

## CME Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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%	28	1	2,700.0%	0	0	0.0%	537	187	187.2%
EURODOLLARS	0	515,412	-100.0%	22,577,321	55,046,855	-59.0%	2,619,681	5,486,942	-52.3%	347,679,582	422,380,808	-17.7%
SOFR	0	0	0.0%	728,434	751,355	-3.1%	0	0	0.0%	6,019,608	4,150,662	45.0%
SONIA	0	0	0.0%	255,791	292,367	-12.5%	0	0	0.0%	1,074,449	1,271,444	-15.5%
<b>Interest Rate Options</b>												
EURODOLLARS	0	13,113,227	-100.0%	4,440,357	8,969,287	-50.5%	48,129,596	99,711,753	-51.7%	96,088,070	57,182,022	68.0%
EURO MIDCURVE	0	5,138,866	-100.0%	5,311,687	3,314,961	60.2%	12,810,071	52,940,030	-75.8%	39,234,429	41,954,270	-6.5%
SOFR	0	-	-	200	-	-	10	-	-	1,012	-	-
<b>Equity Index Futures</b>												
BITCOIN FUTURES	0	0	0.0%	161,734	152,868	5.8%	0	0	0.0%	1,170,545	1,094,090	7.0%
E-MINI COM SERVICES SELEC	0	0	0.0%	1,519	1,710	-11.2%	0	0	0.0%	15,019	18,689	-19.6%
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%	2	0	0.0%	0	0	0.0%	2	711	-99.7%
E-MINI MIDCAP	0	0	0.0%	277,224	274,293	1.1%	0	0	0.0%	2,671,505	2,311,316	15.6%
E-MINI NASDAQ 100	0	0	0.0%	12,047,723	7,906,354	52.4%	0	0	0.0%	86,947,661	67,466,355	28.9%
E-MINI RUSSELL 1000	0	0	0.0%	881	1,685	-47.7%	0	0	0.0%	25,789	23,925	7.8%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	1,886	866	117.8%	0	0	0.0%	21,556	23,963	-10.0%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	3,186	2,027	57.2%	0	0	0.0%	39,762	48,628	-18.2%
E-MINI RUSSELL 2000	0	0	0.0%	3,907,989	2,449,054	59.6%	0	0	0.0%	31,381,362	20,318,394	54.4%
E-MINI S&P500	0	0	0.0%	35,485,473	25,316,063	40.2%	0	0	0.0%	322,109,984	224,523,703	43.5%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	2,009	1,418	41.7%	0	0	0.0%	41,088	17,219	138.6%
FT-SE 100	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	372	-100.0%
FTSE Emerging	0	0	0.0%	0	1,707	-100.0%	0	0	0.0%	4,480	15,216	-70.6%
IBOVESPA INDEX	0	0	0.0%	119	338	-64.8%	0	0	0.0%	3,590	4,079	-12.0%
MICRO E-MINI NASDAQ 100	0	0	0.0%	15,377,810	4,362,562	252.5%	0	0	0.0%	87,790,966	10,385,973	745.3%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	2,618,965	640,308	309.0%	0	0	0.0%	14,669,945	1,559,195	840.9%
MICRO E-MINI S&P500	0	0	0.0%	22,877,218	4,563,369	401.3%	0	0	0.0%	129,368,221	13,911,414	829.9%
NASDAQ BIOTECH	0	0	0.0%	608	242	151.2%	0	0	0.0%	4,138	2,048	102.1%
Nearby BTIC+	0	-	-	0	-	-	0	-	-	200	-	-

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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%	134,492	151,817	-11.4%	0	0	0.0%	1,566,267	1,492,455	4.9%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	599,357	711,869	-15.8%	0	228	-100.0%	7,734,690	5,307,960	45.7%
S&P 500	0	4,447	-100.0%	586	626	-6.4%	33,712	158,304	-78.7%	19,023	9,657	97.0%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	5,898	7,107	-17.0%	0	0	0.0%	182,876	71,065	157.3%
