

## CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>Interest Rate Futures</b>												
1-MONTH EURODOLLAR	0	0	0.0%	9	670	-98.7%	0	0	0.0%	358	672	-46.7%
BSBY 3-MONTH FUTURES	0	0	0.0%	9,433	92,586	-89.8%	0	0	0.0%	566,391	488,032	16.1%
ESTR Basis Spread Futures	0	-	-	859	-	-	0	-	-	2,539	-	-
ESTR Futures	0	-	-	11,134	-	-	0	-	-	16,779	-	-
EURODOLLARS	261,091	468,202	-44.2%	9,743,986	42,478,556	-77.1%	8,035,126	5,767,140	39.3%	380,938,354	595,127,379	-36.0%
SOFR	264,760	0	0.0%	39,955,183	6,285,564	535.7%	1,621,959	0	0.0%	434,664,801	39,289,306	1,006.3%
SONIA	0	0	0.0%	593	1,583	-62.5%	0	0	0.0%	1,886	805,095	-99.8%
TIIE	0	0	0.0%	130	54	140.7%	0	0	0.0%	1,071	872	22.8%
<b>Interest Rate Options</b>												
EURODOLLARS	1,503,955	6,559,496	-77.1%	6,194,816	2,709,516	128.6%	78,925,614	40,719,007	93.8%	53,316,802	20,689,479	157.7%
EURO MIDCURVE	181,026	6,928,321	-97.4%	240,944	3,719,930	-93.5%	41,560,016	124,540,924	-66.6%	21,847,289	66,530,876	-67.2%
SOFR	8,941,356	0	0.0%	2,573,699	203	1,267,732.0%	54,294,658	7,310	742,645.0%	19,304,838	1,545	1,249,404.1%
SOFR MIDCURVE	2,975,563	0	0.0%	1,222,672	1	122,267,100.0%	16,432,476	0	0.0%	6,291,033	101	6,228,645.5%
<b>Equity Index Futures</b>												
BITCOIN	0	0	0.0%	139,382	163,245	-14.6%	0	0	0.0%	2,545,212	2,492,300	2.1%
E-mini FTSE China 50	0	0	0.0%	55	139	-60.4%	0	0	0.0%	7,408	898	724.9%
E-MINI MIDCAP	0	0	0.0%	335,102	423,532	-20.9%	0	0	0.0%	3,925,320	3,270,992	20.0%
E-MINI NASDAQ 100	0	0	0.0%	13,868,815	14,194,846	-2.3%	0	0	0.0%	175,992,104	139,598,255	26.1%
E-MINI RUSSELL 1000	0	0	0.0%	6,390	11,890	-46.3%	0	0	0.0%	37,301	58,977	-36.8%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	3,833	7,159	-46.5%	0	0	0.0%	52,180	40,763	28.0%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	12,382	15,176	-18.4%	0	0	0.0%	93,666	99,056	-5.4%
E-MINI RUSSELL 2000	0	0	0.0%	4,902,387	6,142,363	-20.2%	0	0	0.0%	59,498,348	51,096,171	16.4%
E-MINI S&P500	0	0	0.0%	41,838,942	43,907,557	-4.7%	0	0	0.0%	499,313,579	400,484,437	24.7%
E-MINI S&P500 ESG	0	0	0.0%	39,786	30,886	28.8%	0	0	0.0%	315,789	173,931	81.6%
ETHER	0	-	-	0	-	-	0	-	-	7	-	-
ETHER FUTURES	0	0	0.0%	76,142	90,841	-16.2%	0	0	0.0%	1,565,472	887,707	76.4%
FT-SE 100	0	0	0.0%	0	89	-100.0%	0	0	0.0%	1,528	373	309.7%
FTSE Emerging	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	5	-100.0%
IBOVESPA INDEX	0	0	0.0%	63	71	-11.3%	0	0	0.0%	688	2,570	-73.2%

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<b>Equity Index Futures</b>												
MICRO BITCOIN	0	0	0.0%	116,734	419,521	-72.2%	0	0	0.0%	3,681,347	3,727,461	-1.2%
MICRO E-MINI NASDAQ 100	0	0	0.0%	23,024,785	24,614,942	-6.5%	0	0	0.0%	364,950,140	239,115,577	52.6%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	1,737,641	4,073,952	-57.3%	0	0	0.0%	32,832,497	39,150,463	-16.1%
MICRO E-MINI S&P500	0	0	0.0%	26,075,194	21,948,911	18.8%	0	0	0.0%	343,974,047	218,602,634	57.4%
MICRO ETHER	0	0	0.0%	189,653	208,324	-9.0%	0	0	0.0%	4,915,035	208,324	2,259.3%
NASDAQ-100 VOLATILITY	0	0	0.0%	807	0	0.0%	0	0	0.0%	19,362	111	17,343.2%
NASDAQ BIOTECH SECTOR	0	0	0.0%	308	198	55.6%	0	0	0.0%	2,531	5,822	-56.5%
