

## CME Exchange Volume Report - Monthly

	VOLUME NOV 2022	VOLUME NOV 2021	% CHG	VOLUME OCT 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>Interest Rate Futures</b>								
1-MONTH EURODOLLAR	4,012	0	0.0%	2,048	95.9%	77,847	2	3,892,250.0%
BSBY 3-MONTH FUTURES	19,710	95,019	-79.3%	25,925	-24.0%	559,858	400,124	39.9%
ESTR Basis Spread Futures	1,639	0	-	41	3,897.6%	1,680	0	-
ESTR Futures	5,634	0	-	11	51,118.2%	5,645	0	-
EURODOLLARS	15,166,182	60,409,854	-74.9%	17,793,183	-14.8%	383,926,851	566,680,622	-32.2%
SOFR	48,950,717	6,390,593	666.0%	41,596,810	17.7%	401,165,990	33,568,346	1,095.1%
SONIA	0	5,403	-100.0%	0	0.0%	1,293	803,512	-99.8%
TIIE	25	39	-35.9%	35	-28.6%	1,041	838	24.2%
<b>Interest Rate Options</b>								
EURODOLLARS	9,711,071	10,402,163	-6.6%	11,315,570	-14.2%	135,401,251	54,247,580	149.6%
EURO MIDCURVE	749,264	19,749,050	-96.2%	1,100,836	-31.9%	65,406,362	191,865,283	-65.9%
SOFR	16,026,490	0	0.0%	15,443,918	3.8%	73,081,198	8,652	844,574.0%
SOFR MIDCURVE	4,197,924	15	27,986,060.0%	3,460,712	21.3%	19,733,356	100	19,733,256.0%

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<b>Equity Index Futures</b>								
BITCOIN	293,346	203,669	44.0%	279,413	5.0%	2,538,163	2,355,543	7.8%
E-mini FTSE China 50	231	94	145.7%	116	99.1%	7,353	759	868.8%
E-MINI MIDCAP	264,797	285,053	-7.1%	293,057	-9.6%	3,632,564	2,897,427	25.4%
E-MINI NASDAQ 100	13,225,865	11,829,145	11.8%	16,051,781	-17.6%	162,948,043	126,137,964	29.2%
E-MINI RUSSELL 1000	1,365	6,749	-79.8%	10,227	-86.7%	133,521	116,098	15.0%
E-MINI RUSSELL 1000 GROWTH	5,621	3,078	82.6%	7,858	-28.5%	93,405	52,943	76.4%
E-MINI RUSSELL 1000 VALUE	5,644	14,769	-61.8%	3,911	44.3%	238,665	311,866	-23.5%
E-MINI RUSSELL 2000	4,054,962	4,357,838	-7.0%	5,231,508	-22.5%	55,535,801	45,793,192	21.3%
E-MINI S&P500	36,343,215	29,497,705	23.2%	48,151,616	-24.5%	461,711,130	359,041,102	28.6%
E-MINI S&P500 ESG	16,011	14,627	9.5%	28,360	-43.5%	336,023	211,716	58.7%
ETHER	0	0	-	0	0.0%	12	0	-
ETHER FUTURES	168,664	122,342	37.9%	132,139	27.6%	1,493,904	797,851	87.2%
FT-SE 100	4	26	-84.6%	145	-97.2%	1,528	1,379	10.8%
FTSE Emerging	0	0	0.0%	0	0.0%	0	5	-100.0%
IBOVESPA INDEX	44	266	-83.5%	52	-15.4%	625	2,499	-75.0%
MICRO BITCOIN	343,673	579,892	-40.7%	218,951	57.0%	3,565,337	3,308,180	7.8%
MICRO E-MINI NASDAQ 100	26,067,137	21,324,242	22.2%	31,704,461	-17.8%	341,925,355	214,500,635	59.4%
MICRO E-MINI RUSSELL 2000	2,240,312	3,738,620	-40.1%	2,931,274	-23.6%	31,094,856	35,076,511	-11.4%
MICRO E-MINI S&P500	27,185,751	18,104,077	50.2%	33,300,874	-18.4%	317,898,853	196,653,723	61.7%
MICRO ETHER	474,356	0	-	329,615	43.9%	4,725,382	0	-
NASDAQ-100 VOLATILITY	36	14	157.1%	70	-48.6%	18,555	111	16,616.2%
NASDAQ BIOTECH SECTOR	63	53	18.9%	202	-68.8%	2,223	7,137	-68.9%
Nearby BTIC+	50	0	0.0%	750	-93.3%	7,588	456	1,564.0%
