

## CME Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2021	Open Outcry OCT 2020	% CHG	ELEC OCT 2021	ELEC OCT 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>Interest Rate Futures</b>												
1-MONTH EURODOLLAR	0	0	0.0%	2	0	0.0%	0	0	0.0%	2	826	-99.8%
EURODOLLARS	741,053	115,114	543.8%	65,621,588	26,285,260	149.7%	4,550,444	2,945,882	54.5%	494,051,161	429,575,295	15.0%
SOFR	0	0	0.0%	4,944,746	1,197,844	312.8%	0	0	0.0%	26,649,399	9,216,145	189.2%
SONIA	0	0	0.0%	19,085	197,486	-90.3%	0	0	0.0%	798,109	1,673,444	-52.3%
TIIE	0	-	-	40	-	-	0	-	-	779	-	-
<b>Interest Rate Options</b>												
EURODOLLARS	5,175,362	1,469,240	252.2%	2,707,118	1,785,074	51.7%	27,697,588	52,761,627	-47.5%	14,579,229	102,713,415	-85.8%
EURO MIDCURVE	12,286,672	3,935,859	212.2%	9,362,421	2,435,631	284.4%	106,317,330	20,289,433	424.0%	55,653,021	46,306,613	20.2%
SOFR	0	0	0.0%	25	100	-75.0%	7,310	10	73,000.0%	1,427	1,112	28.3%
<b>Equity Index Futures</b>												
BITCOIN FUTURES	0	0	0.0%	826,325	161,389	412.0%	0	0	0.0%	4,864,143	1,741,794	179.3%
E-MINI COM SERVICES SELEC	0	0	0.0%	1,272	1,280	-0.6%	0	0	0.0%	27,650	23,783	16.3%
E-mini FTSE 100 (USD)	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
E-mini FTSE China 50	0	0	0.0%	144	0	0.0%	0	0	0.0%	665	2	33,150.0%
E-MINI MIDCAP	0	0	0.0%	248,318	281,358	-11.7%	0	0	0.0%	2,564,556	3,678,150	-30.3%
E-MINI NASDAQ 100	0	0	0.0%	11,154,495	13,129,062	-15.0%	0	0	0.0%	113,640,738	125,673,899	-9.6%
E-MINI RUSSELL 1000	0	0	0.0%	4,014	725	453.7%	0	0	0.0%	44,644	34,851	28.1%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	2,202	911	141.7%	0	0	0.0%	31,389	29,176	7.6%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	2,851	3,870	-26.3%	0	0	0.0%	77,847	59,197	31.5%
E-MINI RUSSELL 2000	0	0	0.0%	3,522,740	3,765,221	-6.4%	0	0	0.0%	40,670,665	42,997,863	-5.4%
E-MINI S&P500	0	0	0.0%	28,690,411	35,894,597	-20.1%	0	0	0.0%	327,483,150	434,535,082	-24.6%
E-MINI S&P500 ESG	0	0	0.0%	12,307	4,764	158.3%	0	0	0.0%	132,649	58,808	125.6%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	2,823	1,114	153.4%	0	0	0.0%	43,325	49,844	-13.1%
ETHER FUTURES	0	-	-	114,603	-	-	0	-	-	674,938	-	-
FT-SE 100	0	0	0.0%	57	0	0.0%	0	0	0.0%	258	0	0.0%
FTSE Emerging	0	0	0.0%	0	198	-100.0%	0	0	0.0%	5	4,743	-99.9%
IBOVESPA INDEX	0	0	0.0%	379	244	55.3%	0	0	0.0%	2,233	4,338	-48.5%
MICRO E-MINI NASDAQ 100	0	0	0.0%	19,586,443	19,375,555	1.1%	0	0	0.0%	193,176,393	142,157,515	35.9%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	2,939,925	1,707,159	72.2%	0	0	0.0%	31,337,891	19,970,622	56.9%

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<b>Equity Index Futures</b>												
MICRO E-MINI S&P500	0	0	0.0%	17,825,532	21,853,883	-18.4%	0	0	0.0%	178,549,646	189,941,154	-6.0%
NASDAQ-100 VOLATILITY	0	0	0.0%	2	11	-81.8%	0	0	0.0%	97	11	781.8%
NASDAQ BIOTECH	0	0	0.0%	88	167	-47.3%	0	0	0.0%	5,571	4,945	12.7%
Nearby BTIC+	0	0	0.0%	100	0	0.0%	0	0	0.0%	456	200	128.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	148,247	105,202	40.9%	0	0	0.0%	1,330,778	1,972,530	-32.5%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	810,581	642,385	26.2%	0	0	0.0%	6,721,332	9,780,884	-31.3%
