



## CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2020	Open Outcry DEC 2019	% CHG	ELEC DEC 2020	ELEC DEC 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>Interest Rate Futures</b>												
1-MONTH EURODOLLAR	0	0	0.0%	0	1	-100.0%	0	0	0.0%	826	451	83.1%
EURODOLLARS	137,810	328,168	-58.0%	30,461,184	35,731,416	-14.7%	3,277,668	8,292,595	-60.5%	498,955,614	668,153,568	-25.3%
SOFR	0	0	0.0%	1,436,190	697,447	105.9%	0	0	0.0%	12,342,169	8,572,639	44.0%
SONIA	0	0	0.0%	132,578	196,587	-32.6%	0	0	0.0%	2,007,954	2,212,780	-9.3%
<b>Interest Rate Options</b>												
EURODOLLARS	2,273,307	6,846,949	-66.8%	1,482,590	7,690,449	-80.7%	57,751,867	154,702,821	-62.7%	106,164,883	97,008,097	9.4%
EURO MIDCURVE	2,662,659	2,886,154	-7.7%	1,813,785	2,345,667	-22.7%	26,925,436	73,493,703	-63.4%	50,857,323	59,124,551	-14.0%
SOFR	6,000	-	-	0	-	-	6,010	-	-	3,114	-	-
<b>Equity Index Futures</b>												
BITCOIN FUTURES	0	0	0.0%	244,484	109,747	122.8%	0	0	0.0%	2,213,538	1,603,527	38.0%
E-MINI COM SERVICES SELEC	0	0	0.0%	3,892	2,915	33.5%	0	0	0.0%	29,476	29,583	-0.4%
E-mini FTSE 100 (USD)	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	336	-100.0%
E-mini FTSE China 50	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	711	-99.7%
E-MINI MIDCAP	0	0	0.0%	473,840	459,981	3.0%	0	0	0.0%	4,400,865	3,997,512	10.1%
E-MINI NASDAQ 100	0	0	0.0%	9,939,297	8,162,283	21.8%	0	0	0.0%	145,911,118	114,678,323	27.2%
E-MINI RUSSELL 1000	0	0	0.0%	2,423	3,654	-33.7%	0	0	0.0%	38,687	40,453	-4.4%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	7,560	8,426	-10.3%	0	0	0.0%	38,635	44,466	-13.1%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	11,781	13,608	-13.4%	0	0	0.0%	76,995	89,793	-14.3%
E-MINI RUSSELL 2000	0	0	0.0%	4,575,300	3,396,583	34.7%	0	0	0.0%	50,952,040	36,160,849	40.9%
E-MINI S&P500	0	0	0.0%	34,081,354	34,862,801	-2.2%	0	0	0.0%	499,682,057	392,743,727	27.2%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	6,646	5,138	29.3%	0	0	0.0%	58,421	47,407	23.2%
FT-SE 100	0	0	0.0%	1	0	0.0%	0	0	0.0%	9	372	-97.6%
FTSE Emerging	0	0	0.0%	25	2,010	-98.8%	0	0	0.0%	4,798	25,224	-81.0%
IBOVESPA INDEX	0	0	0.0%	187	601	-68.9%	0	0	0.0%	4,668	8,239	-43.3%
MICRO E-MINI NASDAQ 100	0	0	0.0%	16,275,693	3,168,178	413.7%	0	0	0.0%	178,531,164	31,750,965	462.3%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	1,982,659	554,646	257.5%	0	0	0.0%	23,672,428	5,004,928	373.0%
MICRO E-MINI S&P500	0	0	0.0%	16,318,013	4,328,000	277.0%	0	0	0.0%	226,808,530	43,076,456	426.5%
NASDAQ BIOTECH	0	0	0.0%	285	322	-11.5%	0	0	0.0%	5,555	4,065	36.7%
Nearby BTIC+	0	0	0.0%	0	0	0.0%	0	0	0.0%	200	34	488.2%

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<b>Equity Index Futures</b>												
NIFTY 50	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	133,213	238,701	-44.2%	0	0	0.0%	2,258,392	2,612,179	-13.5%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	641,304	814,864	-21.3%	0	318	-100.0%	11,237,739	9,721,438	15.6%
S&P 500	0	45,694	-100.0%	120	324	-63.0%	33,712	271,071	-87.6%	20,961	17,111	22.5%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	9,407	10,329	-8.9%	0	0	0.0%	254,429	112,853	125.5%