NIKKEI 225 (\$) STOCK	96,887	98,152	-1.3%	100,894	-4.0%	1,270,696	1,435,258	-11.5%
NIKKEI 225 (YEN) STOCK	589,078	654,782	-10.0%	759,153	-22.4%	8,528,327	7,379,153	15.6%
PHLX SEMICONDUCTOR SECTO	229	0	-	829	-72.4%	1,926	0	-
S&P 500	50,301	20,449	146.0%	40,753	23.4%	809,755	1,138,830	-28.9%
S&P 500 ANNUAL DIVIDEND IND	77,999	40,589	92.2%	92,242	-15.4%	914,443	664,354	37.6%
S&P 500/GI	0	0	0.0%	0	-	0	0	0.0%
S&P 500 QUARLY DIVIDEND IND	6,580	4,560	44.3%	4,439	48.2%	49,804	28,349	75.7%
S&P 600 SMALLCAP EMINI	0	0	0.0%	0	-	0	0	0.0%
S&P BIOTECHNOLOGY SECTOR	1,023	0	-	1,047	-2.3%	9,277	0	-
S&P COMMUNICATION SERVICE	2,536	1,901	33.4%	3,172	-20.1%	44,373	41,189	7.7%
S&P CONSUMER DISCRETIONAR	4,704	13,471	-65.1%	8,433	-44.2%	141,814	133,462	6.3%
S&P CONSUMER STAPLES SECT	12,223	11,829	3.3%	19,906	-38.6%	300,353	377,475	-20.4%
S&P ENERGY SECTOR	29,375	39,709	-26.0%	42,286	-30.5%	720,444	549,759	31.0%
S&P FINANCIAL SECTOR	14,542	33,435	-56.5%	19,742	-26.3%	386,413	664,304	-41.8%
S&P HEALTH CARE SECTOR	8,247	15,511	-46.8%	11,009	-25.1%	279,951	268,869	4.1%
S&P INDUSTRIAL SECTOR	32,844	7,723	325.3%	19,411	69.2%	325,666	256,519	27.0%
S&P MATERIALS SECTOR	13,851	10,770	28.6%	9,293	49.0%	168,291	149,310	12.7%
S&P OIL & GAS EXPLORATION A	366	0	-	494	-25.9%	4,685	0	-
S&P REAL ESTATE SECTOR	1,845	2,323	-20.6%	4,150	-55.5%	70,142	92,373	-24.1%
S&P REGIONAL BANKS SECTOR	324	0	-	589	-45.0%	2,520	0	-
S&P RETAIL SECTOR	289	0	-	180	60.6%	3,128	0	-
S&P TECHNOLOGY SECTOR	10,596	11,300	-6.2%	29,464	-64.0%	280,836	167,216	67.9%
S&P UTILITIES SECTOR	21,732	20,409	6.5%	20,497	6.0%	384,846	344,287	11.8%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	0.0%	0	2,480	-100.0%
WATER INDEX FUTURES	3	1	200.0%	0	0.0%	595	947	-37.2%
YEN DENOMINATED TOPIX	147	4,039	-96.4%	39	276.9%	19,952	27,333	-27.0%

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<b>Equity Index Options</b>								
BITCOIN OPTIONS	6,088	1,634	272.6%	4,843	25.7%	34,722	15,662	121.7%
E-MINI NASDAQ 100	934,424	643,663	45.2%	1,061,260	-12.0%	11,022,121	6,292,612	75.2%
E-mini Russell 2000	58,690	121,475	-51.7%	100,109	-41.4%	1,101,019	1,035,404	6.3%
E-MINI RUSSELL 2000	35,996	63,171	-43.0%	25,800	39.5%	351,790	340,694	3.3%
E-mini S&P 500	11,038,322	9,558,267	15.5%	14,312,910	-22.9%	130,414,778	83,831,923	55.6%
E-MINI S&P500	13,786,183	9,503,775	45.1%	15,001,880	-8.1%	133,625,714	72,322,127	84.8%
EOM S&P 500	0	0	0.0%	0	0.0%	0	20,000	-100.0%
ETHER OPTIONS	506	0	-	466	8.6%	1,075	0	-
MICRO BITCOIN	3,430	0	-	7,057	-51.4%	77,467	0	-
Micro E-mini Nasdaq-100	37,426	38,379	-2.5%	40,407	-7.4%	467,156	315,543	48.0%
MICRO E-MINI NASDAQ 100	10,134	11,191	-9.4%	6,684	51.6%	126,266	67,619	86.7%
Micro E-mini S&P 500	257,197	247,514	3.9%	221,386	16.2%	2,592,494	1,804,596	43.7%
MICRO ETHER	30,233	0	-	39,574	-23.6%	347,422	0	-