S&P 500	0	0	0.0%	202	1,220	-83.4%	0	33,712	-100.0%	12,787	20,502	-37.6%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	12,754	15,726	-18.9%	0	0	0.0%	136,308	228,376	-40.3%
S&P 500/GI	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	100	251	-60.2%	0	0	0.0%	864	8,555	-89.9%
S&P 600 SMALLCAP EMINI	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
S&P CONSUMER DSCRTNRY S	0	0	0.0%	8,681	8,108	7.1%	0	0	0.0%	96,104	71,680	34.1%
S&P CONSUMER STAPLES SE	0	0	0.0%	10,863	9,077	19.7%	0	0	0.0%	173,415	120,228	44.2%
S&P ENERGY SECTOR	0	0	0.0%	20,156	19,973	0.9%	0	0	0.0%	277,814	185,320	49.9%
S&P FINANCIAL SECTOR	0	0	0.0%	15,195	15,868	-4.2%	0	0	0.0%	307,930	175,947	75.0%
S&P HEALTH CARE SECTOR	0	0	0.0%	13,815	9,957	38.7%	0	0	0.0%	154,033	126,518	21.7%
S&P INDUSTRIAL SECTOR	0	0	0.0%	5,797	8,341	-30.5%	0	0	0.0%	103,389	89,640	15.3%
S&P MATERIALS SECTOR	0	0	0.0%	5,275	5,546	-4.9%	0	0	0.0%	86,075	51,047	68.6%
S&P TECHNOLOGY SECTOR	0	0	0.0%	5,641	10,929	-48.4%	0	0	0.0%	118,051	109,066	8.2%
S&P UTILITIES SECTOR	0	0	0.0%	16,098	10,632	51.4%	0	0	0.0%	162,590	141,194	15.2%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
WATER INDEX FUTURES	0	-	-	2	-	-	0	-	-	946	-	-
YEN DENOMINATED TOPIX	0	0	0.0%	5,672	5,838	-2.8%	0	0	0.0%	23,294	70,405	-66.9%

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<b>Equity Index Options</b>												
BITCOIN FUTURES	0	0	0.0%	1,130	3,527	-68.0%	0	0	0.0%	11,315	14,415	-21.5%
E-MINI NASDAQ 100	0	0	0.0%	669,301	335,644	99.4%	0	0	0.0%	5,648,949	3,456,499	63.4%
E-MINI RUSSELL 2000	0	0	0.0%	20,389	15,295	33.3%	0	0	0.0%	276,887	176,020	57.3%
E-MINI S&P500	0	0	0.0%	6,706,737	5,728,915	17.1%	0	250	-100.0%	61,379,608	73,494,700	-16.5%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	23,117	12,182	89.8%	0	0	0.0%	205,818	89,206	130.7%
EOM EMINI S&P	0	0	0.0%	3,087,268	2,199,035	40.4%	0	0	0.0%	19,477,245	20,552,282	-5.2%
EOM S&P 500	0	0	0.0%	0	0	0.0%	0	303,360	-100.0%	2,158	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	10,985	2,285	380.7%	0	0	0.0%	111,268	44,457	150.3%
EOW1 EMINI S&P 500	0	0	0.0%	916,315	956,541	-4.2%	0	0	0.0%	10,061,644	10,599,502	-5.1%
EOW1 S&P 500	0	0	0.0%	0	0	0.0%	0	157,788	-100.0%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	14,921	30,428	-51.0%	0	0	0.0%	132,579	66,729	98.7%
EOW2 EMINI S&P 500	0	0	0.0%	1,497,474	1,066,905	40.4%	0	0	0.0%	11,054,736	10,926,745	1.2%
EOW2 S&P 500	0	0	0.0%	0	0	0.0%	0	252,530	-100.0%	0	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	35,121	15,624	124.8%	0	0	0.0%	313,861	175,138	79.2%
EOW3 EMINI S&P 500	0	0	0.0%	3,102,981	2,724,091	13.9%	0	0	0.0%	21,934,863	24,395,377	-10.1%
EOW3 S&P 500	0	0	0.0%	0	0	0.0%	0	266,271	-100.0%	0	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	14,123	4,957	184.9%	0	0	0.0%	148,246	36,492	306.2%
EOW4 EMINI S&P 500	0	0	0.0%	1,226,707	946,976	29.5%	0	0	0.0%	9,013,604	9,165,307	-1.7%
MICRO E-MINI NASDAQ	0	0	0.0%	3,546	660	437.3%	0	0	0.0%	56,015	3,423	1,536.4%
MICRO E-MINI NASDAQ 100	0	-	-	3,206	-	-	0	-	-	3,206	-	-
MICRO E-MINI NASDAQ END O	0	0	0.0%	9,922	2,749	260.9%	0	0	0.0%	75,832	4,389	1,627.8%
MICRO E-MINI NASDAQ WEEKL	0	0	0.0%	28,912	9,492	204.6%	0	0	0.0%	201,332	14,938	1,247.8%
MICRO E-MINI S&P 500	0	0	0.0%	23,698	12,060	96.5%	0	0	0.0%	279,162	45,575	512.5%
