

## CME Exchange Volume Report - Monthly

	VOLUME APR 2023	VOLUME APR 2022	% CHG	VOLUME MAR 2023	% CHG	VOLUME Y.T.D 2023	VOLUME Y.T.D 2022	% CHG
<b>Interest Rate Futures</b>								
1-MONTH EURODOLLAR	1,000	4,533	-77.9%	0	0.0%	1,006	62,955	-98.4%
BSBY 3-MONTH FUTURES	4,206	66,049	-93.6%	9,141	-54.0%	24,177	363,204	-93.3%
ESTR Basis Spread Futures	102	0	-	1,458	-93.0%	4,668	0	-
ESTR Futures	30,893	0	-	31,714	-2.6%	133,237	0	-
EURODOLLARS	1,328,733	35,003,357	-96.2%	10,045,428	-86.8%	27,573,110	204,121,905	-86.5%
FTIIE	356	60	493.3%	334	6.6%	1,103	493	123.7%
SOFR	48,644,647	28,148,059	72.8%	118,656,278	-59.0%	290,932,185	102,522,668	183.8%
SONIA	0	12	-100.0%	76	-100.0%	1,310	1,046	25.2%
<b>Interest Rate Options</b>								
EURODOLLARS	651,883	9,723,073	-93.3%	2,120,119	-69.3%	8,555,737	65,050,018	-86.8%
EURO MIDCURVE	32,932	6,518,395	-99.5%	75,193	-56.2%	597,753	43,511,943	-98.6%
SOFR	24,825,051	965,899	2,470.1%	57,891,692	-57.1%	148,290,579	2,387,255	6,111.8%
SOFR MIDCURVE	3,671,896	545,666	572.9%	9,807,006	-62.6%	30,783,979	1,541,999	1,896.4%
SOFR MISCURVE	0	0	-	0	0.0%	700	0	-

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<b>Equity Index Futures</b>								
BITCOIN	184,551	151,780	21.6%	276,542	-33.3%	871,788	697,760	24.9%
E-mini FTSE China 50	0	2,286	-100.0%	0	0.0%	44	5,670	-99.2%
E-MINI MIDCAP	193,076	277,688	-30.5%	484,297	-60.1%	1,119,795	1,422,208	-21.3%
E-MINI NASDAQ 100	11,689,411	12,884,469	-9.3%	17,972,459	-35.0%	54,252,719	58,379,838	-7.1%
E-MINI RUSSELL 1000	1,777	17,750	-90.0%	20,871	-91.5%	36,881	51,967	-29.0%
E-MINI RUSSELL 1000 GROWTH	1,335	3,336	-60.0%	14,585	-90.8%	21,007	39,417	-46.7%
E-MINI RUSSELL 1000 VALUE	10,868	9,774	11.2%	33,223	-67.3%	59,514	95,720	-37.8%
E-MINI RUSSELL 2000	3,168,826	4,176,615	-24.1%	7,201,260	-56.0%	17,932,940	20,701,098	-13.4%
E-MINI S&P500	29,227,882	32,288,032	-9.5%	55,678,091	-47.5%	155,576,475	153,985,775	1.0%
E-MINI S&P500 ESG	13,775	8,328	65.4%	49,728	-72.3%	90,420	144,637	-37.5%
ETHER	0	0	-	0	0.0%	0	0	-
ETHER FUTURES	106,026	83,568	26.9%	134,142	-21.0%	472,392	404,388	16.8%
FT-SE 100	30	0	0.0%	0	0.0%	175	892	-80.4%
FTSE Emerging	0	0	0.0%	0	-	0	0	0.0%
IBOVESPA INDEX	18	152	-88.2%	12	50.0%	132	286	-53.8%
MICRO BITCOIN	242,303	301,683	-19.7%	271,333	-10.7%	859,342	1,529,275	-43.8%