S&P 500/GI	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	40	-100.0%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	224	60	273.3%	0	0	0.0%	8,188	581	1,309.3%
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%	4,473	2,493	79.4%	0	0	0.0%	46,976	47,675	-1.5%
S&P CONSUMER STAPLES SE	0	0	0.0%	12,944	4,298	201.2%	0	0	0.0%	76,686	72,717	5.5%
S&P ENERGY SECTOR	0	0	0.0%	8,338	4,910	69.8%	0	0	0.0%	119,623	75,811	57.8%
S&P FINANCIAL SECTOR	0	0	0.0%	9,629	13,070	-26.3%	0	0	0.0%	126,415	118,610	6.6%
S&P HEALTH CARE SECTOR	0	0	0.0%	5,279	5,946	-11.2%	0	0	0.0%	89,151	73,306	21.6%
S&P INDUSTRIAL SECTOR	0	0	0.0%	3,008	3,703	-18.8%	0	0	0.0%	58,643	51,342	14.2%
S&P MATERIALS SECTOR	0	0	0.0%	2,949	2,553	15.5%	0	0	0.0%	34,981	42,493	-17.7%
S&P TECHNOLOGY SECTOR	0	0	0.0%	5,764	3,487	65.3%	0	0	0.0%	70,473	69,142	1.9%
S&P UTILITIES SECTOR	0	0	0.0%	6,906	8,827	-21.8%	0	0	0.0%	98,136	110,637	-11.3%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	48	-100.0%
YEN DENOMINATED TOPIX	0	0	0.0%	4,622	21,790	-78.8%	0	0	0.0%	52,564	125,089	-58.0%

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<b>Equity Index Options</b>												
BITCOIN FUTURES	0	-	-	854	-	-	0	-	-	5,759	-	-
E-MINI NASDAQ 100	0	0	0.0%	312,820	176,875	76.9%	0	0	0.0%	2,282,852	1,415,682	61.3%
E-MINI RUSSELL 2000	0	0	0.0%	6,940	5,966	16.3%	0	0	0.0%	129,763	84,172	54.2%
E-MINI S&P500	0	0	0.0%	5,420,454	3,785,568	43.2%	250	345	-27.5%	55,658,667	33,400,352	66.6%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	8,003	7,325	9.3%	0	0	0.0%	61,084	58,803	3.9%
EOM EMINI S&P	0	0	0.0%	1,872,618	1,517,529	23.4%	0	0	0.0%	15,261,946	12,700,448	20.2%
EOM S&P 500	0	112,461	-100.0%	0	0	0.0%	303,360	901,372	-66.3%	0	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	2,386	5,047	-52.7%	0	0	0.0%	34,130	24,362	40.1%
EOW1 EMINI S&P 500	0	0	0.0%	662,839	1,015,468	-34.7%	0	0	0.0%	7,294,037	6,688,563	9.1%
EOW1 S&P 500	0	83,394	-100.0%	0	0	0.0%	157,788	467,487	-66.2%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	5,115	12,979	-60.6%	0	0	0.0%	28,024	35,293	-20.6%
EOW2 EMINI S&P 500	0	0	0.0%	908,112	795,872	14.1%	0	0	0.0%	7,729,041	6,826,925	13.2%
EOW2 S&P 500	0	121,425	-100.0%	0	0	0.0%	252,530	860,226	-70.6%	0	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	17,874	15,101	18.4%	0	0	0.0%	140,197	77,300	81.4%
EOW3 EMINI S&P 500	0	0	0.0%	2,297,984	2,424,780	-5.2%	0	0	0.0%	17,949,185	15,980,504	12.3%
EOW3 S&P 500	0	166,252	-100.0%	0	0	0.0%	266,271	942,464	-71.7%	0	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	4,194	3,798	10.4%	0	0	0.0%	23,320	21,339	9.3%
EOW4 EMINI S&P 500	0	0	0.0%	1,030,263	703,668	46.4%	0	0	0.0%	6,021,088	5,552,341	8.4%
S&P 500	0	143,603	-100.0%	40	0	0.0%	677,812	1,567,909	-56.8%	7,113	0	0.0%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	1	5	-80.0%	0	0	0.0%	77	109	-29.4%
AD/JY CROSS RATES	0	0	0.0%	1,275	1,763	-27.7%	0	0	0.0%	20,439	19,552	4.5%
AD/NE CROSS RATES	0	0	0.0%	152	165	-7.9%	0	0	0.0%	2,141	673	218.1%
