

## CME Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>Interest Rate Futures</b>												
1-MONTH EURODOLLAR	0	0	0.0%	12	0	0.0%	0	0	0.0%	349	2	17,350.0%
BSBY 3-MONTH FUTURES	0	0	0.0%	17,710	95,019	-81.4%	0	0	0.0%	556,958	395,446	40.8%
ESTR Basis Spread Futures	0	-	-	1,639	-	-	0	-	-	1,680	-	-
ESTR Futures	0	-	-	5,634	-	-	0	-	-	5,645	-	-
EURODOLLARS	309,454	748,494	-58.7%	14,747,878	58,898,089	-75.0%	7,774,035	5,298,938	46.7%	371,194,368	552,648,823	-32.8%
SOFR	331,564	0	0.0%	48,012,164	6,354,343	655.6%	1,357,199	0	0.0%	394,709,618	33,003,742	1,096.0%
SONIA	0	0	0.0%	0	5,403	-100.0%	0	0	0.0%	1,293	803,512	-99.8%
TIIE	0	0	0.0%	25	39	-35.9%	0	0	0.0%	941	818	15.0%
<b>Interest Rate Options</b>												
EURODOLLARS	2,030,484	6,461,923	-68.6%	7,535,087	3,400,734	121.6%	77,421,659	34,159,511	126.6%	47,121,986	17,979,963	162.1%
EURO MIDCURVE	405,105	11,295,273	-96.4%	344,159	7,157,925	-95.2%	41,378,990	117,612,603	-64.8%	21,606,345	62,810,946	-65.6%
SOFR	9,828,673	0	0.0%	3,557,395	0	0.0%	45,353,302	7,310	620,328.2%	16,731,139	1,342	1,246,631.7%
SOFR MIDCURVE	2,940,389	0	0.0%	1,022,535	15	6,816,800.0%	13,456,913	0	0.0%	5,068,361	100	5,068,261.0%
<b>Equity Index Futures</b>												
BITCOIN	0	0	0.0%	276,537	192,986	43.3%	0	0	0.0%	2,405,830	2,329,055	3.3%
E-mini FTSE China 50	0	0	0.0%	231	94	145.7%	0	0	0.0%	7,353	759	868.8%
E-MINI MIDCAP	0	0	0.0%	264,597	282,904	-6.5%	0	0	0.0%	3,590,218	2,847,460	26.1%
E-MINI NASDAQ 100	0	0	0.0%	13,148,790	11,762,671	11.8%	0	0	0.0%	162,123,289	125,403,409	29.3%
E-MINI RUSSELL 1000	0	0	0.0%	642	2,443	-73.7%	0	0	0.0%	30,911	47,087	-34.4%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	1,723	2,215	-22.2%	0	0	0.0%	48,347	33,604	43.9%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	2,527	6,033	-58.1%	0	0	0.0%	81,284	83,880	-3.1%
E-MINI RUSSELL 2000	0	0	0.0%	3,996,508	4,283,143	-6.7%	0	0	0.0%	54,595,961	44,953,808	21.4%
E-MINI S&P500	0	0	0.0%	35,981,607	29,093,730	23.7%	0	0	0.0%	457,474,637	356,576,880	28.3%
E-MINI S&P500 ESG	0	0	0.0%	15,606	10,396	50.1%	0	0	0.0%	276,003	143,045	92.9%
ETHER	0	-	-	0	-	-	0	-	-	7	-	-
ETHER FUTURES	0	0	0.0%	167,913	121,928	37.7%	0	0	0.0%	1,489,330	796,866	86.9%
FT-SE 100	0	0	0.0%	4	26	-84.6%	0	0	0.0%	1,528	284	438.0%
FTSE Emerging	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	5	-100.0%
IBOVESPA INDEX	0	0	0.0%	44	266	-83.5%	0	0	0.0%	625	2,499	-75.0%

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<b>Equity Index Futures</b>												
MICRO BITCOIN	0	0	0.0%	343,673	579,866	-40.7%	0	0	0.0%	3,564,613	3,307,940	7.8%
MICRO E-MINI NASDAQ 100	0	0	0.0%	26,067,137	21,324,242	22.2%	0	0	0.0%	341,925,355	214,500,635	59.4%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	2,240,312	3,738,620	-40.1%	0	0	0.0%	31,094,856	35,076,511	-11.4%
MICRO E-MINI S&P500	0	0	0.0%	27,185,751	18,104,077	50.2%	0	0	0.0%	317,898,853	196,653,723	61.7%
MICRO ETHER	0	-	-	474,356	-	-	0	-	-	4,725,382	-	-
NASDAQ-100 VOLATILITY	0	0	0.0%	36	14	157.1%	0	0	0.0%	18,555	111	16,616.2%
NASDAQ BIOTECH SECTOR	0	0	0.0%	63	53	18.9%	0	0	0.0%	2,223	5,624	-60.5%
Nearby BTIC+	0	0	0.0%	50	0	0.0%	0	0	0.0%	5,250	456	1,051.3%
