

CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Interest Rate Futures												
1-MONTH EURODOLLAR	0	0	0.0%	1	595	-99.8%	0	0	0.0%	451	31,937	-98.6%
EURODOLLARS	328,168	619,962	-47.1%	35,731,416	70,723,083	-49.5%	8,292,595	9,289,882	-10.7%	668,153,568	743,785,327	-10.2%
SOFR	0	0	0.0%	697,447	274,162	154.4%	0	0	0.0%	8,572,639	1,050,064	716.4%
SONIA	0	0	0.0%	196,587	112,287	75.1%	0	0	0.0%	2,212,780	298,611	641.0%
Interest Rate Options												
EURODOLLARS	6,846,949	8,450,205	-19.0%	7,690,449	4,724,306	62.8%	154,702,821	105,779,959	46.2%	97,008,097	54,216,247	78.9%
EURO MIDCURVE	2,886,154	8,543,713	-66.2%	2,345,667	4,926,969	-52.4%	73,493,703	106,131,436	-30.8%	59,124,551	64,765,997	-8.7%
Equity Index Futures												
BITCOIN FUTURES	0	0	0.0%	109,747	80,055	37.1%	0	0	0.0%	1,603,527	922,957	73.7%
E-MINI COM SERVICES SELEC	0	0	0.0%	2,915	13,281	-78.1%	0	0	0.0%	29,583	20,198	46.5%
E-mini FTSE 100 (USD)	0	0	0.0%	0	748	-100.0%	0	0	0.0%	336	16,286	-97.9%
E-mini FTSE China 50	0	0	0.0%	0	1,038	-100.0%	0	0	0.0%	711	12,287	-94.2%
E-MINI MIDCAP	0	0	0.0%	459,981	605,951	-24.1%	0	0	0.0%	3,997,512	4,783,212	-16.4%
E-MINI NASDAQ 100	0	0	0.0%	8,162,283	14,580,088	-44.0%	0	0	0.0%	114,678,323	123,516,402	-7.2%
E-MINI RUSSELL 1000	0	0	0.0%	3,654	10,648	-65.7%	0	0	0.0%	40,453	106,925	-62.2%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	8,426	7,519	12.1%	0	0	0.0%	44,466	93,846	-52.6%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	13,608	15,290	-11.0%	0	0	0.0%	89,793	121,408	-26.0%
E-MINI RUSSELL 2000	0	0	0.0%	3,396,583	4,832,933	-29.7%	0	0	0.0%	36,160,849	36,976,096	-2.2%
E-MINI S&P500	0	0	0.0%	34,862,801	52,762,929	-33.9%	0	0	0.0%	392,743,727	441,659,466	-11.1%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	5,138	7,771	-33.9%	0	0	0.0%	47,407	45,708	3.7%
FT-SE 100	0	0	0.0%	0	989	-100.0%	0	0	0.0%	372	14,801	-97.5%
FTSE Emerging	0	0	0.0%	2,010	3,528	-43.0%	0	0	0.0%	25,224	11,558	118.2%
IBOVESPA INDEX	0	0	0.0%	601	673	-10.7%	0	0	0.0%	8,239	12,148	-32.2%
MICRO E-MINI NASDAQ 100	0	-	-	3,168,178	-	-	0	-	-	31,750,965	-	-
MICRO E-MINI RUSSELL 2000	0	-	-	554,646	-	-	0	-	-	5,004,928	-	-
MICRO E-MINI S&P500	0	-	-	4,328,000	-	-	0	-	-	43,076,456	-	-
NASDAQ BIOTECH	0	0	0.0%	322	0	0.0%	0	0	0.0%	4,065	0	0.0%
Nearby BTIC+	0	-	-	0	-	-	0	-	-	34	-	-
NIFTY 50	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	54,444	-100.0%

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Equity Index Futures												
NIKKEI 225 (\$) STOCK	0	0	0.0%	238,701	367,761	-35.1%	0	0	0.0%	2,612,179	3,790,647	-31.1%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	814,864	1,141,049	-28.6%	318	0	0.0%	9,721,438	10,959,790	-11.3%
S&P 500	45,694	62,484	-26.9%	324	4,170	-92.2%	271,071	488,281	-44.5%	17,111	53,261	-67.9%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	10,329	9,359	10.4%	0	0	0.0%	112,853	62,410	80.8%
S&P 500/GI	0	0	0.0%	12	20	-40.0%	0	0	0.0%	72	93	-22.6%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	50	100	-50.0%	0	0	0.0%	2,067	1,002	106.3%
S&P 600 SMALLCAP EMINI	0	0	0.0%	0	0	0.0%	0	0	0.0%	17	1	1,600.0%
S&P CONSUMER DSCRTNRY S	0	0	0.0%	9,561	14,737	-35.1%	0	0	0.0%	80,969	188,403	-57.0%
S&P CONSUMER STAPLES SE	0	0	0.0%	16,146	50,811	-68.2%	0	0	0.0%	124,841	208,891	-40.2%