AUSTRALIAN DOLLAR	0	0	0.0%	2,025,340	1,867,784	8.4%	0	0	0.0%	15,495,136	15,014,580	3.2%
BP/JY CROSS RATES	0	0	0.0%	1,693	3,214	-47.3%	0	0	0.0%	24,489	18,337	33.5%
BP/SF CROSS RATES	0	0	0.0%	367	847	-56.7%	0	0	0.0%	3,396	3,221	5.4%
BRAZIL REAL	0	0	0.0%	203,257	111,734	81.9%	0	0	0.0%	1,350,837	787,200	71.6%
BRITISH POUND	0	0	0.0%	2,050,884	2,077,280	-1.3%	0	0	0.0%	15,332,547	16,557,317	-7.4%
CANADIAN DOLLAR	0	0	0.0%	1,359,649	1,382,467	-1.7%	0	3	-100.0%	11,461,688	11,200,988	2.3%
CD/JY CROSS RATES	0	0	0.0%	10	6	66.7%	0	0	0.0%	360	125	188.0%
CHINESE RENMINBI (CNH)	0	0	0.0%	13,919	26,940	-48.3%	0	0	0.0%	125,060	182,460	-31.5%

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<b>FX Futures</b>												
CZECK KORUNA (EC)	0	0	0.0%	0	0	0.0%	0	0	0.0%	21	18	16.7%
CZECK KORUNA (US)	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
EC/AD CROSS RATES	0	0	0.0%	2,812	3,490	-19.4%	0	0	0.0%	45,120	32,796	37.6%
EC/CD CROSS RATES	0	0	0.0%	3,051	1,594	91.4%	0	0	0.0%	32,133	21,354	50.5%
EC/NOK CROSS RATES	0	0	0.0%	12	370	-96.8%	0	0	0.0%	1,397	3,316	-57.9%
EC/SEK CROSS RATES	0	0	0.0%	173	409	-57.7%	0	0	0.0%	4,521	4,530	-0.2%
EFX/BP CROSS RATES	0	0	0.0%	39,841	78,584	-49.3%	0	0	0.0%	502,253	626,105	-19.8%
EFX/JY CROSS RATES	0	0	0.0%	31,102	40,996	-24.1%	0	0	0.0%	454,314	428,888	5.9%
EFX/SF CROSS RATES	0	0	0.0%	17,344	27,444	-36.8%	0	0	0.0%	290,873	228,569	27.3%
E-MINI EURO FX	0	0	0.0%	168,769	84,189	100.5%	0	0	0.0%	1,063,676	686,908	54.8%
E-MINI JAPANESE YEN	0	0	0.0%	12,519	24,132	-48.1%	0	0	0.0%	180,463	87,233	106.9%
EURO FX	0	11	-100.0%	4,698,533	3,774,769	24.5%	36	53	-32.1%	32,101,167	29,981,056	7.1%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	0	0.0%	0	0	0.0%	9	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	0	0	0.0%	0	0	0.0%	67	8	737.5%
INDIAN RUPEE	0	0	0.0%	28,310	58,879	-51.9%	0	0	0.0%	192,416	473,438	-59.4%
JAPANESE YEN	0	2	-100.0%	1,854,925	2,166,012	-14.4%	0	2	-100.0%	18,547,487	18,220,447	1.8%
KOREAN WON	0	0	0.0%	387	329	17.6%	0	0	0.0%	4,152	1,817	128.5%
MEXICAN PESO	0	0	0.0%	898,378	871,362	3.1%	0	0	0.0%	8,436,257	8,933,896	-5.6%
MICRO AUD/USD	0	0	0.0%	272,625	97,827	178.7%	0	0	0.0%	1,757,162	793,267	121.5%
MICRO CAD/USD	0	0	0.0%	26,257	17,664	48.6%	0	0	0.0%	177,798	118,740	49.7%
MICRO CHF/USD	0	0	0.0%	3,875	4,292	-9.7%	0	0	0.0%	23,891	15,981	49.5%
MICRO EUR/USD	0	0	0.0%	611,661	224,416	172.6%	0	0	0.0%	3,106,324	1,739,886	78.5%
MICRO GBP/USD	0	0	0.0%	64,721	40,880	58.3%	0	0	0.0%	396,225	296,782	33.5%
MICRO INR/USD	0	0	0.0%	1,848	5,860	-68.5%	0	0	0.0%	16,751	33,567	-50.1%
MICRO JPY/USD	0	0	0.0%	23,604	25,014	-5.6%	0	0	0.0%	217,301	193,091	12.5%
NEW ZEALND DOLLAR	0	0	0.0%	624,801	492,310	26.9%	0	0	0.0%	4,483,601	4,072,981	10.1%
NKR/USD CROSS RATE	0	0	0.0%	1,814	4,421	-59.0%	0	0	0.0%	35,977	30,482	18.0%
POLISH ZLOTY (EC)	0	0	0.0%	48	11	336.4%	0	0	0.0%	447	405	10.4%
POLISH ZLOTY (US)	0	0	0.0%	1,032	122	745.9%	0	0	0.0%	5,200	705	637.6%