NIKKEI 225 (\$) STOCK	0	0	0.0%	96,887	98,152	-1.3%	0	0	0.0%	1,270,158	1,428,930	-11.1%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	588,830	654,782	-10.1%	0	0	0.0%	8,502,685	7,376,114	15.3%
PHLX SEMICONDUCTOR SECT	0	-	-	229	-	-	0	-	-	1,692	-	-
S&P 500	0	0	0.0%	2,619	449	483.3%	0	0	0.0%	8,465	13,236	-36.0%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	22,505	14,047	60.2%	0	0	0.0%	309,661	150,355	106.0%
S&P 500/GI	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	6,480	160	3,950.0%	0	0	0.0%	24,708	1,024	2,312.9%
S&P 600 SMALLCAP EMINI	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
S&P BIOTECHNOLOGY SECTO	0	-	-	681	-	-	0	-	-	8,822	-	-
S&P COMMUNICATION SERVIC	0	0	0.0%	1,210	1,601	-24.4%	0	0	0.0%	35,803	29,251	22.4%
S&P CONSUMER DISCRETION	0	0	0.0%	3,260	10,832	-69.9%	0	0	0.0%	75,218	106,936	-29.7%
S&P CONSUMER STAPLES SE	0	0	0.0%	8,494	7,959	6.7%	0	0	0.0%	182,093	181,374	0.4%
S&P ENERGY SECTOR	0	0	0.0%	18,963	21,956	-13.6%	0	0	0.0%	475,229	299,770	58.5%
S&P FINANCIAL SECTOR	0	0	0.0%	8,700	20,857	-58.3%	0	0	0.0%	251,446	328,787	-23.5%
S&P HEALTH CARE SECTOR	0	0	0.0%	5,374	11,707	-54.1%	0	0	0.0%	187,691	165,740	13.2%
S&P INDUSTRIAL SECTOR	0	0	0.0%	7,335	5,998	22.3%	0	0	0.0%	140,767	109,387	28.7%
S&P MATERIALS SECTOR	0	0	0.0%	5,562	5,074	9.6%	0	0	0.0%	90,828	91,149	-0.4%
S&P OIL & GAS EXPLORATION	0	-	-	316	-	-	0	-	-	4,635	-	-
S&P REAL ESTATE SECTOR	0	0	0.0%	1,382	2,065	-33.1%	0	0	0.0%	43,935	45,390	-3.2%
S&P REGIONAL BANKS SECTO	0	-	-	272	-	-	0	-	-	2,311	-	-
S&P RETAIL SECTOR	0	-	-	289	-	-	0	-	-	3,128	-	-
S&P TECHNOLOGY SECTOR	0	0	0.0%	9,227	8,247	11.9%	0	0	0.0%	223,091	126,298	76.6%
S&P UTILITIES SECTOR	0	0	0.0%	8,580	16,313	-47.4%	0	0	0.0%	186,577	178,903	4.3%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
WATER INDEX FUTURES	0	0	0.0%	3	1	200.0%	0	0	0.0%	595	947	-37.2%
YEN DENOMINATED TOPIX	0	0	0.0%	147	4,039	-96.4%	0	0	0.0%	19,952	27,333	-27.0%

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<b>Equity Index Options</b>												
BITCOIN OPTIONS	0	0	0.0%	2,394	1,233	94.2%	0	0	0.0%	17,063	12,548	36.0%
E-MINI NASDAQ 100	0	0	0.0%	933,724	643,663	45.1%	0	0	0.0%	11,005,313	6,292,612	74.9%
E-mini Russell 2000	0	0	0.0%	58,690	121,475	-51.7%	0	0	0.0%	1,101,019	1,035,404	6.3%
E-MINI RUSSELL 2000	0	0	0.0%	35,996	59,871	-39.9%	0	0	0.0%	350,934	337,394	4.0%
E-mini S&P 500	0	0	0.0%	10,467,990	8,925,718	17.3%	0	0	0.0%	122,270,236	80,467,812	51.9%
E-MINI S&P500	0	0	0.0%	13,071,425	8,694,382	50.3%	0	0	0.0%	124,405,974	70,073,990	77.5%
EOM S&P 500	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2,156	-100.0%
ETHER OPTIONS	0	-	-	446	-	-	0	-	-	840	-	-
MICRO BITCOIN	0	-	-	3,430	-	-	0	-	-	74,447	-	-
Micro E-mini Nasdaq-100	0	0	0.0%	37,426	38,379	-2.5%	0	0	0.0%	467,156	315,543	48.0%
MICRO E-MINI NASDAQ 100	0	0	0.0%	10,134	11,191	-9.4%	0	0	0.0%	126,266	67,619	86.7%
Micro E-mini S&P 500	0	0	0.0%	257,197	247,514	3.9%	0	0	0.0%	2,592,494	1,804,596	43.7%
MICRO ETHER	0	-	-	30,233	-	-	0	-	-	272,422	-	-
S&P 500	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	200	-100.0%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	217	0	0.0%	0	0	0.0%	736	172	327.9%
AD/JY CROSS RATES	0	0	0.0%	2,605	3,099	-15.9%	0	0	0.0%	48,106	24,709	94.7%