MICRO E-MINI NASDAQ 100	17,515,475	26,355,938	-33.5%	27,056,218	-35.3%	89,178,143	125,785,378	-29.1%
MICRO E-MINI RUSSELL 2000	1,317,047	2,143,263	-38.5%	2,263,838	-41.8%	6,787,113	13,103,467	-48.2%
MICRO E-MINI S&P500	17,354,035	23,566,020	-26.4%	30,385,024	-42.9%	97,340,793	108,288,349	-10.1%
MICRO ETHER	270,097	393,063	-31.3%	199,010	35.7%	889,638	1,575,884	-43.5%
NASDAQ-100 VOLATILITY	10	1,999	-99.5%	18	-44.4%	3,202	14,145	-77.4%
NASDAQ BIOTECH SECTOR	236	165	43.0%	223	5.8%	1,032	578	78.5%
Nearby BTIC+	0	1,600	-100.0%	0	0.0%	0	2,350	-100.0%
NIKKEI 225 (\$) STOCK	63,354	93,197	-32.0%	142,666	-55.6%	373,466	518,742	-28.0%
NIKKEI 225 (YEN) STOCK	390,842	605,313	-35.4%	777,576	-49.7%	2,190,174	3,417,399	-35.9%
PHLX SEMICONDUCTOR SECTO	584	0	-	546	7.0%	1,501	0	-
S&P 500	45,182	28,151	60.5%	174,608	-74.1%	398,797	334,945	19.1%
S&P 500 ANNUAL DIVIDEND IND	58,210	58,871	-1.1%	121,023	-51.9%	303,542	356,565	-14.9%
S&P 500 QUARLY DIVIDEND IND	16,973	601	2,724.1%	27,235	-37.7%	75,026	16,723	348.6%
S&P BIOTECHNOLOGY SECTOR	2,915	0	-	2,107	38.3%	5,766	0	-
S&P COMMUNICATION SERVICE	4,340	2,897	49.8%	8,690	-50.1%	17,756	14,477	22.6%
S&P CONSUMER DISCRETIONAF	7,398	6,217	19.0%	18,857	-60.8%	37,304	48,726	-23.4%
S&P CONSUMER STAPLES SECT	22,479	21,253	5.8%	52,108	-56.9%	127,122	102,255	24.3%
S&P ENERGY SECTOR	29,684	27,662	7.3%	98,127	-69.7%	173,138	260,134	-33.4%
S&P FINANCIAL SECTOR	28,544	19,389	47.2%	148,519	-80.8%	214,124	165,844	29.1%
S&P HEALTH CARE SECTOR	12,050	17,483	-31.1%	64,975	-81.5%	100,702	106,407	-5.4%
S&P INDUSTRIAL SECTOR	9,443	14,187	-33.4%	60,934	-84.5%	99,299	108,285	-8.3%
S&P MATERIALS SECTOR	3,944	8,071	-51.1%	23,417	-83.2%	41,129	65,446	-37.2%
S&P OIL & GAS EXPLORATION A	133	0	-	562	-76.3%	938	0	-
S&P REAL ESTATE SECTOR	4,380	1,672	162.0%	20,547	-78.7%	46,714	32,324	44.5%
S&P REGIONAL BANKS SECTOR	1,807	0	-	1,922	-6.0%	4,106	0	-
S&P RETAIL SECTOR	86	0	-	310	-72.3%	1,451	0	-
S&P TECHNOLOGY SECTOR	7,180	11,471	-37.4%	45,693	-84.3%	73,835	107,533	-31.3%
S&P UTILITIES SECTOR	16,436	22,421	-26.7%	107,255	-84.7%	178,913	144,373	23.9%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	-	0	0	0.0%
TOPIX (USD)	0	0	-	139	-100.0%	139	0	-
TOPIX (YEN)	74	2,756	-97.3%	509	-85.5%	983	15,168	-93.5%
WATER INDEX FUTURES	14	89	-84.3%	17	-17.6%	84	480	-82.5%

