

CME Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
Interest Rate Futures												
1-MONTH EURODOLLAR	0	0	0.0%	0	33	-100.0%	0	0	0.0%	6	57	-89.5%
BSBY 3-MONTH FUTURES	0	0	0.0%	4,206	66,049	-93.6%	0	0	0.0%	24,177	362,704	-93.3%
ESTR Basis Spread Futures	0	-	-	102	-	-	0	-	-	4,668	-	-
ESTR Futures	0	-	-	30,893	-	-	0	-	-	133,237	-	-
EURODOLLARS	10,046	542,998	-98.1%	1,314,487	34,013,679	-96.1%	256,740	3,156,001	-91.9%	27,166,162	198,098,017	-86.3%
FTIE	0	0	0.0%	356	60	493.3%	0	0	0.0%	1,103	443	149.0%
SOFR	402,855	23,744	1,596.7%	47,632,804	27,888,536	70.8%	3,625,993	50,700	7,051.9%	281,969,808	101,824,483	176.9%
SONIA	0	0	0.0%	0	12	-100.0%	0	0	0.0%	168	1,046	-83.9%
Interest Rate Options												
EURODOLLARS	182,403	6,675,501	-97.3%	459,480	2,062,114	-77.7%	1,770,390	42,837,882	-95.9%	6,589,097	17,306,275	-61.9%
EURO MIDCURVE	31,150	4,119,939	-99.2%	1,782	1,921,876	-99.9%	396,228	27,722,503	-98.6%	201,525	13,977,557	-98.6%
SOFR	16,724,646	822,626	1,933.1%	6,459,354	94,773	6,715.6%	94,755,473	1,543,466	6,039.1%	37,225,992	230,989	16,015.9%
SOFR MIDCURVE	2,530,250	366,258	590.8%	999,396	65,524	1,425.2%	19,706,905	1,119,541	1,660.3%	7,601,444	272,074	2,693.9%
SOFR MISCURVE	0	-	-	0	-	-	0	-	-	700	-	-
Equity Index Futures												
BITCOIN	0	0	0.0%	169,558	142,178	19.3%	0	0	0.0%	806,557	659,053	22.4%
E-mini FTSE China 50	0	0	0.0%	0	2,286	-100.0%	0	0	0.0%	44	5,670	-99.2%
E-MINI MIDCAP	0	0	0.0%	190,628	275,672	-30.8%	0	0	0.0%	1,108,017	1,402,541	-21.0%
E-MINI NASDAQ 100	0	0	0.0%	11,643,596	12,833,213	-9.3%	0	0	0.0%	54,037,242	58,050,177	-6.9%
E-MINI RUSSELL 1000	0	0	0.0%	964	2,572	-62.5%	0	0	0.0%	7,436	12,959	-42.6%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	766	2,236	-65.7%	0	0	0.0%	6,961	23,536	-70.4%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	2,453	2,947	-16.8%	0	0	0.0%	15,322	29,302	-47.7%
E-MINI RUSSELL 2000	0	0	0.0%	3,121,154	4,093,448	-23.8%	0	0	0.0%	17,597,493	20,313,787	-13.4%
E-MINI S&P500	0	0	0.0%	29,015,168	31,985,854	-9.3%	0	0	0.0%	154,247,169	152,272,869	1.3%
E-MINI S&P500 ESG	0	0	0.0%	13,775	8,328	65.4%	0	0	0.0%	76,664	127,591	-39.9%
ETHER	0	-	-	0	-	-	0	-	-	0	-	-
ETHER FUTURES	0	0	0.0%	105,487	83,556	26.2%	0	0	0.0%	470,167	404,271	16.3%
FT-SE 100	0	0	0.0%	30	0	0.0%	0	0	0.0%	175	892	-80.4%
FTSE Emerging	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%

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Equity Index Futures												
IBOVESPA INDEX	0	0	0.0%	18	152	-88.2%	0	0	0.0%	132	286	-53.8%
MICRO BITCOIN	0	0	0.0%	242,303	301,663	-19.7%	0	0	0.0%	859,120	1,529,151	-43.8%
MICRO E-MINI NASDAQ 100	0	0	0.0%	17,515,475	26,355,938	-33.5%	0	0	0.0%	89,178,143	125,785,378	-29.1%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	1,317,047	2,143,263	-38.5%	0	0	0.0%	6,787,113	13,103,467	-48.2%
MICRO E-MINI S&P500	0	0	0.0%	17,354,035	23,566,020	-26.4%	0	0	0.0%	97,340,793	108,288,349	-10.1%
MICRO ETHER	0	0	0.0%	270,097	393,063	-31.3%	0	0	0.0%	889,638	1,575,884	-43.5%
NASDAQ-100 VOLATILITY	0	0	0.0%	10	1,999	-99.5%	0	0	0.0%	3,202	14,145	-77.4%
NASDAQ BIOTECH SECTOR	0	0	0.0%	236	165	43.0%	0	0	0.0%	745	578	28.9%
Nearby BTIC+	0	0	0.0%	0	1,600	-100.0%	0	0	0.0%	0	2,350	-100.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	63,354	93,197	-32.0%	0	0	0.0%	373,080	518,742	-28.1%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	390,842	605,313	-35.4%	0	0	0.0%	2,185,242	3,416,975	-36.0%