AD/NE CROSS RATES	0	0	0.0%	1,791	507	253.3%	0	0	0.0%	40,723	3,501	1,063.2%
AUSTRALIAN DOLLAR	0	0	0.0%	2,118,822	1,809,084	17.1%	0	0	0.0%	23,301,178	22,394,791	4.0%
BP/JY CROSS RATES	0	0	0.0%	2,724	2,498	9.0%	0	0	0.0%	48,562	27,338	77.6%
BP/SF CROSS RATES	0	0	0.0%	1,146	1,391	-17.6%	0	0	0.0%	23,029	8,900	158.8%
BRAZIL REAL	0	0	0.0%	367,245	215,405	70.5%	0	0	0.0%	3,175,168	2,528,221	25.6%
BRITISH POUND	0	0	0.0%	2,369,458	2,035,010	16.4%	0	0	0.0%	28,351,672	21,677,222	30.8%
CANADIAN DOLLAR	0	0	0.0%	1,783,225	1,564,740	14.0%	0	0	0.0%	20,809,530	18,154,421	14.6%
CD/JY CROSS RATES	0	0	0.0%	29	446	-93.5%	0	0	0.0%	387	1,979	-80.4%
CHINESE RENMINBI (CNH)	0	0	0.0%	44,931	16,254	176.4%	0	0	0.0%	343,964	181,053	90.0%
CZECK KORUNA (EC)	0	0	0.0%	0	0	0.0%	0	0	0.0%	19	2	850.0%
CZECK KORUNA (US)	0	0	0.0%	9	4	125.0%	0	0	0.0%	37	12	208.3%
EC/AD CROSS RATES	0	0	0.0%	3,803	2,814	35.1%	0	0	0.0%	61,004	49,892	22.3%
EC/CD CROSS RATES	0	0	0.0%	4,340	4,358	-0.4%	0	0	0.0%	84,933	74,755	13.6%
EC/NOK CROSS RATES	0	0	0.0%	1,005	128	685.2%	0	0	0.0%	19,714	6,693	194.5%

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<b>FX Futures</b>												
EC/SEK CROSS RATES	0	0	0.0%	1,517	355	327.3%	0	0	0.0%	24,749	6,531	278.9%
EFX/BP CROSS RATES	0	0	0.0%	65,559	37,389	75.3%	0	0	0.0%	1,030,979	604,213	70.6%
EFX/JY CROSS RATES	0	0	0.0%	26,131	38,076	-31.4%	0	0	0.0%	577,829	462,363	25.0%
EFX/SF CROSS RATES	0	0	0.0%	13,899	23,119	-39.9%	0	0	0.0%	414,482	256,908	61.3%
E-MICRO USD/CAD	0	0	0.0%	76	490	-84.5%	0	0	0.0%	1,914	2,194	-12.8%
E-MICRO USD/CHF	0	0	0.0%	27	49	-44.9%	0	0	0.0%	766	132	480.3%
E-MICRO USD/JPY	0	0	0.0%	1,200	5,033	-76.2%	0	0	0.0%	152,361	7,954	1,815.5%
E-MINI EURO FX	0	0	0.0%	186,774	109,017	71.3%	0	0	0.0%	1,708,126	1,304,128	31.0%
E-MINI JAPANESE YEN	0	0	0.0%	9,960	8,505	17.1%	0	0	0.0%	131,656	101,281	30.0%
EURO FX	0	0	0.0%	4,660,219	3,925,540	18.7%	0	0	0.0%	54,807,710	43,582,489	25.8%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	0	0.0%	0	0	0.0%	3	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	6	6	0.0%	0	0	0.0%	48	177	-72.9%
INDIAN RUPEE	0	0	0.0%	33,070	16,976	94.8%	0	0	0.0%	299,751	156,242	91.9%
JAPANESE YEN	0	0	0.0%	3,024,617	2,469,996	22.5%	0	0	0.0%	35,783,701	24,680,849	45.0%
KOREAN WON	0	0	0.0%	336	396	-15.2%	0	0	0.0%	3,711	12,218	-69.6%
MEXICAN PESO	0	0	0.0%	1,218,473	1,102,997	10.5%	0	0	0.0%	13,447,232	12,121,403	10.9%
MICRO AUD/USD	0	0	0.0%	271,953	314,611	-13.6%	0	0	0.0%	2,916,229	2,381,001	22.5%
MICRO CAD/USD	0	0	0.0%	80,400	55,396	45.1%	0	0	0.0%	694,035	618,530	12.2%
MICRO CHF/USD	0	0	0.0%	15,839	10,691	48.2%	0	0	0.0%	189,941	97,489	94.8%
MICRO EUR/USD	0	0	0.0%	873,666	580,150	50.6%	0	0	0.0%	8,796,529	5,383,743	63.4%
MICRO GBP/USD	0	0	0.0%	126,339	146,207	-13.6%	0	0	0.0%	1,379,196	916,302	50.5%
MICRO INR/USD	0	0	0.0%	764	738	3.5%	0	0	0.0%	7,807	18,272	-57.3%
MICRO JPY/USD	0	0	0.0%	0	86,243	-100.0%	0	0	0.0%	101,719	432,297	-76.5%
MICRO USD/CNH	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	36	-94.4%
NEW ZEALND DOLLAR	0	0	0.0%	609,881	489,622	24.6%	0	0	0.0%	7,115,365	6,441,738	10.5%
NKR/USD CROSS RATE	0	0	0.0%	1,386	3,543	-60.9%	0	0	0.0%	29,909	49,212	-39.2%