S&P ENERGY SECTOR	0	0	0.0%	21,937	48,434	-54.7%	0	0	0.0%	143,279	286,037	-49.9%
S&P FINANCIAL SECTOR	0	0	0.0%	25,541	52,646	-51.5%	0	0	0.0%	214,556	393,072	-45.4%
S&P HEALTH CARE SECTOR	0	0	0.0%	16,644	58,710	-71.7%	0	0	0.0%	134,124	222,356	-39.7%
S&P INDUSTRIAL SECTOR	0	0	0.0%	17,459	46,680	-62.6%	0	0	0.0%	103,329	192,340	-46.3%
S&P MATERIALS SECTOR	0	0	0.0%	7,598	20,058	-62.1%	0	0	0.0%	67,650	114,069	-40.7%
S&P TECHNOLOGY SECTOR	0	0	0.0%	13,422	85,286	-84.3%	0	0	0.0%	116,903	399,766	-70.8%
S&P UTILITIES SECTOR	0	0	0.0%	19,242	39,170	-50.9%	0	0	0.0%	186,452	317,902	-41.3%
S&P VALUE INDEX FUTURES	0	0	0.0%	16	24	-33.3%	0	0	0.0%	88	104	-15.4%
YEN DENOMINATED TOPIX	0	0	0.0%	12,188	7,631	59.7%	0	0	0.0%	219,936	13,365	1,545.6%

CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Equity Index Options												
E-MINI NASDAQ 100	0	0	0.0%	176,277	195,152	-9.7%	0	0	0.0%	2,394,963	2,878,414	-16.8%
E-MINI RUSSELL 2000	0	0	0.0%	16,248	10,319	57.5%	0	0	0.0%	195,003	153,575	27.0%
E-MINI S&P500	0	0	0.0%	6,351,055	8,289,340	-23.4%	600	14,660	-95.9%	66,318,944	73,350,074	-9.6%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	4,114	3,019	36.3%	0	0	0.0%	99,644	77,407	28.7%
EOM EMINI S&P	0	0	0.0%	1,666,065	2,198,100	-24.2%	0	0	0.0%	22,735,455	31,194,081	-27.1%
EOM S&P 500	105,822	178,063	-40.6%	0	0	0.0%	1,392,835	2,168,061	-35.8%	0	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	1,415	1,292	9.5%	0	0	0.0%	18,069	23,913	-24.4%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	1,994	1,835	8.7%	0	0	0.0%	23,400	29,895	-21.7%
EOW1 EMINI S&P 500	0	0	0.0%	1,222,185	1,682,057	-27.3%	0	0	0.0%	11,898,800	14,069,450	-15.4%
EOW1 S&P 500	119,582	130,946	-8.7%	0	0	0.0%	927,803	1,009,555	-8.1%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	3,706	4,504	-17.7%	0	0	0.0%	57,981	59,808	-3.1%
EOW2 EMINI S&P 500	0	0	0.0%	1,238,813	1,503,724	-17.6%	0	0	0.0%	12,211,898	15,832,156	-22.9%
EOW2 S&P 500	182,781	290,407	-37.1%	0	0	0.0%	1,610,480	2,011,224	-19.9%	0	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	15,383	6,926	122.1%	0	0	0.0%	181,234	214,429	-15.5%
EOW3 EMINI S&P 500	0	0	0.0%	1,615,799	2,850,668	-43.3%	0	0	0.0%	27,486,266	43,285,692	-36.5%
EOW3 S&P 500	40,045	110,937	-63.9%	0	0	0.0%	1,407,823	3,079,428	-54.3%	0	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	3,468	2,853	21.6%	0	0	0.0%	39,182	60,829	-35.6%
EOW4 EMINI S&P 500	0	0	0.0%	845,944	1,490,642	-43.2%	0	0	0.0%	10,342,681	13,910,378	-25.6%
S&P 500	350,384	510,200	-31.3%	0	0	0.0%	2,877,983	3,955,748	-27.2%	0	0	0.0%
FX Futures												
AD/CD CROSS RATES	0	0	0.0%	28	1	2,700.0%	0	0	0.0%	176	56	214.3%
AD/JY CROSS RATES	0	0	0.0%	2,528	3,978	-36.5%	0	0	0.0%	30,191	49,499	-39.0%
AD/NE CROSS RATES	0	0	0.0%	247	103	139.8%	0	0	0.0%	1,913	898	113.0%
AUSTRALIAN DOLLAR	0	0	0.0%	2,318,055	2,130,362	8.8%	0	0	0.0%	25,140,801	27,898,666	-9.9%
BDI	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
BP/JY CROSS RATES	0	0	0.0%	4,256	2,873	48.1%	0	0	0.0%	37,075	35,632	4.0%
BP/SF CROSS RATES	0	0	0.0%	315	129	144.2%	0	0	0.0%	4,652	3,982	16.8%
BRAZIL REAL	0	0	0.0%	164,321	75,352	118.1%	0	0	0.0%	1,670,698	1,185,543	40.9%
BRITISH POUND	0	4	-100.0%	3,209,704	2,532,253	26.8%	3	14	-78.6%	30,386,352	32,297,331	-5.9%