PHLX SEMICONDUCTOR SECT	0	-	-	584	-	-	0	-	-	1,291	-	-
S&P 500	0	0	0.0%	1,114	201	454.2%	0	0	0.0%	12,415	410	2,928.0%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	28,819	20,463	40.8%	0	0	0.0%	117,327	118,908	-1.3%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	10,813	501	2,058.3%	0	0	0.0%	42,695	927	4,505.7%
S&P BIOTECHNOLOGY SECTO	0	-	-	1,128	-	-	0	-	-	2,938	-	-
S&P COMMUNICATION SERVIC	0	0	0.0%	2,268	2,463	-7.9%	0	0	0.0%	11,878	12,114	-1.9%
S&P CONSUMER DISCRETION	0	0	0.0%	3,089	4,734	-34.7%	0	0	0.0%	19,729	30,427	-35.2%
S&P CONSUMER STAPLES SE	0	0	0.0%	10,140	11,117	-8.8%	0	0	0.0%	59,300	55,248	7.3%
S&P ENERGY SECTOR	0	0	0.0%	14,768	22,987	-35.8%	0	0	0.0%	100,446	164,600	-39.0%
S&P FINANCIAL SECTOR	0	0	0.0%	11,533	13,622	-15.3%	0	0	0.0%	77,639	95,299	-18.5%
S&P HEALTH CARE SECTOR	0	0	0.0%	6,850	11,638	-41.1%	0	0	0.0%	49,539	72,014	-31.2%
S&P INDUSTRIAL SECTOR	0	0	0.0%	6,255	8,168	-23.4%	0	0	0.0%	40,718	52,465	-22.4%
S&P MATERIALS SECTOR	0	0	0.0%	3,113	4,190	-25.7%	0	0	0.0%	31,993	27,912	14.6%
S&P OIL & GAS EXPLORATION	0	-	-	133	-	-	0	-	-	938	-	-
S&P REAL ESTATE SECTOR	0	0	0.0%	1,809	1,564	15.7%	0	0	0.0%	20,371	15,556	31.0%
S&P REGIONAL BANKS SECTO	0	-	-	1,293	-	-	0	-	-	3,592	-	-
S&P RETAIL SECTOR	0	-	-	86	-	-	0	-	-	1,411	-	-
S&P TECHNOLOGY SECTOR	0	0	0.0%	4,916	10,429	-52.9%	0	0	0.0%	46,381	81,983	-43.4%
S&P UTILITIES SECTOR	0	0	0.0%	8,651	12,194	-29.1%	0	0	0.0%	67,063	68,116	-1.5%
S&P VALUE INDEX FUTURES	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
TOPIX (USD)	0	-	-	0	-	-	0	-	-	139	-	-
TOPIX (YEN)	0	0	0.0%	74	2,756	-97.3%	0	0	0.0%	983	15,168	-93.5%
WATER INDEX FUTURES	0	0	0.0%	14	89	-84.3%	0	0	0.0%	84	480	-82.5%

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Equity Index Options												
BITCOIN OPTIONS	0	0	0.0%	1,868	898	108.0%	0	0	0.0%	11,055	4,044	173.4%
E-MINI NASDAQ 100	0	0	0.0%	901,925	944,959	-4.6%	0	0	0.0%	4,189,313	3,404,253	23.1%
E-MINI RUSSELL 2000	0	0	0.0%	167,901	142,127	18.1%	0	0	0.0%	546,265	642,931	-15.0%
E-MINI S&P500	0	0	0.0%	18,042,265	19,333,007	-6.7%	0	0	0.0%	91,630,598	85,400,419	7.3%
EOM S&P 500	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
ETHER OPTIONS	0	-	-	805	-	-	0	-	-	2,656	-	-
EVENT CONTRACT S&P 500	0	-	-	12,763	-	-	0	-	-	14,502	-	-
MICRO BITCOIN	0	0	0.0%	11,078	3,576	209.8%	0	0	0.0%	30,530	3,673	731.2%
MICRO E-MINI NASDAQ 100	0	0	0.0%	41,434	56,790	-27.0%	0	0	0.0%	212,123	267,219	-20.6%
Micro E-mini S&P 500	0	0	0.0%	172,052	165,994	3.6%	0	0	0.0%	1,022,991	1,022,396	0.1%
MICRO ETHER	0	0	0.0%	8,782	2,570	241.7%	0	0	0.0%	39,372	2,670	1,374.6%
S&P 500	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
FX Futures												
AD/CD CROSS RATES	0	0	0.0%	2	18	-88.9%	0	0	0.0%	153	136	12.5%
AD/JY CROSS RATES	0	0	0.0%	1,297	6,354	-79.6%	0	0	0.0%	6,798	23,015	-70.5%
AD/NE CROSS RATES	0	0	0.0%	2,352	2,758	-14.7%	0	0	0.0%	9,687	6,830	41.8%
AUSTRALIAN DOLLAR	0	0	0.0%	1,401,214	1,703,463	-17.7%	0	0	0.0%	7,592,923	7,614,371	-0.3%
BP/JY CROSS RATES	0	0	0.0%	1,104	3,578	-69.1%	0	0	0.0%	11,090	14,086	-21.3%
BP/SF CROSS RATES	0	0	0.0%	2,097	1,766	18.7%	0	0	0.0%	10,839	8,625	25.7%
BRAZIL REAL	0	0	0.0%	208,926	279,548	-25.3%	0	0	0.0%	1,039,336	1,159,596	-10.4%
BRITISH POUND	0	0	0.0%	1,618,082	1,964,282	-17.6%	0	0	0.0%	8,179,400	8,837,275	-7.4%