POLISH ZLOTY (EC)	0	0	0.0%	6	26	-76.9%	0	0	0.0%	1,219	1,402	-13.1%
POLISH ZLOTY (US)	0	0	0.0%	2,087	750	178.3%	0	0	0.0%	15,610	9,569	63.1%
RMB USD	0	0	0.0%	0	0	0.0%	0	0	0.0%	29	3	866.7%
RUSSIAN RUBLE	0	0	0.0%	0	173,500	-100.0%	0	0	0.0%	576,766	1,251,845	-53.9%
S.AFRICAN RAND	0	0	0.0%	67,749	73,736	-8.1%	0	0	0.0%	974,401	647,802	50.4%
SF/JY CROSS RATES	0	0	0.0%	1,236	50	2,372.0%	0	0	0.0%	6,832	379	1,702.6%
SHEKEL	0	0	0.0%	6	25	-76.0%	0	0	0.0%	153	44	247.7%
SKR/USD CROSS RATES	0	0	0.0%	5,327	4,601	15.8%	0	0	0.0%	68,323	53,993	26.5%
SWISS FRANC	0	0	0.0%	450,688	541,407	-16.8%	0	0	0.0%	5,912,606	5,454,417	8.4%

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<b>FX Futures</b>												
TURKISH LIRA	0	0	0.0%	0	0	0.0%	0	0	0.0%	26	8	225.0%
USDZAR	0	0	0.0%	0	1,207	-100.0%	0	0	0.0%	31	1,279	-97.6%
<b>FX Options</b>												
AUD/USD MONDAY OPTION W	0	0	0.0%	89	1,969	-95.5%	0	0	0.0%	1,848	6,223	-70.3%
AUD/USD MONDAY OPTION W	0	0	0.0%	43	150	-71.3%	0	0	0.0%	3,304	3,876	-14.8%
AUD/USD MONDAY OPTION W	0	0	0.0%	417	153	172.5%	0	0	0.0%	2,837	4,137	-31.4%
AUD/USD MONDAY OPTION W	0	0	0.0%	346	12	2,783.3%	0	0	0.0%	3,580	4,524	-20.9%
AUD/USD MONDAY OPTION W	0	0	0.0%	0	986	-100.0%	0	0	0.0%	1,363	2,356	-42.1%
AUD/USD MONTHLY OPTIONS	0	0	0.0%	64,366	58,760	9.5%	0	0	0.0%	746,648	551,993	35.3%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	896	0	0.0%	0	0	0.0%	5,468	7,231	-24.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,043	3,424	-40.3%	0	0	0.0%	17,041	20,099	-15.2%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,242	2,484	-50.0%	0	0	0.0%	20,652	29,176	-29.2%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	878	3,885	-77.4%	0	0	0.0%	16,990	33,182	-48.8%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	164	-100.0%	0	0	0.0%	5,196	8,805	-41.0%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	50	1,083	-95.4%	0	0	0.0%	6,111	12,878	-52.5%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,003	344	191.6%	0	0	0.0%	5,674	8,190	-30.7%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	33	71	-53.5%	0	0	0.0%	2,190	3,139	-30.2%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	849	516	64.5%	0	0	0.0%	5,584	9,585	-41.7%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	380	0	0.0%	0	0	0.0%	958	1,985	-51.7%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	233	697	-66.6%	0	0	0.0%	3,276	3,988	-17.9%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,819	1,444	26.0%	0	0	0.0%	4,337	10,339	-58.1%
CAD/USD MONDAY OPTIONS	0	0	0.0%	796	708	12.4%	0	0	0.0%	11,508	16,428	-29.9%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,403	378	271.2%	0	0	0.0%	11,449	10,682	7.2%
CAD/USD MONDAY OPTIONS	0	0	0.0%	190	386	-50.8%	0	0	0.0%	7,207	22,893	-68.5%
CAD/USD MONDAY OPTIONS	0	0	0.0%	0	1,224	-100.0%	0	0	0.0%	2,775	4,371	-36.5%
CAD/USD MONTHLY OPTIONS	0	0	0.0%	99,626	69,446	43.5%	0	0	0.0%	699,872	758,714	-7.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,298	0	0.0%	0	0	0.0%	16,217	27,536	-41.1%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,638	8,738	-69.8%	0	0	0.0%	36,120	54,502	-33.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,762	7,527	-50.0%	0	0	0.0%	56,559	84,257	-32.9%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,846	4,468	-36.3%	0	0	0.0%	48,629	97,518	-50.1%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	6	120	-95.0%	0	0	0.0%	12,626	28,139	-55.1%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	746	2,089	-64.3%	0	0	0.0%	10,910	23,281	-53.1%