S&P 500/GI	0	0	0.0%	0	12	-100.0%	0	0	0.0%	0	72	-100.0%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	254	50	408.0%	0	0	0.0%	9,893	2,067	378.6%
S&P 600 SMALLCAP EMINI	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	17	-100.0%
S&P CONSUMER DSCRTNRY S	0	0	0.0%	11,026	9,561	15.3%	0	0	0.0%	90,704	80,969	12.0%
S&P CONSUMER STAPLES SE	0	0	0.0%	20,955	16,146	29.8%	0	0	0.0%	148,856	124,841	19.2%
S&P ENERGY SECTOR	0	0	0.0%	37,787	21,937	72.3%	0	0	0.0%	251,170	143,279	75.3%
S&P FINANCIAL SECTOR	0	0	0.0%	42,705	25,541	67.2%	0	0	0.0%	239,739	214,556	11.7%
S&P HEALTH CARE SECTOR	0	0	0.0%	22,751	16,644	36.7%	0	0	0.0%	163,421	134,124	21.8%
S&P INDUSTRIAL SECTOR	0	0	0.0%	19,753	17,459	13.1%	0	0	0.0%	119,385	103,329	15.5%
S&P MATERIALS SECTOR	0	0	0.0%	11,882	7,598	56.4%	0	0	0.0%	68,583	67,650	1.4%
S&P TECHNOLOGY SECTOR	0	0	0.0%	20,801	13,422	55.0%	0	0	0.0%	138,503	116,903	18.5%
S&P UTILITIES SECTOR	0	0	0.0%	24,858	19,242	29.2%	0	0	0.0%	176,132	186,452	-5.5%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	16	-100.0%	0	0	0.0%	0	88	-100.0%
WATER INDEX FUTURES	0	-	-	94	-	-	0	-	-	94	-	-
YEN DENOMINATED TOPIX	0	0	0.0%	1,672	12,188	-86.3%	0	0	0.0%	77,860	219,936	-64.6%

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<b>Equity Index Options</b>												
BITCOIN FUTURES	0	-	-	3,249	-	-	0	-	-	19,799	-	-
E-MINI NASDAQ 100	0	0	0.0%	262,327	176,277	48.8%	0	0	0.0%	4,029,014	2,394,963	68.2%
E-MINI RUSSELL 2000	0	0	0.0%	16,753	16,248	3.1%	0	0	0.0%	230,424	195,003	18.2%
E-MINI S&P500	0	0	0.0%	5,917,491	6,351,055	-6.8%	250	600	-58.3%	84,727,173	66,318,944	27.8%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	19,353	4,114	370.4%	0	0	0.0%	116,366	99,644	16.8%
EOM EMINI S&P	0	0	0.0%	1,258,669	1,666,065	-24.5%	0	0	0.0%	23,136,877	22,735,455	1.8%
EOM S&P 500	0	105,822	-100.0%	1,684	0	0.0%	303,360	1,392,835	-78.2%	6,505	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	2,406	3,409	-29.4%	0	0	0.0%	50,285	41,469	21.3%
EOW1 EMINI S&P 500	0	0	0.0%	392,686	1,222,185	-67.9%	0	0	0.0%	12,023,282	11,898,800	1.0%
EOW1 S&P 500	0	119,582	-100.0%	6,493	0	0.0%	157,788	927,803	-83.0%	70,746	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	7,888	3,706	112.8%	0	0	0.0%	80,323	57,981	38.5%
EOW2 EMINI S&P 500	0	0	0.0%	941,003	1,238,813	-24.0%	0	0	0.0%	12,873,879	12,211,898	5.4%
EOW2 S&P 500	0	182,781	-100.0%	18,779	0	0.0%	252,530	1,610,480	-84.3%	87,224	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	14,679	15,383	-4.6%	0	0	0.0%	205,288	181,234	13.3%
EOW3 EMINI S&P 500	0	0	0.0%	1,236,307	1,615,799	-23.5%	0	0	0.0%	27,386,900	27,486,266	-0.4%
EOW3 S&P 500	0	40,045	-100.0%	9,924	0	0.0%	266,271	1,407,823	-81.1%	106,102	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	6,220	3,468	79.4%	0	0	0.0%	46,721	39,182	19.2%
EOW4 EMINI S&P 500	0	0	0.0%	588,852	845,944	-30.4%	0	0	0.0%	10,270,410	10,342,681	-0.7%
EOW4 S&P 500	0	-	-	15,542	-	-	0	-	-	92,265	-	-
MICRO E-MINI NASDAQ 100	0	-	-	2,460	-	-	0	-	-	6,839	-	-
MICRO E-MINI S&P500	0	-	-	22,233	-	-	0	-	-	86,488	-	-