CANADIAN DOLLAR	0	0	0.0%	1,924,958	1,978,823	-2.7%	3	45	-93.3%	19,924,660	20,933,526	-4.8%
CD/JY CROSS RATES	0	0	0.0%	47	100	-53.0%	0	0	0.0%	187	1,049	-82.2%
CHINESE RENMINBI (CNH)	0	0	0.0%	19,945	18,953	5.2%	0	0	0.0%	329,043	117,390	180.3%

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
FX Futures												
CZECK KORUNA (EC)	0	0	0.0%	12	0	0.0%	0	0	0.0%	42	8	425.0%
CZECK KORUNA (US)	0	0	0.0%	0	3	-100.0%	0	0	0.0%	0	18	-100.0%
EC/AD CROSS RATES	0	0	0.0%	7,169	6,977	2.8%	0	0	0.0%	56,748	27,892	103.5%
EC/CD CROSS RATES	0	0	0.0%	8,839	8,092	9.2%	0	0	0.0%	41,721	41,167	1.3%
EC/NOK CROSS RATES	0	0	0.0%	777	275	182.5%	0	0	0.0%	6,359	4,440	43.2%
EC/SEK CROSS RATES	0	0	0.0%	1,994	1,726	15.5%	0	0	0.0%	8,926	9,816	-9.1%
EFX/BP CROSS RATES	0	0	0.0%	124,935	116,309	7.4%	0	0	0.0%	1,141,308	990,009	15.3%
EFX/JY CROSS RATES	0	0	0.0%	110,144	103,848	6.1%	0	0	0.0%	837,259	949,458	-11.8%
EFX/SF CROSS RATES	0	0	0.0%	40,936	41,137	-0.5%	0	0	0.0%	410,240	354,750	15.6%
E-MINI EURO FX	0	0	0.0%	96,532	102,290	-5.6%	0	0	0.0%	1,101,614	1,223,766	-10.0%
E-MINI JAPANESE YEN	0	0	0.0%	12,383	21,982	-43.7%	0	0	0.0%	203,855	162,963	25.1%
EURO FX	3	0	0.0%	5,707,184	5,183,197	10.1%	63	544	-88.4%	52,183,713	68,087,111	-23.4%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	3	0	0.0%	0	0	0.0%	19	0	0.0%
INDIAN RUPEE	0	0	0.0%	29,596	78,320	-62.2%	0	0	0.0%	745,211	1,089,106	-31.6%
JAPANESE YEN	0	2	-100.0%	3,060,345	3,287,163	-6.9%	2	113	-98.2%	32,486,852	36,729,517	-11.6%
KOREAN WON	0	0	0.0%	259	373	-30.6%	0	0	0.0%	3,487	3,164	10.2%
MEXICAN PESO	0	0	0.0%	1,322,681	1,377,612	-4.0%	0	0	0.0%	14,884,033	16,819,045	-11.5%
MICRO AUD/USD	0	0	0.0%	76,524	111,221	-31.2%	0	0	0.0%	1,202,640	1,313,037	-8.4%
MICRO CAD/USD	0	0	0.0%	16,511	17,294	-4.5%	0	0	0.0%	201,285	206,791	-2.7%
MICRO CHF/USD	0	0	0.0%	6,929	2,009	244.9%	0	0	0.0%	42,767	18,276	134.0%
MICRO EUR/USD	0	0	0.0%	155,409	285,833	-45.6%	0	0	0.0%	2,640,604	4,323,117	-38.9%
MICRO GBP/USD	0	0	0.0%	63,809	36,417	75.2%	0	0	0.0%	650,407	545,675	19.2%
MICRO INR/USD	0	0	0.0%	3,256	8,109	-59.8%	0	0	0.0%	55,850	62,787	-11.0%
MICRO JPY/USD	0	0	0.0%	15,755	25,860	-39.1%	0	0	0.0%	318,376	356,863	-10.8%
NEW ZEALND DOLLAR	0	0	0.0%	678,529	592,062	14.6%	0	0	0.0%	6,926,248	7,488,787	-7.5%
NKR/USD CROSS RATE	0	0	0.0%	9,702	5,384	80.2%	0	0	0.0%	60,852	58,013	4.9%
POLISH ZLOTY (EC)	0	0	0.0%	2	24	-91.7%	0	0	0.0%	454	232	95.7%
POLISH ZLOTY (US)	0	0	0.0%	285	88	223.9%	0	0	0.0%	1,663	1,022	62.7%
RMB USD	0	0	0.0%	1	0	0.0%	0	0	0.0%	10	25	-60.0%
RUSSIAN RUBLE	0	0	0.0%	142,169	88,721	60.2%	0	0	0.0%	891,411	657,473	35.6%
S.AFRICAN RAND	0	0	0.0%	85,438	51,619	65.5%	0	0	0.0%	651,212	548,677	18.7%
SF/JY CROSS RATES	0	0	0.0%	25	0	0.0%	0	0	0.0%	60	7	757.1%
SHEKEL	0	0	0.0%	20	0	0.0%	0	0	0.0%	40	0	0.0%
SKR/USD CROSS RATES	0	0	0.0%	7,187	5,753	24.9%	0	0	0.0%	37,061	54,006	-31.4%

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
FX Futures												
SWISS FRANC	0	0	0.0%	797,905	645,963	23.5%	0	0	0.0%	7,111,423	7,122,193	-0.2%
TURKISH LIRA	0	0	0.0%	15	0	0.0%	0	0	0.0%	94	10	840.0%
USDZAR	0	0	0.0%	0	0	0.0%	0	0	0.0%	20	15	33.3%
FX Options												
