



## CME Group 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>												
10-YR NOTE	0	146,326	-100.0%	23,560,128	27,519,954	-14.39%	469,469	1,794,445	-73.8%	395,695,871	433,915,193	-8.8%
10-YR SWAP RATE	0	0	0.0%	73,501	60,892	20.71%	0	0	0.0%	551,147	503,316	9.5%
15-YR SWAP RATE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
1-MONTH EURODOLLAR	0	0	0.0%	0	1	-100.00%	0	0	0.0%	826	451	83.1%
20-YR SWAP RATE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	46	-100.0%
2-YR NOTE	0	1,931	-100.0%	4,082,334	8,360,586	-51.17%	261	44,399	-99.4%	116,852,455	164,627,600	-29.0%
2-YR SWAP RATE	0	0	0.0%	48,387	22,121	118.74%	0	0	0.0%	202,954	474,235	-57.2%
30-YR BOND	0	14,544	-100.0%	6,665,892	5,559,960	19.89%	55,491	238,469	-76.7%	92,792,074	85,695,653	8.3%
30-YR SWAP RATE	0	0	0.0%	30	5	500.00%	0	0	0.0%	852	6,525	-86.9%
3-YR NOTE	0	-	-	101,683	-	-	0	-	-	615,211	-	-
3-YR SWAP RATE	0	0	0.0%	3,682	14,511	-74.63%	0	0	0.0%	28,494	174,201	-83.6%
4-YR SWAP RATE	0	0	0.0%	768	709	8.32%	0	0	0.0%	15,020	91,483	-83.6%
5-YR NOTE	0	40,407	-100.0%	13,335,147	14,602,859	-8.68%	87,402	538,481	-83.8%	232,082,751	275,075,331	-15.6%
5-YR SWAP RATE	0	0	0.0%	42,547	71,316	-40.34%	0	0	0.0%	585,128	856,483	-31.7%
7-YR SWAP RATE	0	0	0.0%	3,233	2,146	50.65%	0	0	0.0%	21,373	42,004	-49.1%
EURODOLLARS	137,810	328,168	-58.0%	30,461,184	35,731,416	-14.75%	3,277,668	8,292,595	-60.5%	498,955,614	668,153,568	-25.3%
FED FUND	0	0	0.0%	1,520,911	3,547,509	-57.13%	0	0	0.0%	51,405,691	88,090,040	-41.6%
SOFR	0	0	0.0%	1,436,190	697,447	105.92%	0	0	0.0%	12,342,169	8,572,639	44.0%
SONIA	0	0	0.0%	132,578	196,587	-32.56%	0	0	0.0%	2,007,954	2,212,780	-9.3%
Ultra 10-Year Note	0	0	0.0%	3,959,602	3,318,632	19.31%	0	0	0.0%	61,725,279	55,465,095	11.3%
ULTRA T-BOND	0	0	0.0%	2,693,064	2,281,614	18.03%	0	66	-100.0%	48,178,249	44,229,871	8.9%

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<b>Interest Rate Options</b>												
10-YR NOTE	0	2,299,492	-100.0%	7,419,442	12,553,828	-40.90%	8,489,760	30,019,157	-71.7%	115,296,702	137,183,320	-16.0%
2-YR NOTE	0	72,600	-100.0%	8,374	241,377	-96.53%	273,359	1,768,556	-84.5%	1,776,052	4,214,451	-57.9%
30-YR BOND	0	185,970	-100.0%	2,665,635	2,463,857	8.19%	891,042	3,694,414	-75.9%	30,135,289	32,190,822	-6.4%
5-YR NOTE	0	381,619	-100.0%	1,123,757	2,652,887	-57.64%	2,424,616	10,624,237	-77.2%	27,863,737	43,136,713	-35.4%
EURODOLLARS	2,273,307	6,846,949	-66.8%	1,482,590	7,690,449	-80.72%	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	-22.68%	26,925,436	73,493,703	-63.4%	50,857,323	59,124,551	-14.0%
FED FUND	0	100	-100.0%	1	997	-99.90%	3,100	56,810	-94.5%	7,823	22,209	-64.8%
SOFR	6,000	-	-	0	-	-	6,010	-	-	3,114	-	-
Ultra 10-Year Note	0	711	-100.0%	0	0	0.00%	13,035	29,315	-55.5%	2,965	5,329	-44.4%
ULTRA T-BOND	0	12,107	-100.0%	589	255	130.98%	10,870	251,264	-95.7%	4,239	15,936	-73.4%
<b>Equity Index Futures</b>												
BITCOIN FUTURES	0	0	0.0%	244,484	109,747	122.77%	0	0	0.0%	2,213,538	1,603,527	38.0%
DJ US REAL ESTATE	0	0	0.0%	40,905	41,186	-0.68%	0	0	0.0%	419,501	309,436	35.6%
E-mini (\$5) Dow	0	0	0.0%	3,412,029	3,588,742	-4.92%	0	0	0.0%	59,279,268	50,316,880	17.8%
E-MINI COM SERVICES SELEC	0	0	0.0%	3,892	2,915	33.52%	0	0	0.0%	29,476	29,583	-0.4%
E-mini FTSE 100 (USD)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	336	-100.0%
E-mini FTSE China 50	0	0	0.0%	0	0	0.00%	0	0	0.0%	2	711	-99.7%
E-MINI MIDCAP	0	0	0.0%	473,840	459,981	3.01%	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	21.77%	0	0	0.0%	145,911,118	114,678,323	27.2%
E-MINI RUSSELL 1000	0	0	0.0%	2,423	3,654	-33.69%	0	0	0.0%	38,687	40,453	-4.4%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	7,560	8,426	-10.28%	0	0	0.0%	38,635	44,466	-13.1%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	11,781	13,608	-13.43%	0	0	0.0%	76,995	89,793	-14.3%
E-MINI RUSSELL 2000	0	0	0.0%	4,575,300	3,396,583	34.70%	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	-2.24%	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	29.35%	0	0	0.0%	58,421	47,407	23.2%
FT-SE 100	0	0	0.0%	1	0	0.00%	0	0	0.0%	9	372	-97.6%
FTSE Emerging	0	0	0.0%	25	2,010	-98.76%	0	0	0.0%	4,798	25,224	-81.0%
IBOVESPA INDEX	0	0	0.0%	187	601	-68.89%	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	413.72%	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	257.46%	0	0	0.0%	23,672,428	5,004,928	373.0%