RMB USD	0	0	0.0%	1	0	0.0%	0	0	0.0%	4	5	-20.0%
RUSSIAN RUBLE	0	0	0.0%	119,181	51,082	133.3%	0	0	0.0%	822,095	449,079	83.1%
S.AFRICAN RAND	0	0	0.0%	72,289	51,799	39.6%	0	0	0.0%	552,923	291,513	89.7%
SF/JY CROSS RATES	0	0	0.0%	3	0	0.0%	0	0	0.0%	223	7	3,085.7%
SHEKEL	0	0	0.0%	1	0	0.0%	0	0	0.0%	93	0	0.0%
SKR/USD CROSS RATES	0	0	0.0%	2,429	1,806	34.5%	0	0	0.0%	27,434	17,634	55.6%

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<b>FX Futures</b>												
SWISS FRANC	0	0	0.0%	516,967	463,258	11.6%	0	0	0.0%	4,260,331	3,789,087	12.4%
TURKISH LIRA	0	0	0.0%	0	40	-100.0%	0	0	0.0%	18	56	-67.9%
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	-	-	510	-	-	0	-	-	2,776	-	-
AUD/USD MONDAY OPTION W	0	-	-	172	-	-	0	-	-	1,258	-	-
AUD/USD MONDAY OPTION W	0	-	-	565	-	-	0	-	-	1,951	-	-
AUD/USD MONDAY OPTION W	0	-	-	172	-	-	0	-	-	975	-	-
AUD/USD MONDAY OPTION W	0	-	-	0	-	-	0	-	-	709	-	-
AUD/USD MONTHLY OPTIONS	0	0	0.0%	55,903	46,911	19.2%	0	0	0.0%	582,545	470,527	23.8%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	5,608	-100.0%	0	0	0.0%	3,153	13,711	-77.0%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,867	2,441	-23.5%	0	0	0.0%	34,512	43,378	-20.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,899	5,627	-48.5%	0	0	0.0%	29,425	47,245	-37.7%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,156	4,108	-23.2%	0	0	0.0%	31,461	52,332	-39.9%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,866	312	498.1%	0	0	0.0%	12,603	13,020	-3.2%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	493	1,191	-58.6%	0	0	0.0%	9,664	12,542	-22.9%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	456	1,235	-63.1%	0	0	0.0%	11,535	13,560	-14.9%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	161	336	-52.1%	0	0	0.0%	7,088	5,669	25.0%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	211	346	-39.0%	0	0	0.0%	10,668	8,009	33.2%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	600	1,812	-66.9%	0	0	0.0%	4,219	3,824	10.3%
BRITISH POUND (EU)	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	0	23	-100.0%	0	0	0.0%	663	79	739.2%
CAD/USD MONDAY OPTIONS	0	-	-	619	-	-	0	-	-	2,359	-	-
CAD/USD MONDAY OPTIONS	0	-	-	223	-	-	0	-	-	629	-	-
CAD/USD MONDAY OPTIONS	0	-	-	1,862	-	-	0	-	-	3,871	-	-
CAD/USD MONDAY OPTIONS	0	-	-	2,453	-	-	0	-	-	3,841	-	-
CAD/USD MONDAY OPTIONS	0	-	-	0	-	-	0	-	-	861	-	-
CAD/USD MONTHLY OPTIONS	0	40	-100.0%	46,508	28,082	65.6%	430	857	-49.8%	380,206	366,334	3.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	7,571	-100.0%	0	0	0.0%	6,030	25,901	-76.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	7,054	3,003	134.9%	0	0	0.0%	49,643	48,490	2.4%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	5,740	9,149	-37.3%	0	0	0.0%	44,941	70,008	-35.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	6,454	8,085	-20.2%	0	0	0.0%	51,381	74,251	-30.8%