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<b>Equity Index Options</b>								
BITCOIN OPTIONS	7,592	1,451	423.2%	12,763	-40.5%	34,137	7,809	337.1%
E-MINI NASDAQ 100	907,085	945,774	-4.1%	1,371,565	-33.9%	4,198,283	3,407,773	23.2%
E-MINI RUSSELL 2000	167,901	142,127	18.1%	171,421	-2.1%	546,265	643,787	-15.1%
E-MINI S&P500	19,122,962	20,858,438	-8.3%	31,869,471	-40.0%	97,416,636	91,173,372	6.8%
EOM S&P 500	0	0	0.0%	0	-	0	0	0.0%
ETHER OPTIONS	1,505	0	-	1,080	39.4%	4,722	0	-
EVENT CONTRACT S&P 500	12,763	0	-	1,739	633.9%	14,502	0	-
MICRO BITCOIN	11,078	3,576	209.8%	11,414	-2.9%	40,530	3,693	997.5%
MICRO E-MINI NASDAQ 100	41,434	56,790	-27.0%	60,539	-31.6%	212,123	267,219	-20.6%
Micro E-mini S&P 500	172,052	165,994	3.6%	285,957	-39.8%	1,022,991	1,022,396	0.1%
MICRO ETHER	13,782	17,570	-21.6%	15,453	-10.8%	44,372	37,670	17.8%
S&P 500	0	0	0.0%	0	-	0	0	0.0%
<b>FX Futures</b>								
AD/CD CROSS RATES	2	105	-98.1%	99	-98.0%	153	223	-31.4%
AD/JY CROSS RATES	1,297	6,354	-79.6%	3,939	-67.1%	7,741	23,120	-66.5%
AD/NE CROSS RATES	2,989	2,799	6.8%	4,240	-29.5%	11,164	9,713	14.9%
AUSTRALIAN DOLLAR	1,407,938	1,713,991	-17.9%	2,764,914	-49.1%	7,644,511	7,679,211	-0.5%
BP/JY CROSS RATES	1,241	3,593	-65.5%	8,385	-85.2%	14,808	18,312	-19.1%
BP/SF CROSS RATES	3,362	2,234	50.5%	5,171	-35.0%	13,765	9,093	51.4%
BRAZIL REAL	241,146	353,482	-31.8%	292,233	-17.5%	1,138,161	1,383,957	-17.8%
BRITISH POUND	1,624,791	1,994,971	-18.6%	3,131,760	-48.1%	8,303,047	9,028,447	-8.0%
CANADIAN DOLLAR	1,351,586	1,465,493	-7.8%	2,602,479	-48.1%	6,889,770	6,634,072	3.9%
CD/JY CROSS RATES	0	2	-100.0%	1	-100.0%	6	580	-99.0%
CHILEAN PESO	0	0	0.0%	0	0.0%	3	23	-87.0%
CHINESE RENMINBI (CNH)	11,119	31,385	-64.6%	35,657	-68.8%	98,724	89,414	10.4%
CZECK KORUNA (EC)	0	24	-100.0%	2	-100.0%	4	35	-88.6%
CZECK KORUNA (US)	3	1	200.0%	11	-72.7%	220	11	1,900.0%
EC/AD CROSS RATES	2,582	3,353	-23.0%	12,182	-78.8%	18,055	20,738	-12.9%
EC/CD CROSS RATES	3,588	5,149	-30.3%	16,833	-78.7%	25,601	32,692	-21.7%
EC/NOK CROSS RATES	384	1,113	-65.5%	5,984	-93.6%	9,098	5,380	69.1%
EC/SEK CROSS RATES	454	779	-41.7%	14,333	-96.8%	19,533	9,174	112.9%
EFX/BP CROSS RATES	27,629	57,716	-52.1%	129,438	-78.7%	221,531	372,463	-40.5%
EFX/JY CROSS RATES	24,272	34,019	-28.7%	104,214	-76.7%	184,651	272,641	-32.3%
EFX/SF CROSS RATES	9,794	20,808	-52.9%	64,185	-84.7%	97,148	176,101	-44.8%
E-MICRO USD/CAD	106	111	-4.5%	200	-47.0%	700	1,290	-45.7%
E-MICRO USD/CHF	430	24	1,691.7%	218	97.2%	935	264	254.2%
E-MICRO USD/JPY	4,815	14,206	-66.1%	1,588	203.2%	8,739	26,331	-66.8%
E-MINI EURO FX	103,483	101,541	1.9%	180,148	-42.6%	562,019	518,987	8.3%
E-MINI JAPANESE YEN	7,232	11,266	-35.8%	12,216	-40.8%	44,122	31,599	39.6%
EURO FX	3,403,042	3,582,552	-5.0%	7,343,077	-53.7%	18,685,316	17,946,136	4.1%
HUNGARIAN FORINT (EC)	0	1	-100.0%	6	-100.0%	13	31	-58.1%
HUNGARIAN FORINT (US)	23	2	1,050.0%	25	-8.0%	69	29	137.9%
INDIAN RUPEE	19,800	22,460	-11.8%	27,630	-28.3%	128,609	81,324	58.1%
JAPANESE YEN	2,805,802	2,869,204	-2.2%	4,646,555	-39.6%	13,070,480	10,606,049	23.2%
KOREAN WON	3,467	535	548.0%	1,590	118.1%	5,451	3,117	74.9%
MEXICAN PESO	910,589	825,733	10.3%	2,426,463	-62.5%	5,129,822	4,030,520	27.3%
MICRO AUD/USD	238,337	259,561	-8.2%	323,759	-26.4%	1,145,761	1,042,965	9.9%
MICRO CAD/USD	39,550	47,269	-16.3%	73,924	-46.5%	240,519	212,370	13.3%