MICRO E-MINI S&P 500 END OF	0	0	0.0%	71,786	44,456	61.5%	0	0	0.0%	384,304	83,203	361.9%
MICRO E-MINI S&P 500 WEEKL	0	0	0.0%	135,019	117,761	14.7%	0	0	0.0%	893,616	208,116	329.4%
S&P 500	0	0	0.0%	0	400	-100.0%	0	677,812	-100.0%	200	7,913	-97.5%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	14	0	0.0%	0	0	0.0%	172	80	115.0%
AD/JY CROSS RATES	0	0	0.0%	2,542	1,698	49.7%	0	0	0.0%	21,610	25,356	-14.8%
AD/NE CROSS RATES	0	0	0.0%	536	135	297.0%	0	0	0.0%	2,994	2,740	9.3%
AUSTRALIAN DOLLAR	0	0	0.0%	1,838,634	1,927,726	-4.6%	0	0	0.0%	20,585,707	21,551,549	-4.5%

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<b>FX Futures</b>												
BP/JY CROSS RATES	0	0	0.0%	2,305	2,066	11.6%	0	0	0.0%	24,840	31,800	-21.9%
BP/SF CROSS RATES	0	0	0.0%	557	126	342.1%	0	0	0.0%	7,509	4,028	86.4%
BRAZIL REAL	0	0	0.0%	201,419	152,018	32.5%	0	0	0.0%	2,312,816	1,888,787	22.4%
BRITISH POUND	0	0	0.0%	1,853,708	2,404,566	-22.9%	0	0	0.0%	19,642,212	22,632,613	-13.2%
CANADIAN DOLLAR	0	0	0.0%	1,488,567	1,523,737	-2.3%	0	0	0.0%	16,589,681	16,149,823	2.7%
CD/JY CROSS RATES	0	0	0.0%	73	23	217.4%	0	0	0.0%	1,533	398	285.2%
CHINESE RENMINBI (CNH)	0	0	0.0%	12,456	29,901	-58.3%	0	0	0.0%	164,799	203,415	-19.0%
CZECK KORUNA (EC)	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	26	-92.3%
CZECK KORUNA (US)	0	0	0.0%	0	0	0.0%	0	0	0.0%	8	1	700.0%
EC/AD CROSS RATES	0	0	0.0%	2,984	3,208	-7.0%	0	0	0.0%	47,078	59,925	-21.4%
EC/CD CROSS RATES	0	0	0.0%	4,320	1,917	125.4%	0	0	0.0%	70,397	44,257	59.1%
EC/NOK CROSS RATES	0	0	0.0%	559	8	6,887.5%	0	0	0.0%	6,565	1,765	272.0%
EC/SEK CROSS RATES	0	0	0.0%	311	136	128.7%	0	0	0.0%	6,176	5,862	5.4%
EFX/BP CROSS RATES	0	0	0.0%	37,155	29,342	26.6%	0	0	0.0%	566,824	658,311	-13.9%
EFX/JY CROSS RATES	0	0	0.0%	31,481	21,491	46.5%	0	0	0.0%	424,287	568,674	-25.4%
EFX/SF CROSS RATES	0	0	0.0%	16,207	13,630	18.9%	0	0	0.0%	233,789	351,967	-33.6%
E-MICRO USD/CAD	0	-	-	1,358	-	-	0	-	-	1,704	-	-
E-MICRO USD/CHF	0	-	-	54	-	-	0	-	-	83	-	-
E-MICRO USD/JPY	0	-	-	2,799	-	-	0	-	-	2,921	-	-
E-MINI EURO FX	0	0	0.0%	82,740	125,174	-33.9%	0	0	0.0%	1,195,111	1,556,514	-23.2%
E-MINI JAPANESE YEN	0	0	0.0%	10,608	6,438	64.8%	0	0	0.0%	92,776	209,280	-55.7%
EURO FX	0	0	0.0%	3,404,101	3,712,885	-8.3%	0	36	-100.0%	39,656,949	45,939,032	-13.7%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	9	-100.0%
HUNGARIAN FORINT (US)	0	0	0.0%	3	3	0.0%	0	0	0.0%	171	103	66.0%
INDIAN RUPEE	0	0	0.0%	16,274	20,347	-20.0%	0	0	0.0%	139,266	258,622	-46.2%
JAPANESE YEN	0	0	0.0%	2,329,770	1,757,928	32.5%	0	0	0.0%	22,210,853	24,218,082	-8.3%
KOREAN WON	0	0	0.0%	473	906	-47.8%	0	0	0.0%	11,822	5,934	99.2%
MEXICAN PESO	0	0	0.0%	882,594	1,150,497	-23.3%	0	0	0.0%	11,018,406	11,981,569	-8.0%
MICRO AUD/USD	0	0	0.0%	196,181	200,786	-2.3%	0	0	0.0%	2,066,390	2,450,672	-15.7%
MICRO CAD/USD	0	0	0.0%	55,291	27,307	102.5%	0	0	0.0%	563,134	290,438	93.9%
MICRO CHF/USD	0	0	0.0%	7,180	5,679	26.4%	0	0	0.0%	86,798	41,343	109.9%
MICRO EUR/USD	0	0	0.0%	421,912	459,026	-8.1%	0	0	0.0%	4,803,593	4,911,000	-2.2%
MICRO GBP/USD	0	0	0.0%	104,204	93,773	11.1%	0	0	0.0%	770,095	693,488	11.0%
MICRO INR/USD	0	0	0.0%	1,188	1,917	-38.0%	0	0	0.0%	17,534	21,958	-20.1%
MICRO JPY/USD	0	0	0.0%	46,053	22,236	107.1%	0	0	0.0%	346,054	291,586	18.7%