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## CME Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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%	5,825	251	2,220.7%	0	0	0.0%	25,272	16,841	50.1%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,412	2,045	17.9%	0	0	0.0%	17,791	21,375	-16.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	631	2,687	-76.5%	0	0	0.0%	13,041	25,012	-47.9%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,144	3,038	-29.4%	0	0	0.0%	14,742	21,840	-32.5%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,984	1,805	65.3%	0	0	0.0%	18,208	20,296	-10.3%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,313	2,462	-6.1%	0	0	0.0%	7,730	7,133	8.4%
CANADIAN DOLLAR (EU)	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	2,316	2,323	-0.3%	0	0	0.0%	23,457	14,890	57.5%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	9	-100.0%	0	0	0.0%	37	117	-68.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	7	144	-95.1%	0	0	0.0%	1,296	1,581	-18.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	14	65	-78.5%	0	0	0.0%	848	1,412	-39.9%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	23	62	-62.9%	0	0	0.0%	772	708	9.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	3	2	50.0%	0	0	0.0%	906	606	49.5%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	74	-100.0%
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	-	-	4,973	-	-	0	-	-	11,179	-	-
EUR/USD MONDAY OPTION W	0	-	-	2,757	-	-	0	-	-	6,297	-	-
EUR/USD MONDAY OPTION W	0	-	-	8,241	-	-	0	-	-	14,190	-	-
EUR/USD MONDAY OPTION W	0	-	-	7,207	-	-	0	-	-	13,663	-	-
EUR/USD MONDAY OPTION W	0	-	-	0	-	-	0	-	-	5,514	-	-
EUR/USD MONTHLY OPTIONS	0	823	-100.0%	251,533	391,713	-35.8%	1,550	8,353	-81.4%	2,172,079	2,548,970	-14.8%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	25,108	-100.0%	0	0	0.0%	11,073	78,738	-85.9%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	20,010	17,931	11.6%	62	0	0.0%	150,473	189,483	-20.6%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	22,734	25,141	-9.6%	0	0	0.0%	154,863	210,819	-26.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	19,307	36,248	-46.7%	0	0	0.0%	162,931	277,247	-41.2%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	18,871	173	10,808.1%	0	0	0.0%	59,845	62,352	-4.0%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	6,908	13,134	-47.4%	0	0	0.0%	68,590	83,551	-17.9%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	6,565	10,419	-37.0%	0	0	0.0%	57,929	87,927	-34.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	11,723	7,827	49.8%	0	0	0.0%	61,833	79,114	-21.8%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	9,881	14,228	-30.6%	0	0	0.0%	53,722	94,623	-43.2%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	9,029	9,582	-5.8%	0	0	0.0%	23,314	29,955	-22.2%
GBP/USD MONDAY OPTION W	0	-	-	1,053	-	-	0	-	-	3,671	-	-
GBP/USD MONDAY OPTION W	0	-	-	250	-	-	0	-	-	2,563	-	-
GBP/USD MONDAY OPTION W	0	-	-	440	-	-	0	-	-	4,333	-	-