CANADIAN DOLLAR	0	0	0.0%	1,347,497	1,457,861	-7.6%	0	0	0.0%	6,848,675	6,605,931	3.7%
CD/JY CROSS RATES	0	0	0.0%	0	2	-100.0%	0	0	0.0%	6	245	-97.6%
CHILEAN PESO	0	0	0.0%	0	0	0.0%	0	0	0.0%	3	23	-87.0%
CHINESE RENMINBI (CNH)	0	0	0.0%	11,119	31,385	-64.6%	0	0	0.0%	98,724	89,414	10.4%
CZECK KORUNA (EC)	0	0	0.0%	0	2	-100.0%	0	0	0.0%	4	13	-69.2%
CZECK KORUNA (US)	0	0	0.0%	3	1	200.0%	0	0	0.0%	14	11	27.3%
EC/AD CROSS RATES	0	0	0.0%	2,559	3,353	-23.7%	0	0	0.0%	17,372	20,220	-14.1%
EC/CD CROSS RATES	0	0	0.0%	3,588	5,133	-30.1%	0	0	0.0%	23,007	31,181	-26.2%
EC/NOK CROSS RATES	0	0	0.0%	384	1,058	-63.7%	0	0	0.0%	4,505	4,571	-1.4%
EC/SEK CROSS RATES	0	0	0.0%	453	779	-41.8%	0	0	0.0%	10,190	8,148	25.1%

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FX Futures												
EFX/BP CROSS RATES	0	0	0.0%	27,236	55,552	-51.0%	0	0	0.0%	209,913	366,383	-42.7%
EFX/JY CROSS RATES	0	0	0.0%	23,783	31,099	-23.5%	0	0	0.0%	165,083	247,108	-33.2%
EFX/SF CROSS RATES	0	0	0.0%	8,739	20,739	-57.9%	0	0	0.0%	81,116	162,402	-50.1%
E-MICRO USD/CAD	0	0	0.0%	106	111	-4.5%	0	0	0.0%	700	1,290	-45.7%
E-MICRO USD/CHF	0	0	0.0%	430	24	1,691.7%	0	0	0.0%	935	264	254.2%
E-MICRO USD/JPY	0	0	0.0%	4,815	14,206	-66.1%	0	0	0.0%	8,739	26,331	-66.8%
E-MINI EURO FX	0	0	0.0%	103,483	101,541	1.9%	0	0	0.0%	562,019	518,987	8.3%
E-MINI JAPANESE YEN	0	0	0.0%	7,232	11,266	-35.8%	0	0	0.0%	44,122	31,599	39.6%
EURO FX	0	0	0.0%	3,385,742	3,565,524	-5.0%	0	0	0.0%	18,415,137	17,671,971	4.2%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	1	-100.0%	0	0	0.0%	13	1	1,200.0%
HUNGARIAN FORINT (US)	0	0	0.0%	23	2	1,050.0%	0	0	0.0%	69	29	137.9%
INDIAN RUPEE	0	0	0.0%	19,592	22,258	-12.0%	0	0	0.0%	126,039	79,768	58.0%
JAPANESE YEN	0	0	0.0%	2,793,324	2,851,796	-2.1%	0	0	0.0%	12,989,293	10,478,256	24.0%
KOREAN WON	0	0	0.0%	199	285	-30.2%	0	0	0.0%	825	1,746	-52.7%
MEXICAN PESO	0	0	0.0%	903,607	812,434	11.2%	0	0	0.0%	5,051,296	3,997,047	26.4%
MICRO AUD/USD	0	0	0.0%	238,337	259,561	-8.2%	0	0	0.0%	1,145,761	1,042,965	9.9%
MICRO CAD/USD	0	0	0.0%	39,550	47,269	-16.3%	0	0	0.0%	240,519	212,370	13.3%
MICRO CHF/USD	0	0	0.0%	9,905	10,437	-5.1%	0	0	0.0%	60,392	43,174	39.9%
MICRO EUR/USD	0	0	0.0%	540,156	664,143	-18.7%	0	0	0.0%	2,749,615	2,751,023	-0.1%
MICRO GBP/USD	0	0	0.0%	53,844	75,259	-28.5%	0	0	0.0%	284,145	324,304	-12.4%
MICRO INR/USD	0	0	0.0%	430	744	-42.2%	0	0	0.0%	2,322	3,318	-30.0%
MICRO JPY/USD	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	101,719	-100.0%
MICRO USD/CNH	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	2	-100.0%
NEW ZEALND DOLLAR	0	0	0.0%	533,400	519,176	2.7%	0	0	0.0%	2,410,568	2,229,431	8.1%
NKR/USD CROSS RATE	0	0	0.0%	2,158	2,257	-4.4%	0	0	0.0%	11,738	13,013	-9.8%
POLISH ZLOTY (EC)	0	0	0.0%	3	66	-95.5%	0	0	0.0%	57	608	-90.6%
POLISH ZLOTY (US)	0	0	0.0%	1,046	608	72.0%	0	0	0.0%	3,123	5,754	-45.7%
RMB USD	0	0	0.0%	0	1	-100.0%	0	0	0.0%	5	5	0.0%
RUSSIAN RUBLE	0	0	0.0%	0	1,023	-100.0%	0	0	0.0%	0	574,649	-100.0%
S.AFRICAN RAND	0	0	0.0%	35,950	72,531	-50.4%	0	0	0.0%	242,443	335,842	-27.8%
SF/JY CROSS RATES	0	0	0.0%	544	829	-34.4%	0	0	0.0%	2,301	1,489	54.5%
SHEKEL	0	0	0.0%	51	5	920.0%	0	0	0.0%	305	44	593.2%
SKR/USD CROSS RATES	0	0	0.0%	2,977	4,055	-26.6%	0	0	0.0%	17,772	23,715	-25.1%
SWISS FRANC	0	0	0.0%	393,709	381,453	3.2%	0	0	0.0%	1,734,859	1,862,739	-6.9%