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<b>FX Futures</b>												
MICRO USD/CNH	0	-	-	0	-	-	0	-	-	36	-	-
NEW ZEALND DOLLAR	0	0	0.0%	529,459	460,041	15.1%	0	0	0.0%	5,952,116	6,193,089	-3.9%
NKR/USD CROSS RATE	0	0	0.0%	2,441	1,346	81.4%	0	0	0.0%	45,669	44,815	1.9%
POLISH ZLOTY (EC)	0	0	0.0%	66	10	560.0%	0	0	0.0%	1,376	586	134.8%
POLISH ZLOTY (US)	0	0	0.0%	699	771	-9.3%	0	0	0.0%	8,819	8,288	6.4%
RMB USD	0	0	0.0%	0	0	0.0%	0	0	0.0%	3	4	-25.0%
RUSSIAN RUBLE	0	0	0.0%	117,753	80,406	46.4%	0	0	0.0%	1,078,345	1,117,405	-3.5%
S.AFRICAN RAND	0	0	0.0%	48,508	50,492	-3.9%	0	0	0.0%	574,066	780,761	-26.5%
SF/JY CROSS RATES	0	0	0.0%	74	4	1,750.0%	0	0	0.0%	329	234	40.6%
SHEKEL	0	0	0.0%	1	8	-87.5%	0	0	0.0%	19	113	-83.2%
SKR/USD CROSS RATES	0	0	0.0%	4,168	4,141	0.7%	0	0	0.0%	49,392	39,979	23.5%
SWISS FRANC	0	0	0.0%	466,075	405,836	14.8%	0	0	0.0%	4,913,010	5,819,665	-15.6%
TURKISH LIRA	0	0	0.0%	0	0	0.0%	0	0	0.0%	8	88	-90.9%
USDZAR	0	0	0.0%	1	0	0.0%	0	0	0.0%	72	0	0.0%
<b>FX Options</b>												
AUD/USD MONDAY OPTION W	0	0	0.0%	1,142	139	721.6%	0	0	0.0%	4,254	3,526	20.6%
AUD/USD MONDAY OPTION W	0	0	0.0%	495	11	4,400.0%	0	0	0.0%	3,726	1,683	121.4%
AUD/USD MONDAY OPTION W	0	0	0.0%	797	214	272.4%	0	0	0.0%	3,984	2,540	56.9%
AUD/USD MONDAY OPTION W	0	0	0.0%	516	627	-17.7%	0	0	0.0%	4,512	2,341	92.7%
AUD/USD MONDAY OPTION W	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,370	722	89.8%
AUD/USD MONTHLY OPTIONS	0	0	0.0%	56,817	47,481	19.7%	0	0	0.0%	493,233	724,411	-31.9%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	119	185	-35.7%	0	0	0.0%	7,231	5,583	29.5%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,695	683	148.2%	0	0	0.0%	16,675	38,596	-56.8%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,499	1,677	49.0%	0	0	0.0%	26,692	35,736	-25.3%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,416	2,145	12.6%	0	0	0.0%	29,297	39,676	-26.2%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,366	4,083	-17.6%	0	0	0.0%	8,641	17,321	-50.1%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	3,062	1,447	111.6%	0	0	0.0%	11,795	12,991	-9.2%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	717	461	55.5%	0	0	0.0%	7,846	12,886	-39.1%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	127	588	-78.4%	0	0	0.0%	3,068	7,990	-61.6%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	576	1,456	-60.4%	0	0	0.0%	9,069	13,540	-33.0%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,985	5,691	-65.1%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	501	2	24,950.0%	0	0	0.0%	3,291	677	386.1%

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## CME Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2021	Open Outcry OCT 2020	% CHG	ELEC OCT 2021	ELEC OCT 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>FX Options</b>												
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,248	710	75.8%	0	0	0.0%	8,895	3,155	181.9%
CAD/USD MONDAY OPTIONS	0	0	0.0%	723	389	85.9%	0	0	0.0%	15,720	1,953	704.9%
CAD/USD MONDAY OPTIONS	0	0	0.0%	400	2,600	-84.6%	0	0	0.0%	10,304	8,209	25.5%
CAD/USD MONDAY OPTIONS	0	0	0.0%	802	630	27.3%	0	0	0.0%	22,507	5,272	326.9%
CAD/USD MONDAY OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	3,147	3,085	2.0%