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## CME Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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>												
GBP/USD MONDAY OPTION W	0	-	-	704	-	-	0	-	-	5,595	-	-
GBP/USD MONDAY OPTION W	0	-	-	0	-	-	0	-	-	1,162	-	-
GBP/USD MONTHLY OPTIONS	0	48	-100.0%	72,590	117,298	-38.1%	64	780	-91.8%	603,343	874,972	-31.0%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	3,942	-100.0%	0	0	0.0%	3,267	23,707	-86.2%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,267	3,667	-38.2%	0	0	0.0%	26,049	43,033	-39.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,849	5,379	-65.6%	0	0	0.0%	23,736	53,961	-56.0%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,720	6,201	-72.3%	0	0	0.0%	25,264	52,099	-51.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,377	1,323	155.3%	0	0	0.0%	11,786	20,450	-42.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	330	2,019	-83.7%	0	0	0.0%	12,669	17,991	-29.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	401	1,573	-74.5%	0	0	0.0%	7,129	19,171	-62.8%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	668	474	40.9%	0	0	0.0%	11,749	21,108	-44.3%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	631	1,284	-50.9%	0	0	0.0%	10,076	17,905	-43.7%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	344	1,353	-74.6%	0	0	0.0%	5,534	7,357	-24.8%
JAPANESE YEN (EU)	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
JPY/USD MONDAY OPTION WE	0	-	-	1,667	-	-	0	-	-	5,959	-	-
JPY/USD MONDAY OPTION WE	0	-	-	2,370	-	-	0	-	-	8,179	-	-
JPY/USD MONDAY OPTION WE	0	-	-	1,571	-	-	0	-	-	4,804	-	-
JPY/USD MONDAY OPTION WE	0	-	-	457	-	-	0	-	-	2,349	-	-
JPY/USD MONDAY OPTION WE	0	-	-	0	-	-	0	-	-	1,363	-	-
JPY/USD MONTHLY OPTIONS	0	75	-100.0%	90,155	106,224	-15.1%	727	163	346.0%	953,229	953,343	0.0%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	11,907	-100.0%	0	0	0.0%	5,689	40,562	-86.0%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	10,494	6,241	68.1%	0	0	0.0%	87,502	72,822	20.2%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	9,117	10,770	-15.3%	0	0	0.0%	94,731	101,239	-6.4%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	10,245	10,960	-6.5%	0	0	0.0%	88,808	108,668	-18.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	10,312	1,157	791.3%	0	0	0.0%	36,879	31,318	17.8%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,207	4,658	-9.7%	0	0	0.0%	40,915	27,198	50.4%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,898	4,064	-28.7%	0	0	0.0%	31,343	29,040	7.9%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,195	2,153	2.0%	0	0	0.0%	36,372	22,653	60.6%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,571	2,124	21.0%	0	0	0.0%	40,129	23,907	67.9%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,697	2,751	-2.0%	0	0	0.0%	8,991	7,723	16.4%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	998	1,195	-16.5%	1,840	900	104.4%	10,301	8,899	15.8%
MXN/USD WKLY FRIDAY OPTI	0	-	-	0	-	-	0	-	-	0	-	-