S&P 500	0	0	0.0%	0	0.0%	0	1,302,305	-100.0%
<b>FX Futures</b>								
AD/CD CROSS RATES	217	0	0.0%	53	309.4%	843	226	273.0%
AD/JY CROSS RATES	2,605	3,139	-17.0%	3,643	-28.5%	50,064	26,372	89.8%
AD/NE CROSS RATES	1,791	507	253.3%	12,241	-85.4%	62,924	3,681	1,609.4%
AUSTRALIAN DOLLAR	2,139,692	1,825,027	17.2%	2,183,312	-2.0%	23,455,279	22,478,377	4.3%
BP/JY CROSS RATES	2,724	2,498	9.0%	5,266	-48.3%	56,250	30,321	85.5%
BP/SF CROSS RATES	1,231	1,391	-11.5%	3,161	-61.1%	32,068	12,025	166.7%
BRAZIL REAL	376,068	229,473	63.9%	315,624	19.2%	3,591,667	2,742,225	31.0%
BRITISH POUND	2,388,517	2,050,731	16.5%	3,109,061	-23.2%	28,824,521	21,766,067	32.4%
CANADIAN DOLLAR	1,791,405	1,566,495	14.4%	2,044,419	-12.4%	20,868,120	18,206,626	14.6%
CD/JY CROSS RATES	29	601	-95.2%	71	-59.2%	722	3,307	-78.2%
CHINESE RENMINBI (CNH)	44,931	16,254	176.4%	45,898	-2.1%	343,964	181,181	89.8%
CZECK KORUNA (EC)	0	0	0.0%	0	0.0%	41	8	412.5%
CZECK KORUNA (US)	166	4	4,050.0%	175	-5.1%	663	12	5,425.0%
EC/AD CROSS RATES	3,803	3,762	1.1%	3,708	2.6%	62,533	55,054	13.6%
EC/CD CROSS RATES	4,340	4,358	-0.4%	4,679	-7.2%	89,258	75,043	18.9%
EC/NOK CROSS RATES	1,005	190	428.9%	421	138.7%	24,629	9,125	169.9%
EC/SEK CROSS RATES	1,517	355	327.3%	871	74.2%	35,081	6,740	420.5%
EFX/BP CROSS RATES	67,006	37,727	77.6%	80,551	-16.8%	1,050,484	621,910	68.9%
EFX/JY CROSS RATES	26,161	39,436	-33.7%	30,554	-14.4%	610,926	491,827	24.2%
EFX/SF CROSS RATES	14,188	25,738	-44.9%	29,027	-51.1%	439,190	280,335	56.7%
E-MICRO USD/CAD	76	490	-84.5%	20	280.0%	1,914	2,194	-12.8%
E-MICRO USD/CHF	27	49	-44.9%	32	-15.6%	766	132	480.3%
E-MICRO USD/JPY	1,200	5,033	-76.2%	837	43.4%	152,361	7,954	1,815.5%
E-MINI EURO FX	186,774	109,017	71.3%	161,440	15.7%	1,708,126	1,304,128	31.0%
E-MINI JAPANESE YEN	9,960	8,505	17.1%	16,060	-38.0%	131,656	101,281	30.0%
EURO FX	4,687,285	3,940,789	18.9%	4,652,761	0.7%	55,397,545	44,076,796	25.7%
HUNGARIAN FORINT (EC)	0	22	-100.0%	1	-100.0%	33	40	-17.5%
HUNGARIAN FORINT (US)	6	6	0.0%	0	0.0%	48	177	-72.9%
INDIAN RUPEE	33,326	17,525	90.2%	39,486	-15.6%	303,401	161,029	88.4%
JAPANESE YEN	3,038,454	2,484,993	22.3%	3,665,644	-17.1%	36,026,511	24,723,477	45.7%
KOREAN WON	336	1,024	-67.2%	492	-31.7%	5,510	20,251	-72.8%
MEXICAN PESO	1,221,719	1,115,923	9.5%	1,376,493	-11.2%	13,534,329	12,162,115	11.3%
MICRO AUD/USD	271,953	314,611	-13.6%	289,867	-6.2%	2,916,229	2,381,001	22.5%

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<b>FX Futures</b>								
MICRO CAD/USD	80,400	55,396	45.1%	85,931	-6.4%	694,035	618,530	12.2%
MICRO CHF/USD	15,839	10,691	48.2%	16,673	-5.0%	189,941	97,489	94.8%
MICRO EUR/USD	873,666	580,150	50.6%	923,965	-5.4%	8,796,529	5,383,743	63.4%
MICRO GBP/USD	126,339	146,207	-13.6%	234,107	-46.0%	1,379,196	916,302	50.5%
MICRO INR/USD	764	738	3.5%	621	23.0%	7,807	18,272	-57.3%