TURKISH LIRA	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%

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FX Futures												
USDZAR	0	0	0.0%	0	0	0.0%	0	0	0.0%	97	27	259.3%
FX Options												
AUD/USD MONDAY OPTION W	0	0	0.0%	54	85	-36.5%	0	0	0.0%	445	1,449	-69.3%
AUD/USD MONDAY OPTION W	0	0	0.0%	132	83	59.0%	0	0	0.0%	2,054	2,329	-11.8%
AUD/USD MONDAY OPTION W	0	0	0.0%	137	607	-77.4%	0	0	0.0%	1,007	1,497	-32.7%
AUD/USD MONDAY OPTION W	0	0	0.0%	140	820	-82.9%	0	0	0.0%	1,082	1,613	-32.9%
AUD/USD MONDAY OPTION W	0	0	0.0%	0	0	0.0%	0	0	0.0%	315	779	-59.6%
AUD/USD MONTHLY OPTIONS	0	0	0.0%	49,607	94,994	-47.8%	0	0	0.0%	203,849	265,848	-23.3%
AUD/USD THURSDAY WKLY O	0	-	-	12	-	-	0	-	-	72	-	-
AUD/USD THURSDAY WKLY O	0	-	-	7	-	-	0	-	-	52	-	-
AUD/USD THURSDAY WKLY O	0	-	-	50	-	-	0	-	-	1,104	-	-
AUD/USD THURSDAY WKLY O	0	-	-	71	-	-	0	-	-	380	-	-
AUD/USD THURSDAY WKLY O	0	-	-	0	-	-	0	-	-	11	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	50	-	-	0	-	-	182	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	76	-	-	0	-	-	1,071	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	71	-	-	0	-	-	338	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	132	-	-	0	-	-	290	-	-
AUD/USD TUESDAY WKLY OPT	0	-	-	0	-	-	0	-	-	105	-	-
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	20	-100.0%	0	0	0.0%	0	1,420	-100.0%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	845	782	8.1%	0	0	0.0%	7,003	7,828	-10.5%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,077	1,311	-17.8%	0	0	0.0%	5,882	9,714	-39.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,844	961	195.9%	0	0	0.0%	7,314	6,236	17.3%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	1,463	-100.0%	0	0	0.0%	949	1,720	-44.8%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	298	268	11.2%	0	0	0.0%	797	3,108	-74.4%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	452	571	-20.8%	0	0	0.0%	997	2,657	-62.5%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	252	149	69.1%	0	0	0.0%	1,105	2,948	-62.5%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	399	615	-35.1%	0	0	0.0%	1,220	1,876	-35.0%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	310	211	46.9%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	200	184	8.7%	0	0	0.0%	205	1,781	-88.5%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,073	261	311.1%	0	0	0.0%	3,627	861	321.3%
CAD/USD MONDAY OPTIONS	0	0	0.0%	783	1,339	-41.5%	0	0	0.0%	6,056	5,844	3.6%
CAD/USD MONDAY OPTIONS	0	0	0.0%	109	2,885	-96.2%	0	0	0.0%	3,610	3,460	4.3%

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	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
FX Options												
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,105	1,477	-25.2%	0	0	0.0%	3,846	4,446	-13.5%
CAD/USD MONDAY OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	247	1,256	-80.3%
CAD/USD MONTHLY OPTIONS	0	0	0.0%	27,057	57,831	-53.2%	0	0	0.0%	256,197	242,216	5.8%
CAD/USD THURSDAY WKLY O	0	-	-	0	-	-	0	-	-	595	-	-
CAD/USD THURSDAY WKLY O	0	-	-	4	-	-	0	-	-	623	-	-
CAD/USD THURSDAY WKLY O	0	-	-	935	-	-	0	-	-	1,364	-	-
CAD/USD THURSDAY WKLY O	0	-	-	21	-	-	0	-	-	1,365	-	-
CAD/USD THURSDAY WKLY O	0	-	-	0	-	-	0	-	-	1,586	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	624	-	-	0	-	-	1,202	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	110	-	-	0	-	-	3,070	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	456	-	-	0	-	-	1,415	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	18	-	-	0	-	-	224	-	-
