,290.0%
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%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Energy Options</b>												
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%	550	1,984	-72.28%	0	0	0.0%	6,250	10,734	-41.8%
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	0	0.00%	0	0	0.0%	0	0	0.0%
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%	857,883	671,576	27.74%	0	0	0.0%	9,925,221	12,546,876	-20.9%
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%	226	29	679.31%	0	0	0.0%	1,881	655	187.2%
PETROCHEMICALS	0	0	0.0%	0	13	-100.00%	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%	187	1,463	-87.22%	0	0	0.0%	9,134	20,847	-56.2%
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%	1,875	2,900	-35.34%	0	0	0.0%	10,020	10,000	0.2%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	300	355	-15.49%	0	0	0.0%	571	1,390	-58.9%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	53	14	278.57%	0	0	0.0%	519	172	201.7%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>FX Futures</b>												
AD/JY CROSS RATES	0	0	0.0%	3,643	2,542	43.31%	0	0	0.0%	45,501	21,610	110.6%
AD/NE CROSS RATES	0	0	0.0%	9,238	536	1,623.51%	0	0	0.0%	38,932	2,994	1,200.3%
AUSTRALIAN DOLLAR	0	0	0.0%	2,169,565	1,838,634	18.00%	0	0	0.0%	21,182,356	20,585,707	2.9%
BP/JY CROSS RATES	0	0	0.0%	5,154	2,305	123.60%	0	0	0.0%	45,838	24,840	84.5%
BP/SF CROSS RATES	0	0	0.0%	3,161	557	467.50%	0	0	0.0%	21,883	7,509	191.4%
BRAZIL REAL	0	0	0.0%	314,064	201,419	55.93%	0	0	0.0%	2,807,923	2,312,816	21.4%
BRITISH POUND	0	0	0.0%	3,078,112	1,853,708	66.05%	0	0	0.0%	25,982,214	19,642,212	32.3%
CANADIAN DOLLAR	0	0	0.0%	2,038,426	1,488,567	36.94%	0	0	0.0%	19,026,305	16,589,681	14.7%
CD/JY CROSS RATES	0	0	0.0%	71	73	-2.74%	0	0	0.0%	358	1,533	-76.6%
CHINESE RENMINBI (CNH)	0	0	0.0%	45,898	12,456	268.48%	0	0	0.0%	299,033	164,799	81.5%
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%	2	0	0.00%	0	0	0.0%	28	8	250.0%
EC/AD CROSS RATES	0	0	0.0%	3,180	2,984	6.57%	0	0	0.0%	57,201	47,078	21.5%
EC/CD CROSS RATES	0	0	0.0%	4,679	4,320	8.31%	0	0	0.0%	80,593	70,397	14.5%
EC/NOK CROSS RATES	0	0	0.0%	421	559	-24.69%	0	0	0.0%	18,709	6,565	185.0%
EC/SEK CROSS RATES	0	0	0.0%	871	311	180.06%	0	0	0.0%	23,232	6,176	276.2%
EFX/BP CROSS RATES	0	0	0.0%	80,325	37,155	116.19%	0	0	0.0%	965,420	566,824	70.3%
EFX/JY CROSS RATES	0	0	0.0%	30,495	31,481	-3.13%	0	0	0.0%	551,698	424,287	30.0%
EFX/SF CROSS RATES	0	0	0.0%	25,872	16,207	59.63%	0	0	0.0%	400,583	233,789	71.3%
E-MICRO USD/CAD	0	0	0.0%	20	1,358	-98.53%	0	0	0.0%	1,838	1,704	7.9%
E-MICRO USD/CHF	0	0	0.0%	32	54	-40.74%	0	0	0.0%	739	83	790.4%
E-MICRO USD/JPY	0	0	0.0%	837	2,799	-70.10%	0	0	0.0%	151,161	2,921	5,075.0%
E-MINI EURO FX	0	0	0.0%	161,440	82,740	95.12%	0	0	0.0%	1,521,352	1,195,111	27.3%
E-MINI JAPANESE YEN	0	0	0.0%	16,060	10,608	51.40%	0	0	0.0%	121,696	92,776	31.2%
EURO FX	0	0	0.0%	4,623,869	3,404,101	35.83%	0	0	0.0%	50,147,491	39,656,949	26.5%
HUNGARIAN FORINT (EC)	0	0	0.0%	1	0	0.00%	0	0	0.0%	3	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	0	3	-100.00%	0	0	0.0%	42	171	-75.4%
INDIAN RUPEE	0	0	0.0%	39,230	16,274	141.06%	0	0	0.0%	266,681	139,266	91.5%
JAPANESE YEN	0	0	0.0%	3,648,629	2,329,770	56.61%	0	0	0.0%	32,759,084	22,210,853	47.5%
KOREAN WON	0	0	0.0%	492	473	4.02%	0	0	0.0%	3,375	11,822	-71.5%
MEXICAN PESO	0	0	0.0%	1,373,837	882,594	55.66%	0	0	0.0%	12,228,759	11,018,406	11.0%
MICRO AUD/USD	0	0	0.0%	289,867	196,181	47.75%	0	0	0.0%	2,644,276	2,066,390	28.0%