MICRO JPY/USD	0	86,243	-100.0%	0	0.0%	101,719	432,297	-76.5%
MICRO USD/CNH	0	0	0.0%	0	0.0%	2	36	-94.4%
NEW ZEALND DOLLAR	617,666	493,335	25.2%	745,879	-17.2%	7,216,503	6,482,924	11.3%
NKR/USD CROSS RATE	2,764	3,861	-28.4%	3,420	-19.2%	39,129	59,712	-34.5%
POLISH ZLOTY (EC)	6	26	-76.9%	2	200.0%	1,229	1,440	-14.7%
POLISH ZLOTY (US)	2,389	808	195.7%	1,811	31.9%	17,969	10,045	78.9%
RMB USD	0	0	0.0%	0	0.0%	29	3	866.7%
RUSSIAN RUBLE	0	174,114	-100.0%	0	0.0%	587,309	1,287,413	-54.4%
S.AFRICAN RAND	70,391	75,786	-7.1%	80,785	-12.9%	1,029,174	676,856	52.1%
SF/JY CROSS RATES	1,528	50	2,956.0%	447	241.8%	12,302	595	1,967.6%
SHEKEL	6	25	-76.0%	1	500.0%	160	59	171.2%
SKR/USD CROSS RATES	7,131	4,910	45.2%	4,926	44.8%	83,616	63,486	31.7%
SWISS FRANC	452,450	543,363	-16.7%	458,555	-1.3%	5,933,600	5,468,698	8.5%
TURKISH LIRA	49	6	716.7%	24	104.2%	510	891	-42.8%
USDZAR	0	1,207	-100.0%	0	0.0%	31	1,279	-97.6%
<b>FX Options</b>								
AUD/USD MONDAY OPTION WEE	89	1,969	-95.5%	5	1,680.0%	1,848	6,623	-72.1%
AUD/USD MONDAY OPTION WEE	43	150	-71.3%	18	138.9%	3,304	4,626	-28.6%
AUD/USD MONDAY OPTION WEE	417	153	172.5%	134	211.2%	2,837	4,637	-38.8%
AUD/USD MONDAY OPTION WEE	346	12	2,783.3%	91	280.2%	3,580	4,524	-20.9%
AUD/USD MONDAY OPTION WEE	0	986	-100.0%	145	-100.0%	1,363	2,356	-42.1%
AUD/USD MONTHLY OPTIONS	64,616	82,580	-21.8%	52,855	22.3%	899,797	951,147	-5.4%
AUD/USD WKLY FRIDAY OPTION	896	0	0.0%	0	0.0%	6,376	7,231	-11.8%
AUD/USD WKLY FRIDAY OPTION	2,043	3,424	-40.3%	2,122	-3.7%	17,949	20,349	-11.8%
AUD/USD WKLY FRIDAY OPTION	1,242	2,484	-50.0%	1,072	15.9%	22,778	30,176	-24.5%
AUD/USD WKLY FRIDAY OPTION	1,128	4,213	-73.2%	2,541	-55.6%	19,444	34,030	-42.9%
AUD/USD WKLY FRIDAY OPTION	252	496	-49.2%	0	0.0%	6,052	9,137	-33.8%
AUD/USD WKLY WED OPTIONS -	50	1,083	-95.4%	432	-88.4%	6,411	14,178	-54.8%
AUD/USD WKLY WED OPTIONS -	1,003	344	191.6%	477	110.3%	5,674	8,490	-33.2%
AUD/USD WKLY WED OPTIONS -	33	71	-53.5%	85	-61.2%	2,190	3,139	-30.2%
AUD/USD WKLY WED OPTIONS -	849	516	64.5%	127	568.5%	5,584	9,585	-41.7%
AUD/USD WKLY WED OPTIONS -	380	0	0.0%	0	0.0%	958	1,985	-51.7%
BRL/USD MONTHLY OPTIONS	233	697	-66.6%	22	959.1%	3,276	3,988	-17.9%
CAD/USD MONDAY OPTIONS WE	1,819	1,444	26.0%	685	165.5%	4,337	10,339	-58.1%
CAD/USD MONDAY OPTIONS WE	796	708	12.4%	216	268.5%	11,508	16,428	-29.9%
CAD/USD MONDAY OPTIONS WE	1,403	378	271.2%	424	230.9%	11,449	10,682	7.2%
CAD/USD MONDAY OPTIONS WE	190	386	-50.8%	11	1,627.3%	7,207	22,893	-68.5%
CAD/USD MONDAY OPTIONS WE	0	1,224	-100.0%	1,240	-100.0%	2,775	4,371	-36.5%
CAD/USD MONTHLY OPTIONS	107,771	76,946	40.1%	73,022	47.6%	1,019,962	876,052	16.4%
CAD/USD WKLY FRIDAY OPTION	3,298	0	0.0%	0	0.0%	16,821	27,536	-38.9%
CAD/USD WKLY FRIDAY OPTION	2,638	8,738	-69.8%	4,220	-37.5%	37,324	54,502	-31.5%
CAD/USD WKLY FRIDAY OPTION	4,012	7,869	-49.0%	2,991	34.1%	59,311	84,599	-29.9%