Nearby BTIC+	0	0	0.0%	0	650	-100.0%	0	0	0.0%	5,250	1,106	374.7%
NIKKEI 225 (\$) STOCK	0	0	0.0%	131,856	154,574	-14.7%	0	0	0.0%	1,402,014	1,583,504	-11.5%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	684,932	740,644	-7.5%	0	0	0.0%	9,187,587	8,116,758	13.2%
PHLX SEMICONDUCTOR SECT	0	-	-	130	-	-	0	-	-	1,822	-	-
S&P 500	0	0	0.0%	2,278	1,200	89.8%	0	0	0.0%	10,743	14,436	-25.6%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	34,850	19,013	83.3%	0	0	0.0%	344,511	169,368	103.4%
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%	2,963	10	29,530.0%	0	0	0.0%	27,671	1,034	2,576.1%
S&P 600 SMALLCAP EMINI	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
S&P BIOTECHNOLOGY SECTO	0	-	-	545	-	-	0	-	-	9,367	-	-
S&P COMMUNICATION SERVIC	0	0	0.0%	5,608	6,098	-8.0%	0	0	0.0%	41,411	35,349	17.1%
S&P CONSUMER DISCRETION	0	0	0.0%	8,207	14,248	-42.4%	0	0	0.0%	83,425	121,184	-31.2%
S&P CONSUMER STAPLES SE	0	0	0.0%	22,940	28,109	-18.4%	0	0	0.0%	205,033	209,483	-2.1%
S&P ENERGY SECTOR	0	0	0.0%	63,186	46,478	35.9%	0	0	0.0%	538,415	346,248	55.5%
S&P FINANCIAL SECTOR	0	0	0.0%	39,273	51,577	-23.9%	0	0	0.0%	290,719	380,364	-23.6%
S&P HEALTH CARE SECTOR	0	0	0.0%	26,062	31,230	-16.5%	0	0	0.0%	213,753	196,970	8.5%
S&P INDUSTRIAL SECTOR	0	0	0.0%	25,739	18,178	41.6%	0	0	0.0%	166,506	127,565	30.5%
S&P MATERIALS SECTOR	0	0	0.0%	13,520	16,005	-15.5%	0	0	0.0%	104,348	107,154	-2.6%
S&P OIL & GAS EXPLORATION	0	-	-	240	-	-	0	-	-	4,875	-	-
S&P REAL ESTATE SECTOR	0	0	0.0%	22,780	8,256	175.9%	0	0	0.0%	66,715	53,646	24.4%
S&P REGIONAL BANKS SECTO	0	-	-	334	-	-	0	-	-	2,645	-	-
S&P RETAIL SECTOR	0	-	-	423	-	-	0	-	-	3,551	-	-
S&P TECHNOLOGY SECTOR	0	0	0.0%	25,368	30,868	-17.8%	0	0	0.0%	248,459	157,166	58.1%
S&P UTILITIES SECTOR	0	0	0.0%	24,647	28,478	-13.5%	0	0	0.0%	211,224	207,381	1.9%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
TOPIX (USD)	0	-	-	54	-	-	0	-	-	84	-	-
TOPIX (YEN)	0	0	0.0%	282	3,883	-92.7%	0	0	0.0%	20,234	31,216	-35.2%
WATER INDEX FUTURES	0	0	0.0%	6	39	-84.6%	0	0	0.0%	601	986	-39.0%

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<b>Equity Index Options</b>												
BITCOIN OPTIONS	0	0	0.0%	567	1,109	-48.9%	0	0	0.0%	17,630	13,657	29.1%
E-MINI NASDAQ 100	0	0	0.0%	789,875	689,271	14.6%	0	0	0.0%	11,795,188	6,981,883	68.9%
E-mini Russell 2000	0	0	0.0%	71,444	125,143	-42.9%	0	0	0.0%	1,172,463	1,160,547	1.0%
E-MINI RUSSELL 2000	0	0	0.0%	36,016	48,045	-25.0%	0	0	0.0%	386,950	385,439	0.4%
E-mini S&P 500	0	0	0.0%	8,774,607	9,864,905	-11.1%	0	0	0.0%	131,044,843	90,332,717	45.1%
E-MINI S&P500	0	0	0.0%	13,314,422	10,462,713	27.3%	0	0	0.0%	137,720,396	80,536,703	71.0%
EOM S&P 500	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2,156	-100.0%
ETHER OPTIONS	0	-	-	175	-	-	0	-	-	1,015	-	-
MICRO BITCOIN	0	-	-	1,073	-	-	0	-	-	75,520	-	-
Micro E-mini Nasdaq-100	0	0	0.0%	30,949	46,331	-33.2%	0	0	0.0%	498,105	361,874	37.6%
MICRO E-MINI NASDAQ 100	0	0	0.0%	14,446	19,346	-25.3%	0	0	0.0%	140,712	86,965	61.8%
Micro E-mini S&P 500	0	0	0.0%	251,227	274,197	-8.4%	0	0	0.0%	2,843,721	2,078,793	36.8%