S&P 500	0	350,384	-100.0%	380	0	0.0%	677,812	2,877,983	-76.4%	8,853	0	0.0%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	12	28	-57.1%	0	0	0.0%	98	176	-44.3%
AD/JY CROSS RATES	0	0	0.0%	1,873	2,528	-25.9%	0	0	0.0%	29,132	30,191	-3.5%
AD/NE CROSS RATES	0	0	0.0%	173	247	-30.0%	0	0	0.0%	3,054	1,913	59.6%
AUSTRALIAN DOLLAR	0	0	0.0%	2,331,997	2,318,055	0.6%	0	0	0.0%	25,842,040	25,140,801	2.8%
BP/JY CROSS RATES	0	0	0.0%	3,067	4,256	-27.9%	0	0	0.0%	36,686	37,075	-1.0%
BP/SF CROSS RATES	0	0	0.0%	580	315	84.1%	0	0	0.0%	4,826	4,652	3.7%
BRAZIL REAL	0	0	0.0%	204,054	164,321	24.2%	0	0	0.0%	2,299,969	1,670,698	37.7%
BRITISH POUND	0	0	0.0%	3,308,983	3,209,704	3.1%	0	3	-100.0%	27,830,067	30,386,352	-8.4%

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<b>FX Futures</b>												
CANADIAN DOLLAR	0	0	0.0%	1,893,478	1,924,958	-1.6%	0	3	-100.0%	19,420,460	19,924,660	-2.5%
CD/JY CROSS RATES	0	0	0.0%	11	47	-76.6%	0	0	0.0%	419	187	124.1%
CHINESE RENMINBI (CNH)	0	0	0.0%	35,857	19,945	79.8%	0	0	0.0%	277,441	329,043	-15.7%
CZECK KORUNA (EC)	0	0	0.0%	4	12	-66.7%	0	0	0.0%	30	42	-28.6%
CZECK KORUNA (US)	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	0	0.0%
EC/AD CROSS RATES	0	0	0.0%	14,419	7,169	101.1%	0	0	0.0%	76,851	56,748	35.4%
EC/CD CROSS RATES	0	0	0.0%	9,635	8,839	9.0%	0	0	0.0%	55,649	41,721	33.4%
EC/NOK CROSS RATES	0	0	0.0%	559	777	-28.1%	0	0	0.0%	2,395	6,359	-62.3%
EC/SEK CROSS RATES	0	0	0.0%	1,404	1,994	-29.6%	0	0	0.0%	7,681	8,926	-13.9%
EFX/BP CROSS RATES	0	0	0.0%	117,405	124,935	-6.0%	0	0	0.0%	810,548	1,141,308	-29.0%
EFX/JY CROSS RATES	0	0	0.0%	74,719	110,144	-32.2%	0	0	0.0%	669,029	837,259	-20.1%
EFX/SF CROSS RATES	0	0	0.0%	43,801	40,936	7.0%	0	0	0.0%	407,336	410,240	-0.7%
E-MINI EURO FX	0	0	0.0%	218,618	96,532	126.5%	0	0	0.0%	1,917,534	1,101,614	74.1%
E-MINI JAPANESE YEN	0	0	0.0%	9,129	12,383	-26.3%	0	0	0.0%	232,932	203,855	14.3%
EURO FX	0	3	-100.0%	5,854,145	5,707,184	2.6%	36	63	-42.9%	55,139,433	52,183,713	5.7%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	0	0.0%	0	0	0.0%	11	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	25	3	733.3%	0	0	0.0%	137	19	621.1%
INDIAN RUPEE	0	0	0.0%	18,439	29,596	-37.7%	0	0	0.0%	298,936	745,211	-59.9%
JAPANESE YEN	0	0	0.0%	2,592,479	3,060,345	-15.3%	0	2	-100.0%	28,876,974	32,486,852	-11.1%
KOREAN WON	0	0	0.0%	1,455	259	461.8%	0	0	0.0%	8,184	3,487	134.7%
MEXICAN PESO	0	0	0.0%	1,459,203	1,322,681	10.3%	0	0	0.0%	14,648,087	14,884,033	-1.6%
MICRO AUD/USD	0	0	0.0%	261,617	76,524	241.9%	0	0	0.0%	2,970,125	1,202,640	147.0%
MICRO CAD/USD	0	0	0.0%	32,267	16,511	95.4%	0	0	0.0%	360,021	201,285	78.9%
MICRO CHF/USD	0	0	0.0%	10,126	6,929	46.1%	0	0	0.0%	62,071	42,767	45.1%
MICRO EUR/USD	0	0	0.0%	614,152	155,409	295.2%	0	0	0.0%	6,046,141	2,640,604	129.0%
MICRO GBP/USD	0	0	0.0%	152,957	63,809	139.7%	0	0	0.0%	933,208	650,407	43.5%
MICRO INR/USD	0	0	0.0%	2,212	3,256	-32.1%	0	0	0.0%	26,073	55,850	-53.3%
MICRO JPY/USD	0	0	0.0%	29,039	15,755	84.3%	0	0	0.0%	348,677	318,376	9.5%
NEW ZEALND DOLLAR	0	0	0.0%	709,921	678,529	4.6%	0	0	0.0%	7,441,015	6,926,248	7.4%
NKR/USD CROSS RATE	0	0	0.0%	7,820	9,702	-19.4%	0	0	0.0%	55,922	60,852	-8.1%