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<b>FX Futures</b>								
MICRO CHF/USD	9,905	10,437	-5.1%	16,178	-38.8%	60,392	43,174	39.9%
MICRO EUR/USD	540,156	664,143	-18.7%	807,442	-33.1%	2,749,615	2,751,023	-0.1%
MICRO GBP/USD	53,844	75,259	-28.5%	78,454	-31.4%	284,145	324,304	-12.4%
MICRO INR/USD	430	744	-42.2%	592	-27.4%	2,322	3,318	-30.0%
MICRO JPY/USD	0	0	0.0%	0	0.0%	0	101,719	-100.0%
MICRO USD/CNH	0	0	0.0%	0	0.0%	0	2	-100.0%
NEW ZEALND DOLLAR	535,882	529,584	1.2%	832,135	-35.6%	2,439,398	2,275,074	7.2%
NKR/USD CROSS RATE	3,604	2,457	46.7%	9,035	-60.1%	18,357	13,907	32.0%
POLISH ZLOTY (EC)	3	66	-95.5%	194	-98.5%	243	618	-60.7%
POLISH ZLOTY (US)	1,046	608	72.0%	2,014	-48.1%	4,524	6,441	-29.8%
RMB USD	0	1	-100.0%	0	0.0%	5	5	0.0%
RUSSIAN RUBLE	0	1,023	-100.0%	0	0.0%	0	585,192	-100.0%
S.AFRICAN RAND	36,000	73,616	-51.1%	118,726	-69.7%	270,315	360,180	-25.0%
SF/JY CROSS RATES	558	837	-33.3%	2,208	-74.7%	3,483	2,200	58.3%
SHEKEL	51	5	920.0%	172	-70.3%	305	44	593.2%
SKR/USD CROSS RATES	2,977	5,063	-41.2%	7,671	-61.2%	19,431	31,229	-37.8%
SWISS FRANC	394,135	381,540	3.3%	616,181	-36.0%	1,744,387	1,871,382	-6.8%
TURKISH LIRA	0	0	0.0%	131	-100.0%	131	128	2.3%
USDZAR	0	0	0.0%	57	-100.0%	97	27	259.3%
<b>FX Options</b>								
AUD/USD MONDAY OPTION WEE	54	85	-36.5%	303	-82.2%	445	1,449	-69.3%
AUD/USD MONDAY OPTION WEE	132	83	59.0%	1,351	-90.2%	2,054	2,329	-11.8%
AUD/USD MONDAY OPTION WEE	137	607	-77.4%	862	-84.1%	1,007	1,497	-32.7%
AUD/USD MONDAY OPTION WEE	140	820	-82.9%	148	-5.4%	1,082	1,613	-32.9%
AUD/USD MONDAY OPTION WEE	0	0	0.0%	0	0.0%	315	779	-59.6%
AUD/USD MONTHLY OPTIONS	70,049	97,757	-28.3%	84,886	-17.5%	226,881	412,119	-44.9%
AUD/USD THURSDAY WKLY OPT	12	0	-	27	-55.6%	72	0	-
AUD/USD THURSDAY WKLY OPT	7	0	-	7	0.0%	52	0	-
AUD/USD THURSDAY WKLY OPT	50	0	-	443	-88.7%	1,104	0	-
AUD/USD THURSDAY WKLY OPT	71	0	-	152	-53.3%	380	0	-
AUD/USD THURSDAY WKLY OPT	0	0	-	11	-100.0%	11	0	-
AUD/USD TUESDAY WKLY OPT	50	0	-	72	-30.6%	182	0	-
AUD/USD TUESDAY WKLY OPT	76	0	-	355	-78.6%	1,071	0	-
AUD/USD TUESDAY WKLY OPT	71	0	-	84	-15.5%	338	0	-
AUD/USD TUESDAY WKLY OPT	132	0	-	95	38.9%	290	0	-
AUD/USD TUESDAY WKLY OPT	0	0	-	0	0.0%	105	0	-
AUD/USD WKLY FRIDAY OPTION	0	20	-100.0%	0	0.0%	0	1,770	-100.0%
AUD/USD WKLY FRIDAY OPTION	1,149	1,098	4.6%	2,739	-58.1%	8,045	8,144	-1.2%
AUD/USD WKLY FRIDAY OPTION	1,357	1,629	-16.7%	2,001	-32.2%	7,678	10,736	-28.5%
AUD/USD WKLY FRIDAY OPTION	3,128	1,277	144.9%	2,109	48.3%	8,594	7,608	13.0%
AUD/USD WKLY FRIDAY OPTION	0	1,463	-100.0%	949	-100.0%	1,267	2,042	-38.0%
AUD/USD WKLY WED OPTIONS -	298	268	11.2%	122	144.3%	797	3,408	-76.6%
AUD/USD WKLY WED OPTIONS -	452	571	-20.8%	196	130.6%	997	2,657	-62.5%
AUD/USD WKLY WED OPTIONS -	252	149	69.1%	95	165.3%	1,105	2,948	-62.5%
AUD/USD WKLY WED OPTIONS -	399	615	-35.1%	199	100.5%	1,520	1,876	-19.0%
AUD/USD WKLY WED OPTIONS -	0	0	0.0%	310	-100.0%	310	211	46.9%
BRL/USD MONTHLY OPTIONS	200	184	8.7%	0	0.0%	205	1,781	-88.5%
CAD/USD MONDAY OPTIONS WE	1,073	261	311.1%	1,787	-40.0%	3,627	861	321.3%
CAD/USD MONDAY OPTIONS WE	783	1,339	-41.5%	2,488	-68.5%	6,056	5,844	3.6%