CAD/USD TUESDAY WKLY OPT	0	-	-	0	-	-	0	-	-	76	-	-
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	165	-100.0%	0	0	0.0%	0	5,805	-100.0%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,350	431	213.2%	0	0	0.0%	11,011	15,166	-27.4%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,945	5,753	-66.2%	0	0	0.0%	9,382	22,220	-57.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,301	6,989	-52.8%	0	0	0.0%	13,495	21,961	-38.6%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	3,629	-100.0%	0	0	0.0%	5,073	4,281	18.5%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,372	1,448	-5.2%	0	0	0.0%	3,956	4,638	-14.7%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	853	1,258	-32.2%	0	0	0.0%	3,028	5,286	-42.7%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	237	2,887	-91.8%	0	0	0.0%	4,552	6,819	-33.2%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	991	1,045	-5.2%	0	0	0.0%	6,339	7,587	-16.4%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	889	2,938	-69.7%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	5,168	5,068	2.0%	0	0	0.0%	14,105	24,193	-41.7%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	520	-100.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	720	89	709.0%	0	0	0.0%	1,534	720	113.1%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	614	35	1,654.3%	0	0	0.0%	1,079	398	171.1%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	509	29	1,655.2%	0	0	0.0%	4,804	742	547.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	14	-100.0%	0	0	0.0%	342	14	2,342.9%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	204	-100.0%
EUR/GBP WKLY FRIDAY OPTIC	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
EURODOLLARS	0	-	-	5,728	-	-	0	-	-	16,517	-	-
EURO FX	0	-	-	34	-	-	0	-	-	34	-	-
EUR/USD MONDAY OPTION W	0	0	0.0%	1,722	2,155	-20.1%	0	0	0.0%	8,666	9,118	-5.0%
EUR/USD MONDAY OPTION W	0	0	0.0%	866	970	-10.7%	0	0	0.0%	6,973	13,408	-48.0%

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FX Options												
EUR/USD MONDAY OPTION W	0	0	0.0%	730	1,628	-55.2%	0	0	0.0%	5,480	4,306	27.3%
EUR/USD MONDAY OPTION W	0	0	0.0%	706	9,666	-92.7%	0	0	0.0%	7,325	15,917	-54.0%
EUR/USD MONDAY OPTION W	0	0	0.0%	0	0	0.0%	0	0	0.0%	955	2,856	-66.6%
EUR/USD MONTHLY OPTIONS	0	0	0.0%	174,854	241,842	-27.7%	0	0	0.0%	918,208	944,182	-2.8%
EUR/USD THURSDAY WKLY O	0	-	-	661	-	-	0	-	-	1,031	-	-
EUR/USD THURSDAY WKLY O	0	-	-	1,806	-	-	0	-	-	3,749	-	-
EUR/USD THURSDAY WKLY O	0	-	-	95	-	-	0	-	-	390	-	-
EUR/USD THURSDAY WKLY O	0	-	-	683	-	-	0	-	-	5,318	-	-
EUR/USD THURSDAY WKLY O	0	-	-	0	-	-	0	-	-	12	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	29	-	-	0	-	-	611	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	16	-	-	0	-	-	541	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	86	-	-	0	-	-	2,095	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	30	-	-	0	-	-	3,042	-	-
EUR/USD TUESDAY WKLY OPT	0	-	-	0	-	-	0	-	-	128	-	-