MICRO CAD/USD	0	0	0.0%	85,931	55,291	55.42%	0	0	0.0%	613,635	563,134	9.0%
MICRO CHF/USD	0	0	0.0%	16,673	7,180	132.21%	0	0	0.0%	174,102	86,798	100.6%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>FX Futures</b>												
MICRO EUR/USD	0	0	0.0%	923,965	421,912	118.99%	0	0	0.0%	7,922,863	4,803,593	64.9%
MICRO GBP/USD	0	0	0.0%	234,107	104,204	124.66%	0	0	0.0%	1,252,857	770,095	62.7%
MICRO INR/USD	0	0	0.0%	621	1,188	-47.73%	0	0	0.0%	7,043	17,534	-59.8%
MICRO JPY/USD	0	0	0.0%	0	46,053	-100.00%	0	0	0.0%	101,719	346,054	-70.6%
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%	737,969	529,459	39.38%	0	0	0.0%	6,505,484	5,952,116	9.3%
NKR/USD CROSS RATE	0	0	0.0%	1,546	2,441	-36.67%	0	0	0.0%	28,523	45,669	-37.5%
POLISH ZLOTY (EC)	0	0	0.0%	2	66	-96.97%	0	0	0.0%	1,213	1,376	-11.8%
POLISH ZLOTY (US)	0	0	0.0%	1,300	699	85.98%	0	0	0.0%	13,523	8,819	53.3%
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	117,753	-100.00%	0	0	0.0%	576,766	1,078,345	-46.5%
S.AFRICAN RAND	0	0	0.0%	78,941	48,508	62.74%	0	0	0.0%	906,652	574,066	57.9%
SF/JY CROSS RATES	0	0	0.0%	447	74	504.05%	0	0	0.0%	5,596	329	1,600.9%
SHEKEL	0	0	0.0%	1	1	0.00%	0	0	0.0%	147	19	673.7%
SKR/USD CROSS RATES	0	0	0.0%	4,185	4,168	0.41%	0	0	0.0%	62,996	49,392	27.5%
SWISS FRANC	0	0	0.0%	456,997	466,075	-1.95%	0	0	0.0%	5,461,918	4,913,010	11.2%
TURKISH LIRA	0	0	0.0%	24	0	0.00%	0	0	0.0%	26	8	225.0%
USDZAR	0	0	0.0%	0	1	-100.00%	0	0	0.0%	31	72	-56.9%
<b>FX Options</b>												
AUD/USD MONDAY OPTION W	0	0	0.0%	5	1,142	-99.56%	0	0	0.0%	1,759	4,254	-58.7%
AUD/USD MONDAY OPTION W	0	0	0.0%	18	495	-96.36%	0	0	0.0%	3,261	3,726	-12.5%
AUD/USD MONDAY OPTION W	0	0	0.0%	134	797	-83.19%	0	0	0.0%	2,420	3,984	-39.3%
AUD/USD MONDAY OPTION W	0	0	0.0%	91	516	-82.36%	0	0	0.0%	3,234	4,512	-28.3%
AUD/USD MONDAY OPTION W	0	0	0.0%	145	0	0.00%	0	0	0.0%	1,363	1,370	-0.5%
AUD/USD MONTHLY OPTIONS	0	0	0.0%	52,855	56,817	-6.97%	0	0	0.0%	682,282	493,233	38.3%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	119	-100.00%	0	0	0.0%	4,572	7,231	-36.8%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,122	1,695	25.19%	0	0	0.0%	14,998	16,675	-10.1%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,072	2,499	-57.10%	0	0	0.0%	19,410	26,692	-27.3%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,541	2,416	5.17%	0	0	0.0%	16,112	29,297	-45.0%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	3,366	-100.00%	0	0	0.0%	5,196	8,641	-39.9%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	432	3,062	-85.89%	0	0	0.0%	6,061	11,795	-48.6%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>FX Options</b>												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	477	717	-33.47%	0	0	0.0%	4,671	7,846	-40.5%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	85	127	-33.07%	0	0	0.0%	2,157	3,068	-29.7%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	127	576	-77.95%	0	0	0.0%	4,735	9,069	-47.8%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	578	1,985	-70.9%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	22	501	-95.61%	0	0	0.0%	3,043	3,291	-7.5%
CAD/USD MONDAY OPTIONS	0	0	0.0%	685	1,248	-45.11%	0	0	0.0%	2,518	8,895	-71.7%
CAD/USD MONDAY OPTIONS	0	0	0.0%	216	723	-70.12%	0	0	0.0%	10,712	15,720	-31.9%
CAD/USD MONDAY OPTIONS	0	0	0.0%	424	400	6.00%	0	0	0.0%	10,046	10,304	-2.5%
CAD/USD MONDAY OPTIONS	0	0	0.0%	11	802	-98.63%	0	0	0.0%	7,017	22,507	-68.8%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,240	0	0.00%	0	0	0.0%	2,775	3,147	-11.8%