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<b>Equity Index Futures</b>												
MICRO E-MINI S&P500	0	0	0.0%	16,318,013	4,328,000	277.03%	0	0	0.0%	226,808,530	43,076,456	426.5%
MICRO MINI \$5 DOW	0	0	0.0%	2,778,902	702,604	295.51%	0	0	0.0%	32,643,055	7,815,787	317.7%
NASDAQ BIOTECH	0	0	0.0%	285	322	-11.49%	0	0	0.0%	5,555	4,065	36.7%
Nearby BTIC+	0	0	0.0%	0	0	0.00%	0	0	0.0%	200	34	488.2%
NIFTY 50	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	133,213	238,701	-44.19%	0	0	0.0%	2,258,392	2,612,179	-13.5%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	641,304	814,864	-21.30%	0	318	-100.0%	11,237,739	9,721,438	15.6%
S&P 500	0	45,694	-100.0%	120	324	-62.96%	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	-8.93%	0	0	0.0%	254,429	112,853	125.5%
S&P 500/GI	0	0	0.0%	0	12	-100.00%	0	0	0.0%	0	72	-100.0%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	254	50	408.00%	0	0	0.0%	9,893	2,067	378.6%
S&P 600 SMALLCAP EMINI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	17	-100.0%
S&P CONSUMER DSCRTRNY S	0	0	0.0%	11,026	9,561	15.32%	0	0	0.0%	90,704	80,969	12.0%
S&P CONSUMER STAPLES SE	0	0	0.0%	20,955	16,146	29.78%	0	0	0.0%	148,856	124,841	19.2%
S&P ENERGY SECTOR	0	0	0.0%	37,787	21,937	72.25%	0	0	0.0%	251,170	143,279	75.3%
S&P FINANCIAL SECTOR	0	0	0.0%	42,705	25,541	67.20%	0	0	0.0%	239,739	214,556	11.7%
S&P HEALTH CARE SECTOR	0	0	0.0%	22,751	16,644	36.69%	0	0	0.0%	163,421	134,124	21.8%
S&P INDUSTRIAL SECTOR	0	0	0.0%	19,753	17,459	13.14%	0	0	0.0%	119,385	103,329	15.5%
S&P MATERIALS SECTOR	0	0	0.0%	11,882	7,598	56.38%	0	0	0.0%	68,583	67,650	1.4%
S&P TECHNOLOGY SECTOR	0	0	0.0%	20,801	13,422	54.98%	0	0	0.0%	138,503	116,903	18.5%
S&P UTILITIES SECTOR	0	0	0.0%	24,858	19,242	29.19%	0	0	0.0%	176,132	186,452	-5.5%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	16	-100.00%	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	-86.28%	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 (\$5) Dow	0	0	0.0%	1,469	9,416	-84.40%	0	0	0.0%	33,237	53,881	-38.3%
E-MINI NASDAQ 100	0	0	0.0%	262,327	176,277	48.82%	0	0	0.0%	4,029,014	2,394,963	68.2%
E-MINI RUSSELL 2000	0	0	0.0%	16,753	16,248	3.11%	0	0	0.0%	230,424	195,003	18.2%
E-MINI S&P500	0	0	0.0%	5,917,491	6,351,055	-6.83%	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	370.42%	0	0	0.0%	116,366	99,644	16.8%
EOM EMINI S&P	0	0	0.0%	1,258,669	1,666,065	-24.45%	0	0	0.0%	23,136,877	22,735,455	1.8%
EOM S&P 500	0	105,822	-100.0%	1,684	0	0.00%	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	-29.42%	0	0	0.0%	50,285	41,469	21.3%
EOW1 EMINI S&P 500	0	0	0.0%	392,686	1,222,185	-67.87%	0	0	0.0%	12,023,282	11,898,800	1.0%
EOW1 S&P 500	0	119,582	-100.0%	6,493	0	0.00%	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	112.84%	0	0	0.0%	80,323	57,981	38.5%
EOW2 EMINI S&P 500	0	0	0.0%	941,003	1,238,813	-24.04%	0	0	0.0%	12,873,879	12,211,898	5.4%
EOW2 S&P 500	0	182,781	-100.0%	18,779	0	0.00%	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	-4.58%	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	-23.49%	0	0	0.0%	27,386,900	27,486,266	-0.4%
EOW3 S&P 500	0	40,045	-100.0%	9,924	0	0.00%	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	79.35%	0	0	0.0%	46,721	39,182	19.2%
EOW4 EMINI S&P 500	0	0	0.0%	588,852	845,944	-30.39%	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	0.00%	677,812	2,877,983	-76.4%	8,853	0	0.0%

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<b>Metals Futures</b>												
ALUMINUM	0	0	0.0%	2,767	4,674	-40.80%	0	0	0.0%	49,467	24,588	101.2%
COBALT METAL FUTURES	0	-	-	3	-		0	-	-	3	-	-
COMEX COPPER	0	0	0.0%	1,536,999	1,651,846	-6.95%	0	0	0.0%	24,129,577	23,828,982	1.3%
COMEX E-Mini GOLD	0	0	0.0%	24,464	15,678	56.04%	0	0	0.0%	386,925	241,481	60.2%
COMEX E-Mini SILVER	0	0	0.0%	6,393	2,021	216.33%	0	0	0.0%	106,315	49,552	114.6%
COMEX GOLD	0	0	0.0%	3,973,811	5,222,845	-23.91%	0	0	0.0%	76,003,612	83,862,556	-9.4%
COMEX MINY COPPER	0	0	0.0%	1,956	320	511.25%	0	0	0.0%	13,863	7,449	86.1%
COMEX SILVER	0	0	0.0%	1,664,102	1,505,213	10.56%	0	0	0.0%	25,671,554	23,598,917	8.8%
COPPER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FERROUS PRODUCTS	0	0	0.0%	1,372	356	285.39%	0	0	0.0%	14,063	5,375	161.6%
GOLD	0	0	0.0%	2,585	7,368	-64.92%	0	0	0.0%	79,860	42,719	86.9%
Gold Kilo	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HOT ROLLED COIL STEEL FUT	0	-	-	88	-		0	-	-	754	-	-
IRON ORE 62 CHINA PLATTS F	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI FUTU	0	0	0.0%	0	0	0.00%	0	0	0.0%	209	28	646.4%
IRON ORE CHINA	0	-	-	0	-		0	-	-	0	-	-
LNDN ZINC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	1,230	-100.0%
METALS	0	-	-	0	-		0	-	-	0	-	-
MICRO GOLD	0	0	0.0%	1,599,830	512,931	211.90%	0	0	0.0%	21,783,469	5,707,849	281.6%
NYMEX HOT ROLLED STEEL	0	0	0.0%	3,638	2,716	33.95%	0	0	0.0%	52,596	36,035	46.0%
NYMEX PLATINUM	0	0	0.0%	452,807	571,718	-20.80%	0	0	0.0%	4,406,372	5,669,754	-22.3%
PALLADIUM	0	0	0.0%	29,691	80,975	-63.33%	0	0	0.0%	650,795	1,226,858	-47.0%
SILVER	0	0	0.0%	302,609	27,758	990.17%	0	0	0.0%	2,449,936	354,422	591.2%
URANIUM	0	0	0.0%	0	20	-100.00%	0	0	0.0%	55	432	-87.3%