POLISH ZLOTY (EC)	0	0	0.0%	148	2	7,300.0%	0	0	0.0%	740	454	63.0%
POLISH ZLOTY (US)	0	0	0.0%	1,300	285	356.1%	0	0	0.0%	10,050	1,663	504.3%
RMB USD	0	0	0.0%	0	1	-100.0%	0	0	0.0%	4	10	-60.0%
RUSSIAN RUBLE	0	0	0.0%	163,962	142,169	15.3%	0	0	0.0%	1,384,375	891,411	55.3%
S.AFRICAN RAND	0	0	0.0%	87,405	85,438	2.3%	0	0	0.0%	921,859	651,212	41.6%

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<b>FX Futures</b>												
SF/JY CROSS RATES	0	0	0.0%	4	25	-84.0%	0	0	0.0%	255	60	325.0%
SHEKEL	0	0	0.0%	10	20	-50.0%	0	0	0.0%	124	40	210.0%
SKR/USD CROSS RATES	0	0	0.0%	7,995	7,187	11.2%	0	0	0.0%	51,247	37,061	38.3%
SWISS FRANC	0	0	0.0%	618,861	797,905	-22.4%	0	0	0.0%	6,874,662	7,111,423	-3.3%
TURKISH LIRA	0	0	0.0%	0	15	-100.0%	0	0	0.0%	96	94	2.1%
USDZAR	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	20	-100.0%
<b>FX Options</b>												
AUD/USD MONDAY OPTION W	0	-	-	951	-	-	0	-	-	4,522	-	-
AUD/USD MONDAY OPTION W	0	-	-	920	-	-	0	-	-	2,603	-	-
AUD/USD MONDAY OPTION W	0	-	-	0	-	-	0	-	-	2,940	-	-
AUD/USD MONDAY OPTION W	0	-	-	85	-	-	0	-	-	2,426	-	-
AUD/USD MONDAY OPTION W	0	-	-	0	-	-	0	-	-	798	-	-
AUD/USD MONTHLY OPTIONS	0	0	0.0%	42,698	67,768	-37.0%	0	20	-100.0%	820,989	824,517	-0.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	561	0	0.0%	0	0	0.0%	6,144	21,655	-71.6%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,317	10,029	-76.9%	0	0	0.0%	43,661	72,030	-39.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,643	8,797	-70.0%	0	0	0.0%	41,552	77,735	-46.5%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,346	4,241	-68.3%	0	0	0.0%	44,598	76,112	-41.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	271	61	344.3%	0	0	0.0%	17,592	19,909	-11.6%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	521	1,169	-55.4%	0	0	0.0%	14,388	19,547	-26.4%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	908	2,087	-56.5%	0	0	0.0%	17,114	20,747	-17.5%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	842	484	74.0%	0	0	0.0%	9,324	9,331	-0.1%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,261	506	149.2%	0	0	0.0%	16,586	15,839	4.7%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	912	0	0.0%	0	0	0.0%	6,603	5,187	27.3%
BRITISH POUND (EU)	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	22	0	0.0%	0	0	0.0%	707	1,821	-61.2%
CAD/USD MONDAY OPTIONS	0	-	-	1,832	-	-	0	-	-	4,997	-	-
CAD/USD MONDAY OPTIONS	0	-	-	100	-	-	0	-	-	2,423	-	-
CAD/USD MONDAY OPTIONS	0	-	-	130	-	-	0	-	-	8,954	-	-
CAD/USD MONDAY OPTIONS	0	-	-	600	-	-	0	-	-	5,872	-	-
CAD/USD MONDAY OPTIONS	0	-	-	0	-	-	0	-	-	3,435	-	-
CAD/USD MONTHLY OPTIONS	0	75	-100.0%	38,493	48,277	-20.3%	430	1,389	-69.0%	546,118	623,350	-12.4%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,977	0	0.0%	0	0	0.0%	15,410	36,274	-57.5%

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## CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2020	Open Outcry DEC 2019	% CHG	ELEC DEC 2020	ELEC DEC 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>FX Options</b>												