CAD/USD MONTHLY OPTIONS	0	0	0.0%	61,022	69,526	-12.23%	0	0	0.0%	600,246	689,268	-12.9%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	710	-100.00%	0	0	0.0%	12,919	27,536	-53.1%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,220	2,834	48.91%	0	0	0.0%	33,482	45,764	-26.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,991	7,211	-58.52%	0	0	0.0%	52,797	76,730	-31.2%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,664	5,653	-35.18%	0	0	0.0%	45,783	93,050	-50.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	10,929	-100.00%	0	0	0.0%	12,620	28,019	-55.0%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	992	2,864	-65.36%	0	0	0.0%	10,164	21,192	-52.0%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	804	1,273	-36.84%	0	0	0.0%	12,025	18,371	-34.5%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,062	1,500	-29.20%	0	0	0.0%	14,567	20,167	-27.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,681	785	114.14%	0	0	0.0%	15,814	26,341	-40.0%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	4,474	9,035	-50.5%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	3,267	10,782	-69.70%	0	0	0.0%	42,809	55,476	-22.8%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	989	411	140.6%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	30	52	-42.31%	0	0	0.0%	901	2,292	-60.7%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	46	179	-74.30%	0	0	0.0%	1,047	1,882	-44.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	30	45	-33.33%	0	0	0.0%	1,237	2,431	-49.1%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	44	-100.00%	0	0	0.0%	117	282	-58.5%
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	0	0.00%	0	0	0.0%	0	0	0.0%
EURODOLLARS	0	-	-	1,820	-		0	-	-	3,510	-	-
EUR/USD MONDAY OPTION W	0	0	0.0%	2,851	3,300	-13.61%	0	0	0.0%	19,254	19,382	-0.7%
EUR/USD MONDAY OPTION W	0	0	0.0%	2,552	3,853	-33.77%	0	0	0.0%	24,957	16,974	47.0%
EUR/USD MONDAY OPTION W	0	0	0.0%	763	2,530	-69.84%	0	0	0.0%	10,423	15,588	-33.1%
EUR/USD MONDAY OPTION W	0	0	0.0%	1,471	1,374	7.06%	0	0	0.0%	26,308	25,964	1.3%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>FX Options</b>												
EUR/USD MONDAY OPTION W	0	0	0.0%	766	0	0.00%	0	0	0.0%	5,022	5,945	-15.5%
EUR/USD MONTHLY OPTIONS	0	0	0.0%	297,060	188,804	57.34%	0	0	0.0%	2,481,538	1,945,377	27.6%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	3	358	-99.16%	0	0	0.0%	50,404	49,464	1.9%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	15,239	8,474	79.83%	0	0	0.0%	135,167	125,874	7.4%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	13,917	20,522	-32.18%	0	0	0.0%	158,497	199,082	-20.4%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	13,705	16,177	-15.28%	0	0	0.0%	173,609	182,976	-5.1%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	24,176	-100.00%	0	0	0.0%	58,029	85,773	-32.3%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	9,153	8,043	13.80%	0	0	0.0%	66,409	65,390	1.6%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	7,267	6,187	17.46%	0	0	0.0%	55,341	68,528	-19.2%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,698	4,854	17.39%	0	0	0.0%	53,358	65,238	-18.2%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	8,678	8,530	1.74%	0	0	0.0%	64,648	88,524	-27.0%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	20,237	25,392	-20.3%
GBP/USD MONDAY OPTION W	0	0	0.0%	381	306	24.51%	0	0	0.0%	5,289	4,400	20.2%
GBP/USD MONDAY OPTION W	0	0	0.0%	509	677	-24.82%	0	0	0.0%	10,712	5,948	80.1%
GBP/USD MONDAY OPTION W	0	0	0.0%	273	1,658	-83.53%	0	0	0.0%	3,183	4,031	-21.0%