AUD/USD MONTHLY OPTIONS	0	0	0.0%	67,768	72,396	-6.4%	20	600	-96.7%	824,517	997,766	-17.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	0	0.0%	0	0	0.0%	21,655	44,288	-51.1%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	10,029	8,808	13.9%	0	0	0.0%	72,030	82,783	-13.0%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,797	11,297	-22.1%	0	0	0.0%	77,735	119,584	-35.0%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,241	5,111	-17.0%	0	0	0.0%	76,112	116,958	-34.9%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	61	0	0.0%	0	0	0.0%	19,909	33,662	-40.9%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,169	2,781	-58.0%	0	0	0.0%	19,547	38,584	-49.3%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	2,087	1,973	5.8%	0	0	0.0%	20,747	28,334	-26.8%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	484	1,645	-70.6%	0	0	0.0%	9,331	15,227	-38.7%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	506	802	-36.9%	0	0	0.0%	15,839	23,903	-33.7%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	5,187	8,973	-42.2%
AUSTRALIAN DLR (EU)	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
AUSTRALIAN DOLLAR	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
BRITISH POUND	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
BRITISH POUND (EU)	0	0	0.0%	0	1	-100.0%	0	0	0.0%	0	280	-100.0%
BRL/USD MONTHLY OPTIONS	0	-	-	0	-	-	0	-	-	1,821	-	-
CAD/USD MONTHLY OPTIONS	75	40	87.5%	48,277	63,053	-23.4%	1,389	3,080	-54.9%	623,350	982,277	-36.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	100	-100.0%	0	0	0.0%	36,274	65,316	-44.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	12,761	15,278	-16.5%	10	0	0.0%	82,750	144,128	-42.6%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	12,822	9,441	35.8%	0	0	0.0%	113,052	196,718	-42.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	11,402	9,588	18.9%	0	0	0.0%	121,390	192,195	-36.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	684	0	0.0%	0	0	0.0%	36,908	64,247	-42.6%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	102	3,081	-96.7%	0	0	0.0%	33,792	38,687	-12.7%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	3,972	1,581	151.2%	0	0	0.0%	40,528	39,293	3.1%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	3,939	5,619	-29.9%	0	0	0.0%	36,726	52,980	-30.7%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	3,627	123	2,848.8%	0	0	0.0%	34,789	43,589	-20.2%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	10,464	20,940	-50.0%
CANADIAN DOLLAR	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
CANADIAN DOLLAR (EU)	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	63	-100.0%

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
FX Options												
CHF/USD MONTHLY OPTIONS	0	0	0.0%	6,137	778	688.8%	0	0	0.0%	38,058	26,086	45.9%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.0%	0	0	0.0%	186	222	-16.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	173	3	5,666.7%	0	0	0.0%	2,935	759	286.7%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	376	19	1,878.9%	0	0	0.0%	2,210	939	135.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	285	0	0.0%	0	0	0.0%	1,824	1,801	1.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.0%	0	0	0.0%	613	712	-13.9%
EUR/GBP MONTHLY OPTIONS	0	-	-	0	-	-	0	-	-	74	-	-
EUR/JPY MONTHLY OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
EURO FX	-	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%	0	59	-100.0%