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## CME Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>FX Options</b>												
CAD/USD WKLY WED OPTIONS	0	0	0.0%	783	2,043	-61.7%	0	0	0.0%	12,808	20,414	-37.3%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	459	4,169	-89.0%	0	0	0.0%	15,026	24,336	-38.3%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	810	945	-14.3%	0	0	0.0%	16,624	27,286	-39.1%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,038	0	0.0%	0	0	0.0%	5,512	9,035	-39.0%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	3,646	5,493	-33.6%	0	0	0.0%	46,455	60,969	-23.8%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	166	0	0.0%	0	0	0.0%	1,155	411	181.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	36	1,091	-96.7%	0	0	0.0%	937	3,383	-72.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	249	83	200.0%	0	0	0.0%	1,296	1,965	-34.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	162	377	-57.0%	0	0	0.0%	1,399	2,808	-50.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	83	3	2,666.7%	0	0	0.0%	200	285	-29.8%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	204	6	3,300.0%
EUR/GBP WKLY FRIDAY OPTIC	0	0	0.0%	0	100	-100.0%	0	0	0.0%	0	100	-100.0%
EURODOLLARS	0	-	-	3,332	-	-	0	-	-	6,842	-	-
EUR/USD MONDAY OPTION W	0	0	0.0%	1,033	785	31.6%	0	0	0.0%	20,287	20,167	0.6%
EUR/USD MONDAY OPTION W	0	0	0.0%	3,017	714	322.5%	0	0	0.0%	27,974	17,688	58.2%
EUR/USD MONDAY OPTION W	0	0	0.0%	1,962	1,005	95.2%	0	0	0.0%	12,385	16,593	-25.4%
EUR/USD MONDAY OPTION W	0	0	0.0%	638	4,924	-87.0%	0	0	0.0%	26,946	30,888	-12.8%
EUR/USD MONDAY OPTION W	0	0	0.0%	0	3,149	-100.0%	0	0	0.0%	5,022	9,094	-44.8%
EUR/USD MONTHLY OPTIONS	0	0	0.0%	327,101	193,747	68.8%	0	0	0.0%	2,808,639	2,139,124	31.3%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	13,182	0	0.0%	0	0	0.0%	63,586	49,464	28.6%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,794	29,497	-70.2%	0	0	0.0%	143,961	155,371	-7.3%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	18,883	32,767	-42.4%	0	0	0.0%	177,380	231,849	-23.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	12,137	15,676	-22.6%	0	0	0.0%	185,746	198,652	-6.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	9	163	-94.5%	0	0	0.0%	58,038	85,936	-32.5%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	3,254	8,027	-59.5%	0	0	0.0%	69,663	73,417	-5.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,111	8,553	-40.2%	0	0	0.0%	60,452	77,081	-21.6%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,963	9,834	-39.4%	0	0	0.0%	59,321	75,072	-21.0%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,767	10,056	-42.7%	0	0	0.0%	70,415	98,580	-28.6%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	3,037	0	0.0%	0	0	0.0%	23,274	25,392	-8.3%
GBP/USD MONDAY OPTION W	0	0	0.0%	688	239	187.9%	0	0	0.0%	5,977	4,639	28.8%
GBP/USD MONDAY OPTION W	0	0	0.0%	451	729	-38.1%	0	0	0.0%	11,163	6,677	67.2%