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<b>Metals Options</b>												
ALUMINUM	0	-	-	0	-		0	-	-	0	-	-
COMEX COPPER	0	0	0.0%	15,084	45,388	-66.77%	0	0	0.0%	277,992	517,205	-46.3%
COMEX GOLD	0	0	0.0%	504,996	635,173	-20.49%	0	0	0.0%	10,285,717	11,602,169	-11.3%
COMEX SILVER	0	0	0.0%	114,662	145,993	-21.46%	0	0	0.0%	1,998,599	1,980,570	0.9%
COPPER	0	0	0.0%	0	360	-100.00%	0	0	0.0%	2,679	3,652	-26.6%
GOLD	0	0	0.0%	130,247	144,132	-9.63%	0	0	0.0%	1,660,353	1,571,669	5.6%
HOT ROLLED COIL STEEL CAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOT ROLLED COIL STEEL PUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI CALL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI PUT O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IRON ORE CHINA	0	-	-	0	-		0	-	-	0	-	-
NYMEX HOT ROLLED STEEL	0	-	-	0	-		0	-	-	0	-	-
NYMEX PLATINUM	0	0	0.0%	1,268	952	33.19%	0	0	0.0%	6,916	15,971	-56.7%
PALLADIUM	0	0	0.0%	27	464	-94.18%	0	0	0.0%	1,479	6,998	-78.9%
SILVER	0	0	0.0%	6,066	14,117	-57.03%	0	0	0.0%	99,422	83,864	18.6%
<b>Energy Futures</b>												
3.5% FUEL OIL CID MED SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
3.5% FUEL OIL CIF BALMO S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB MTHLY	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
AEP-DAYTON HUB OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ALGONQUIN CITYGATES BASI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ANR OKLAHOMA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ARGUS LLS VS. WTI (ARG) T	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ARGUS PROPAN FAR EST IND	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ARGUS PROPAN(SAUDI ARAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AUSTRIALIAN COKE COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT BALMO SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT CFD SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%

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## CME Group 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>Energy Futures</b>												
BRENT FINANCIAL FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	1,492,426	1,757,985	-15.11%	0	0	0.0%	25,575,616	25,107,509	1.9%
CANADIAN LIGHT SWEET OIL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CENTERPOINT BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHICAGO ETHANOL SWAP	0	0	0.0%	432	1	43,100.00%	0	0	0.0%	814	510	59.6%
CHICAGO ULSD PL VS HO SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHICAGO UNL GAS PL VS RBO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIG BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CINERGY HUB OFF-PEAK MON	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CINERGY HUB PEAK MONTH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIN HUB 5MW D AH O PK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CIN HUB 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIN HUB 5MW REAL TIME O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIN HUB 5MW REAL TIME PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COAL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COLUMB GULF MAINLINE NG B	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CONWAY NATURAL GASOLINE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CONWAY NORMAL BUTANE (O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CONWAY PROPANE 5 DECIMA	0	0	0.0%	0	0	0.00%	0	0	0.0%	120	144	-16.7%
CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL LAST DAY	0	-	-	0	-		0	-	-	0	-	-
CRUDE OIL OUTRIGHTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	50	-100.0%
CRUDE OIL PHY	0	0	0.0%	15,065,309	18,949,171	-20.50%	0	0	0.0%	268,219,219	285,895,950	-6.2%
CRUDE OIL SPRDS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL TRADE AT MARKE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DAILY PJM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DATED BRENT (PLATTS) DAILY	0	-	-	0	-		0	-	-	0	-	-
DATED TO FRONTLINE BRENT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DIESEL 10P BRG FOB RDM VS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
DOMINION TRAN INC - APP I	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DOMINION TRANSMISSION INC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DUBAI CRUDE OIL BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DUBAI CRUDE OIL CALENDAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DUTCH TTF NATURAL GAS CA	0	0	0.0%	13,122	21,086	-37.77%	0	0	0.0%	330,717	147,866	123.7%