MICRO ETHER	0	-	-	1,093	-	-	0	-	-	273,515	-	-
S&P 500	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	200	-100.0%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	106	74	43.2%	0	0	0.0%	842	246	242.3%
AD/JY CROSS RATES	0	0	0.0%	2,141	3,753	-43.0%	0	0	0.0%	50,247	28,462	76.5%
AD/NE CROSS RATES	0	0	0.0%	1,748	349	400.9%	0	0	0.0%	42,471	3,850	1,003.1%
AUSTRALIAN DOLLAR	0	0	0.0%	2,030,390	2,101,185	-3.4%	0	0	0.0%	25,331,568	24,495,976	3.4%
BP/JY CROSS RATES	0	0	0.0%	4,388	3,798	15.5%	0	0	0.0%	52,950	31,136	70.1%
BP/SF CROSS RATES	0	0	0.0%	2,555	2,714	-5.9%	0	0	0.0%	25,584	11,614	120.3%
BRAZIL REAL	0	0	0.0%	250,092	262,717	-4.8%	0	0	0.0%	3,425,260	2,790,938	22.7%
BRITISH POUND	0	0	0.0%	2,336,619	2,458,454	-5.0%	0	0	0.0%	30,688,291	24,135,676	27.1%
CANADIAN DOLLAR	0	0	0.0%	1,884,186	1,886,774	-0.1%	0	0	0.0%	22,693,716	20,041,195	13.2%
CD/JY CROSS RATES	0	0	0.0%	81	8	912.5%	0	0	0.0%	468	1,987	-76.4%
CHINESE RENMINBI (CNH)	0	0	0.0%	40,239	21,882	83.9%	0	0	0.0%	384,203	202,935	89.3%
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	0	0.0%	0	0	0.0%	46	12	283.3%
EC/AD CROSS RATES	0	0	0.0%	8,270	8,133	1.7%	0	0	0.0%	69,274	58,025	19.4%
EC/CD CROSS RATES	0	0	0.0%	15,153	19,120	-20.7%	0	0	0.0%	100,086	93,875	6.6%
EC/NOK CROSS RATES	0	0	0.0%	1,528	1,033	47.9%	0	0	0.0%	21,242	7,726	174.9%

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<b>FX Futures</b>												
EC/SEK CROSS RATES	0	0	0.0%	2,620	2,622	-0.1%	0	0	0.0%	27,369	9,153	199.0%
EFX/BP CROSS RATES	0	0	0.0%	136,229	123,884	10.0%	0	0	0.0%	1,167,208	728,097	60.3%
EFX/JY CROSS RATES	0	0	0.0%	68,392	93,157	-26.6%	0	0	0.0%	646,221	555,520	16.3%
EFX/SF CROSS RATES	0	0	0.0%	35,553	43,952	-19.1%	0	0	0.0%	450,035	300,860	49.6%
E-MICRO USD/CAD	0	0	0.0%	159	900	-82.3%	0	0	0.0%	2,073	3,094	-33.0%
E-MICRO USD/CHF	0	0	0.0%	108	111	-2.7%	0	0	0.0%	874	243	259.7%
E-MICRO USD/JPY	0	0	0.0%	1,846	3,638	-49.3%	0	0	0.0%	154,207	11,592	1,230.3%
E-MINI EURO FX	0	0	0.0%	202,467	133,692	51.4%	0	0	0.0%	1,910,593	1,437,820	32.9%
E-MINI JAPANESE YEN	0	0	0.0%	12,508	5,184	141.3%	0	0	0.0%	144,164	106,465	35.4%
EURO FX	0	0	0.0%	5,967,342	5,097,665	17.1%	0	0	0.0%	60,775,052	48,680,154	24.8%
HUNGARIAN FORINT (EC)	0	0	0.0%	4	0	0.0%	0	0	0.0%	7	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	7	10	-30.0%	0	0	0.0%	55	187	-70.6%
INDIAN RUPEE	0	0	0.0%	30,647	18,218	68.2%	0	0	0.0%	330,398	174,460	89.4%
JAPANESE YEN	0	0	0.0%	3,517,212	2,360,551	49.0%	0	0	0.0%	39,300,913	27,041,400	45.3%
KOREAN WON	0	0	0.0%	140	442	-68.3%	0	0	0.0%	3,851	12,660	-69.6%
MEXICAN PESO	0	0	0.0%	1,786,552	1,145,822	55.9%	0	0	0.0%	15,233,784	13,267,225	14.8%
MICRO AUD/USD	0	0	0.0%	267,914	317,005	-15.5%	0	0	0.0%	3,184,143	2,698,006	18.0%
MICRO CAD/USD	0	0	0.0%	65,788	68,575	-4.1%	0	0	0.0%	759,823	687,105	10.6%
MICRO CHF/USD	0	0	0.0%	17,420	8,173	113.1%	0	0	0.0%	207,361	105,662	96.2%
MICRO EUR/USD	0	0	0.0%	837,913	574,447	45.9%	0	0	0.0%	9,634,442	5,958,190	61.7%
MICRO GBP/USD	0	0	0.0%	100,832	109,113	-7.6%	0	0	0.0%	1,480,028	1,025,415	44.3%
MICRO INR/USD	0	0	0.0%	747	709	5.4%	0	0	0.0%	8,554	18,981	-54.9%