CAD/USD WKLY FRIDAY OPTION	3,096	4,806	-35.6%	3,664	-15.5%	52,533	100,716	-47.8%
CAD/USD WKLY FRIDAY OPTION	6	120	-95.0%	0	0.0%	12,904	28,447	-54.6%

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<b>FX Options</b>								
CAD/USD WKLY WED OPTIONS -	746	2,089	-64.3%	992	-24.8%	10,910	23,281	-53.1%
CAD/USD WKLY WED OPTIONS -	783	2,043	-61.7%	804	-2.6%	12,808	20,414	-37.3%
CAD/USD WKLY WED OPTIONS -	459	4,169	-89.0%	1,062	-56.8%	15,026	27,836	-46.0%
CAD/USD WKLY WED OPTIONS -	810	945	-14.3%	1,681	-51.8%	16,624	27,286	-39.1%
CAD/USD WKLY WED OPTIONS -	1,038	0	0.0%	0	0.0%	5,512	9,535	-42.2%
CHF/USD MONTHLY OPTIONS	4,756	5,493	-13.4%	3,267	45.6%	62,205	60,969	2.0%
CHF/USD WKLY FRIDAY OPTION	166	0	0.0%	0	0.0%	1,155	411	181.0%
CHF/USD WKLY FRIDAY OPTION	36	1,091	-96.7%	30	20.0%	937	3,383	-72.3%
CHF/USD WKLY FRIDAY OPTION	249	83	200.0%	46	441.3%	1,296	1,965	-34.0%
CHF/USD WKLY FRIDAY OPTION	162	377	-57.0%	30	440.0%	1,399	2,808	-50.2%
CHF/USD WKLY FRIDAY OPTION	83	3	2,666.7%	0	0.0%	200	285	-29.8%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	0	0.0%	3,704	6	61,633.3%
EUR/GBP WKLY FRIDAY OPTION	0	100	-100.0%	0	0.0%	0	100	-100.0%
EURODOLLARS	3,332	0	-	1,820	83.1%	6,842	0	-
EUR/USD MONDAY OPTION WEE	1,033	785	31.6%	2,851	-63.8%	20,287	22,217	-8.7%
EUR/USD MONDAY OPTION WEE	3,017	714	322.5%	2,552	18.2%	30,054	23,638	27.1%
EUR/USD MONDAY OPTION WEE	1,962	1,165	68.4%	763	157.1%	12,385	16,753	-26.1%
EUR/USD MONDAY OPTION WEE	638	5,524	-88.5%	1,471	-56.6%	30,946	33,488	-7.6%
EUR/USD MONDAY OPTION WEE	0	3,149	-100.0%	766	-100.0%	5,022	9,094	-44.8%
EUR/USD MONTHLY OPTIONS	403,635	215,755	87.1%	337,205	19.7%	3,163,655	2,253,981	40.4%
EUR/USD WKLY FRIDAY OPTION	13,466	0	0.0%	3	448,766.7%	67,548	50,664	33.3%
EUR/USD WKLY FRIDAY OPTION	8,794	30,613	-71.3%	15,767	-44.2%	149,879	159,727	-6.2%
EUR/USD WKLY FRIDAY OPTION	19,159	33,627	-43.0%	15,399	24.4%	184,174	235,909	-21.9%
EUR/USD WKLY FRIDAY OPTION	12,419	16,656	-25.4%	15,885	-21.8%	198,796	205,882	-3.4%
EUR/USD WKLY FRIDAY OPTION	9	163	-94.5%	0	0.0%	59,030	85,936	-31.3%
EUR/USD WKLY WED OPTIONS -	3,254	8,027	-59.5%	9,153	-64.4%	71,213	75,117	-5.2%
EUR/USD WKLY WED OPTIONS -	5,111	9,353	-45.4%	7,267	-29.7%	61,332	79,721	-23.1%
EUR/USD WKLY WED OPTIONS -	5,963	9,834	-39.4%	5,698	4.7%	59,721	78,232	-23.7%
EUR/USD WKLY WED OPTIONS -	5,767	10,856	-46.9%	8,678	-33.5%	73,515	100,680	-27.0%
EUR/USD WKLY WED OPTIONS -	3,037	0	0.0%	0	0.0%	24,484	25,392	-3.6%
GBP/USD MONDAY OPTION WEE	688	239	187.9%	381	80.6%	5,977	5,439	9.9%
GBP/USD MONDAY OPTION WEE	451	729	-38.1%	509	-11.4%	11,163	7,977	39.9%
GBP/USD MONDAY OPTION WEE	643	1,948	-67.0%	273	135.5%	3,826	5,979	-36.0%
GBP/USD MONDAY OPTION WEE	483	3,233	-85.1%	829	-41.7%	6,192	10,588	-41.5%
GBP/USD MONDAY OPTION WEE	0	584	-100.0%	1,841	-100.0%	3,321	3,038	9.3%