CAD/USD MONTHLY OPTIONS	0	0	0.0%	69,526	31,531	120.5%	0	430	-100.0%	689,268	473,035	45.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	710	956	-25.7%	0	0	0.0%	27,536	12,433	121.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,834	1,169	142.4%	0	0	0.0%	45,764	64,413	-29.0%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	7,211	7,089	1.7%	0	0	0.0%	76,730	64,045	19.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	5,653	8,297	-31.9%	0	0	0.0%	93,050	71,552	30.0%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	10,929	4,928	121.8%	0	0	0.0%	28,019	30,313	-7.6%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,864	2,244	27.6%	0	0	0.0%	21,192	22,621	-6.3%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,273	1,636	-22.2%	0	0	0.0%	18,371	17,587	4.5%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,500	2,118	-29.2%	0	0	0.0%	20,167	18,781	7.4%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	785	3,189	-75.4%	0	0	0.0%	26,341	24,468	7.7%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	9,035	8,199	10.2%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	10,782	5,966	80.7%	0	0	0.0%	55,476	35,965	54.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.0%	0	0	0.0%	411	139	195.7%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	52	253	-79.4%	0	0	0.0%	2,292	1,758	30.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	179	13	1,276.9%	0	0	0.0%	1,882	1,042	80.6%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	45	13	246.2%	0	0	0.0%	2,431	1,445	68.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	44	918	-95.2%	0	0	0.0%	282	1,824	-84.5%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	6	0	0.0%
EUR/GBP WKLY FRIDAY OPTIC	0	-	-	0	-	-	0	-	-	0	-	-
EUR/USD MONDAY OPTION W	0	0	0.0%	3,300	5,119	-35.5%	0	0	0.0%	19,382	17,361	11.6%
EUR/USD MONDAY OPTION W	0	0	0.0%	3,853	1,752	119.9%	0	0	0.0%	16,974	13,471	26.0%
EUR/USD MONDAY OPTION W	0	0	0.0%	2,530	381	564.0%	0	0	0.0%	15,588	19,355	-19.5%
EUR/USD MONDAY OPTION W	0	0	0.0%	1,374	1,412	-2.7%	0	0	0.0%	25,964	20,748	25.1%
EUR/USD MONDAY OPTION W	0	0	0.0%	0	0	0.0%	0	0	0.0%	5,945	7,186	-17.3%
EUR/USD MONTHLY OPTIONS	0	0	0.0%	188,804	185,282	1.9%	0	1,550	-100.0%	1,945,377	2,764,139	-29.6%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	358	1,622	-77.9%	0	0	0.0%	49,464	29,159	69.6%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,474	2,956	186.7%	0	62	-100.0%	125,874	183,125	-31.3%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	20,522	14,080	45.8%	0	0	0.0%	199,082	206,476	-3.6%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	16,177	18,673	-13.4%	0	0	0.0%	182,976	219,974	-16.8%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	24,176	15,772	53.3%	0	0	0.0%	85,773	78,886	8.7%

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## CME Exchange Volume Comparison Report - Monthly

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<b>FX Options</b>												
EUR/USD WKLY WED OPTIONS	0	0	0.0%	8,043	13,242	-39.3%	0	0	0.0%	65,390	99,862	-34.5%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	6,187	4,937	25.3%	0	0	0.0%	68,528	79,633	-13.9%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	4,854	7,210	-32.7%	0	0	0.0%	65,238	80,627	-19.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	8,530	8,469	0.7%	0	0	0.0%	88,524	77,513	14.2%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	25,392	34,150	-25.6%