GBP/USD MONDAY OPTION W	0	0	0.0%	643	828	-22.3%	0	0	0.0%	3,826	4,859	-21.3%
GBP/USD MONDAY OPTION W	0	0	0.0%	483	1,153	-58.1%	0	0	0.0%	6,192	6,708	-7.7%
GBP/USD MONDAY OPTION W	0	0	0.0%	0	584	-100.0%	0	0	0.0%	3,321	1,238	168.3%
GBP/USD MONTHLY OPTIONS	0	0	0.0%	62,468	67,254	-7.1%	0	0	0.0%	832,860	799,891	4.1%

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<b>FX Options</b>												
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,615	0	0.0%	0	0	0.0%	9,122	12,239	-25.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,471	7,242	-52.1%	0	0	0.0%	25,874	31,654	-18.3%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	6,609	4,422	49.5%	0	0	0.0%	33,684	32,701	3.0%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,944	3,184	-38.9%	0	0	0.0%	27,695	38,746	-28.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	62	29	113.8%	0	0	0.0%	8,831	10,444	-15.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	661	1,288	-48.7%	0	0	0.0%	13,289	12,989	2.3%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	509	1,383	-63.2%	0	0	0.0%	5,341	8,166	-34.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,054	2,006	-47.5%	0	0	0.0%	10,933	8,777	24.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	803	2,645	-69.6%	0	0	0.0%	10,871	14,323	-24.1%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	650	0	0.0%	0	0	0.0%	1,320	2,591	-49.1%
JPY/USD MONDAY OPTION WE	0	0	0.0%	88	121	-27.3%	0	0	0.0%	6,782	3,973	70.7%
JPY/USD MONDAY OPTION WE	0	0	0.0%	1,563	136	1,049.3%	0	0	0.0%	9,428	6,147	53.4%
JPY/USD MONDAY OPTION WE	0	0	0.0%	109	208	-47.6%	0	0	0.0%	3,085	4,100	-24.8%
JPY/USD MONDAY OPTION WE	0	0	0.0%	289	640	-54.8%	0	0	0.0%	12,444	4,669	166.5%
JPY/USD MONDAY OPTION WE	0	0	0.0%	0	200	-100.0%	0	0	0.0%	967	2,897	-66.6%
JPY/USD MONTHLY OPTIONS	0	0	0.0%	74,881	79,469	-5.8%	0	0	0.0%	1,367,549	891,601	53.4%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	5,796	0	0.0%	0	0	0.0%	37,624	28,297	33.0%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	6,686	17,151	-61.0%	0	0	0.0%	86,274	68,900	25.2%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	10,842	13,213	-17.9%	0	0	0.0%	124,734	109,127	14.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	3,501	7,843	-55.4%	0	0	0.0%	112,335	99,197	13.2%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	21	310	-93.2%	0	0	0.0%	37,070	36,637	1.2%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	1,728	5,984	-71.1%	0	0	0.0%	42,323	34,295	23.4%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,165	6,053	-47.7%	0	0	0.0%	39,469	42,157	-6.4%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,992	7,142	-58.1%	0	0	0.0%	35,010	38,889	-10.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,101	6,799	-69.1%	0	0	0.0%	46,248	38,684	19.6%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,561	0	0.0%	0	0	0.0%	14,891	7,879	89.0%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	954	972	-1.9%	0	0	0.0%	7,819	15,504	-49.6%
MXN/USD WKLY FRIDAY OPTI	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	300	-100.0%	0	0	0.0%	17	904	-98.1%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	100	0	0.0%	0	0	0.0%	100	552	-81.9%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	631	-100.0%