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	225	354	-36.4%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.0%	0	0	0.0%	1,003	454	120.9%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	2	0	0.0%	0	0	0.0%	1,183	328	260.7%

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<b>FX Options</b>												
MXN/USD WKLY FRIDAY OPTI	0	-	-	9	-	-	0	-	-	152	-	-
NZD/USD MONTHLY OPTIONS	0	0	0.0%	79	523	-84.9%	0	0	0.0%	4,551	2,786	63.4%
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	0	0.0%	0	0	0.0%	50	120	-58.3%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	206	-100.0%
NZD/USD WKLY FRIDAY OPTIO	0	-	-	0	-	-	0	-	-	375	-	-
NZD/USD WKLY FRIDAY OPTIO	0	-	-	0	-	-	0	-	-	0	-	-
<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%	290	553	-47.6%	0	0	0.0%	6,155	5,939	3.6%



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<b>Ag Products Futures</b>												
BUTTER CS	0	0	0.0%	3,174	5,701	-44.3%	0	0	0.0%	41,849	28,078	49.0%
CASH-SETTLED CHEESE	0	0	0.0%	10,130	12,831	-21.1%	0	0	0.0%	95,060	80,235	18.5%
CAT ASIA WEATHER	0	-	-	0	-	-	0	-	-	0	-	-
CATTLE	0	151	-100.0%	1,369,591	1,319,012	3.8%	2,592	8,828	-70.6%	10,312,138	10,207,368	1.0%
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%	50	25	100.0%	0	0	0.0%	50	25	100.0%
CLASS IV MILK	0	0	0.0%	1,051	1,260	-16.6%	65	157	-58.6%	18,144	16,060	13.0%
DRY WHEY	0	0	0.0%	1,385	908	52.5%	0	0	0.0%	10,206	9,241	10.4%
FEEDER CATTLE	0	73	-100.0%	310,756	305,018	1.9%	54	178	-69.7%	1,934,525	2,181,587	-11.3%
GOLDMAN SACHS	0	0	0.0%	11,884	27,483	-56.8%	0	0	0.0%	112,658	200,900	-43.9%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.0%	0	0	0.0%	44	0	0.0%
HDD EURO SEASONAL STRIP	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	1,129	-100.0%	1,047,352	1,562,776	-33.0%	1,940	13,154	-85.3%	7,985,910	9,556,143	-16.4%
HOUSING INDEX	0	0	0.0%	9	10	-10.0%	0	0	0.0%	225	81	177.8%
LUMBER	0	0	0.0%	15,582	12,438	25.3%	0	0	0.0%	89,661	99,687	-10.1%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
MILK	0	40	-100.0%	37,668	25,860	45.7%	59	260	-77.3%	251,911	173,523	45.2%
MLK MID OPTIONS	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
NFD MILK	0	14	-100.0%	5,002	5,025	-0.5%	0	14	-100.0%	62,865	45,201	39.1%
PACIFIC RIM DAT SS WTHR	0	-	-	0	-	-	0	-	-	0	-	-
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	200	-100.0%	1,391	2,077	-33.0%	212	3,915	-94.6%	24,976	22,151	12.8%
CASH-SETTLED CHEESE	0	724	-100.0%	13,619	7,948	71.4%	7,734	11,995	-35.5%	82,526	58,713	40.6%
CATTLE	0	11,414	-100.0%	192,165	120,718	59.2%	59,913	180,268	-66.8%	1,679,934	1,192,578	40.9%
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	119	-100.0%	1,773	3,440	-48.5%	1,082	3,217	-66.4%	40,415	25,719	57.1%
DRY WHEY	0	12	-100.0%	770	313	146.0%	119	704	-83.1%	4,117	5,803	-29.1%
FEEDER CATTLE	0	1,549	-100.0%	19,809	27,566	-28.1%	4,252	14,147	-69.9%	187,399	211,014	-11.2%
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%