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,763	12,761	-70.5%	0	10	-100.0%	70,979	82,750	-14.2%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,222	12,822	-35.9%	0	0	0.0%	77,625	113,052	-31.3%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,348	11,402	-61.9%	0	0	0.0%	80,464	121,390	-33.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	322	684	-52.9%	0	0	0.0%	30,635	36,908	-17.0%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,531	102	1,401.0%	0	0	0.0%	25,598	33,792	-24.2%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	464	3,972	-88.3%	0	0	0.0%	18,412	40,528	-54.6%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	815	3,939	-79.3%	0	0	0.0%	21,090	36,726	-42.6%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	920	3,627	-74.6%	0	0	0.0%	26,241	34,789	-24.6%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,299	0	0.0%	0	0	0.0%	9,498	10,464	-9.2%
CANADIAN DOLLAR (EU)	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	2,435	6,137	-60.3%	0	0	0.0%	42,706	38,058	12.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	22	0	0.0%	0	0	0.0%	161	186	-13.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	9	173	-94.8%	0	0	0.0%	2,252	2,935	-23.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	59	376	-84.3%	0	0	0.0%	1,354	2,210	-38.7%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	7	285	-97.5%	0	0	0.0%	1,456	1,824	-20.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,824	613	197.6%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	74	-100.0%
EUR/GBP WKLY FRIDAY OPTIC	0	-	-	0	-	-	0	-	-	0	-	-
EUR/JPY MONTHLY OPTIONS	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
EURO FX (EU)	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
EUR/USD MONDAY OPTION W	0	-	-	3,964	-	-	0	-	-	22,580	-	-
EUR/USD MONDAY OPTION W	0	-	-	4,292	-	-	0	-	-	20,278	-	-
EUR/USD MONDAY OPTION W	0	-	-	5,190	-	-	0	-	-	25,144	-	-
EUR/USD MONDAY OPTION W	0	-	-	751	-	-	0	-	-	21,849	-	-
EUR/USD MONDAY OPTION W	0	-	-	0	-	-	0	-	-	9,785	-	-
EUR/USD MONTHLY OPTIONS	0	180	-100.0%	190,734	223,059	-14.5%	1,550	9,661	-84.0%	3,163,220	4,042,596	-21.8%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	6,339	0	0.0%	0	0	0.0%	35,651	110,935	-67.9%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	15,001	38,347	-60.9%	62	15	313.3%	219,335	306,968	-28.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	19,530	26,131	-25.3%	0	0	0.0%	237,509	342,894	-30.7%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	10,067	15,683	-35.8%	0	0	0.0%	246,398	379,256	-35.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	521	123	323.6%	0	0	0.0%	79,407	99,721	-20.4%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,589	12,274	-54.5%	0	0	0.0%	112,744	151,020	-25.3%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	7,992	12,935	-38.2%	0	0	0.0%	94,497	146,874	-35.7%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	11,036	12,251	-9.9%	0	0	0.0%	96,784	147,505	-34.4%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	9,479	9,731	-2.6%	0	0	0.0%	93,022	159,900	-41.8%

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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%	9,881	0	0.0%	0	0	0.0%	44,031	39,185	12.4%
GBP/USD MONDAY OPTION W	0	-	-	5,169	-	-	0	-	-	11,806	-	-