MXN/USD WKLY FRIDAY OPTI	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NZD/USD MONTHLY OPTIONS	0	0	0.0%	4	587	-99.3%	0	0	0.0%	684	2,498	-72.6%
NZD/USD WKLY FRIDAY OPTIO	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	67	-100.0%

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<b>FX Options</b>												
NZD/USD WKLY FRIDAY OPTIO	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
RUB/USD MONTHLY OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	68	-100.0%
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	-	-	0	-	-	0	-	-	24	-	-
<b>Foreign Exchange Options</b>												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	63	570	-88.9%	0	0	0.0%	3,410	5,103	-33.2%



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<b>Ag Products Futures</b>												
BLOCK CHEESE	0	0	0.0%	189	270	-30.0%	0	0	0.0%	2,798	6,604	-57.6%
BUTTER CS	0	0	0.0%	3,733	3,812	-2.1%	0	0	0.0%	43,973	42,427	3.6%
CASH-SETTLED CHEESE	0	0	0.0%	9,198	15,286	-39.8%	0	0	0.0%	103,013	129,521	-20.5%
CAT ASIA WEATHER	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CATTLE	0	0	0.0%	1,200,984	1,271,639	-5.6%	0	0	0.0%	13,221,236	12,954,303	2.1%
CAT WEATHER EUROPEAN	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CDD WEATHER	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CLASS IV MILK	0	0	0.0%	1,129	3,996	-71.7%	0	0	0.0%	23,997	17,272	38.9%
DRY WHEY	0	0	0.0%	669	1,565	-57.3%	0	0	0.0%	9,667	21,058	-54.1%
FEEDER CATTLE	0	0	0.0%	277,193	233,821	18.5%	0	0	0.0%	3,101,725	2,829,056	9.6%
GOLDMAN SACHS	0	0	0.0%	2,194	5,090	-56.9%	0	0	0.0%	30,544	89,871	-66.0%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.0%	0	0	0.0%	91	151	-39.7%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HDD SEASONAL STRIP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HDD WEATHER	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HOGS	0	0	0.0%	943,827	968,318	-2.5%	0	0	0.0%	10,580,799	10,646,941	-0.6%
HOUSING INDEX	0	0	0.0%	17	20	-15.0%	0	0	0.0%	173	152	13.8%
LUMBER	0	0	0.0%	8,308	7,269	14.3%	0	0	0.0%	97,456	104,964	-7.2%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
MILK	0	0	0.0%	25,536	31,211	-18.2%	0	0	0.0%	304,740	272,213	11.9%
MLK MID OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NFD MILK	0	0	0.0%	4,838	5,480	-11.7%	0	0	0.0%	61,686	59,018	4.5%
PACIFIC RIM DAT SS WTHR	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PORK CUTOUT	0	0	0.0%	1,489	2,221	-33.0%	0	0	0.0%	22,861	26,382	-13.3%
S&P GSCI ENHANCED ER SWA	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
USD CRUDE PALM OIL	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%

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<b>Ag Products Options</b>												
BLOCK CHEESE	0	0	0.0%	0	0	0.0%	0	0	0.0%	2,515	2,964	-15.1%
BUTTER CS	0	0	0.0%	2,185	1,862	17.3%	0	0	0.0%	16,191	20,961	-22.8%
CASH-SETTLED CHEESE	0	0	0.0%	4,646	5,395	-13.9%	0	0	0.0%	67,370	67,160	0.3%
CATTLE	0	0	0.0%	204,546	238,747	-14.3%	0	0	0.0%	2,331,010	2,119,230	10.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CDD WEATHER	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CLASS IV MILK	0	0	0.0%	8,096	7,926	2.1%	0	0	0.0%	81,994	47,220	73.6%