GBP/USD MONTHLY OPTIONS	73,703	72,330	1.9%	105,333	-30.0%	932,018	816,211	14.2%
GBP/USD WKLY FRIDAY OPTION	1,615	0	0.0%	0	0.0%	10,748	12,507	-14.1%
GBP/USD WKLY FRIDAY OPTION	3,471	7,720	-55.0%	4,440	-21.8%	29,234	33,056	-11.6%
GBP/USD WKLY FRIDAY OPTION	7,043	4,994	41.0%	3,166	122.5%	40,350	36,073	11.9%
GBP/USD WKLY FRIDAY OPTION	2,378	3,754	-36.7%	2,516	-5.5%	33,189	41,626	-20.3%
GBP/USD WKLY FRIDAY OPTION	492	503	-2.2%	0	0.0%	11,169	11,560	-3.4%
GBP/USD WKLY WED OPTIONS -	661	1,288	-48.7%	2,198	-69.9%	14,089	13,489	4.4%
GBP/USD WKLY WED OPTIONS -	509	1,383	-63.2%	539	-5.6%	5,341	8,566	-37.6%
GBP/USD WKLY WED OPTIONS -	1,054	2,656	-60.3%	1,069	-1.4%	11,413	9,427	21.1%
GBP/USD WKLY WED OPTIONS -	803	3,775	-78.7%	1,586	-49.4%	13,191	16,253	-18.8%
GBP/USD WKLY WED OPTIONS -	650	0	0.0%	0	0.0%	1,320	2,591	-49.1%
JPY/USD MONDAY OPTION WEE	88	121	-27.3%	153	-42.5%	6,782	4,473	51.6%
JPY/USD MONDAY OPTION WEE	1,563	136	1,049.3%	438	256.8%	9,878	6,147	60.7%
JPY/USD MONDAY OPTION WEE	109	208	-47.6%	156	-30.1%	3,085	4,100	-24.8%
JPY/USD MONDAY OPTION WEE	289	640	-54.8%	6,372	-95.5%	16,044	4,919	226.2%
JPY/USD MONDAY OPTION WEE	0	200	-100.0%	720	-100.0%	967	2,897	-66.6%

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 Exchange Volume Report - Monthly

	VOLUME NOV 2022	VOLUME NOV 2021	% CHG	VOLUME OCT 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>FX Options</b>								
JPY/USD MONTHLY OPTIONS	81,572	92,479	-11.8%	141,887	-42.5%	1,564,054	972,884	60.8%
JPY/USD WKLY FRIDAY OPTION	6,206	0	0.0%	0	0.0%	39,044	28,897	35.1%
JPY/USD WKLY FRIDAY OPTION	6,686	17,647	-62.1%	10,664	-37.3%	88,956	70,338	26.5%
JPY/USD WKLY FRIDAY OPTION	11,494	13,707	-16.1%	15,618	-26.4%	130,108	112,869	15.3%
JPY/USD WKLY FRIDAY OPTION	3,909	8,335	-53.1%	12,765	-69.4%	117,744	101,277	16.3%
JPY/USD WKLY FRIDAY OPTION	21	310	-93.2%	0	0.0%	38,782	36,997	4.8%
JPY/USD WKLY WED OPTIONS -	1,728	5,984	-71.1%	9,752	-82.3%	42,323	34,295	23.4%
JPY/USD WKLY WED OPTIONS -	3,165	6,053	-47.7%	5,857	-46.0%	40,469	43,407	-6.8%
JPY/USD WKLY WED OPTIONS -	2,992	7,142	-58.1%	3,569	-16.2%	35,360	41,939	-15.7%
JPY/USD WKLY WED OPTIONS -	2,101	7,049	-70.2%	6,953	-69.8%	48,748	38,934	25.2%
JPY/USD WKLY WED OPTIONS -	3,561	0	0.0%	0	0.0%	15,566	9,879	57.6%
MXN/USD MONTHLY OPTIONS	954	972	-1.9%	353	170.3%	16,819	15,554	8.1%
MXN/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-	0	0	0.0%
MXN/USD WKLY FRIDAY OPTION	0	300	-100.0%	0	0.0%	17	904	-98.1%
MXN/USD WKLY FRIDAY OPTION	100	0	0.0%	0	0.0%	100	552	-81.9%
MXN/USD WKLY FRIDAY OPTION	0	0	0.0%	0	0.0%	0	631	-100.0%
MXN/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-	0	0	0.0%
NZD/USD MONTHLY OPTIONS	4	587	-99.3%	10	-60.0%	23,736	2,648	796.4%
NZD/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-	0	0	0.0%