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<b>FX Options</b>								
CAD/USD MONDAY OPTIONS WE	109	2,885	-96.2%	3,493	-96.9%	3,610	3,460	4.3%
CAD/USD MONDAY OPTIONS WE	1,105	1,477	-25.2%	1,064	3.9%	3,846	4,446	-13.5%
CAD/USD MONDAY OPTIONS WE	0	0	0.0%	0	0.0%	247	1,256	-80.3%
CAD/USD MONTHLY OPTIONS	27,363	111,346	-75.4%	117,738	-76.8%	273,569	379,404	-27.9%
CAD/USD THURSDAY WKLY OPT	0	0	-	189	-100.0%	595	0	-
CAD/USD THURSDAY WKLY OPT	4	0	-	465	-99.1%	623	0	-
CAD/USD THURSDAY WKLY OPT	935	0	-	417	124.2%	1,364	0	-
CAD/USD THURSDAY WKLY OPT	21	0	-	860	-97.6%	1,365	0	-
CAD/USD THURSDAY WKLY OPT	0	0	-	1,586	-100.0%	1,586	0	-
CAD/USD TUESDAY WKLY OPT	624	0	-	522	19.5%	1,202	0	-
CAD/USD TUESDAY WKLY OPT	110	0	-	2,739	-96.0%	3,070	0	-
CAD/USD TUESDAY WKLY OPT	456	0	-	494	-7.7%	1,415	0	-
CAD/USD TUESDAY WKLY OPT	18	0	-	11	63.6%	224	0	-
CAD/USD TUESDAY WKLY OPT	0	0	-	0	0.0%	76	0	-
CAD/USD WKLY FRIDAY OPTION	0	165	-100.0%	0	0.0%	0	6,159	-100.0%
CAD/USD WKLY FRIDAY OPTION	1,658	767	116.2%	2,916	-43.1%	12,009	16,102	-25.4%
CAD/USD WKLY FRIDAY OPTION	1,945	6,085	-68.0%	2,989	-34.9%	10,450	23,610	-55.7%
CAD/USD WKLY FRIDAY OPTION	3,301	7,313	-54.9%	5,184	-36.3%	14,529	23,363	-37.8%
CAD/USD WKLY FRIDAY OPTION	0	3,629	-100.0%	4,727	-100.0%	5,073	4,281	18.5%
CAD/USD WKLY WED OPTIONS -	1,372	1,448	-5.2%	950	44.4%	3,956	4,638	-14.7%
CAD/USD WKLY WED OPTIONS -	853	1,258	-32.2%	982	-13.1%	3,028	5,286	-42.7%
CAD/USD WKLY WED OPTIONS -	237	2,887	-91.8%	1,053	-77.5%	4,552	6,819	-33.2%
CAD/USD WKLY WED OPTIONS -	991	1,045	-5.2%	2,762	-64.1%	6,339	7,587	-16.4%
CAD/USD WKLY WED OPTIONS -	0	0	0.0%	889	-100.0%	889	2,938	-69.7%
CHF/USD MONTHLY OPTIONS	5,168	5,068	2.0%	7,961	-35.1%	23,215	24,193	-4.0%
CHF/USD WKLY FRIDAY OPTION	0	0	0.0%	0	0.0%	0	520	-100.0%
CHF/USD WKLY FRIDAY OPTION	720	89	709.0%	506	42.3%	1,534	720	113.1%
CHF/USD WKLY FRIDAY OPTION	614	35	1,654.3%	91	574.7%	1,079	398	171.1%
CHF/USD WKLY FRIDAY OPTION	509	29	1,655.2%	1,452	-64.9%	4,804	742	547.4%
CHF/USD WKLY FRIDAY OPTION	0	14	-100.0%	336	-100.0%	342	14	2,342.9%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	0	0.0%	0	1,954	-100.0%
EUR/GBP WKLY FRIDAY OPTION	0	0	0.0%	0	-	0	0	0.0%
EURODOLLARS	5,728	0	-	3,149	81.9%	16,517	0	-
EURO FX	34	0	-	0	-	34	0	-
EUR/USD MONDAY OPTION WEE	1,722	2,155	-20.1%	1,874	-8.1%	8,666	9,118	-5.0%
EUR/USD MONDAY OPTION WEE	866	970	-10.7%	2,136	-59.5%	6,973	14,608	-52.3%
EUR/USD MONDAY OPTION WEE	730	1,628	-55.2%	3,369	-78.3%	5,480	4,306	27.3%
EUR/USD MONDAY OPTION WEE	706	11,266	-93.7%	2,398	-70.6%	7,325	19,917	-63.2%
EUR/USD MONDAY OPTION WEE	0	0	0.0%	0	0.0%	955	2,856	-66.6%
EUR/USD MONTHLY OPTIONS	198,450	294,346	-32.6%	433,529	-54.2%	1,118,429	1,013,230	10.4%
EUR/USD THURSDAY WKLY OPT	661	0	-	14	4,621.4%	1,031	0	-
EUR/USD THURSDAY WKLY OPT	1,806	0	-	603	199.5%	3,749	0	-
EUR/USD THURSDAY WKLY OPT	95	0	-	201	-52.7%	390	0	-
EUR/USD THURSDAY WKLY OPT	683	0	-	3,316	-79.4%	5,318	0	-
EUR/USD THURSDAY WKLY OPT	0	0	-	12	-100.0%	12	0	-
EUR/USD TUESDAY WKLY OPT	29	0	-	169	-82.8%	611	0	-
EUR/USD TUESDAY WKLY OPT	16	0	-	293	-94.5%	541	0	-
EUR/USD TUESDAY WKLY OPT	86	0	-	94	-8.5%	2,095	0	-
EUR/USD TUESDAY WKLY OPT	30	0	-	2,608	-98.8%	3,042	0	-
EUR/USD TUESDAY WKLY OPT	0	0	-	0	0.0%	128	0	-
EUR/USD WKLY FRIDAY OPTION	0	1,815	-100.0%	0	0.0%	0	26,912	-100.0%