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<b>Energy Futures</b>												
EASTERN RAIL DELIVERY CSX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EAST/WEST FUEL OIL SPREAD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EIA FLAT TAX ONHWAY DIESE	0	0	0.0%	0	0	0.00%	0	0	0.0%	6	0	0.0%
ELEC ERCOT DLY OFF PK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ELEC ERCOT DLY PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ELEC ERCOT OFF PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ELEC FINSETTLED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC MISO PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC NYISO OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELECTRICITY OFF PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ERCOT HOUSTON Z MCPE 5M	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ERCOT NORTH ZMCPE 5MW O	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ERCOT NORTH ZMCPE 5MW O	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ERCOT NORTH ZMCPE 5MW P	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ETHANOL	0	0	0.0%	244	2,686	-90.92%	0	0	0.0%	12,938	79,371	-83.7%
ETHANOL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ETHANOL T2 FOB ROTT INCL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO 1% FUEL OIL NEW BALM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO 3.5% FUEL OIL RDAM B	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO 3.5% FUEL OIL SPREAD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO-DENOMINATED PETRO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EURO GASOIL 10PPM VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL NWE CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL RDAM C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 3.5% FUEL OIL MED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 3.5% FUEL OIL RDAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPEAN GASOIL (ICE)	0	0	0.0%	38	40	-5.00%	0	0	0.0%	356	1,268	-71.9%
EUROPEAN NAPHTHA BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPEAN NAPHTHA CRACK S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE DATED BRENT SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE JET KERO NWE CALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE NAPHTHA CALSWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO PROPANE CIF ARA SW	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FREIGHT MARKETS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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<b>Energy Futures</b>												
FUEL OIL CRACK VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL NWE CRACK VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL (PLATS) CAR CM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL (PLATS) CAR CN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUELOIL SWAP:CARGOES VS.	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GAS EURO-BOB OXY NWE BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GAS EURO-BOB OXY NWE BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1CIF MED VS ICE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
GASOIL 0.1 CIF NWE VS ISE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 RDAM BRGS VS I	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 ROTTERDAM BAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 10PPM VS ICE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL CRACK SPREAD CALE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL MINI CALENDAR SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GERMAN POWER BASELOAD	0	0	0.0%	0	2,731	-100.00%	0	0	0.0%	8,776	26,684	-67.1%
GROUP THREE ULSD (PLATTS)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GROUP THREE UNLEAD GAS (	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GRP THREE ULSD(PLT)VS HEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GRP THREE UNL GS (PLT) VS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST 3% FUEL OIL BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST JET FUEL CLNDR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST JET VS NYM 2 H	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST NO.6 FUEL OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2	-100.0%
GULF COAST ULSD CALEND	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST ULSD CRACK SP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL BALMO CLNDR S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL CRCK SPRD BAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL PHY	0	0	0.0%	2,833,776	3,536,161	-19.86%	0	0	0.0%	41,682,189	40,452,276	3.0%
HENRY HUB BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HENRY HUB INDEX SWAP FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HENRY HUB SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	670	122	449.2%
HOUSTON SHIP CHANNEL BAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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<b>Energy Futures</b>												
HTG OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ICE BRENT DUBAI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IN DELIVERY MONTH EUA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
INDIANA MISO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
INDONESIAN COAL ICI4	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ISO NEW ENGLAND OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ISO NEW ENGLAND PK LMP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JAPAN C&F NAPHTHA CRACK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JAPAN C&F NAPHTHA SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JAPAN NAPHTHA BALMO SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET AV FUEL (P) CAR FM ICE G	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET CIF NWE VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET FUEL CRG CIF NEW VS I	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET FUEL UP-DOWN BALMO C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JKM LNG Futures	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA CARB DIESEL (OPIS) SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA CARBOB GASOLINE(OPIS)S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA JET (OPIS) SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS (ARGUS) CALENDAR SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LOS ANGELES CARB GASOLIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LTD NAT GAS	0	0	0.0%	226,746	136,721	65.85%	0	0	0.0%	2,244,653	1,849,674	21.4%
MARS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MARS (ARGUS) VS WTI TRD M	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	480	-100.0%
MARS BLEND CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	971	840	15.60%	0	0	0.0%	10,206	7,642	33.6%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	30	0	0.0%
MGF FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MGN1 SWAP FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MICHIGAN BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MICHIGAN MISO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MINI GAS EUROBOB OXY NWE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MINI RBOB V. EBOBARG NWE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MINI RBOB V. EBOB(ARGUS) N	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group 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>Energy Futures</b>												
MINY HTG OIL	0	0	0.0%	6	2	200.00%	0	0	0.0%	61	38	60.5%
MINY NATURAL GAS	0	0	0.0%	197,755	53,544	269.33%	0	0	0.0%	1,612,231	439,093	267.2%
MINY RBOB GAS	0	0	0.0%	7	4	75.00%	0	0	0.0%	85	73	16.4%
MINY WTI CRUDE OIL	0	0	0.0%	279,470	309,495	-9.70%	0	0	0.0%	6,834,996	5,470,936	24.9%
MJC FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MNC FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU ETHANE 5 DEC	0	0	0.0%	20	0	0.00%	0	0	0.0%	45	0	0.0%
MONT BELVIEU ETHANE OPIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU LDH PROPANE	0	0	0.0%	0	6	-100.00%	0	0	0.0%	174	124	40.3%
MONT BELVIEU LDH PROPANE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NAT GAS BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS	0	0	0.0%	36,220	39,141	-7.46%	0	0	0.0%	571,943	463,150	23.5%
NATURAL GAS PEN SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS PHY	0	0	0.0%	9,332,504	9,072,398	2.87%	0	0	0.0%	118,649,105	100,257,958	18.3%
NEPOOL CNCTCT 5MW D AH O	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL CONECTIC 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL INTR HUB 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL NE MASS 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL NE MASS 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL RHD ISLD 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL RHODE IL 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL W CNT MASS 5MW D	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL W CNTR M 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEW ENGLAND HUB PEAK DAI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK ETHANOL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE G PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE J PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NGPL MID-CONTINENT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NGPL TEX/OK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
N ILLINOIS HUB DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group 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>Energy Futures</b>												
N ILLINOIS HUB MTHLY	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NO 2 UP-DOWN SPREAD CALE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHEN NATURAL GAS DEM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHEN NATURAL GAS VEN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHWEST ROCKIES BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
N ROCKIES PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY1% VS GC SPREAD SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY 3.0% FUEL OIL (PLATTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR 1% FUEL OIL BAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	38	19	100.0%
NY HARBOR LOW SULPUR GA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR RESIDUAL FUEL 1	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR RESIDUAL FUEL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYH NO 2 CRACK SPREAD CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO CAPACITY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO J	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO J OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO ZONE A 5MW D AH O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE A 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE G 5MW D AH O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE G 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX ALUMINUM FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX ULSD VS NYMEX HO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY ULSD (ARGUS) VS HEATIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ONEOK OKLAHOMA NG BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ONTARIO POWER SWAPS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PANHANDLE BASIS SWAP FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PANHANDLE PIPE SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PERMIAN BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETROCHEMICALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS ASIA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS NA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group 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>Energy Futures</b>												
PETRO CRK&SPRD EURO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS ASIA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT EURO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT NA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM AD HUB 5MW REAL TIME	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM ATSI ELEC	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM BGE DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM BGE DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM COMED 5MW D AH O PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM COMED 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM DAYTON DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM DAYTON DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM MONTHLY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM NI HUB 5MW REAL TIME	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM NILL DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM NILL DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM OFF-PEAK LMP SWAP FU	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PECO ZONE5MW PEAK C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PSEG DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PSEG DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTH DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTHDA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTH RT OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTH RT PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PLASTICS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREMIUM UNLD 10P FOB MED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREMIUM UNLEAD 10PPM FOB	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREM UNL GAS 10PPM RDAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREM UNL GAS 10PPM RDAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PROPANE NON-LDH MB (OPIS)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PROPANE NON-LDH MT. BEL (	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group 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>Energy Futures</b>												
RBOB CRACK SPREAD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CRACK SPREAD BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB GASOLINE BALMO CLNC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB PHY	0	0	0.0%	3,300,079	3,284,092	0.49%	0	0	0.0%	44,465,723	47,066,537	-5.5%
RBOB SPREAD (PLATTS) SWA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
RBOB VS HEATING OIL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SAN JUAN BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SAN JUAN PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE 180CST BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE 380CST BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE 380CST FUEL OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL 180CST CAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL OIL SPREA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL CALEND	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO GASOI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KEROSENE S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO VS. GA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE NAPHTHA SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SING FUEL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SOUTH STAR TEX OKLHM KNS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Sumas Basis Swap	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TC2 ROTTERDAM TO USAC 37	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TC5 RAS TANURA TO YOKOHA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TCO BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TD3 MEG TO JAPAN 250K MT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TENNESSEE ZONE 0 BASIS S	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Tetco STX Basis	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%

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## CME Group 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>Energy Futures</b>												
TEXAS EASTERN ZONE M-3 BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TEXAS GAS ZONE1 NG BASIS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Transco Zone 3 Basis	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TRANSCO ZONE4 BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 6 BASIS SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
UCM FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
UK NBP NAT GAS CAL MTH FU	0	0	0.0%	1,820	1,106	64.56%	0	0	0.0%	5,759	7,445	-22.6%
ULSD 10PPM CIF MED VS ICE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ULSD UP-DOWN BALMO SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
UP DOWN GC ULSD VS NMX H	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WAHA BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WESTERN RAIL DELIVERY PR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI-BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI CALENDAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI MIDLAND CRUDE OIL	0	-	-	0	-	-	0	-	-	0	-	-
WTS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTS (ARGUS) VS WTI TRD MT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
<b>Energy Options</b>												
BRENT 1 MONTH CAL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT CRUDE OIL 12 M CSO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRENT CRUDE OIL 1 M CSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	1,800	-100.0%
BRENT CRUDE OIL 6 M CSO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	1,781	25,102	-92.90%	0	0	0.0%	152,393	709,897	-78.5%
COAL API2 INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COAL API4 INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
COAL SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL 1MO	0	0	0.0%	12,400	4,450	178.65%	0	0	0.0%	101,621	95,237	6.7%
CRUDE OIL APO	0	0	0.0%	0	0	0.00%	0	0	0.0%	3	3	0.0%