GBP/USD MONDAY OPTION W	0	-	-	464	-	-	0	-	-	5,536	-	-
GBP/USD MONDAY OPTION W	0	-	-	431	-	-	0	-	-	9,670	-	-
GBP/USD MONDAY OPTION W	0	-	-	456	-	-	0	-	-	12,508	-	-
GBP/USD MONDAY OPTION W	0	-	-	0	-	-	0	-	-	1,814	-	-
GBP/USD MONTHLY OPTIONS	0	12	-100.0%	116,741	142,545	-18.1%	64	918	-93.0%	1,055,950	1,468,725	-28.1%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,989	0	0.0%	0	0	0.0%	11,476	29,987	-61.7%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,744	14,703	-81.3%	0	36	-100.0%	40,809	80,173	-49.1%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,985	8,969	0.2%	0	0	0.0%	52,773	101,854	-48.2%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,679	3,706	-0.7%	0	0	0.0%	39,756	92,305	-56.9%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	4	25	-84.0%	0	0	0.0%	16,266	29,326	-44.5%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	15	1,049	-98.6%	0	0	0.0%	19,135	24,094	-20.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,930	4,188	-53.9%	0	0	0.0%	13,484	31,716	-57.5%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	634	1,724	-63.2%	0	0	0.0%	18,835	28,143	-33.1%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	2,401	1,521	57.9%	0	0	0.0%	15,498	25,104	-38.3%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	481	0	0.0%	0	0	0.0%	7,661	8,595	-10.9%
JAPANESE YEN (EU)	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
JPY/USD MONDAY OPTION WE	0	-	-	954	-	-	0	-	-	9,849	-	-
JPY/USD MONDAY OPTION WE	0	-	-	734	-	-	0	-	-	13,803	-	-
JPY/USD MONDAY OPTION WE	0	-	-	465	-	-	0	-	-	8,833	-	-
JPY/USD MONDAY OPTION WE	0	-	-	604	-	-	0	-	-	7,805	-	-
JPY/USD MONDAY OPTION WE	0	-	-	0	-	-	0	-	-	2,939	-	-
JPY/USD MONTHLY OPTIONS	0	15	-100.0%	50,860	91,869	-44.6%	727	222	227.5%	1,301,048	1,611,359	-19.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	3,033	0	0.0%	0	0	0.0%	20,175	56,218	-64.1%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	6,680	18,550	-64.0%	0	0	0.0%	122,980	121,980	0.8%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	12,903	12,053	7.1%	0	0	0.0%	141,745	167,079	-15.2%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	5,984	8,172	-26.8%	0	0	0.0%	128,713	153,884	-16.4%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	374	89	320.2%	0	0	0.0%	48,416	59,282	-18.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	638	4,911	-87.0%	0	0	0.0%	54,310	55,084	-1.4%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,213	5,953	-62.8%	0	0	0.0%	44,377	52,024	-14.7%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	1,532	2,944	-48.0%	0	0	0.0%	50,968	50,300	1.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,245	2,537	27.9%	0	0	0.0%	54,952	49,078	12.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	843	0	0.0%	0	0	0.0%	13,261	10,637	24.7%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	397	720	-44.9%	1,840	1,145	60.7%	17,641	15,519	13.7%

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<b>FX Options</b>												