NZD/USD WKLY FRIDAY OPTION	0	0	0.0%	0	0.0%	0	67	-100.0%
NZD/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-	0	0	0.0%
RUB/USD MONTHLY OPTIONS	0	0	0.0%	0	0.0%	0	68	-100.0%
<b>Foreign Exchange Futures</b>								
CHILEAN PESO	0	0	-	0	0.0%	24	0	-
<b>Foreign Exchange Options</b>								
AUD/USD WKLY WED OPTIONS -	63	570	-88.9%	101	-37.6%	3,410	5,103	-33.2%



## CME Exchange Volume Report - Monthly

	VOLUME NOV 2022	VOLUME NOV 2021	% CHG	VOLUME OCT 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>Ag Products Futures</b>								
BLOCK CHEESE	189	270	-30.0%	326	-42.0%	3,607	8,130	-55.6%
BUTTER CS	3,775	3,881	-2.7%	4,117	-8.3%	46,494	44,996	3.3%
CASH-SETTLED CHEESE	9,198	15,286	-39.8%	9,136	0.7%	107,967	132,810	-18.7%
CAT ASIA WEATHER	0	0	0.0%	0	0.0%	0	1,200	-100.0%
CATTLE	1,213,876	1,274,084	-4.7%	1,051,565	15.4%	13,255,633	12,987,806	2.1%
CAT WEATHER EUROPEAN	0	0	0.0%	0	0.0%	0	500	-100.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0.0%	7,400	6,275	17.9%
CDD WEATHER	0	0	0.0%	0	0.0%	23,650	9,325	153.6%
CLASS IV MILK	1,444	4,024	-64.1%	1,443	0.1%	27,406	17,996	52.3%
DRY WHEY	669	1,565	-57.3%	497	34.6%	10,733	21,415	-49.9%
FEEDER CATTLE	279,193	234,357	19.1%	307,268	-9.1%	3,105,499	2,830,171	9.7%
GOLDMAN SACHS	2,996	5,090	-41.1%	3,178	-5.7%	42,409	93,111	-54.5%
GSCI EXCESS RETURN FUT	528	4,542	-88.4%	899	-41.3%	406,034	377,790	7.5%
HDD EURO SEASONAL STRIP	0	0	0.0%	1,000	-100.0%	3,375	0	0.0%
HDD SEASONAL STRIP	0	0	0.0%	150	-100.0%	3,900	500	680.0%
HDD WEATHER	4,875	3,300	47.7%	7,350	-33.7%	21,900	23,950	-8.6%
HDD WEATHER EUROPEAN	500	4,500	-88.9%	3,950	-87.3%	8,325	11,350	-26.7%
HOGS	948,713	968,964	-2.1%	898,146	5.6%	10,606,337	10,659,044	-0.5%
HOUSING INDEX	17	20	-15.0%	15	13.3%	173	152	13.8%
LUMBER	8,409	7,368	14.1%	12,521	-32.8%	98,625	106,276	-7.2%
MALAYSIAN PALM SWAP	0	1,890	-100.0%	0	0.0%	0	89,946	-100.0%
MILK	26,407	32,169	-17.9%	21,684	21.8%	313,326	277,619	12.9%
MLK MID OPTIONS	0	0	0.0%	0	0.0%	0	0	0.0%
NFD MILK	4,899	5,510	-11.1%	5,963	-17.8%	62,423	61,192	2.0%
PACIFIC RIM DAT SS WTHR	0	0	0.0%	0	0.0%	0	1,000	-100.0%
PORK CUTOUT	1,489	2,221	-33.0%	1,607	-7.3%	22,861	26,382	-13.3%
S&P GSCI ENHANCED ER SWAP	0	0	0.0%	0	0.0%	0	6,006	-100.0%
USD CRUDE PALM OIL	15,935	29,262	-45.5%	16,009	-0.5%	235,499	105,470	123.3%

## CME Exchange Volume Report - Monthly

	VOLUME NOV 2022	VOLUME NOV 2021	% CHG	VOLUME OCT 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>Ag Products Options</b>								
BLOCK CHEESE	0	0	0.0%	6	-100.0%	2,515	3,129	-19.6%
BUTTER CS	2,225	1,862	19.5%	1,963	13.3%	18,190	21,915	-17.0%
CASH-SETTLED CHEESE	4,946	5,395	-8.3%	6,333	-21.9%	76,490	69,588	9.9%
CATTLE	210,304	240,347	-12.5%	192,076	9.5%	2,355,024	2,133,807	10.4%
CDD SEASONAL STRIP	0	0	0.0%	0	0.0%	20,500	8,450	142.6%
CDD WEATHER	0	0	0.0%	0	0.0%	1,100	6,250	-82.4%