GBP/USD MONDAY OPTION W	0	0	0.0%	306	1,435	-78.7%	0	0	0.0%	4,400	6,598	-33.3%
GBP/USD MONDAY OPTION W	0	0	0.0%	677	533	27.0%	0	0	0.0%	5,948	3,708	60.4%
GBP/USD MONDAY OPTION W	0	0	0.0%	1,658	1,498	10.7%	0	0	0.0%	4,031	5,911	-31.8%
GBP/USD MONDAY OPTION W	0	0	0.0%	1,236	2,617	-52.8%	0	0	0.0%	5,555	9,202	-39.6%
GBP/USD MONDAY OPTION W	0	0	0.0%	0	0	0.0%	0	0	0.0%	654	1,435	-54.4%
GBP/USD MONTHLY OPTIONS	0	0	0.0%	83,729	91,893	-8.9%	0	64	-100.0%	732,637	863,026	-15.1%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	80	1,429	-94.4%	0	0	0.0%	12,239	9,487	29.0%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,443	1,971	23.9%	0	0	0.0%	24,412	35,140	-30.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,801	5,570	-67.7%	0	0	0.0%	28,279	39,995	-29.3%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,989	4,069	22.6%	0	0	0.0%	35,562	33,741	5.4%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,012	3,442	-41.5%	0	0	0.0%	10,415	16,262	-36.0%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	2,054	2,108	-2.6%	0	0	0.0%	11,701	16,663	-29.8%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,205	537	124.4%	0	0	0.0%	6,783	9,174	-26.1%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,000	358	179.3%	0	0	0.0%	6,771	15,471	-56.2%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	2,344	828	183.1%	0	0	0.0%	11,678	12,510	-6.7%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	2,591	7,180	-63.9%
JPY/USD MONDAY OPTION WE	0	0	0.0%	561	1,295	-56.7%	0	0	0.0%	3,852	8,895	-56.7%
JPY/USD MONDAY OPTION WE	0	0	0.0%	920	584	57.5%	0	0	0.0%	6,011	11,164	-46.2%
JPY/USD MONDAY OPTION WE	0	0	0.0%	210	204	2.9%	0	0	0.0%	3,892	7,586	-48.7%
JPY/USD MONDAY OPTION WE	0	0	0.0%	673	3,135	-78.5%	0	0	0.0%	4,029	7,081	-43.1%
JPY/USD MONDAY OPTION WE	0	0	0.0%	0	0	0.0%	0	0	0.0%	2,697	2,653	1.7%
JPY/USD MONTHLY OPTIONS	0	0	0.0%	103,153	79,900	29.1%	0	727	-100.0%	812,132	1,182,793	-31.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	9	302	-97.0%	0	0	0.0%	28,297	17,142	65.1%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	1,771	913	94.0%	0	0	0.0%	51,749	105,042	-50.7%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	12,094	7,880	53.5%	0	0	0.0%	95,914	121,802	-21.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	11,059	10,598	4.3%	0	0	0.0%	91,354	116,398	-21.5%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	10,959	9,471	15.7%	0	0	0.0%	36,327	48,042	-24.4%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	5,655	5,260	7.5%	0	0	0.0%	28,311	51,481	-45.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	5,141	1,572	227.0%	0	0	0.0%	36,104	38,451	-6.1%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,877	2,897	68.3%	0	0	0.0%	31,747	46,091	-31.1%

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<b>FX Options</b>												