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	4,413	1,200	267.8%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	486	0	0.0%	0	0	0.0%	3,274	528	520.1%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	2,174	1,350	61.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	3,159	530	496.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	152	28	442.9%
NZD/USD MONTHLY OPTIONS	0	0	0.0%	19	1,439	-98.7%	0	0	0.0%	4,984	9,173	-45.7%
NZD/USD WKLY FRIDAY OPTIO	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	2	-100.0%	0	0	0.0%	50	172	-70.9%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	200	-100.0%	0	0	0.0%	0	506	-100.0%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	200	-100.0%	0	0	0.0%	375	950	-60.5%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	100	-100.0%
RUB/USD MONTHLY OPTIONS	0	-	-	67	-	-	0	-	-	636	-	-
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	0	0.0%	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%	373	936	-60.1%	0	0	0.0%	7,831	9,855	-20.5%

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<b>Ag Products Futures</b>												
BUTTER CS	0	0	0.0%	5,687	5,141	10.6%	0	0	0.0%	64,989	51,967	25.1%
CASH-SETTLED CHEESE	0	0	0.0%	15,912	12,513	27.2%	0	0	0.0%	161,686	132,192	22.3%
CAT ASIA WEATHER	0	-	-	0	-	-	0	-	-	0	-	-
CATTLE	0	373	-100.0%	902,081	964,504	-6.5%	2,592	12,679	-79.6%	16,097,985	16,677,982	-3.5%
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%	50	25	100.0%
CLASS IV MILK	0	0	0.0%	602	2,086	-71.1%	65	158	-58.9%	22,833	26,279	-13.1%
DRY WHEY	0	0	0.0%	2,762	1,324	108.6%	0	0	0.0%	18,662	15,013	24.3%
FEEDER CATTLE	0	11	-100.0%	245,495	243,791	0.7%	54	216	-75.0%	3,224,391	3,606,565	-10.6%
GOLDMAN SACHS	0	0	0.0%	12,797	20,392	-37.2%	0	0	0.0%	174,903	327,866	-46.7%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.0%	0	0	0.0%	85	421	-79.8%
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%	25	0	0.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HOGS	0	841	-100.0%	682,777	885,478	-22.9%	1,940	17,982	-89.2%	12,372,698	15,579,823	-20.6%
HOUSING INDEX	0	0	0.0%	6	6	0.0%	0	0	0.0%	270	148	82.4%
LUMBER	0	0	0.0%	14,025	11,805	18.8%	0	0	0.0%	155,138	161,985	-4.2%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
MILK	0	105	-100.0%	36,974	33,241	11.2%	59	461	-87.2%	422,799	332,466	27.2%
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%	4,593	6,328	-27.4%	0	19	-100.0%	88,611	73,618	20.4%
PACIFIC RIM DAT SS WTHR	0	-	-	0	-	-	0	-	-	0	-	-
PORK CUTOUT	0	-	-	2,056	-	-	0	-	-	4,423	-	-
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>												
BUTTER CS	0	20	-100.0%	2,246	1,609	39.6%	212	4,966	-95.7%	32,781	30,693	6.8%
CASH-SETTLED CHEESE	0	2,701	-100.0%	11,345	8,000	41.8%	7,734	20,288	-61.9%	138,662	93,514	48.3%
CATTLE	0	13,063	-100.0%	174,494	127,696	36.6%	59,913	283,343	-78.9%	2,599,917	2,129,473	22.1%
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%
CLASS IV MILK	0	0	0.0%	1,446	2,391	-39.5%	1,082	3,605	-70.0%	46,839	36,367	28.8%
DRY WHEY	0	2	-100.0%	519	160	224.4%	119	749	-84.1%	5,824	7,366	-20.9%
FEEDER CATTLE	0	383	-100.0%	18,508	16,928	9.3%	4,252	21,210	-80.0%	293,646	320,378	-8.3%
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	14,168	-100.0%	114,121	232,533	-50.9%	34,430	335,399	-89.7%	2,886,738	3,838,920	-24.8%