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	1,815	-100.0%	0	0	0.0%	0	24,510	-100.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	17,051	4,440	284.0%	0	0	0.0%	79,131	66,400	19.2%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	7,699	16,796	-54.2%	0	0	0.0%	86,714	67,245	29.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	10,145	21,050	-51.8%	0	0	0.0%	147,789	89,868	64.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	18,300	-100.0%	0	0	0.0%	8,265	20,204	-59.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	7,211	5,904	22.1%	0	0	0.0%	18,180	26,808	-32.2%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,103	4,158	22.7%	0	0	0.0%	25,975	21,805	19.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	4,256	4,808	-11.5%	0	0	0.0%	20,678	22,551	-8.3%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,816	9,198	-36.8%	0	0	0.0%	18,816	24,509	-23.2%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	6,668	6,113	9.1%
GBP/USD MONDAY OPTION W	0	0	0.0%	346	612	-43.5%	0	0	0.0%	3,189	2,506	27.3%
GBP/USD MONDAY OPTION W	0	0	0.0%	821	797	3.0%	0	0	0.0%	4,530	3,535	28.1%
GBP/USD MONDAY OPTION W	0	0	0.0%	477	1,056	-54.8%	0	0	0.0%	2,022	1,545	30.9%
GBP/USD MONDAY OPTION W	0	0	0.0%	604	152	297.4%	0	0	0.0%	1,262	2,596	-51.4%
GBP/USD MONDAY OPTION W	0	0	0.0%	0	0	0.0%	0	0	0.0%	400	361	10.8%
GBP/USD MONTHLY OPTIONS	0	0	0.0%	45,880	85,498	-46.3%	0	0	0.0%	225,257	267,841	-15.9%
GBP/USD THURSDAY WKLY O	0	-	-	400	-	-	0	-	-	996	-	-
GBP/USD THURSDAY WKLY O	0	-	-	61	-	-	0	-	-	512	-	-
GBP/USD THURSDAY WKLY O	0	-	-	912	-	-	0	-	-	1,403	-	-
GBP/USD THURSDAY WKLY O	0	-	-	116	-	-	0	-	-	468	-	-
GBP/USD THURSDAY WKLY O	0	-	-	0	-	-	0	-	-	61	-	-

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FX Options												
GBP/USD TUESDAY WKLY OPT	0	-	-	193	-	-	0	-	-	785	-	-
GBP/USD TUESDAY WKLY OPT	0	-	-	954	-	-	0	-	-	1,518	-	-
GBP/USD TUESDAY WKLY OPT	0	-	-	2	-	-	0	-	-	560	-	-
GBP/USD TUESDAY WKLY OPT	0	-	-	119	-	-	0	-	-	827	-	-
GBP/USD TUESDAY WKLY OPT	0	-	-	0	-	-	0	-	-	225	-	-
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	24	-100.0%	0	0	0.0%	0	2,814	-100.0%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	5,395	1,784	202.4%	0	0	0.0%	14,520	8,261	75.8%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,804	2,621	235.9%	0	0	0.0%	16,401	12,456	31.7%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,806	2,147	-15.9%	0	0	0.0%	6,162	11,838	-47.9%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	2,892	-100.0%	0	0	0.0%	2,641	3,774	-30.0%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,864	1,760	5.9%	0	0	0.0%	3,484	6,996	-50.2%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	323	314	2.9%	0	0	0.0%	5,456	2,300	137.2%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	327	808	-59.5%	0	0	0.0%	4,106	5,068	-19.0%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	175	993	-82.4%	0	0	0.0%	2,068	3,589	-42.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	93	330	-71.8%
JPY/USD MONDAY OPTION WE	0	0	0.0%	184	732	-74.9%	0	0	0.0%	2,332	2,016	15.7%
JPY/USD MONDAY OPTION WE	0	0	0.0%	741	1,095	-32.3%	0	0	0.0%	8,303	4,230	96.3%
JPY/USD MONDAY OPTION WE	0	0	0.0%	54	419	-87.1%	0	0	0.0%	1,733	552	213.9%
JPY/USD MONDAY OPTION WE	0	0	0.0%	884	1,360	-35.0%	0	0	0.0%	2,384	3,578	-33.4%
JPY/USD MONDAY OPTION WE	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,047	51	1,952.9%
JPY/USD MONTHLY OPTIONS	0	0	0.0%	58,419	201,937	-71.1%	0	0	0.0%	331,996	562,414	-41.0%
JPY/USD THURSDAY WKLY OP	0	-	-	3	-	-	0	-	-	72	-	-
JPY/USD THURSDAY WKLY OP	0	-	-	6	-	-	0	-	-	68	-	-
JPY/USD THURSDAY WKLY OP	0	-	-	17	-	-	0	-	-	136	-	-