## CME Exchange Volume Report - Monthly

	VOLUME APR 2023	VOLUME APR 2022	% CHG	VOLUME MAR 2023	% CHG	VOLUME Y.T.D 2023	VOLUME Y.T.D 2022	% CHG
<b>FX Options</b>								
EUR/USD WKLY FRIDAY OPTION	17,051	4,830	253.0%	23,423	-27.2%	79,731	70,826	12.6%
EUR/USD WKLY FRIDAY OPTION	7,699	17,186	-55.2%	22,710	-66.1%	86,714	69,859	24.1%
EUR/USD WKLY FRIDAY OPTION	10,145	21,432	-52.7%	112,646	-91.0%	147,789	97,670	51.3%
EUR/USD WKLY FRIDAY OPTION	0	18,300	-100.0%	8,024	-100.0%	8,265	20,596	-59.9%
EUR/USD WKLY WED OPTIONS -	7,211	6,704	7.6%	4,424	63.0%	18,180	28,358	-35.9%
EUR/USD WKLY WED OPTIONS -	5,103	4,158	22.7%	7,339	-30.5%	25,975	21,805	19.1%
EUR/USD WKLY WED OPTIONS -	4,256	4,808	-11.5%	4,608	-7.6%	20,678	22,951	-9.9%
EUR/USD WKLY WED OPTIONS -	5,816	9,198	-36.8%	3,713	56.6%	18,816	27,609	-31.8%
EUR/USD WKLY WED OPTIONS -	0	0	0.0%	6,668	-100.0%	6,668	6,363	4.8%
GBP/USD MONDAY OPTION WEE	346	612	-43.5%	726	-52.3%	3,189	2,506	27.3%
GBP/USD MONDAY OPTION WEE	821	797	3.0%	440	86.6%	4,530	3,535	28.1%
GBP/USD MONDAY OPTION WEE	477	1,056	-54.8%	727	-34.4%	2,022	1,545	30.9%
GBP/USD MONDAY OPTION WEE	604	152	297.4%	226	167.3%	1,262	2,596	-51.4%
GBP/USD MONDAY OPTION WEE	0	0	0.0%	0	0.0%	400	361	10.8%
GBP/USD MONTHLY OPTIONS	49,088	94,620	-48.1%	64,700	-24.1%	243,181	290,751	-16.4%
GBP/USD THURSDAY WKLY OPT	400	0	-	120	233.3%	996	0	-
GBP/USD THURSDAY WKLY OPT	61	0	-	90	-32.2%	512	0	-
GBP/USD THURSDAY WKLY OPT	912	0	-	47	1,840.4%	1,403	0	-
GBP/USD THURSDAY WKLY OPT	116	0	-	30	286.7%	468	0	-
GBP/USD THURSDAY WKLY OPT	0	0	-	61	-100.0%	61	0	-
GBP/USD TUESDAY WKLY OPT	193	0	-	120	60.8%	785	0	-
GBP/USD TUESDAY WKLY OPT	954	0	-	105	808.6%	1,518	0	-
GBP/USD TUESDAY WKLY OPT	2	0	-	44	-95.5%	560	0	-
GBP/USD TUESDAY WKLY OPT	119	0	-	180	-33.9%	827	0	-
GBP/USD TUESDAY WKLY OPT	0	0	-	0	0.0%	225	0	-
GBP/USD WKLY FRIDAY OPTION	0	24	-100.0%	0	0.0%	0	3,422	-100.0%
GBP/USD WKLY FRIDAY OPTION	5,395	2,366	128.0%	2,914	85.1%	15,450	9,639	60.3%
GBP/USD WKLY FRIDAY OPTION	8,804	3,199	175.2%	2,425	263.1%	17,317	16,692	3.7%
GBP/USD WKLY FRIDAY OPTION	1,806	2,723	-33.7%	1,633	10.6%	7,058	14,038	-49.7%
GBP/USD WKLY FRIDAY OPTION	0	3,692	-100.0%	2,287	-100.0%	2,925	5,170	-43.4%
GBP/USD WKLY WED OPTIONS -	1,864	1,760	5.9%	924	101.7%	3,484	6,996	-50.2%
GBP/USD WKLY WED OPTIONS -	323	314	2.9%	568	-43.1%	5,456	2,300	137.2%
GBP/USD WKLY WED OPTIONS -	327	808	-59.5%	2,227	-85.3%	4,106	5,548	-26.0%
GBP/USD WKLY WED OPTIONS -	175	993	-82.4%	1,064	-83.6%	2,068	5,909	-65.0%
GBP/USD WKLY WED OPTIONS -	0	0	0.0%	93	-100.0%	93	330	-71.8%
JPY/USD MONDAY OPTION WEE	334	732	-54.4%	552	-39.5%	3,282	2,016	62.8%
JPY/USD MONDAY OPTION WEE	741	1,095	-32.3%	4,392	-83.1%	8,818	4,230	108.5%
JPY/USD MONDAY OPTION WEE	54	419	-87.1%	1,612	-96.7%	1,733	552	213.9%
JPY/USD MONDAY OPTION WEE	884	1,360	-35.0%	97	811.3%	2,384	3,578	-33.4%
JPY/USD MONDAY OPTION WEE	0	0	0.0%	0	0.0%	1,047	51	1,952.9%
JPY/USD MONTHLY OPTIONS	63,523	218,296	-70.9%	106,240	-40.2%	367,466	616,577	-40.4%
JPY/USD THURSDAY WKLY OPT	3	0	-	53	-94.3%	72	0	-
JPY/USD THURSDAY WKLY OPT	6	0	-	21	-71.4%	68	0	-
JPY/USD THURSDAY WKLY OPT	17	0	-	12	41.7%	136	0	-
JPY/USD THURSDAY WKLY OPT	27	0	-	0	0.0%	27	0	-
JPY/USD THURSDAY WKLY OPT	0	0	-	157	-100.0%	157	0	-
JPY/USD TUESDAY WKLY OPT W	20	0	-	26	-23.1%	49	0	-
JPY/USD TUESDAY WKLY OPT W	19	0	-	516	-96.3%	1,405	0	-
JPY/USD TUESDAY WKLY OPT W	2	0	-	4	-50.0%	77	0	-
JPY/USD TUESDAY WKLY OPT W	103	0	-	10	930.0%	892	0	-
JPY/USD TUESDAY WKLY OPT W	0	0	-	0	0.0%	5	0	-