GBP/USD MONDAY OPTION W	0	0	0.0%	829	1,236	-32.93%	0	0	0.0%	5,709	5,555	2.8%
GBP/USD MONDAY OPTION W	0	0	0.0%	1,841	0	0.00%	0	0	0.0%	3,321	654	407.8%
GBP/USD MONTHLY OPTIONS	0	0	0.0%	87,716	83,729	4.76%	0	0	0.0%	770,392	732,637	5.2%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	80	-100.00%	0	0	0.0%	7,507	12,239	-38.7%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,004	2,443	63.90%	0	0	0.0%	22,403	24,412	-8.2%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,166	1,801	75.79%	0	0	0.0%	27,075	28,279	-4.3%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,078	4,989	-58.35%	0	0	0.0%	25,751	35,562	-27.6%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	2,012	-100.00%	0	0	0.0%	8,769	10,415	-15.8%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,398	2,054	-31.94%	0	0	0.0%	12,628	11,701	7.9%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	539	1,205	-55.27%	0	0	0.0%	4,832	6,783	-28.8%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,069	1,000	6.90%	0	0	0.0%	9,879	6,771	45.9%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,586	2,344	-32.34%	0	0	0.0%	10,068	11,678	-13.8%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	670	2,591	-74.1%
JPY/USD MONDAY OPTION WE	0	0	0.0%	153	561	-72.73%	0	0	0.0%	6,694	3,852	73.8%
JPY/USD MONDAY OPTION WE	0	0	0.0%	438	920	-52.39%	0	0	0.0%	7,865	6,011	30.8%
JPY/USD MONDAY OPTION WE	0	0	0.0%	156	210	-25.71%	0	0	0.0%	2,976	3,892	-23.5%
JPY/USD MONDAY OPTION WE	0	0	0.0%	2,772	673	311.89%	0	0	0.0%	12,155	4,029	201.7%
JPY/USD MONDAY OPTION WE	0	0	0.0%	720	0	0.00%	0	0	0.0%	967	2,697	-64.1%
JPY/USD MONTHLY OPTIONS	0	0	0.0%	131,230	103,153	27.22%	0	0	0.0%	1,292,668	812,132	59.2%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>FX Options</b>												
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	9	-100.00%	0	0	0.0%	31,828	28,297	12.5%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	10,268	1,771	479.79%	0	0	0.0%	79,588	51,749	53.8%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	14,754	12,094	21.99%	0	0	0.0%	113,892	95,914	18.7%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	12,355	11,059	11.72%	0	0	0.0%	108,834	91,354	19.1%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	10,959	-100.00%	0	0	0.0%	37,049	36,327	2.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	9,752	5,655	72.45%	0	0	0.0%	40,595	28,311	43.4%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	5,857	5,141	13.93%	0	0	0.0%	36,304	36,104	0.6%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,569	4,877	-26.82%	0	0	0.0%	32,018	31,747	0.9%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,853	6,027	-19.48%	0	0	0.0%	44,147	31,885	38.5%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	11,330	7,879	43.8%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	353	2,790	-87.35%	0	0	0.0%	6,865	14,532	-52.8%
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	604	-97.2%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	552	-100.0%
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%	10	553	-98.19%	0	0	0.0%	680	1,911	-64.4%
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	55	-100.00%	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%
<b>Ags Futures</b>												
FERTILIZER PRODUCS	0	0	0.0%	0	0	0.00%	0	0	0.0%	7	54	-87.0%
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	-	-	0	-		0	-	-	24	-	-

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Foreign Exchange Options</b>												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	101	173	-41.62%	0	0	0.0%	3,347	4,533	-26.2%