JPY/USD THURSDAY WKLY OP	0	-	-	27	-	-	0	-	-	27	-	-
JPY/USD THURSDAY WKLY OP	0	-	-	0	-	-	0	-	-	157	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	20	-	-	0	-	-	49	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	19	-	-	0	-	-	1,405	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	2	-	-	0	-	-	77	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	103	-	-	0	-	-	892	-	-
JPY/USD TUESDAY WKLY OPT	0	-	-	0	-	-	0	-	-	5	-	-
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	159	-100.0%	0	0	0.0%	0	10,796	-100.0%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	4,809	1,958	145.6%	0	0	0.0%	27,336	34,511	-20.8%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	7,179	10,103	-28.9%	0	0	0.0%	31,997	41,132	-22.2%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	8,042	7,481	7.5%	0	0	0.0%	23,253	39,888	-41.7%

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FX Options												
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	15,414	-100.0%	0	0	0.0%	4,385	15,568	-71.8%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,239	4,109	-21.2%	0	0	0.0%	10,158	13,276	-23.5%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,238	2,406	-7.0%	0	0	0.0%	10,406	11,597	-10.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,507	1,696	47.8%	0	0	0.0%	14,946	8,892	68.1%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	1,955	3,556	-45.0%	0	0	0.0%	9,985	10,783	-7.4%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,298	2,857	-54.6%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	344	496	-30.6%	0	0	0.0%	1,138	3,306	-65.6%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	17	-100.0%	0	0	0.0%	0	17	-100.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	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%
NZD/USD MONTHLY OPTIONS	0	0	0.0%	3	421	-99.3%	0	0	0.0%	65	481	-86.5%
NZD/USD WKLY FRIDAY OPTIO	0	-	-	1	-	-	0	-	-	2	-	-
NZD/USD WKLY FRIDAY OPTIO	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
PY/USD THURSDAY WKLY OPT	0	-	-	0	-	-	0	-	-	47	-	-
PY/USD TUESDAY WKLY OPT	0	-	-	197	-	-	0	-	-	855	-	-
RUB/USD MONTHLY OPTIONS	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
ZAR/USD MONTHLY OPTIONS	0	-	-	0	-	-	0	-	-	0	-	-

CME Exchange Volume Comparison Report - Monthly

	Open Outcry APR 2023	Open Outcry APR 2022	% CHG	ELEC APR 2023	ELEC APR 2022	% CHG	Open Outcry Y.T.D 2023	Open Outcry Y.T.D 2022	% CHG	ELEC Y.T.D 2023	ELEC Y.T.D 2022	% CHG
Ag Products Futures												
BLOCK CHEESE	0	0	0.0%	205	195	5.1%	0	0	0.0%	1,183	1,042	13.5%
BUTTER CS	0	0	0.0%	2,753	3,543	-22.3%	0	0	0.0%	12,768	18,534	-31.1%
CASH-SETTLED CHEESE	0	0	0.0%	12,708	7,523	68.9%	0	0	0.0%	47,797	35,969	32.9%
CAT ASIA WEATHER	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
CATTLE	0	0	0.0%	1,043,966	1,013,251	3.0%	0	0	0.0%	5,139,293	5,078,463	1.2%
CAT WEATHER EUROPEAN	-	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%	356	1,464	-75.7%	0	0	0.0%	1,909	9,429	-79.8%
DRY WHEY	0	0	0.0%	1,540	1,028	49.8%	0	0	0.0%	4,717	3,934	19.9%
FEEDER CATTLE	0	0	0.0%	366,612	282,185	29.9%	0	0	0.0%	1,380,557	1,091,656	26.5%
GOLDMAN SACHS	0	0	0.0%	1,821	2,501	-27.2%	0	0	0.0%	7,253	12,903	-43.8%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.0%	0	0	0.0%	23	0	0.0%
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%	779,277	733,783	6.2%	0	0	0.0%	3,978,515	3,827,747	3.9%