HOUSING INDEX	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	7	-100.0%
LUMBER	0	0	0.0%	1,011	1,058	-4.4%	0	70	-100.0%	10,497	19,830	-47.1%
LV CATL CSO	0	40	-100.0%	0	0	0.0%	0	589	-100.0%	0	0	0.0%
MILK	0	1,534	-100.0%	31,080	35,203	-11.7%	3,323	24,600	-86.5%	525,467	430,868	22.0%
MLK MID OPTIONS	0	15	-100.0%	12	0	0.0%	31	50	-38.0%	105	194	-45.9%
NFD MILK	0	58	-100.0%	2,590	2,434	6.4%	494	2,116	-76.7%	69,872	57,583	21.3%
PORK CUTOUT	0	-	-	178	-	-	0	-	-	181	-	-
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	137,810	328,168	-58.0%	32,029,952	36,625,451	-12.5%	3,277,668	8,292,595	-60.5%	513,306,563	678,939,438	-24.4%
Equity Index Futures	0	45,694	-100.0%	84,922,022	56,302,927	50.8%	33,712	271,389	-87.6%	1,147,685,047	643,164,834	78.4%
FX Futures	0	3	-100.0%	20,895,320	20,227,664	3.3%	36	71	-49.3%	206,382,606	202,429,612	2.0%
Foreign Exchange Futures	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Ag Products Futures	0	1,330	-100.0%	1,925,767	2,186,609	-11.9%	4,710	31,515	-85.1%	32,809,548	36,986,350	-11.3%
<b>TOTAL FUTURES</b>	<b>137,810</b>	<b>375,195</b>	<b>-63.3%</b>	<b>139,773,061</b>	<b>115,342,651</b>	<b>21.2%</b>	<b>3,316,126</b>	<b>8,595,570</b>	<b>-61.4%</b>	<b>1,900,183,764</b>	<b>1,561,520,234</b>	<b>21.7%</b>

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## CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2020	Open Outcry DEC 2019	% CHG	ELEC DEC 2020	ELEC DEC 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	0	798,614	-100.0%	10,745,378	13,162,466	-18.4%	1,658,011	8,217,524	-79.8%	175,661,763	154,003,520	14.1%
Interest Rate Options	4,941,966	9,733,103	-49.2%	3,296,375	10,036,116	-67.2%	84,683,313	228,196,524	-62.9%	157,025,320	156,132,648	0.6%
FX Options	0	282	-100.0%	663,126	878,302	-24.5%	4,673	13,416	-65.2%	9,966,294	12,644,210	-21.2%
Ag Products Options	0	31,984	-100.0%	357,550	428,012	-16.5%	111,590	696,985	-84.0%	6,610,529	6,965,193	-5.1%
Foreign Exchange Options	0	0	0.0%	373	936	-60.1%	0	0	0.0%	7,831	9,855	-20.5%
<b>TOTAL OPTIONS</b>	<b>4,941,966</b>	<b>10,563,983</b>	<b>-53.2%</b>	<b>15,062,802</b>	<b>24,505,832</b>	<b>-38.5%</b>	<b>86,457,587</b>	<b>237,124,449</b>	<b>-63.5%</b>	<b>349,271,737</b>	<b>329,755,426</b>	<b>5.9%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	5,079,776	10,061,271	-49.5%	35,326,327	46,661,567	-24.3%	87,960,981	236,489,119	-62.8%	670,331,883	835,072,086	-19.7%
Equity Index	0	844,308	-100.0%	95,667,400	69,465,393	37.7%	1,691,723	8,488,913	-80.1%	1,323,346,810	797,168,354	66.0%
FX	0	285	-100.0%	21,558,446	21,105,966	2.1%	4,709	13,487	-65.1%	216,348,900	215,073,822	0.6%
Foreign Exchange	0	0	0.0%	373	936	-60.1%	0	0	0.0%	7,831	9,855	-20.5%
Ag Products	0	33,314	-100.0%	2,283,317	2,614,621	-12.7%	116,300	728,500	-84.0%	39,420,077	43,951,543	-10.3%
<b>GRAND TOTAL</b>	<b>5,079,776</b>	<b>10,939,178</b>	<b>-53.6%</b>	<b>154,835,863</b>	<b>139,848,483</b>	<b>10.7%</b>	<b>89,773,713</b>	<b>245,720,019</b>	<b>-63.5%</b>	<b>2,249,455,501</b>	<b>1,891,275,660</b>	<b>18.9%</b>

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