EUR/USD MONTHLY OPTIONS	180	990	-81.8%	223,059	326,861	-31.8%	9,661	14,214	-32.0%	4,042,596	5,899,875	-31.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	13	-100.0%	0	80	-100.0%	110,935	278,972	-60.2%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	38,347	53,682	-28.6%	15	0	0.0%	306,968	399,313	-23.1%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	26,131	73,567	-64.5%	0	1,800	-100.0%	342,894	618,073	-44.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	15,683	32,914	-52.4%	0	750	-100.0%	379,256	581,766	-34.8%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	123	0	0.0%	0	0	0.0%	99,721	153,317	-35.0%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	12,274	14,429	-14.9%	0	0	0.0%	151,020	156,624	-3.6%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	12,935	16,818	-23.1%	0	0	0.0%	146,874	154,743	-5.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	12,251	11,930	2.7%	0	0	0.0%	147,505	140,774	4.8%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	9,731	9,249	5.2%	0	0	0.0%	159,900	156,219	2.4%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	39,185	66,146	-40.8%
GBP/USD MONTHLY OPTIONS	12	75	-84.0%	142,545	137,958	3.3%	918	957	-4.1%	1,468,725	2,156,327	-31.9%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	70	-100.0%	0	0	0.0%	29,987	71,600	-58.1%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	14,703	19,687	-25.3%	36	0	0.0%	80,173	155,114	-48.3%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,969	11,625	-22.8%	0	30	-100.0%	101,854	225,284	-54.8%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,706	6,060	-38.8%	0	0	0.0%	92,305	221,539	-58.3%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	25	0	0.0%	0	0	0.0%	29,326	51,741	-43.3%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,049	3,297	-68.2%	0	0	0.0%	24,094	42,723	-43.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	4,188	6,921	-39.5%	0	0	0.0%	31,716	57,676	-45.0%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,724	2,777	-37.9%	0	0	0.0%	28,143	59,410	-52.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,521	2,106	-27.8%	0	0	0.0%	25,104	49,493	-49.3%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	8,595	33,084	-74.0%
JAPANESE YEN	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
JAPANESE YEN (EU)	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
JPY/USD MONTHLY OPTIONS	15	38	-60.5%	91,869	150,687	-39.0%	222	4,523	-95.1%	1,611,359	1,966,759	-18.1%

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
FX Options												
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.0%	0	0	0.0%	56,218	91,683	-38.7%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	18,550	22,771	-18.5%	0	0	0.0%	121,980	182,204	-33.1%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	12,053	30,445	-60.4%	0	0	0.0%	167,079	266,754	-37.4%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	8,172	16,731	-51.2%	0	0	0.0%	153,884	254,835	-39.6%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	89	0	0.0%	0	0	0.0%	59,282	61,599	-3.8%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,911	5,134	-4.3%	0	0	0.0%	55,084	53,319	3.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	5,953	5,097	16.8%	0	0	0.0%	52,024	56,973	-8.7%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,944	3,410	-13.7%	0	0	0.0%	50,300	47,348	6.2%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,537	6,396	-60.3%	0	0	0.0%	49,078	57,259	-14.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	10,637	22,991	-53.7%