MICRO JPY/USD	0	0	0.0%	0	47,740	-100.0%	0	0	0.0%	101,719	480,037	-78.8%
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%	647,307	540,529	19.8%	0	0	0.0%	7,762,672	6,982,267	11.2%
NKR/USD CROSS RATE	0	0	0.0%	2,715	5,112	-46.9%	0	0	0.0%	32,624	54,324	-39.9%
POLISH ZLOTY (EC)	0	0	0.0%	235	376	-37.5%	0	0	0.0%	1,454	1,778	-18.2%
POLISH ZLOTY (US)	0	0	0.0%	1,619	1,745	-7.2%	0	0	0.0%	17,229	11,314	52.3%
RMB USD	0	0	0.0%	1	0	0.0%	0	0	0.0%	30	3	900.0%
RUSSIAN RUBLE	0	0	0.0%	0	207,254	-100.0%	0	0	0.0%	576,766	1,459,099	-60.5%
S.AFRICAN RAND	0	0	0.0%	89,109	94,293	-5.5%	0	0	0.0%	1,063,510	742,095	43.3%
SF/JY CROSS RATES	0	0	0.0%	754	65	1,060.0%	0	0	0.0%	7,586	444	1,608.6%
SHEKEL	0	0	0.0%	41	21	95.2%	0	0	0.0%	194	65	198.5%
SKR/USD CROSS RATES	0	0	0.0%	10,062	5,771	74.4%	0	0	0.0%	78,385	59,764	31.2%
SWISS FRANC	0	0	0.0%	458,387	513,470	-10.7%	0	0	0.0%	6,370,993	5,967,887	6.8%

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<b>FX Futures</b>												
TURKISH LIRA	0	0	0.0%	0	8	-100.0%	0	0	0.0%	26	16	62.5%
USDZAR	0	0	0.0%	0	6	-100.0%	0	0	0.0%	31	1,285	-97.6%
<b>FX Options</b>												
AUD/USD MONDAY OPTION W	0	0	0.0%	53	209	-74.6%	0	0	0.0%	1,901	6,432	-70.4%
AUD/USD MONDAY OPTION W	0	0	0.0%	91	489	-81.4%	0	0	0.0%	3,395	4,365	-22.2%
AUD/USD MONDAY OPTION W	0	0	0.0%	174	95	83.2%	0	0	0.0%	3,011	4,232	-28.9%
AUD/USD MONDAY OPTION W	0	0	0.0%	9	451	-98.0%	0	0	0.0%	3,589	4,975	-27.9%
AUD/USD MONDAY OPTION W	0	0	0.0%	1	0	0.0%	0	0	0.0%	1,364	2,356	-42.1%
AUD/USD MONTHLY OPTIONS	0	0	0.0%	34,000	44,465	-23.5%	0	0	0.0%	780,648	596,458	30.9%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	114	0	0.0%	0	0	0.0%	5,582	7,231	-22.8%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,006	2,019	-50.2%	0	0	0.0%	18,047	22,118	-18.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,019	2,753	-63.0%	0	0	0.0%	21,671	31,929	-32.1%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,114	1,557	-28.5%	0	0	0.0%	18,104	34,739	-47.9%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	604	883	-31.6%	0	0	0.0%	5,800	9,688	-40.1%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	102	329	-69.0%	0	0	0.0%	6,213	13,207	-53.0%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	280	177	58.2%	0	0	0.0%	5,954	8,367	-28.8%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	621	464	33.8%	0	0	0.0%	2,811	3,603	-22.0%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	132	786	-83.2%	0	0	0.0%	5,716	10,371	-44.9%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	0	269	-100.0%	0	0	0.0%	958	2,254	-57.5%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	42	1,068	-96.1%	0	0	0.0%	3,318	5,056	-34.4%
CAD/USD MONDAY OPTIONS	0	0	0.0%	207	1,276	-83.8%	0	0	0.0%	4,544	11,615	-60.9%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,188	1,570	-24.3%	0	0	0.0%	12,696	17,998	-29.5%
CAD/USD MONDAY OPTIONS	0	0	0.0%	201	394	-49.0%	0	0	0.0%	11,650	11,076	5.2%
CAD/USD MONDAY OPTIONS	0	0	0.0%	9	379	-97.6%	0	0	0.0%	7,216	23,272	-69.0%
CAD/USD MONDAY OPTIONS	0	0	0.0%	746	3	24,766.7%	0	0	0.0%	3,521	4,374	-19.5%