JPY/USD WKLY WED OPTIONS	0	0	0.0%	6,027	2,312	160.7%	0	0	0.0%	31,885	48,313	-34.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	7,879	12,418	-36.6%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	2,790	988	182.4%	0	1,840	-100.0%	14,532	15,193	-4.4%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	4,413	-100.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	604	1,748	-65.4%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	276	-100.0%	0	0	0.0%	552	2,174	-74.6%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	326	-100.0%	0	0	0.0%	631	2,676	-76.4%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	152	-100.0%
NZD/USD MONTHLY OPTIONS	0	0	0.0%	553	177	212.4%	0	0	0.0%	1,911	4,831	-60.4%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	50	-100.0%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	55	0	0.0%	0	0	0.0%	67	0	0.0%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	375	-100.0%
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	98	-100.0%	0	0	0.0%	68	191	-64.4%
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
<b>Foreign Exchange Options</b>												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	173	317	-45.4%	0	0	0.0%	4,533	7,210	-37.1%



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<b>Ag Products Futures</b>												
BLOCK CHEESE	0	0	0.0%	605	214	182.7%	0	0	0.0%	6,334	2,439	159.7%
BUTTER CS	0	0	0.0%	3,641	4,599	-20.8%	0	0	0.0%	38,615	54,857	-29.6%
CASH-SETTLED CHEESE	0	0	0.0%	11,038	14,395	-23.3%	0	0	0.0%	114,235	130,412	-12.4%
CAT ASIA WEATHER	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
CATTLE	0	0	0.0%	886,887	1,225,680	-27.6%	0	2,592	-100.0%	11,682,664	13,987,511	-16.5%
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	50	-100.0%
CLASS IV MILK	0	0	0.0%	4,068	394	932.5%	0	65	-100.0%	13,276	21,751	-39.0%
DRY WHEY	0	0	0.0%	1,335	1,569	-14.9%	0	0	0.0%	19,493	14,057	38.7%
FEEDER CATTLE	0	0	0.0%	253,610	296,802	-14.6%	0	54	-100.0%	2,595,235	2,767,106	-6.2%
GOLDMAN SACHS	0	0	0.0%	3,965	12,108	-67.3%	0	0	0.0%	84,781	149,934	-43.5%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.0%	0	0	0.0%	151	85	77.6%
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	25	-100.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HOGS	0	0	0.0%	747,655	869,084	-14.0%	0	1,940	-100.0%	9,678,623	10,838,155	-10.7%
HOUSING INDEX	0	0	0.0%	10	2	400.0%	0	0	0.0%	132	262	-49.6%
LUMBER	0	0	0.0%	7,935	9,071	-12.5%	0	0	0.0%	97,695	133,557	-26.9%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
MILK	0	0	0.0%	29,598	36,240	-18.3%	0	59	-100.0%	241,002	352,580	-31.6%
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%	6,238	5,560	12.2%	0	0	0.0%	53,538	79,498	-32.7%
PACIFIC RIM DAT SS WTHR	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
PORK CUTOOT	0	-	-	966	-	-	0	-	-	24,161	-	-
S&P GSCI ENHANCED ER SWA	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
USD CRUDE PALM OIL	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%

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<b>Ag Products Options</b>												
BLOCK CHEESE	0	0	0.0%	42	359	-88.3%	0	2,052	-100.0%	2,964	6,152	-51.8%
BUTTER CS	0	0	0.0%	2,339	1,851	26.4%	0	212	-100.0%	19,099	29,200	-34.6%
CASH-SETTLED CHEESE	0	0	0.0%	4,038	15,853	-74.5%	0	5,682	-100.0%	61,765	113,217	-45.4%
CATTLE	0	0	0.0%	165,880	211,735	-21.7%	0	59,913	-100.0%	1,880,483	2,234,206	-15.8%
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	-	-