<b>Ag Products Futures</b>												
BLOCK CHEESE	0	0	0.0%	326	605	-46.12%	0	0	0.0%	2,609	6,334	-58.8%
BUTTER CS	0	0	0.0%	3,800	3,641	4.37%	0	0	0.0%	40,240	38,615	4.2%
CASH-SETTLED CHEESE	0	0	0.0%	9,136	11,038	-17.23%	0	0	0.0%	93,815	114,235	-17.9%
CAT ASIA WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CATTLE	0	0	0.0%	1,050,244	886,887	18.42%	0	0	0.0%	12,020,252	11,682,664	2.9%
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%	1,785,801	1,719,357	3.86%	0	0	0.0%	21,827,498	25,170,767	-13.3%
CLASS IV MILK	0	0	0.0%	1,220	4,068	-70.01%	0	0	0.0%	22,868	13,276	72.3%
COFFEE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2	-100.0%
CORN	0	0	0.0%	4,786,219	4,752,793	0.70%	0	0	0.0%	63,852,388	71,597,610	-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%	14,209	21,845	-34.96%	0	0	0.0%	424,654	504,866	-15.9%
DOW-UBS COMMOD INDEX SW	-	-	-	-	-		0	-	-	0	-	-
DRY WHEY	0	0	0.0%	497	1,335	-62.77%	0	0	0.0%	8,998	19,493	-53.8%
FEEDER CATTLE	0	0	0.0%	307,268	253,610	21.16%	0	0	0.0%	2,824,532	2,595,235	8.8%
FERTILIZER PRODUCS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	2,376	3,965	-40.08%	0	0	0.0%	28,350	84,781	-66.6%
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%	898,019	747,655	20.11%	0	0	0.0%	9,636,972	9,678,623	-0.4%
HOUSING INDEX	0	0	0.0%	15	10	50.00%	0	0	0.0%	156	132	18.2%
Intercommodity Spread	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Ag Products Futures</b>												
KC WHEAT	0	0	0.0%	686,774	888,066	-22.67%	0	0	0.0%	8,756,284	10,513,533	-16.7%
LUMBER	0	0	0.0%	12,519	7,935	57.77%	0	0	0.0%	89,148	97,695	-8.7%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	0	0	0.0%	21,533	29,598	-27.25%	0	0	0.0%	279,204	241,002	15.9%
MINI CORN	0	0	0.0%	34,648	30,014	15.44%	0	0	0.0%	551,431	619,640	-11.0%
MINI SOYBEAN	0	0	0.0%	57,574	45,272	27.17%	0	0	0.0%	604,439	575,616	5.0%
MINI WHEAT	0	0	0.0%	31,340	17,172	82.51%	0	0	0.0%	280,351	205,878	36.2%
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%	5,963	6,238	-4.41%	0	0	0.0%	56,848	53,538	6.2%
OATS	0	0	0.0%	9,419	13,609	-30.79%	0	0	0.0%	84,641	106,866	-20.8%
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%	1,607	966	66.36%	0	0	0.0%	21,372	24,161	-11.5%
ROUGH RICE	0	0	0.0%	29,615	24,424	21.25%	0	0	0.0%	189,358	162,674	16.4%
SOYBEAN	0	0	0.0%	5,094,266	4,995,400	1.98%	0	0	0.0%	41,235,511	42,709,542	-3.5%
SOYBEAN MEAL	0	0	0.0%	2,204,364	2,415,204	-8.73%	0	0	0.0%	21,901,536	20,594,960	6.3%
SOYBEAN OIL	0	0	0.0%	2,395,823	2,394,707	0.05%	0	0	0.0%	23,391,138	26,735,217	-12.5%
S&P GSCI ENHANCED ER SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SUGAR 11	-	0	0.0%	-	0	0.00%	-	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	2,582	-100.00%	0	0	0.0%	6,012	31,373	-80.8%
<b>Ag Products Options</b>												
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%	6	42	-85.71%	0	0	0.0%	2,515	2,964	-15.1%
BUTTER CS	0	0	0.0%	1,913	2,339	-18.21%	0	0	0.0%	14,006	19,099	-26.7%
CASH-SETTLED CHEESE	0	0	0.0%	6,163	4,038	52.63%	0	0	0.0%	62,724	61,765	1.6%
CATTLE	0	0	0.0%	192,076	165,880	15.79%	0	0	0.0%	2,126,464	1,880,483	13.1%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHI WHEAT	0	0	0.0%	571,992	522,768	9.42%	0	0	0.0%	5,989,264	4,566,461	31.2%
CLASS IV MILK	0	0	0.0%	6,046	7,972	-24.16%	0	0	0.0%	73,898	39,294	88.1%
CORN	0	0	0.0%	1,725,859	1,906,885	-9.49%	0	0	0.0%	26,493,438	28,178,460	-6.0%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Ag Products Options</b>												