CAD/USD MONTHLY OPTIONS	0	0	0.0%	61,065	75,077	-18.7%	0	0	0.0%	760,937	833,791	-8.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	167	0	0.0%	0	0	0.0%	16,384	27,536	-40.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,179	3,278	-64.0%	0	0	0.0%	37,299	57,780	-35.4%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,700	5,714	-52.7%	0	0	0.0%	59,259	89,971	-34.1%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,640	4,485	-41.1%	0	0	0.0%	51,269	102,003	-49.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,627	4,923	-46.6%	0	0	0.0%	15,253	33,062	-53.9%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	501	1,400	-64.2%	0	0	0.0%	11,411	24,681	-53.8%

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## CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>FX Options</b>												
CAD/USD WKLY WED OPTIONS	0	0	0.0%	218	760	-71.3%	0	0	0.0%	13,026	21,174	-38.5%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	766	1,884	-59.3%	0	0	0.0%	15,792	26,220	-39.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	395	1,942	-79.7%	0	0	0.0%	17,019	29,228	-41.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	0	655	-100.0%	0	0	0.0%	5,512	9,690	-43.1%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	2,829	21,661	-86.9%	0	0	0.0%	49,284	82,630	-40.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	5	0	0.0%	0	0	0.0%	1,160	411	182.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	172	272	-36.8%	0	0	0.0%	1,109	3,655	-69.7%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	57	99	-42.4%	0	0	0.0%	1,353	2,064	-34.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	59	382	-84.6%	0	0	0.0%	1,458	3,190	-54.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	8	22	-63.6%	0	0	0.0%	208	307	-32.2%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	100	0	0.0%	0	0	0.0%	304	6	4,966.7%
EUR/GBP WKLY FRIDAY OPTIC	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	100	-100.0%
EURODOLLARS	0	-	-	6,843	-	-	0	-	-	13,685	-	-
EUR/USD MONDAY OPTION W	0	0	0.0%	411	2,307	-82.2%	0	0	0.0%	20,698	22,474	-7.9%
EUR/USD MONDAY OPTION W	0	0	0.0%	2,847	214	1,230.4%	0	0	0.0%	30,821	17,902	72.2%
EUR/USD MONDAY OPTION W	0	0	0.0%	3,206	823	289.6%	0	0	0.0%	15,591	17,416	-10.5%
EUR/USD MONDAY OPTION W	0	0	0.0%	872	917	-4.9%	0	0	0.0%	27,818	31,805	-12.5%
EUR/USD MONDAY OPTION W	0	0	0.0%	720	51	1,311.8%	0	0	0.0%	5,742	9,145	-37.2%
EUR/USD MONTHLY OPTIONS	0	0	0.0%	231,672	135,217	71.3%	0	0	0.0%	3,040,311	2,274,341	33.7%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	831	0	0.0%	0	0	0.0%	64,417	49,464	30.2%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	16,967	18,298	-7.3%	0	0	0.0%	160,928	173,669	-7.3%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	25,878	22,259	16.3%	0	0	0.0%	203,258	254,108	-20.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	9,407	17,626	-46.6%	0	0	0.0%	195,153	216,278	-9.8%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	7,370	10,809	-31.8%	0	0	0.0%	65,408	96,745	-32.4%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	4,290	3,092	38.7%	0	0	0.0%	73,953	76,509	-3.3%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	4,618	5,431	-15.0%	0	0	0.0%	65,070	82,512	-21.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	4,624	4,360	6.1%	0	0	0.0%	63,945	79,432	-19.5%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	2,911	2,734	6.5%	0	0	0.0%	73,326	101,314	-27.6%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	0	2,023	-100.0%	0	0	0.0%	23,274	27,415	-15.1%