DRY WHEY	0	0	0.0%	0	45	-100.0%	0	0	0.0%	2,734	1,803	51.6%
FEEDER CATTLE	0	0	0.0%	28,770	27,336	5.2%	0	0	0.0%	389,976	243,389	60.2%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HDD SEASONAL STRIP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HDD WEATHER	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HOGS	0	0	0.0%	183,582	180,669	1.6%	0	0	0.0%	2,478,029	2,230,633	11.1%
HOUSING INDEX	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
LUMBER	0	0	0.0%	206	539	-61.8%	0	0	0.0%	4,316	7,618	-43.3%
LV CATL CSO	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
MILK	0	0	0.0%	32,763	25,050	30.8%	0	0	0.0%	262,209	277,360	-5.5%
MLK MID OPTIONS	0	0	0.0%	1	12	-91.7%	0	0	0.0%	46	28	64.3%
NFD MILK	0	0	0.0%	2,579	2,053	25.6%	0	0	0.0%	38,247	36,201	5.7%
PORK CUTOUT	0	0	0.0%	10	0	0.0%	0	0	0.0%	45	750	-94.0%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	641,018	748,494	-14.4%	62,785,062	65,352,893	-3.9%	9,131,234	5,298,938	72.3%	766,470,852	586,852,343	30.6%
Equity Index Futures	0	0	0.0%	110,965,452	90,389,946	22.8%	0	0	0.0%	1,393,409,900	993,424,565	40.3%
FX Futures	0	0	0.0%	18,450,541	15,876,185	16.2%	0	0	0.0%	213,480,508	172,192,104	24.0%
Foreign Exchange Futures	0	-	-	0	-	-	0	-	-	24	-	-
Ag Products Futures	0	0	0.0%	2,479,304	2,549,998	-2.8%	0	0	0.0%	27,604,759	27,199,933	1.5%
<b>TOTAL FUTURES</b>	<b>641,018</b>	<b>748,494</b>	<b>-14.4%</b>	<b>194,680,359</b>	<b>174,169,022</b>	<b>11.8%</b>	<b>9,131,234</b>	<b>5,298,938</b>	<b>72.3%</b>	<b>2,400,966,043</b>	<b>1,779,668,945</b>	<b>34.9%</b>

## CME Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2022	Open Outcry NOV 2021	% CHG	ELEC NOV 2022	ELEC NOV 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	0	0	0.0%	24,909,085	18,743,426	32.9%	0	0	0.0%	262,684,164	160,409,874	63.8%
Interest Rate Options	15,204,651	17,757,196	-14.4%	12,459,176	10,558,674	18.0%	177,610,864	151,779,424	17.0%	90,527,831	80,792,351	12.1%
FX Options	0	0	0.0%	811,142	744,541	8.9%	0	0	0.0%	8,683,628	7,739,708	12.2%
Ag Products Options	0	0	0.0%	467,384	489,634	-4.5%	0	0	0.0%	5,674,682	5,055,317	12.3%
Foreign Exchange Options	0	0	0.0%	63	570	-88.9%	0	0	0.0%	3,410	5,103	-33.2%
<b>TOTAL OPTIONS</b>	<b>15,204,651</b>	<b>17,757,196</b>	<b>-14.4%</b>	<b>38,646,850</b>	<b>30,536,845</b>	<b>26.6%</b>	<b>177,610,864</b>	<b>151,779,424</b>	<b>17.0%</b>	<b>367,573,715</b>	<b>254,002,353</b>	<b>44.7%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	15,845,669	18,505,690	-14.4%	75,244,238	75,911,567	-0.9%	186,742,098	157,078,362	18.9%	856,998,683	667,644,694	28.4%
Equity Index	0	0	0.0%	135,874,537	109,133,372	24.5%	0	0	0.0%	1,656,094,064	1,153,834,439	43.5%
FX	0	0	0.0%	19,261,683	16,620,726	15.9%	0	0	0.0%	222,164,136	179,931,812	23.5%
Foreign Exchange	0	0	0.0%	63	570	-88.9%	0	0	0.0%	3,434	5,103	-32.7%
Ag Products	0	0	0.0%	2,946,688	3,039,632	-3.1%	0	0	0.0%	33,279,441	32,255,250	3.2%
<b>GRAND TOTAL</b>	<b>15,845,669</b>	<b>18,505,690</b>	<b>-14.4%</b>	<b>233,327,209</b>	<b>204,705,867</b>	<b>14.0%</b>	<b>186,742,098</b>	<b>157,078,362</b>	<b>18.9%</b>	<b>2,768,539,758</b>	<b>2,033,671,298</b>	<b>36.1%</b>