CORN NEARBY+2 CAL SPRD	0	0	0.0%	20,085	10,120	98.47%	0	0	0.0%	220,524	124,896	76.6%
DEC-DEC CORN CAL SPRD	0	0	0.0%	0	1,400	-100.00%	0	0	0.0%	0	2,917	-100.0%
DEC-JULY CORN CAL SPRD	0	0	0.0%	445	6,250	-92.88%	0	0	0.0%	15,861	22,235	-28.7%
DEC-JULY WHEAT CAL SPRD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
DRY WHEY	0	0	0.0%	5	12	-58.33%	0	0	0.0%	2,734	1,758	55.5%
FEEDER CATTLE	0	0	0.0%	38,506	22,837	68.61%	0	0	0.0%	361,206	216,053	67.2%
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%	226,860	164,408	37.99%	0	0	0.0%	2,294,447	2,049,964	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%
JULY-DEC CORN CAL SPRD	0	0	0.0%	650	0	0.00%	0	0	0.0%	78,920	40,105	96.8%
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%	5,286	650	713.23%	0	0	0.0%	48,459	3,072	1,477.4%
KC WHEAT	0	0	0.0%	58,154	85,284	-31.81%	0	0	0.0%	708,524	642,702	10.2%
LUMBER	0	0	0.0%	380	379	0.26%	0	0	0.0%	4,110	7,079	-41.9%
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%	5,115	50	10,130.00%	0	0	0.0%	30,605	450	6,701.1%
MAR-JULY SOYBEAN CAL SPR	0	0	0.0%	50	0	0.00%	0	0	0.0%	650	0	0.0%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	150	0	0.0%
MILK	0	0	0.0%	23,493	30,853	-23.86%	0	0	0.0%	229,446	252,310	-9.1%
MLK MID OPTIONS	0	0	0.0%	0	1	-100.00%	0	0	0.0%	45	16	181.3%
NFD MILK	0	0	0.0%	4,667	2,735	70.64%	0	0	0.0%	35,668	34,148	4.5%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	100	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%	116	899	-87.10%	0	0	0.0%	1,928	3,506	-45.0%

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>Ag Products Options</b>												
PORK CUTOUT	0	0	0.0%	0	1	-100.00%	0	0	0.0%	35	750	-95.3%
ROUGH RICE	0	0	0.0%	2,694	1,117	141.18%	0	0	0.0%	17,327	7,174	141.5%
SEP-DEC SOYBEAN MEAL CSC	0	-	-	0	-		0	-	-	830	-	-
SOYBEAN	0	0	0.0%	908,184	1,272,871	-28.65%	0	0	0.0%	15,013,873	15,746,498	-4.7%
SOYBEAN CRUSH	0	0	0.0%	0	41	-100.00%	0	0	0.0%	165	1,231	-86.6%
SOYBEAN MEAL	0	0	0.0%	175,368	223,771	-21.63%	0	0	0.0%	2,258,785	2,196,452	2.8%
SOYBEAN OIL	0	0	0.0%	226,077	230,207	-1.79%	0	0	0.0%	2,353,200	2,857,077	-17.6%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	5,111	220	2,223.18%	0	0	0.0%	37,159	20,274	83.3%
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	-	-	150	-		0	-	-	1,250	-	-
WHEAT	0	0	0.0%	887	311	185.21%	0	0	0.0%	2,021	6,787	-70.2%
WHEAT-CORN ICSCO	0	0	0.0%	170	20	750.00%	0	0	0.0%	2,522	851	196.4%
WHEAT NEARBY+2 CAL SPRD	0	0	0.0%	2,070	378	447.62%	0	0	0.0%	33,767	5,845	477.7%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	864,053	741,053	16.6%	146,331,544	159,468,262	-8.2%	8,490,216	4,550,444	86.6%	1,757,846,742	1,445,053,096	21.6%
Equity Index Futures	0	0	0.0%	147,052,905	92,741,957	58.6%	0	0	0.0%	1,364,452,106	967,027,071	41.1%
Metals Futures	0	0	0.0%	8,802,462	8,549,949	3.0%	0	0	0.0%	94,065,115	104,508,034	-10.0%
Energy Futures	0	0	0.0%	31,143,059	45,040,079	-30.9%	0	0	0.0%	360,756,518	387,317,314	-6.9%
FX Futures	0	0	0.0%	20,510,253	14,225,856	44.2%	0	0	0.0%	195,029,967	156,315,919	24.8%
Ags Futures	0	0	0.0%	0	0	0.0%	0	0	0.0%	7	54	-87.0%
Foreign Exchange Futures	0	-	-	0	-		0	-	-	24	-	-
Ag Products Futures	0	0	0.0%	19,444,575	19,277,996	0.9%	0	0	0.0%	208,230,696	224,178,501	-7.1%
<b>TOTAL FUTURES</b>	<b>864,053</b>	<b>741,053</b>	<b>16.6%</b>	<b>373,284,798</b>	<b>339,304,099</b>	<b>10.0%</b>	<b>8,490,216</b>	<b>4,550,444</b>	<b>86.6%</b>	<b>3,980,381,175</b>	<b>3,284,399,989</b>	<b>21.2%</b>

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.





## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2022	Open Outcry OCT 2021	% CHG	ELEC OCT 2022	ELEC OCT 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
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	0	0	0.0%	28,917,421	17,605,875	64.2%	0	0	0.0%	237,801,918	141,683,465	67.8%
Interest Rate Options	16,154,062	17,462,034	-7.5%	32,169,931	28,920,194	11.2%	162,406,213	134,022,228	21.2%	288,998,224	258,894,713	11.6%
Metals Options	0	0	0.0%	1,071,398	873,430	22.7%	0	0	0.0%	11,183,988	9,242,932	21.0%
Energy Options	0	0	0.0%	2,428,835	3,207,654	-24.3%	0	0	0.0%	30,188,746	32,463,901	-7.0%
FX Options	0	0	0.0%	826,083	761,628	8.5%	0	0	0.0%	7,872,486	6,995,167	12.5%
Ag Products Options	0	0	0.0%	4,208,678	4,664,739	-9.8%	0	0	0.0%	58,527,289	58,993,197	-0.8%
Foreign Exchange Options	0	0	0.0%	101	173	-41.6%	0	0	0.0%	3,347	4,533	-26.2%
<b>TOTAL OPTIONS</b>	<b>16,154,062</b>	<b>17,462,034</b>	<b>-7.5%</b>	<b>69,622,447</b>	<b>56,033,693</b>	<b>24.3%</b>	<b>162,406,213</b>	<b>134,022,228</b>	<b>21.2%</b>	<b>634,575,998</b>	<b>508,277,908</b>	<b>24.8%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	17,018,115	18,203,087	-6.5%	178,501,475	188,388,456	-5.2%	170,896,429	138,572,672	23.3%	2,046,844,966	1,703,947,809	20.1%
Equity Index	0	0	0.0%	175,970,326	110,347,832	59.5%	0	0	0.0%	1,602,254,024	1,108,710,536	44.5%
Metals	0	0	0.0%	9,873,860	9,423,379	4.8%	0	0	0.0%	105,249,103	113,750,966	-7.5%
Energy	0	0	0.0%	33,571,894	48,247,733	-30.4%	0	0	0.0%	390,945,264	419,781,215	-6.9%
FX	0	0	0.0%	21,336,336	14,987,484	42.4%	0	0	0.0%	202,902,453	163,311,086	24.2%
Ags	0	0	0.0%	0	0	0.0%	0	0	0.0%	7	54	-87.0%
Foreign Exchange	0	0	0.0%	101	173	-41.6%	0	0	0.0%	3,371	4,533	-25.6%
Ag Products	0	0	0.0%	23,653,253	23,942,735	-1.2%	0	0	0.0%	266,757,985	283,171,698	-5.8%
<b>GRAND TOTAL</b>	<b>17,018,115</b>	<b>18,203,087</b>	<b>-6.5%</b>	<b>442,907,245</b>	<b>395,337,792</b>	<b>12.0%</b>	<b>170,896,429</b>	<b>138,572,672</b>	<b>23.3%</b>	<b>4,614,957,173</b>	<b>3,792,677,897</b>	<b>21.7%</b>

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.