GBP/USD MONDAY OPTION W	0	0	0.0%	703	1,301	-46.0%	0	0	0.0%	6,680	5,940	12.5%
GBP/USD MONDAY OPTION W	0	0	0.0%	754	510	47.8%	0	0	0.0%	11,917	7,187	65.8%
GBP/USD MONDAY OPTION W	0	0	0.0%	997	250	298.8%	0	0	0.0%	4,823	5,109	-5.6%
GBP/USD MONDAY OPTION W	0	0	0.0%	509	130	291.5%	0	0	0.0%	6,701	6,838	-2.0%
GBP/USD MONDAY OPTION W	0	0	0.0%	418	0	0.0%	0	0	0.0%	3,739	1,238	202.0%
GBP/USD MONTHLY OPTIONS	0	0	0.0%	52,717	56,759	-7.1%	0	0	0.0%	885,577	856,650	3.4%

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## CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>FX Options</b>												
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	633	0	0.0%	0	0	0.0%	9,755	12,239	-20.3%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,443	1,399	3.1%	0	0	0.0%	27,317	33,053	-17.4%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,217	2,175	47.9%	0	0	0.0%	36,901	34,876	5.8%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,472	3,004	-17.7%	0	0	0.0%	30,167	41,750	-27.7%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,168	2,544	24.5%	0	0	0.0%	11,999	12,988	-7.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,927	1,669	15.5%	0	0	0.0%	15,216	14,658	3.8%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,054	145	626.9%	0	0	0.0%	6,395	8,311	-23.1%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,193	1,887	-36.8%	0	0	0.0%	12,126	10,664	13.7%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,853	1,322	40.2%	0	0	0.0%	12,724	15,645	-18.7%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	0	582	-100.0%	0	0	0.0%	1,320	3,173	-58.4%
JPY/USD MONDAY OPTION WE	0	0	0.0%	329	169	94.7%	0	0	0.0%	7,111	4,142	71.7%
JPY/USD MONDAY OPTION WE	0	0	0.0%	161	202	-20.3%	0	0	0.0%	9,589	6,349	51.0%
JPY/USD MONDAY OPTION WE	0	0	0.0%	175	40	337.5%	0	0	0.0%	3,260	4,140	-21.3%
JPY/USD MONDAY OPTION WE	0	0	0.0%	57	91	-37.4%	0	0	0.0%	12,501	4,760	162.6%
JPY/USD MONDAY OPTION WE	0	0	0.0%	16	3	433.3%	0	0	0.0%	983	2,900	-66.1%
JPY/USD MONTHLY OPTIONS	0	0	0.0%	65,963	111,731	-41.0%	0	0	0.0%	1,433,512	1,003,332	42.9%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	831	0	0.0%	0	0	0.0%	38,455	28,297	35.9%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	2,164	14,975	-85.5%	0	0	0.0%	88,438	83,875	5.4%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	7,825	7,574	3.3%	0	0	0.0%	132,559	116,701	13.6%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	4,933	7,960	-38.0%	0	0	0.0%	117,268	107,157	9.4%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	2,174	5,043	-56.9%	0	0	0.0%	39,244	41,680	-5.8%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	5,724	2,634	117.3%	0	0	0.0%	48,047	36,929	30.1%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	5,113	4,587	11.5%	0	0	0.0%	44,582	46,744	-4.6%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,065	4,428	-8.2%	0	0	0.0%	39,075	43,317	-9.8%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,044	2,589	-21.1%	0	0	0.0%	48,292	41,273	17.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	0	2,625	-100.0%	0	0	0.0%	14,891	10,504	41.8%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	91	350	-74.0%	0	0	0.0%	7,910	15,854	-50.1%