HOUSING INDEX	0	0	0.0%	11	3	266.7%	0	0	0.0%	64	45	42.2%
LUMBER	0	0	0.0%	13,607	6,825	99.4%	0	0	0.0%	51,889	32,816	58.1%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
MILK	0	0	0.0%	25,393	27,453	-7.5%	0	0	0.0%	104,351	121,472	-14.1%
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%	3,813	6,177	-38.3%	0	0	0.0%	21,404	28,126	-23.9%
OTC SP GSCI ER SWAP	0	-	-	0	-	-	0	-	-	0	-	-
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%	1,811	1,716	5.5%	0	0	0.0%	5,354	10,029	-46.6%
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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Ag Products Options												
BLOCK CHEESE	0	0	0.0%	199	253	-21.3%	0	0	0.0%	707	863	-18.1%
BUTTER CS	0	0	0.0%	1,959	780	151.2%	0	0	0.0%	7,246	4,706	54.0%
CASH-SETTLED CHEESE	0	0	0.0%	5,230	2,621	99.5%	0	0	0.0%	19,810	28,078	-29.4%
CATTLE	0	0	0.0%	263,854	255,626	3.2%	0	0	0.0%	1,062,327	866,136	22.7%
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%	3,124	5,843	-46.5%	0	0	0.0%	23,034	26,352	-12.6%
DRY WHEY	0	0	0.0%	10	22	-54.5%	0	0	0.0%	73	2,089	-96.5%
FEEDER CATTLE	0	0	0.0%	49,329	40,294	22.4%	0	0	0.0%	230,050	142,680	61.2%
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%	202,067	171,292	18.0%	0	0	0.0%	1,050,361	948,413	10.7%
LUMBER	0	0	0.0%	127	491	-74.1%	0	0	0.0%	881	2,220	-60.3%
LV CATL CSO	0	-	-	0	-	-	0	-	-	30	-	-
MILK	0	0	0.0%	17,116	18,269	-6.3%	0	0	0.0%	85,935	75,866	13.3%
MLK MID OPTIONS	0	0	0.0%	1	6	-83.3%	0	0	0.0%	12	43	-72.1%
NFD MILK	0	0	0.0%	3,108	3,881	-19.9%	0	0	0.0%	14,952	16,532	-9.6%
PORK CUTOUT	0	0	0.0%	5	5	0.0%	0	0	0.0%	7	35	-80.0%
TOTAL FUTURES GROUP												
Interest Rate Futures	412,901	566,742	-27.1%	48,982,848	61,968,369	-21.0%	3,882,733	3,206,701	21.1%	309,299,329	300,286,750	3.0%
Equity Index Futures	0	0	0.0%	81,534,446	103,021,779	-20.9%	0	0	0.0%	426,699,325	488,349,580	-12.6%
FX Futures	0	0	0.0%	13,731,048	14,987,596	-8.4%	0	0	0.0%	70,414,047	67,533,064	4.3%
Ag Products Futures	0	0	0.0%	2,253,873	2,087,647	8.0%	0	0	0.0%	10,757,077	10,272,165	4.7%
TOTAL FUTURES	412,901	566,742	-27.1%	146,502,215	182,065,391	-19.5%	3,882,733	3,206,701	21.1%	817,169,778	866,441,559	-5.7%

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TOTAL OPTIONS GROUP												
Equity Index Options	0	0	0.0%	19,360,873	20,649,921	-6.2%	0	0	0.0%	97,699,405	90,747,605	7.7%
Interest Rate Options	19,468,449	11,984,324	62.4%	7,920,012	4,144,287	91.1%	116,628,996	73,223,392	59.3%	51,618,758	31,786,895	62.4%
FX Options	0	0	0.0%	512,160	893,093	-42.7%	0	0	0.0%	2,781,622	3,156,144	-11.9%
Ag Products Options	0	0	0.0%	546,129	499,383	9.4%	0	0	0.0%	2,495,425	2,114,013	18.0%
TOTAL OPTIONS	19,468,449	11,984,324	62.4%	28,339,174	26,186,684	8.2%	116,628,996	73,223,392	59.3%	154,595,210	127,804,657	21.0%
TOTAL COMBINED												
Interest Rate	19,881,350	12,551,066	58.4%	56,902,860	66,112,656	-13.9%	120,511,729	76,430,093	57.7%	360,918,087	332,073,645	8.7%
Equity Index	0	0	0.0%	100,895,319	123,671,700	-18.4%	0	0	0.0%	524,398,730	579,097,185	-9.4%
FX	0	0	0.0%	14,243,208	15,880,689	-10.3%	0	0	0.0%	73,195,669	70,689,208	3.5%
Ag Products	0	0	0.0%	2,800,002	2,587,030	8.2%	0	0	0.0%	13,252,502	12,386,178	7.0%
GRAND TOTAL	19,881,350	12,551,066	58.4%	174,841,389	208,252,075	-16.0%	120,511,729	76,430,093	57.7%	971,764,988	994,246,216	-2.3%