## CME Exchange Volume Report - Monthly

	VOLUME APR 2023	VOLUME APR 2022	% CHG	VOLUME MAR 2023	% CHG	VOLUME Y.T.D 2023	VOLUME Y.T.D 2022	% CHG
<b>FX Options</b>								
JPY/USD WKLY FRIDAY OPTION	0	159	-100.0%	0	0.0%	0	11,314	-100.0%
JPY/USD WKLY FRIDAY OPTION	4,809	2,490	93.1%	9,539	-49.6%	29,024	35,463	-18.2%
JPY/USD WKLY FRIDAY OPTION	7,179	10,649	-32.6%	8,664	-17.1%	37,233	42,736	-12.9%
JPY/USD WKLY FRIDAY OPTION	9,117	7,481	21.9%	6,289	45.0%	26,734	40,954	-34.7%
JPY/USD WKLY FRIDAY OPTION	0	15,414	-100.0%	4,641	-100.0%	4,643	16,096	-71.2%
JPY/USD WKLY WED OPTIONS -	3,239	4,109	-21.2%	1,951	66.0%	12,031	13,276	-9.4%
JPY/USD WKLY WED OPTIONS -	2,238	2,406	-7.0%	3,449	-35.1%	11,216	11,597	-3.3%
JPY/USD WKLY WED OPTIONS -	2,507	1,696	47.8%	4,534	-44.7%	15,486	8,892	74.2%
JPY/USD WKLY WED OPTIONS -	1,955	3,556	-45.0%	1,975	-1.0%	11,340	10,783	5.2%
JPY/USD WKLY WED OPTIONS -	0	0	0.0%	1,298	-100.0%	1,298	2,857	-54.6%
MXN/USD MONTHLY OPTIONS	344	3,496	-90.2%	411	-16.3%	1,138	6,306	-82.0%
MXN/USD WKLY FRIDAY OPTION	0	17	-100.0%	0	0.0%	0	17	-100.0%
MXN/USD WKLY FRIDAY OPTION	0	0	0.0%	0	0.0%	0	0	0.0%
MXN/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-	0	0	0.0%
NZD/USD MONTHLY OPTIONS	519	421	23.3%	113	359.3%	74,077	481	15,300.6%
NZD/USD WKLY FRIDAY OPTION	1	0	-	0	0.0%	2	0	-
NZD/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-	0	0	0.0%
PY/USD THURSDAY WKLY OPT	0	0	-	25	-100.0%	47	0	-
PY/USD TUESDAY WKLY OPT W	197	0	-	652	-69.8%	855	0	-
RUB/USD MONTHLY OPTIONS	0	0	0.0%	0	-	0	0	0.0%
ZAR/USD MONTHLY OPTIONS	0	0	-	0	0.0%	730	0	-

## CME Exchange Volume Report - Monthly

	VOLUME APR 2023	VOLUME APR 2022	% CHG	VOIUME MAR 2023	% CHG	VOLUME Y.T.D 2023	VOLUME Y.T.D 2022	% CHG
<b>Ag Products Futures</b>								
BLOCK CHEESE	205	195	5.1%	491	-58.2%	1,183	1,713	-30.9%
BUTTER CS	2,768	3,578	-22.6%	3,745	-26.1%	13,439	19,365	-30.6%
CASH-SETTLED CHEESE	12,994	7,597	71.0%	13,802	-5.9%	49,005	40,372	21.4%
CAT ASIA WEATHER	0	0	0.0%	0	-	0	0	0.0%
CATTLE	1,059,419	1,014,173	4.5%	1,660,785	-36.2%	5,186,759	5,087,315	2.0%
CAT WEATHER EUROPEAN	0	0	0.0%	0	-	0	0	0.0%
CDD SEASONAL STRIP	1,250	1,550	-19.4%	2,450	-49.0%	3,700	2,600	42.3%
CDD WEATHER	500	2,750	-81.8%	0	0.0%	500	4,750	-89.5%
CLASS IV MILK	396	1,737	-77.2%	553	-28.4%	2,577	10,496	-75.4%
DRY WHEY	1,540	1,028	49.8%	1,352	13.9%	4,717	4,251	11.0%
FEEDER CATTLE	367,492	282,185	30.2%	439,290	-16.3%	1,390,195	1,092,730	27.2%
GOLDMAN SACHS	1,821	3,369	-45.9%	3,032	-39.9%	9,900	15,436	-35.9%
GSCI EXCESS RETURN FUT	1,646	4,488	-63.3%	76,648	-97.9%	81,267	158,655	-48.8%
HDD EURO SEASONAL STRIP	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%
HDD WEATHER	0	0	0.0%	0	0.0%	2,000	8,000	-75.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0.0%	7,500	3,875	93.5%
HOGS	787,400	735,737	7.0%	1,344,292	-41.4%	4,002,951	3,841,636	4.2%
HOUSING INDEX	11	3	266.7%	18	-38.9%	64	45	42.2%
LUMBER	13,611	7,007	94.2%	13,829	-1.6%	52,348	33,309	57.2%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0.0%	0	0	0.0%
MILK	25,564	27,800	-8.0%	30,507	-16.2%	105,362	126,343	-16.6%
MLK MID OPTIONS	0	0	0.0%	0	0.0%	0	0	0.0%
NFD MILK	3,898	6,235	-37.5%	6,265	-37.8%	22,397	28,532	-21.5%
OTC SP GSCI ER SWAP	17,981	0	-	5,934	203.0%	56,430	0	-
PACIFIC RIM DAT SS WTHR	0	0	0.0%	0	0.0%	0	0	0.0%
PORK CUTOUT	1,811	1,716	5.5%	1,295	39.8%	5,354	10,029	-46.6%
S&P GSCI ENHANCED ER SWAP	0	0	0.0%	0	0.0%	0	0	0.0%
USD CRUDE PALM OIL	28,190	23,240	21.3%	36,050	-21.8%	121,204	91,609	32.3%