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	0	0.0%	0	0	0.0%	17	904	-98.1%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	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%	2	13	-84.6%	0	0	0.0%	686	2,511	-72.7%
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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## CME Exchange Volume Comparison Report - Monthly

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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%
ZAR/USD MONTHLY OPTIONS	0	-	-	0	-	-	0	-	-	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%	8	6	33.3%	0	0	0.0%	3,418	5,109	-33.1%
OTC AUDUSD SUB	0	-	-	712	-	-	0	-	-	712	-	-
OTC EURUSD SUB	0	-	-	974	-	-	0	-	-	974	-	-
OTC GBPUSD SUB	0	-	-	778	-	-	0	-	-	778	-	-
OTC USDCAD SUB	0	-	-	24	-	-	0	-	-	24	-	-
OTC USDJPY SUB	0	-	-	155	-	-	0	-	-	155	-	-



## CME Exchange Volume Comparison Report - Monthly

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<b>Ag Products Futures</b>												
BLOCK CHEESE	0	0	0.0%	228	857	-73.4%	0	0	0.0%	3,026	7,461	-59.4%
BUTTER CS	0	0	0.0%	3,642	6,474	-43.7%	0	0	0.0%	47,615	48,901	-2.6%
CASH-SETTLED CHEESE	0	0	0.0%	11,990	9,628	24.5%	0	0	0.0%	115,003	139,149	-17.4%
CAT ASIA WEATHER	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CATTLE	0	0	0.0%	893,475	954,369	-6.4%	0	0	0.0%	14,114,711	13,908,672	1.5%
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%	821	4,539	-81.9%	0	0	0.0%	24,818	21,811	13.8%
DRY WHEY	0	0	0.0%	1,479	1,198	23.5%	0	0	0.0%	11,146	22,256	-49.9%
FEEDER CATTLE	0	0	0.0%	253,449	237,535	6.7%	0	0	0.0%	3,355,174	3,066,591	9.4%
GOLDMAN SACHS	0	0	0.0%	2,221	3,499	-36.5%	0	0	0.0%	32,765	93,370	-64.9%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	77	-100.0%	0	0	0.0%	91	228	-60.1%
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%	800,607	752,378	6.4%	0	0	0.0%	11,381,406	11,399,319	-0.2%
HOUSING INDEX	0	0	0.0%	12	14	-14.3%	0	0	0.0%	185	166	11.4%
LUMBER	0	0	0.0%	13,112	9,801	33.8%	0	0	0.0%	110,568	114,765	-3.7%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
MILK	0	0	0.0%	27,011	30,656	-11.9%	0	0	0.0%	331,751	302,869	9.5%
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%	3,869	5,779	-33.1%	0	0	0.0%	65,555	64,797	1.2%
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%	1,275	2,172	-41.3%	0	0	0.0%	24,136	28,554	-15.5%
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%

## CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>Ag Products Options</b>												
BLOCK CHEESE	0	0	0.0%	124	40	210.0%	0	0	0.0%	2,639	3,004	-12.2%
BUTTER CS	0	0	0.0%	2,201	3,445	-36.1%	0	0	0.0%	18,392	24,406	-24.6%
CASH-SETTLED CHEESE	0	0	0.0%	3,722	6,931	-46.3%	0	0	0.0%	71,092	74,091	-4.0%
CATTLE	0	0	0.0%	239,496	164,771	45.4%	0	0	0.0%	2,570,506	2,284,001	12.5%