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## CME Group 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>Energy Options</b>												
CRUDE OIL CALNDR STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL PHY	0	0	0.0%	1,280,084	1,787,614	-28.39%	0	0	0.0%	25,103,951	27,496,661	-8.7%
ELEC FINSETTLED	0	-	-	0	-	-	0	-	-	0	-	-
ETHANOL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ETHANOL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FREIGHT MARKETS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL CRK SPD AVG P	0	-	-	0	-	-	0	-	-	0	-	-
HEATING OIL PHY	0	0	0.0%	1,416	3,014	-53.02%	0	0	0.0%	35,373	53,886	-34.4%
HENRY HUB FINANCIAL LAST	0	0	0.0%	27	0	0.00%	0	0	0.0%	47	94	-50.0%
HO 1 MONTH CLNDR OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 1 M CSO FIN	0	0	0.0%	1,150	6,900	-83.33%	0	0	0.0%	5,816	46,275	-87.4%
NATURAL GAS 2 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 3 M CSO FIN	0	0	0.0%	350	0	0.00%	0	0	0.0%	5,177	0	0.0%
NATURAL GAS 5 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 6 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS OPT	0	-	-	0	-	-	0	-	-	0	-	-
NATURAL GAS OPTION ON CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS PHY	0	0	0.0%	1,023,356	1,288,042	-20.55%	0	0	0.0%	15,810,500	12,706,592	24.4%
NATURAL GAS SUMMER STRIP	0	-	-	0	-	-	0	-	-	0	-	-
NATURAL GAS WINTER STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
N ROCKIES PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	1	10	-90.00%	0	0	0.0%	725	453	60.0%
NYISO ZONE G 5MW PEAK OP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PANHANDLE PIPE SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PETROCHEMICALS	0	0	0.0%	4	0	0.00%	0	0	0.0%	15	41	-63.4%
PETRO OUTRIGHT EURO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT NA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WES HUB PEAK CAL MTH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WES HUB PEAK LMP 50M	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB 1MO CAL SPD OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group 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>Energy Options</b>												
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CRACK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB PHY	0	0	0.0%	1,853	1,499	23.62%	0	0	0.0%	31,693	39,035	-18.8%
ROTTERDAM 3.5%FUEL OIL CL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SAN JUAN PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SHORT TERM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	44	-100.0%
SHORT TERM NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	88	-100.0%
SINGAPORE GASOIL CALENDAR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SINGAPORE JET FUEL CALENDAR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	0	1,750	-100.00%	0	0	0.0%	17,102	40,855	-58.1%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,200	8,600	-86.0%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	12	28	-57.14%	0	0	0.0%	98	176	-44.3%
AD/JY CROSS RATES	0	0	0.0%	1,873	2,528	-25.91%	0	0	0.0%	29,132	30,191	-3.5%
AD/NE CROSS RATES	0	0	0.0%	173	247	-29.96%	0	0	0.0%	3,054	1,913	59.6%
AUSTRALIAN DOLLAR	0	0	0.0%	2,331,997	2,318,055	0.60%	0	0	0.0%	25,842,040	25,140,801	2.8%
BP/JY CROSS RATES	0	0	0.0%	3,067	4,256	-27.94%	0	0	0.0%	36,686	37,075	-1.0%
BP/SF CROSS RATES	0	0	0.0%	580	315	84.13%	0	0	0.0%	4,826	4,652	3.7%
BRAZIL REAL	0	0	0.0%	204,054	164,321	24.18%	0	0	0.0%	2,299,969	1,670,698	37.7%
BRITISH POUND	0	0	0.0%	3,308,983	3,209,704	3.09%	0	3	-100.0%	27,830,067	30,386,352	-8.4%
CANADIAN DOLLAR	0	0	0.0%	1,893,478	1,924,958	-1.64%	0	3	-100.0%	19,420,460	19,924,660	-2.5%
CD/JY CROSS RATES	0	0	0.0%	11	47	-76.60%	0	0	0.0%	419	187	124.1%
CHINESE RENMINBI (CNH)	0	0	0.0%	35,857	19,945	79.78%	0	0	0.0%	277,441	329,043	-15.7%
CZECK KORUNA (EC)	0	0	0.0%	4	12	-66.67%	0	0	0.0%	30	42	-28.6%
CZECK KORUNA (US)	0	0	0.0%	0	0	0.00%	0	0	0.0%	2	0	0.0%
EC/AD CROSS RATES	0	0	0.0%	14,419	7,169	101.13%	0	0	0.0%	76,851	56,748	35.4%
EC/CD CROSS RATES	0	0	0.0%	9,635	8,839	9.01%	0	0	0.0%	55,649	41,721	33.4%
EC/NOK CROSS RATES	0	0	0.0%	559	777	-28.06%	0	0	0.0%	2,395	6,359	-62.3%
EC/SEK CROSS RATES	0	0	0.0%	1,404	1,994	-29.59%	0	0	0.0%	7,681	8,926	-13.9%
EFX/BP CROSS RATES	0	0	0.0%	117,405	124,935	-6.03%	0	0	0.0%	810,548	1,141,308	-29.0%