MXN/USD MONTHLY OPTIONS	0	300	-100.0%	720	1,217	-40.8%	1,145	6,418	-82.2%	15,519	16,670	-6.9%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,200	0	0.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	528	205	157.6%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,350	286	372.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	530	632	-16.1%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	28	0	0.0%
NZD/USD MONTHLY OPTIONS	0	0	0.0%	1,439	17	8,364.7%	0	0	0.0%	9,173	1,049	774.5%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	1	-100.0%
NZD/USD WKLY FRIDAY OPTIO	0	-	-	2	-	-	0	-	-	172	-	-
NZD/USD WKLY FRIDAY OPTIO	0	-	-	200	-	-	0	-	-	506	-	-
NZD/USD WKLY FRIDAY OPTIO	0	-	-	200	-	-	0	-	-	950	-	-
NZD/USD WKLY FRIDAY OPTIO	0	-	-	0	-	-	0	-	-	100	-	-
SWISS FRANC	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
SWISS FRANC (EU)	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
Foreign Exchange Futures												
CHILEAN PESO	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	12,942	-100.0%
Foreign Exchange Options												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	936	2,615	-64.2%	0	0	0.0%	9,855	12,296	-19.9%

CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Ag Products Futures												
BUTTER CS	0	0	0.0%	5,141	4,423	16.2%	0	0	0.0%	51,967	51,424	1.1%
CASH-SETTLED CHEESE	0	0	0.0%	12,513	14,481	-13.6%	0	0	0.0%	132,192	134,740	-1.9%
CATTLE	373	848	-56.0%	964,504	1,119,135	-13.8%	12,679	13,819	-8.2%	16,677,982	16,413,365	1.6%
CAT WEATHER EUROPEAN	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%	25	0	0.0%
CLASS IV MILK	0	21	-100.0%	2,086	2,354	-11.4%	158	24	558.3%	26,279	10,772	144.0%
DRY WHEY	0	0	0.0%	1,324	1,230	7.6%	0	0	0.0%	15,013	16,589	-9.5%
FEEDER CATTLE	11	0	0.0%	243,791	231,572	5.3%	216	38	468.4%	3,606,565	3,528,525	2.2%
GOLDMAN SACHS	0	0	0.0%	20,392	31,926	-36.1%	0	0	0.0%	327,866	375,177	-12.6%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	74	-100.0%	0	0	0.0%	421	892	-52.8%
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%	0	55	-100.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HOGS	841	1,006	-16.4%	885,478	752,089	17.7%	17,982	18,217	-1.3%	15,579,823	13,512,546	15.3%
HOUSING INDEX	0	0	0.0%	6	13	-53.8%	0	0	0.0%	148	113	31.0%
LUMBER	0	0	0.0%	11,805	11,518	2.5%	0	0	0.0%	161,985	214,072	-24.3%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
MILK	105	96	9.4%	33,241	28,521	16.5%	461	1,335	-65.5%	332,466	300,265	10.7%
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%	6,328	3,615	75.0%	19	43	-55.8%	73,618	59,297	24.2%
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%



CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
Ag Products Options												
BUTTER CS	20	257	-92.2%	1,609	4,623	-65.2%	4,966	10,969	-54.7%	30,693	37,895	-19.0%
CASH-SETTLED CHEESE	2,701	5,842	-53.8%	8,000	9,714	-17.6%	20,288	36,904	-45.0%	93,514	88,082	6.2%
CATTLE	13,063	17,374	-24.8%	127,696	128,378	-0.5%	283,343	294,978	-3.9%	2,129,473	2,345,635	-9.2%