HOGS	0	24,398	-100.0%	217,447	405,274	-46.3%	34,430	239,025	-85.6%	2,019,396	2,392,590	-15.6%
HOUSING INDEX	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	7	-100.0%
LUMBER	0	0	0.0%	843	2,004	-57.9%	0	70	-100.0%	6,346	13,403	-52.7%
LV CATL CSO	0	0	0.0%	0	0	0.0%	0	479	-100.0%	0	0	0.0%
MILK	0	1,443	-100.0%	49,965	39,160	27.6%	3,323	17,925	-81.5%	365,597	247,477	47.7%
MLK MID OPTIONS	0	8	-100.0%	31	13	138.5%	31	16	93.8%	86	194	-55.7%
NFD MILK	0	479	-100.0%	5,328	4,357	22.3%	494	1,246	-60.4%	51,785	43,980	17.7%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	0	515,412	-100.0%	23,561,574	56,090,578	-58.0%	2,619,681	5,486,942	-52.3%	354,774,176	427,803,101	-17.1%
Equity Index Futures	0	4,447	-100.0%	93,568,815	46,617,420	100.7%	33,712	158,532	-78.7%	686,550,505	349,394,254	96.5%
FX Futures	0	13	-100.0%	15,755,860	14,085,566	11.9%	36	58	-37.9%	121,556,294	115,358,229	5.4%
Foreign Exchange Futures	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Ag Products Futures	0	1,407	-100.0%	2,813,634	3,278,347	-14.2%	4,710	22,591	-79.2%	20,915,271	22,598,129	-7.4%
<b>TOTAL FUTURES</b>	<b>0</b>	<b>521,279</b>	<b>-100.0%</b>	<b>135,699,883</b>	<b>120,071,911</b>	<b>13.0%</b>	<b>2,658,139</b>	<b>5,668,123</b>	<b>-53.1%</b>	<b>1,183,796,246</b>	<b>915,153,713</b>	<b>29.4%</b>

## CME Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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	627,135	-100.0%	12,550,496	10,469,976	19.9%	1,658,011	4,739,803	-65.0%	112,626,206	82,866,084	35.9%
Interest Rate Options	0	18,252,093	-100.0%	9,752,244	12,284,248	-20.6%	60,939,677	152,651,783	-60.1%	135,323,511	99,136,292	36.5%
FX Options	0	986	-100.0%	797,023	1,001,477	-20.4%	4,673	11,053	-57.7%	6,663,570	7,726,918	-13.8%
Ag Products Options	0	40,346	-100.0%	503,141	612,870	-17.9%	111,590	473,007	-76.4%	4,462,577	4,213,629	5.9%
Foreign Exchange Options	0	0	0.0%	290	553	-47.6%	0	0	0.0%	6,155	5,939	3.6%
<b>TOTAL OPTIONS</b>	<b>0</b>	<b>18,920,560</b>	<b>-100.0%</b>	<b>23,603,194</b>	<b>24,369,124</b>	<b>-3.1%</b>	<b>62,713,951</b>	<b>157,875,646</b>	<b>-60.3%</b>	<b>259,082,019</b>	<b>193,948,862</b>	<b>33.6%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	0	18,767,505	-100.0%	33,313,818	68,374,826	-51.3%	63,559,358	158,138,725	-59.8%	490,097,687	526,939,393	-7.0%
Equity Index	0	631,582	-100.0%	106,119,311	57,087,396	85.9%	1,691,723	4,898,335	-65.5%	799,176,711	432,260,338	84.9%
FX	0	999	-100.0%	16,552,883	15,087,043	9.7%	4,709	11,111	-57.6%	128,219,864	123,085,147	4.2%
Foreign Exchange	0	0	0.0%	290	553	-47.6%	0	0	0.0%	6,155	5,939	3.6%
Ag Products	0	41,753	-100.0%	3,316,775	3,891,217	-14.8%	116,300	495,598	-76.5%	25,377,848	26,811,758	-5.3%
<b>GRAND TOTAL</b>	<b>0</b>	<b>19,441,839</b>	<b>-100.0%</b>	<b>159,303,077</b>	<b>144,441,035</b>	<b>10.3%</b>	<b>65,372,090</b>	<b>163,543,769</b>	<b>-60.0%</b>	<b>1,442,878,265</b>	<b>1,109,102,575</b>	<b>30.1%</b>