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## CME Group 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 Futures</b>												
EFX/JY CROSS RATES	0	0	0.0%	74,719	110,144	-32.16%	0	0	0.0%	669,029	837,259	-20.1%
EFX/SF CROSS RATES	0	0	0.0%	43,801	40,936	7.00%	0	0	0.0%	407,336	410,240	-0.7%
E-MINI EURO FX	0	0	0.0%	218,618	96,532	126.47%	0	0	0.0%	1,917,534	1,101,614	74.1%
E-MINI JAPANESE YEN	0	0	0.0%	9,129	12,383	-26.28%	0	0	0.0%	232,932	203,855	14.3%
EURO FX	0	3	-100.0%	5,854,145	5,707,184	2.58%	36	63	-42.9%	55,139,433	52,183,713	5.7%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	11	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	25	3	733.33%	0	0	0.0%	137	19	621.1%
INDIAN RUPEE	0	0	0.0%	18,439	29,596	-37.70%	0	0	0.0%	298,936	745,211	-59.9%
JAPANESE YEN	0	0	0.0%	2,592,479	3,060,345	-15.29%	0	2	-100.0%	28,876,974	32,486,852	-11.1%
KOREAN WON	0	0	0.0%	1,455	259	461.78%	0	0	0.0%	8,184	3,487	134.7%
MEXICAN PESO	0	0	0.0%	1,459,203	1,322,681	10.32%	0	0	0.0%	14,648,087	14,884,033	-1.6%
MICRO AUD/USD	0	0	0.0%	261,617	76,524	241.88%	0	0	0.0%	2,970,125	1,202,640	147.0%
MICRO CAD/USD	0	0	0.0%	32,267	16,511	95.43%	0	0	0.0%	360,021	201,285	78.9%
MICRO CHF/USD	0	0	0.0%	10,126	6,929	46.14%	0	0	0.0%	62,071	42,767	45.1%
MICRO EUR/USD	0	0	0.0%	614,152	155,409	295.18%	0	0	0.0%	6,046,141	2,640,604	129.0%
MICRO GBP/USD	0	0	0.0%	152,957	63,809	139.71%	0	0	0.0%	933,208	650,407	43.5%
MICRO INR/USD	0	0	0.0%	2,212	3,256	-32.06%	0	0	0.0%	26,073	55,850	-53.3%
MICRO JPY/USD	0	0	0.0%	29,039	15,755	84.32%	0	0	0.0%	348,677	318,376	9.5%
NEW ZEALND DOLLAR	0	0	0.0%	709,921	678,529	4.63%	0	0	0.0%	7,441,015	6,926,248	7.4%
NKR/USD CROSS RATE	0	0	0.0%	7,820	9,702	-19.40%	0	0	0.0%	55,922	60,852	-8.1%
POLISH ZLOTY (EC)	0	0	0.0%	148	2	7,300.00%	0	0	0.0%	740	454	63.0%
POLISH ZLOTY (US)	0	0	0.0%	1,300	285	356.14%	0	0	0.0%	10,050	1,663	504.3%
RMB USD	0	0	0.0%	0	1	-100.00%	0	0	0.0%	4	10	-60.0%
RUSSIAN RUBLE	0	0	0.0%	163,962	142,169	15.33%	0	0	0.0%	1,384,375	891,411	55.3%
S.AFRICAN RAND	0	0	0.0%	87,405	85,438	2.30%	0	0	0.0%	921,859	651,212	41.6%
SF/JY CROSS RATES	0	0	0.0%	4	25	-84.00%	0	0	0.0%	255	60	325.0%
SHEKEL	0	0	0.0%	10	20	-50.00%	0	0	0.0%	124	40	210.0%
SKR/USD CROSS RATES	0	0	0.0%	7,995	7,187	11.24%	0	0	0.0%	51,247	37,061	38.3%
SWISS FRANC	0	0	0.0%	618,861	797,905	-22.44%	0	0	0.0%	6,874,662	7,111,423	-3.3%
TURKISH LIRA	0	0	0.0%	0	15	-100.00%	0	0	0.0%	96	94	2.1%
USDZAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	20	-100.0%

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## CME Group 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>												
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	-36.99%	0	20	-100.0%	820,989	824,517	-0.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	561	0	0.00%	0	0	0.0%	6,144	21,655	-71.6%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,317	10,029	-76.90%	0	0	0.0%	43,661	72,030	-39.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,643	8,797	-69.96%	0	0	0.0%	41,552	77,735	-46.5%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,346	4,241	-68.26%	0	0	0.0%	44,598	76,112	-41.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	271	61	344.26%	0	0	0.0%	17,592	19,909	-11.6%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	521	1,169	-55.43%	0	0	0.0%	14,388	19,547	-26.4%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	908	2,087	-56.49%	0	0	0.0%	17,114	20,747	-17.5%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	842	484	73.97%	0	0	0.0%	9,324	9,331	-0.1%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,261	506	149.21%	0	0	0.0%	16,586	15,839	4.7%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	912	0	0.00%	0	0	0.0%	6,603	5,187	27.3%
BRITISH POUND (EU)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	22	0	0.00%	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	-20.27%	430	1,389	-69.0%	546,118	623,350	-12.4%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,977	0	0.00%	0	0	0.0%	15,410	36,274	-57.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,763	12,761	-70.51%	0	10	-100.0%	70,979	82,750	-14.2%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,222	12,822	-35.88%	0	0	0.0%	77,625	113,052	-31.3%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,348	11,402	-61.87%	0	0	0.0%	80,464	121,390	-33.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	322	684	-52.92%	0	0	0.0%	30,635	36,908	-17.0%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,531	102	1,400.98%	0	0	0.0%	25,598	33,792	-24.2%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	464	3,972	-88.32%	0	0	0.0%	18,412	40,528	-54.6%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	815	3,939	-79.31%	0	0	0.0%	21,090	36,726	-42.6%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	920	3,627	-74.63%	0	0	0.0%	26,241	34,789	-24.6%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,299	0	0.00%	0	0	0.0%	9,498	10,464	-9.2%

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## CME Group 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>												
CANADIAN DOLLAR (EU)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	2,435	6,137	-60.32%	0	0	0.0%	42,706	38,058	12.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	22	0	0.00%	0	0	0.0%	161	186	-13.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	9	173	-94.80%	0	0	0.0%	2,252	2,935	-23.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	59	376	-84.31%	0	0	0.0%	1,354	2,210	-38.7%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	7	285	-97.54%	0	0	0.0%	1,456	1,824	-20.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,824	613	197.6%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	0	0	0.00%	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	0.00%	-	0	0.0%	-	0	0.0%
EURO FX (EU)	-	0	0.0%	-	0	0.00%	-	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	-14.49%	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	0.00%	0	0	0.0%	35,651	110,935	-67.9%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	15,001	38,347	-60.88%	62	15	313.3%	219,335	306,968	-28.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	19,530	26,131	-25.26%	0	0	0.0%	237,509	342,894	-30.7%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	10,067	15,683	-35.81%	0	0	0.0%	246,398	379,256	-35.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	521	123	323.58%	0	0	0.0%	79,407	99,721	-20.4%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,589	12,274	-54.46%	0	0	0.0%	112,744	151,020	-25.3%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	7,992	12,935	-38.21%	0	0	0.0%	94,497	146,874	-35.7%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	11,036	12,251	-9.92%	0	0	0.0%	96,784	147,505	-34.4%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	9,479	9,731	-2.59%	0	0	0.0%	93,022	159,900	-41.8%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	9,881	0	0.00%	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	-18.10%	64	918	-93.0%	1,055,950	1,468,725	-28.1%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,989	0	0.00%	0	0	0.0%	11,476	29,987	-61.7%