CAT WEATHER EUROPEAN	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%
CLASS IV MILK	0	186	-100.0%	2,391	2,701	-11.5%	3,605	1,274	183.0%	36,367	14,227	155.6%
DRY WHEY	2	24	-91.7%	160	395	-59.5%	749	1,379	-45.7%	7,366	5,611	31.3%
FEEDER CATTLE	383	1,957	-80.4%	16,928	18,371	-7.9%	21,210	22,116	-4.1%	320,378	316,625	1.2%
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%
HOGS	14,168	22,424	-36.8%	232,533	135,516	71.6%	335,399	326,708	2.7%	3,838,920	2,439,384	57.4%
HOUSING INDEX	0	0	0.0%	0	0	0.0%	0	0	0.0%	7	0	0.0%
LUMBER	0	0	0.0%	1,058	2,070	-48.9%	70	223	-68.6%	19,830	21,334	-7.0%
LV CATL CSO	40	25	60.0%	0	0	0.0%	589	341	72.7%	0	0	0.0%
MILK	1,534	7,850	-80.5%	35,203	32,764	7.4%	24,600	68,857	-64.3%	430,868	359,179	20.0%
MLK MID OPTIONS	15	12	25.0%	0	13	-100.0%	50	443	-88.7%	194	41	373.2%
NFD MILK	58	289	-79.9%	2,434	2,935	-17.1%	2,116	9,405	-77.5%	57,583	48,963	17.6%
TOTAL FUTURES GROUP												
Interest Rate Futures	328,168	619,962	-47.1%	36,625,451	71,110,127	-48.5%	8,292,595	9,289,882	-10.7%	678,939,438	745,165,939	-8.9%
Equity Index Futures	45,694	62,484	-26.9%	56,302,927	74,870,087	-24.8%	271,389	488,281	-44.4%	643,164,834	625,571,251	2.8%
FX Futures	3	6	-50.0%	20,227,664	18,948,588	6.8%	71	716	-90.1%	202,429,612	231,772,808	-12.7%
Foreign Exchange Futures	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	12,942	-100.0%
Ag Products Futures	1,330	1,971	-32.5%	2,186,609	2,200,951	-0.7%	31,515	33,476	-5.9%	36,986,350	34,617,832	6.8%
TOTAL FUTURES	375,195	684,423	-45.2%	115,342,651	167,129,753	-31.0%	8,595,570	9,812,355	-12.4%	1,561,520,234	1,637,140,772	-4.6%

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.

CME Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2019	Open Outcry DEC 2018	% CHG	ELEC DEC 2019	ELEC DEC 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
TOTAL OPTIONS GROUP												
Equity Index Options	798,614	1,220,553	-34.6%	13,162,466	18,240,431	-27.8%	8,217,524	12,238,676	-32.9%	154,003,520	195,140,101	-21.1%
Interest Rate Options	9,733,103	16,993,918	-42.7%	10,036,116	9,651,275	4.0%	228,196,524	211,911,395	7.7%	156,132,648	118,982,244	31.2%
FX Options	282	1,443	-80.5%	878,302	1,185,347	-25.9%	13,416	32,452	-58.7%	12,644,210	18,191,733	-30.5%
Ag Products Options	31,984	56,240	-43.1%	428,012	337,480	26.8%	696,985	773,597	-9.9%	6,965,193	5,676,976	22.7%
Foreign Exchange Options	0	0	0.0%	936	2,615	-64.2%	0	0	0.0%	9,855	12,296	-19.9%
TOTAL OPTIONS	10,563,983	18,272,154	-42.2%	24,505,832	29,417,148	-16.7%	237,124,449	224,956,120	5.4%	329,755,426	338,003,350	-2.4%
TOTAL COMBINED												
Interest Rate	10,061,271	17,613,880	-42.9%	46,661,567	80,761,402	-42.2%	236,489,119	221,201,277	6.9%	835,072,086	864,148,183	-3.4%
Equity Index	844,308	1,283,037	-34.2%	69,465,393	93,110,518	-25.4%	8,488,913	12,726,957	-33.3%	797,168,354	820,711,352	-2.9%
FX	285	1,449	-80.3%	21,105,966	20,133,935	4.8%	13,487	33,168	-59.3%	215,073,822	249,964,541	-14.0%
Foreign Exchange	0	0	0.0%	936	2,615	-64.2%	0	0	0.0%	9,855	25,238	-61.0%
Ag Products	33,314	58,211	-42.8%	2,614,621	2,538,431	3.0%	728,500	807,073	-9.7%	43,951,543	40,294,808	9.1%
GRAND TOTAL	10,939,178	18,956,577	-42.3%	139,848,483	196,546,901	-28.8%	245,720,019	234,768,475	4.7%	1,891,275,660	1,975,144,122	-4.2%