CLASS IV MILK	0	0	0.0%	7,972	706	1,029.2%	0	1,082	-100.0%	39,294	44,426	-11.6%
DRY WHEY	0	0	0.0%	12	24	-50.0%	0	119	-100.0%	1,758	4,264	-58.8%
FEEDER CATTLE	0	0	0.0%	22,837	28,256	-19.2%	0	4,252	-100.0%	216,053	255,493	-15.4%
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	-	-
HOGS	0	0	0.0%	164,408	175,099	-6.1%	0	34,430	-100.0%	2,049,964	2,668,938	-23.2%
HOUSING INDEX	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
LUMBER	0	0	0.0%	379	579	-34.5%	0	0	0.0%	7,079	8,837	-19.9%
LV CATL CSO	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
MILK	0	0	0.0%	30,853	39,251	-21.4%	0	3,323	-100.0%	252,310	463,687	-45.6%
MLK MID OPTIONS	0	0	0.0%	1	7	-85.7%	0	31	-100.0%	16	93	-82.8%
NFD MILK	0	0	0.0%	2,735	4,241	-35.5%	0	494	-100.0%	34,148	63,407	-46.1%
PORK CUTOOT	0	-	-	1	-	-	0	-	-	750	-	-
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	741,053	115,114	543.8%	70,585,461	27,680,590	155.0%	4,550,444	2,945,882	54.5%	521,499,450	440,465,710	18.4%
Equity Index Futures	0	0	0.0%	86,014,110	97,050,561	-11.4%	0	33,712	-100.0%	903,034,619	974,117,869	-7.3%
FX Futures	0	0	0.0%	14,225,856	14,699,685	-3.2%	0	36	-100.0%	156,315,919	171,056,034	-8.6%
Foreign Exchange Futures	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
Ag Products Futures	0	0	0.0%	1,957,551	2,475,718	-20.9%	0	4,710	-100.0%	24,649,935	28,532,279	-13.6%
<b>TOTAL FUTURES</b>	<b>741,053</b>	<b>115,114</b>	<b>543.8%</b>	<b>172,782,978</b>	<b>141,906,554</b>	<b>21.8%</b>	<b>4,550,444</b>	<b>2,984,340</b>	<b>52.5%</b>	<b>1,605,499,923</b>	<b>1,614,171,892</b>	<b>-0.5%</b>

## CME Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2021	Open Outcry OCT 2020	% CHG	ELEC OCT 2021	ELEC OCT 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	0	0	0.0%	17,602,658	14,229,983	23.7%	0	1,658,011	-100.0%	141,666,448	153,560,426	-7.7%
Interest Rate Options	17,462,034	5,405,099	223.1%	12,069,564	4,220,805	186.0%	134,022,228	73,051,070	83.5%	70,233,677	149,021,140	-52.9%
FX Options	0	0	0.0%	761,628	663,231	14.8%	0	4,673	-100.0%	6,995,167	8,671,527	-19.3%
Ag Products Options	0	0	0.0%	401,497	477,961	-16.0%	0	111,590	-100.0%	4,565,683	5,891,920	-22.5%
Foreign Exchange Options	0	0	0.0%	173	317	-45.4%	0	0	0.0%	4,533	7,210	-37.1%
<b>TOTAL OPTIONS</b>	<b>17,462,034</b>	<b>5,405,099</b>	<b>223.1%</b>	<b>30,835,520</b>	<b>19,592,297</b>	<b>57.4%</b>	<b>134,022,228</b>	<b>74,825,344</b>	<b>79.1%</b>	<b>223,465,508</b>	<b>317,152,223</b>	<b>-29.5%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	18,203,087	5,520,213	229.8%	82,655,025	31,901,395	159.1%	138,572,672	75,996,952	82.3%	591,733,127	589,486,850	0.4%
Equity Index	0	0	0.0%	103,616,768	111,280,544	-6.9%	0	1,691,723	-100.0%	1,044,701,067	1,127,678,295	-7.4%
FX	0	0	0.0%	14,987,484	15,362,916	-2.4%	0	4,709	-100.0%	163,311,086	179,727,561	-9.1%
Foreign Exchange	0	0	0.0%	173	317	-45.4%	0	0	0.0%	4,533	7,210	-37.1%
Ag Products	0	0	0.0%	2,359,048	2,953,679	-20.1%	0	116,300	-100.0%	29,215,618	34,424,199	-15.1%
<b>GRAND TOTAL</b>	<b>18,203,087</b>	<b>5,520,213</b>	<b>229.8%</b>	<b>203,618,498</b>	<b>161,498,851</b>	<b>26.1%</b>	<b>138,572,672</b>	<b>77,809,684</b>	<b>78.1%</b>	<b>1,828,965,431</b>	<b>1,931,324,115</b>	<b>-5.3%</b>