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## CME Group 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>												
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,744	14,703	-81.34%	0	36	-100.0%	40,809	80,173	-49.1%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,985	8,969	0.18%	0	0	0.0%	52,773	101,854	-48.2%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,679	3,706	-0.73%	0	0	0.0%	39,756	92,305	-56.9%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	4	25	-84.00%	0	0	0.0%	16,266	29,326	-44.5%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	15	1,049	-98.57%	0	0	0.0%	19,135	24,094	-20.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,930	4,188	-53.92%	0	0	0.0%	13,484	31,716	-57.5%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	634	1,724	-63.23%	0	0	0.0%	18,835	28,143	-33.1%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	2,401	1,521	57.86%	0	0	0.0%	15,498	25,104	-38.3%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	481	0	0.00%	0	0	0.0%	7,661	8,595	-10.9%
JAPANESE YEN (EU)	-	0	0.0%	-	0	0.00%	-	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	-44.64%	727	222	227.5%	1,301,048	1,611,359	-19.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	3,033	0	0.00%	0	0	0.0%	20,175	56,218	-64.1%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	6,680	18,550	-63.99%	0	0	0.0%	122,980	121,980	0.8%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	12,903	12,053	7.05%	0	0	0.0%	141,745	167,079	-15.2%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	5,984	8,172	-26.77%	0	0	0.0%	128,713	153,884	-16.4%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	374	89	320.22%	0	0	0.0%	48,416	59,282	-18.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	638	4,911	-87.01%	0	0	0.0%	54,310	55,084	-1.4%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,213	5,953	-62.83%	0	0	0.0%	44,377	52,024	-14.7%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	1,532	2,944	-47.96%	0	0	0.0%	50,968	50,300	1.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,245	2,537	27.91%	0	0	0.0%	54,952	49,078	12.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	843	0	0.00%	0	0	0.0%	13,261	10,637	24.7%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	397	720	-44.86%	1,840	1,145	60.7%	17,641	15,519	13.7%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	4,413	1,200	267.8%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	486	0	0.00%	0	0	0.0%	3,274	528	520.1%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	2,174	1,350	61.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	3,159	530	496.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	152	28	442.9%
NZD/USD MONTHLY OPTIONS	0	0	0.0%	19	1,439	-98.68%	0	0	0.0%	4,984	9,173	-45.7%
NZD/USD WKLY FRIDAY OPTIO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%

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<b>FX Options</b>												
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	2	-100.00%	0	0	0.0%	50	172	-70.9%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	200	-100.00%	0	0	0.0%	0	506	-100.0%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	200	-100.00%	0	0	0.0%	375	950	-60.5%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	100	-100.0%
RUB/USD MONTHLY OPTIONS	0	-	-	67	-	-	0	-	-	636	-	-
<b>Ags Futures</b>												
FERTILIZER PRODUCTS	0	0	0.0%	4	0	0.00%	0	0	0.0%	94	0	0.0%
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
<b>Foreign Exchange Options</b>												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	373	936	-60.15%	0	0	0.0%	7,831	9,855	-20.5%
<b>Ag Products Futures</b>												
BUTTER CS	0	0	0.0%	5,687	5,141	10.62%	0	0	0.0%	64,989	51,967	25.1%
CASH-SETTLED CHEESE	0	0	0.0%	15,912	12,513	27.16%	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	-6.47%	2,592	12,679	-79.6%	16,097,985	16,677,982	-3.5%
CAT WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	50	25	100.0%
CHI WHEAT	0	4,583	-100.0%	2,049,563	1,750,879	17.06%	12,092	79,441	-84.8%	33,125,975	30,137,249	9.9%

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<b>Ag Products Futures</b>												
CLASS IV MILK	0	0	0.0%	602	2,086	-71.14%	65	158	-58.9%	22,833	26,279	-13.1%
COCOA TAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	8	-100.0%
COFFEE	0	0	0.0%	0	0	0.00%	0	0	0.0%	2	2	0.0%
CORN	0	5,353	-100.0%	5,059,888	3,617,256	39.88%	18,145	252,476	-92.8%	86,723,337	99,924,184	-13.2%
COTTON	0	0	0.0%	2	1	100.00%	0	0	0.0%	59	39	51.3%
DJ_UBS ROLL SELECT INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DOW-UBS COMMOD INDEX	0	0	0.0%	53,537	53,543	-0.01%	0	0	0.0%	354,195	522,427	-32.2%
DRY WHEY	0	0	0.0%	2,762	1,324	108.61%	0	0	0.0%	18,662	15,013	24.3%
FEEDER CATTLE	0	11	-100.0%	245,495	243,791	0.70%	54	216	-75.0%	3,224,391	3,606,565	-10.6%
FERTILIZER PRODUCS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	12,797	20,392	-37.24%	0	0	0.0%	174,903	327,866	-46.7%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	85	421	-79.8%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	25	0	0.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOGS	0	841	-100.0%	682,777	885,478	-22.89%	1,940	17,982	-89.2%	12,372,698	15,579,823	-20.6%
HOUSING INDEX	0	0	0.0%	6	6	0.00%	0	0	0.0%	270	148	82.4%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
KC WHEAT	0	3,148	-100.0%	649,669	903,889	-28.13%	1,534	12,833	-88.0%	13,386,117	15,037,773	-11.0%
LUMBER	0	0	0.0%	14,025	11,805	18.81%	0	0	0.0%	155,138	161,985	-4.2%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	0	105	-100.0%	36,974	33,241	11.23%	59	461	-87.2%	422,799	332,466	27.2%
MINI CORN	0	0	0.0%	34,711	9,893	250.86%	0	0	0.0%	333,324	172,423	93.3%
MINI SOYBEAN	0	0	0.0%	68,195	23,476	190.49%	0	0	0.0%	503,970	227,736	121.3%
MINI WHEAT	0	0	0.0%	18,641	4,834	285.62%	0	0	0.0%	175,005	88,311	98.2%
MLK MID OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NFD MILK	0	0	0.0%	4,593	6,328	-27.42%	0	19	-100.0%	88,611	73,618	20.4%
OATS	0	0	0.0%	8,537	9,028	-5.44%	0	0	0.0%	133,444	153,580	-13.1%
PACIFIC RIM DAT SS WTHR	0	-	-	0	-		0	-	-	0	-	-
PORK CUTOUT	0	-	-	2,056	-		0	-	-	4,423	-	-
ROUGH RICE	0	0	0.0%	28,662	29,692	-3.47%	0	31	-100.0%	245,280	244,928	0.1%
SOYBEAN	0	3,433	-100.0%	5,813,030	4,790,842	21.34%	10,769	68,339	-84.2%	58,146,296	50,758,520	14.6%
SOYBEAN MEAL	0	1,216	-100.0%	2,445,807	2,927,060	-16.44%	1,333	13,074	-89.8%	28,995,628	28,443,379	1.9%