## CME Exchange Volume Report - Monthly

	VOLUME APR 2023	VOLUME APR 2022	% CHG	VOLUME MAR 2023	% CHG	VOLUME Y.T.D 2023	VOLUME Y.T.D 2022	% CHG
<b>Ag Products Options</b>								
BLOCK CHEESE	199	253	-21.3%	318	-37.4%	707	863	-18.1%
BUTTER CS	1,989	1,420	40.1%	2,410	-17.5%	7,396	5,955	24.2%
CASH-SETTLED CHEESE	5,444	3,341	62.9%	7,055	-22.8%	22,514	33,908	-33.6%
CATTLE	266,506	255,626	4.3%	365,190	-27.0%	1,069,629	871,336	22.8%
CDD SEASONAL STRIP	19,500	4,250	358.8%	3,000	550.0%	40,500	9,750	315.4%
CDD WEATHER	5,000	0	0.0%	6,000	-16.7%	59,000	0	0.0%
CLASS IV MILK	4,124	5,843	-29.4%	7,246	-43.1%	25,111	26,466	-5.1%
DRY WHEY	10	22	-54.5%	35	-71.4%	73	2,557	-97.1%
FEEDER CATTLE	49,329	40,294	22.4%	84,762	-41.8%	232,122	143,303	62.0%
HDD EURO SEASONAL STRIP	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%
HDD WEATHER	0	0	0.0%	0	0.0%	29,700	4,800	518.8%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0.0%	20,000	1,000	1,900.0%
HOGS	205,019	172,342	19.0%	346,741	-40.9%	1,056,938	963,113	9.7%
LUMBER	127	491	-74.1%	191	-33.5%	881	2,220	-60.3%
LV CATL CSO	0	0	-	0	0.0%	30	0	-
MILK	17,326	20,226	-14.3%	30,468	-43.1%	89,211	78,310	13.9%
MLK MID OPTIONS	1	6	-83.3%	2	-50.0%	12	43	-72.1%
NFD MILK	3,448	4,911	-29.8%	5,070	-32.0%	18,711	20,722	-9.7%
PORK CUTOUT	5	5	0.0%	0	0.0%	7	35	-80.0%

## CME Exchange Volume Report - Monthly

	VOLUME APR 2023	VOLUME APR 2022	% CHG	VOIUME MAR 2023	% CHG	VOLUME Y.T.D 2023	VOLUME Y.T.D 2022	% CHG
<b>TOTAL FUTURES GROUP</b>								
Interest Rate Futures	50,009,937	63,222,070	-20.9%	128,744,429	-61.2%	318,670,796	307,072,271	3.8%
Equity Index Futures	82,022,830	103,609,210	-20.8%	143,939,216	-43.0%	429,959,554	492,044,908	-12.6%
FX Futures	13,829,444	15,177,219	-8.9%	26,724,649	-48.3%	71,317,399	68,636,379	3.9%
Ag Products Futures	2,328,497	2,124,388	9.6%	3,640,338	-36.0%	11,118,852	10,581,061	5.1%
<b>TOTAL FUTURES</b>	<b>148,190,708</b>	<b>184,132,887</b>	<b>-19.5%</b>	<b>303,048,632</b>	<b>-51.1%</b>	<b>831,066,601</b>	<b>878,334,619</b>	<b>-5.4%</b>
<b>TOTAL OPTIONS GROUP</b>								
Equity Index Options	20,458,154	22,191,720	-7.8%	33,801,402	-39.5%	103,534,561	96,563,719	7.2%
Interest Rate Options	29,181,762	17,753,033	64.4%	69,894,010	-58.2%	188,228,748	112,491,215	67.3%
FX Options	567,733	1,039,474	-45.4%	1,150,471	-50.7%	3,187,661	3,643,660	-12.5%
Ag Products Options	578,027	509,030	13.6%	858,488	-32.7%	2,672,542	2,164,381	23.5%
<b>TOTAL OPTIONS</b>	<b>50,785,676</b>	<b>41,493,257</b>	<b>22.4%</b>	<b>105,704,371</b>	<b>-52.0%</b>	<b>297,623,512</b>	<b>214,862,975</b>	<b>38.5%</b>
<b>TOTAL COMBINED</b>								
Interest Rate	79,191,699	80,975,103	-2.2%	198,638,439	-60.1%	506,899,544	419,563,486	20.8%
Equity Index	102,480,984	125,800,930	-18.5%	177,740,618	-42.3%	533,494,115	588,608,627	-9.4%
FX	14,397,177	16,216,693	-11.2%	27,875,120	-48.4%	74,505,060	72,280,039	3.1%
Ag Products	2,906,524	2,633,418	10.4%	4,498,826	-35.4%	13,791,394	12,745,442	8.2%
<b>GRAND TOTAL</b>	<b>198,976,384</b>	<b>225,626,144</b>	<b>-11.8%</b>	<b>408,753,003</b>	<b>-51.3%</b>	<b>1,128,690,113</b>	<b>1,093,197,594</b>	<b>3.2%</b>