CLASS IV MILK	8,096	7,926	2.1%	6,561	23.4%	82,713	47,385	74.6%
DRY WHEY	0	225	-100.0%	5	-100.0%	3,234	1,983	63.1%
FEEDER CATTLE	29,902	27,536	8.6%	38,506	-22.3%	392,226	243,589	61.0%
HDD EURO SEASONAL STRIP	0	0	0.0%	2,000	-100.0%	6,750	2,000	237.5%
HDD SEASONAL STRIP	0	0	0.0%	1,500	-100.0%	4,000	28,920	-86.2%
HDD WEATHER	100	0	0.0%	500	-80.0%	12,900	7,250	77.9%
HDD WEATHER EUROPEAN	0	2,000	-100.0%	1,000	-100.0%	2,000	24,250	-91.8%
HOGS	183,582	180,804	1.5%	227,260	-19.2%	2,497,659	2,235,718	11.7%
HOUSING INDEX	0	0	0.0%	0	-	0	0	0.0%
LUMBER	206	539	-61.8%	380	-45.8%	4,316	7,648	-43.6%
LV CATL CSO	0	0	0.0%	0	-	0	0	0.0%
MILK	36,026	25,080	43.6%	23,543	53.0%	274,765	286,358	-4.0%
MLK MID OPTIONS	1	12	-91.7%	0	0.0%	46	28	64.3%
NFD MILK	4,043	2,995	35.0%	6,434	-37.2%	48,728	43,628	11.7%
PORK CUTOUT	10	0	0.0%	0	0.0%	45	750	-94.0%



## CME Exchange Volume Report - Monthly

	VOLUME NOV 2022	VOLUME NOV 2021	% CHG	VOLUME OCT 2022	% CHG	VOLUME Y.T.D 2022	VOLUME Y.T.D 2021	% CHG
<b>TOTAL FUTURES GROUP</b>								
Interest Rate Futures	64,147,919	66,900,908	-4.1%	59,418,053	8.0%	785,740,205	601,453,444	30.6%
Equity Index Futures	111,666,868	91,073,212	22.6%	139,864,402	-20.2%	1,402,627,123	1,000,988,564	40.1%
FX Futures	18,569,900	15,982,589	16.2%	20,633,015	-10.0%	215,868,446	173,451,107	24.5%
Foreign Exchange Futures	0	0	-	0	0.0%	24	0	-
Ag Products Futures	2,523,112	2,598,303	-2.9%	2,346,824	7.5%	28,413,576	27,900,412	1.8%
<b>TOTAL FUTURES</b>	<b>196,907,799</b>	<b>176,555,012</b>	<b>11.5%</b>	<b>222,262,294</b>	<b>-11.4%</b>	<b>2,432,649,374</b>	<b>1,803,793,527</b>	<b>34.9%</b>
<b>TOTAL OPTIONS GROUP</b>								
Equity Index Options	26,198,629	20,189,069	29.8%	30,822,376	-15.0%	280,162,024	167,348,485	67.4%
Interest Rate Options	30,684,749	30,151,228	1.8%	31,321,036	-2.0%	293,622,167	246,121,615	19.3%
FX Options	919,719	831,417	10.6%	919,736	0.0%	9,967,334	8,556,532	16.5%
Ag Products Options	479,441	494,721	-3.1%	508,067	-5.6%	5,803,201	5,172,646	12.2%
Foreign Exchange Options	63	570	-88.9%	101	-37.6%	3,410	5,103	-33.2%
<b>TOTAL OPTIONS</b>	<b>58,282,601</b>	<b>51,667,005</b>	<b>12.8%</b>	<b>63,571,316</b>	<b>-8.3%</b>	<b>589,558,136</b>	<b>427,204,381</b>	<b>38.0%</b>
<b>TOTAL COMBINED</b>								
Interest Rate	94,832,668	97,052,136	-2.3%	90,739,089	4.5%	1,079,362,372	847,575,059	27.3%
Equity Index	137,865,497	111,262,281	23.9%	170,686,778	-19.2%	1,682,789,147	1,168,337,049	44.0%
FX	19,489,619	16,814,006	15.9%	21,552,751	-9.6%	225,835,780	182,007,639	24.1%
Foreign Exchange	63	570	-88.9%	101	-37.6%	3,434	5,103	-32.7%
Ag Products	3,002,553	3,093,024	-2.9%	2,854,891	5.2%	34,216,777	33,073,058	3.5%
<b>GRAND TOTAL</b>	<b>255,190,400</b>	<b>228,222,017</b>	<b>11.8%</b>	<b>285,833,610</b>	<b>-10.7%</b>	<b>3,022,207,510</b>	<b>2,230,997,908</b>	<b>35.5%</b>