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%	4,593	9,944	-53.8%	0	0	0.0%	86,587	57,164	51.5%
DRY WHEY	0	0	0.0%	50	20	150.0%	0	0	0.0%	2,784	1,823	52.7%
FEEDER CATTLE	0	0	0.0%	26,693	22,829	16.9%	0	0	0.0%	416,669	266,218	56.5%
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%	219,266	180,663	21.4%	0	0	0.0%	2,697,295	2,411,296	11.9%
HOUSING INDEX	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
LUMBER	0	0	0.0%	108	689	-84.3%	0	0	0.0%	4,424	8,307	-46.7%
LV CATL CSO	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
MILK	0	0	0.0%	17,964	37,941	-52.7%	0	0	0.0%	280,173	315,301	-11.1%
MLK MID OPTIONS	0	0	0.0%	1	4	-75.0%	0	0	0.0%	47	32	46.9%
NFD MILK	0	0	0.0%	1,456	2,501	-41.8%	0	0	0.0%	39,703	38,702	2.6%
PORK CUTOUT	0	0	0.0%	0	0	0.0%	0	0	0.0%	45	750	-94.0%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	525,851	468,202	12.3%	49,721,327	48,859,013	1.8%	9,657,085	5,767,140	67.5%	816,192,179	635,711,356	28.4%
Equity Index Futures	0	0	0.0%	113,504,624	117,453,180	-3.4%	0	0	0.0%	1,506,914,524	1,110,877,745	35.7%
FX Futures	0	0	0.0%	20,840,135	18,294,254	13.9%	0	0	0.0%	234,320,643	190,486,358	23.0%
Foreign Exchange Futures	0	-	-	0	-	-	0	-	-	24	-	-
Ag Products Futures	0	0	0.0%	2,013,191	2,018,976	-0.3%	0	0	0.0%	29,617,950	29,218,909	1.4%
<b>TOTAL FUTURES</b>	<b>525,851</b>	<b>468,202</b>	<b>12.3%</b>	<b>186,079,277</b>	<b>186,625,423</b>	<b>-0.3%</b>	<b>9,657,085</b>	<b>5,767,140</b>	<b>67.5%</b>	<b>2,587,045,320</b>	<b>1,966,294,368</b>	<b>31.6%</b>

## CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2022	Open Outcry DEC 2021	% CHG	ELEC DEC 2022	ELEC DEC 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	0	0	0.0%	23,285,894	21,531,060	8.2%	0	0	0.0%	285,970,058	181,940,934	57.2%
Interest Rate Options	13,601,900	13,487,817	0.8%	10,232,131	6,429,650	59.1%	191,212,764	165,267,241	15.7%	100,759,962	87,222,001	15.5%
FX Options	0	0	0.0%	615,393	647,042	-4.9%	0	0	0.0%	9,299,021	8,386,750	10.9%
Ag Products Options	0	0	0.0%	515,674	429,778	20.0%	0	0	0.0%	6,190,356	5,485,095	12.9%
Foreign Exchange Options	0	0	0.0%	2,651	6	44,083.3%	0	0	0.0%	6,061	5,109	18.6%
<b>TOTAL OPTIONS</b>	<b>13,601,900</b>	<b>13,487,817</b>	<b>0.8%</b>	<b>34,651,743</b>	<b>29,037,536</b>	<b>19.3%</b>	<b>191,212,764</b>	<b>165,267,241</b>	<b>15.7%</b>	<b>402,225,458</b>	<b>283,039,889</b>	<b>42.1%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	14,127,751	13,956,019	1.2%	59,953,458	55,288,663	8.4%	200,869,849	171,034,381	17.4%	916,952,141	722,933,357	26.8%
Equity Index	0	0	0.0%	136,790,518	138,984,240	-1.6%	0	0	0.0%	1,792,884,582	1,292,818,679	38.7%
FX	0	0	0.0%	21,455,528	18,941,296	13.3%	0	0	0.0%	243,619,664	198,873,108	22.5%
Foreign Exchange	0	0	0.0%	2,651	6	44,083.3%	0	0	0.0%	6,085	5,109	19.1%
Ag Products	0	0	0.0%	2,528,865	2,448,754	3.3%	0	0	0.0%	35,808,306	34,704,004	3.2%
<b>GRAND TOTAL</b>	<b>14,127,751</b>	<b>13,956,019</b>	<b>1.2%</b>	<b>220,731,020</b>	<b>215,662,959</b>	<b>2.3%</b>	<b>200,869,849</b>	<b>171,034,381</b>	<b>17.4%</b>	<b>2,989,270,778</b>	<b>2,249,334,257</b>	<b>32.9%</b>