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## CME Group 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>Ag Products Futures</b>												
SOYBEAN OIL	0	3,569	-100.0%	2,850,556	3,162,634	-9.87%	4,078	11,244	-63.7%	32,371,016	30,994,968	4.4%
S&P GSCI ENHANCED ER SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SUGAR 11	0	0	0.0%	0	0	0.00%	0	0	0.0%	10	10	0.0%
USD CRUDE PALM OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WHEAT	0	0	0.0%	4,631	511	806.26%	0	0	0.0%	29,248	8,801	232.3%
<b>Ag Products Options</b>												
AUG-NOV SOYBEAN CAL SPR	0	-	-	0	-	-	0	-	-	77	-	-
BUTTER CS	0	20	-100.0%	2,246	1,609	39.59%	212	4,966	-95.7%	32,781	30,693	6.8%
CASH-SETTLED CHEESE	0	2,701	-100.0%	11,345	8,000	41.81%	7,734	20,288	-61.9%	138,662	93,514	48.3%
CATTLE	0	13,063	-100.0%	174,494	127,696	36.65%	59,913	283,343	-78.9%	2,599,917	2,129,473	22.1%
CAT WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHI WHEAT	0	57,405	-100.0%	458,841	445,934	2.89%	202,275	1,037,318	-80.5%	7,421,926	6,234,931	19.0%
CLASS IV MILK	0	0	0.0%	1,446	2,391	-39.52%	1,082	3,605	-70.0%	46,839	36,367	28.8%
CORN	0	137,533	-100.0%	2,413,476	926,485	160.50%	536,597	4,700,281	-88.6%	23,660,707	26,458,060	-10.6%
CORN NEARBY+2 CAL SPRD	0	1,850	-100.0%	265	0	0.00%	14,975	79,693	-81.2%	52,254	3,352	1,458.9%
DEC-DEC CORN CAL SPRD	0	0	0.0%	0	0	0.00%	250	14,198	-98.2%	1,885	4,596	-59.0%
DEC-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	175	27,519	-99.4%	3,567	236	1,411.4%
DEC-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	100	-100.0%	1,595	2	79,650.0%
DRY WHEY	0	2	-100.0%	519	160	224.38%	119	749	-84.1%	5,824	7,366	-20.9%
FEEDER CATTLE	0	383	-100.0%	18,508	16,928	9.33%	4,252	21,210	-80.0%	293,646	320,378	-8.3%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD WEATHER	0	0	0.0%	0	0	0.00%	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	-50.92%	34,430	335,399	-89.7%	2,886,738	3,838,920	-24.8%
HOUSING INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	7	-100.0%
Intercommodity Spread	0	7,290	-100.0%	0	6	-100.00%	7,987	13,609	-41.3%	3,299	11	29,890.9%
JAN-MAR SOYBEAN CSO	0	-	-	0	-	-	0	-	-	20	-	-
JULY-DEC CORN CAL SPRD	0	2,020	-100.0%	880	500	76.00%	11,810	19,652	-39.9%	13,577	1,652	721.9%
JULY-DEC SOYMEAL CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group 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>Ag Products Options</b>												
JULY-DEC SOY OIL CAL SPRD	0	-	-	0	-		0	-	-	125	-	-
JULY-DEC WHEAT CAL SPRD	0	700	-100.0%	0	0	0.00%	1,520	2,200	-30.9%	2,136	0	0.0%
JULY-JULY WHEAT CAL SPRD	0	-	-	30	-		50	-	-	110	-	-
JULY-NOV SOYBEAN CAL SPR	0	1,727	-100.0%	900	1,460	-38.36%	4,950	7,972	-37.9%	10,053	3,080	226.4%
KC WHEAT	0	21,059	-100.0%	38,459	95,238	-59.62%	36,570	248,839	-85.3%	1,061,407	869,032	22.1%
LUMBER	0	0	0.0%	1,011	1,058	-4.44%	0	70	-100.0%	10,497	19,830	-47.1%
LV CATL CSO	0	40	-100.0%	0	0	0.00%	0	589	-100.0%	0	0	0.0%
MAR-DEC CORN CAL SPRD	0	375	-100.0%	30	0	0.00%	505	384	31.5%	30	0	0.0%
MAR-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	2,500	4,040	-38.1%	500	0	0.0%
MAR-JULY SOYBEAN CAL SPR	0	-	-	0	-		0	-	-	20	-	-
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	100	0	0.00%	0	0	0.0%	540	30	1,700.0%
MILK	0	1,534	-100.0%	31,080	35,203	-11.71%	3,323	24,600	-86.5%	525,467	430,868	22.0%
MLK MID OPTIONS	0	15	-100.0%	12	0	0.00%	31	50	-38.0%	105	194	-45.9%
NFD MILK	0	58	-100.0%	2,590	2,434	6.41%	494	2,116	-76.7%	69,872	57,583	21.3%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	1,050	-100.0%	2,670	2,500	6.8%
NOV-MAR SOYBEAN CSO	0	0	0.0%	0	0	0.00%	100	20	400.0%	1,335	0	0.0%
NOV-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	614	-100.0%	180	2,214	-91.9%
OATS	0	0	0.0%	116	23	404.35%	720	2,494	-71.1%	2,601	2,176	19.5%
PORK CUTOUT	0	-	-	178	-		0	-	-	181	-	-
ROUGH RICE	0	562	-100.0%	49	432	-88.66%	6,492	23,391	-72.2%	14,121	10,486	34.7%
SEP-DEC SOYBEAN MEAL CSC	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SOYBEAN	0	115,376	-100.0%	2,214,411	984,417	124.95%	275,778	1,590,683	-82.7%	16,515,166	11,834,441	39.6%
SOYBEAN CRUSH	0	28	-100.0%	180	0	0.00%	830	334	148.5%	3,327	0	0.0%
SOYBEAN MEAL	0	27,273	-100.0%	271,861	163,161	66.62%	84,223	400,158	-79.0%	2,880,813	1,585,430	81.7%
SOYBEAN OIL	0	41,795	-100.0%	452,370	183,520	146.50%	106,072	269,050	-60.6%	2,564,671	1,313,800	95.2%
SOYBN NEARBY+2 CAL SPRD	0	900	-100.0%	200	0	0.00%	335	4,425	-92.4%	13,325	2,000	566.3%
SOYMEAL NEARBY+2 CAL SPR	0	0	0.0%	0	0	0.00%	200	490	-59.2%	0	0	0.0%
WHEAT	0	1,234	-100.0%	1,811	3,338	-45.75%	16	12,034	-99.9%	14,235	13,444	5.9%
WHEAT-CORN ICSCO	0	0	0.0%	29	0	0.00%	70	2,880	-97.6%	6,293	0	0.0%
WHEAT NEARBY+2 CAL SPRD	0	375	-100.0%	0	0	0.00%	1,251	2,815	-55.6%	6,876	300	2,192.0%

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## CME Group 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 FUTURES GROUP</b>												
Interest Rate Futures	137,810	531,376	-74.1%	88,120,861	101,988,265	-13.6%	3,890,291	10,908,455	-64.3%	1,514,059,112	1,828,186,514	-17.2%
Equity Index Futures	0	45,694	-100.0%	91,153,858	60,635,459	50.3%	33,712	271,389	-87.6%	1,240,026,871	701,606,937	76.7%
Metals Futures	0	0	0.0%	9,603,115	9,606,439	0.0%	0	0	0.0%	155,799,425	144,658,227	7.7%
Energy Futures	0	0	0.0%	32,780,945	37,167,210	-11.8%	0	0	0.0%	510,226,470	507,274,921	0.6%
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%
Ags Futures	0	0	0.0%	4	0	0.0%	0	0	0.0%	94	0	0.0%
Foreign Exchange Futures	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Ag Products Futures	0	22,632	-100.0%	21,011,196	19,470,147	7.9%	52,661	468,953	-88.8%	287,332,454	293,700,688	-2.2%
<b>TOTAL FUTURES</b>	<b>137,810</b>	<b>599,705</b>	<b>-77.0%</b>	<b>263,565,299</b>	<b>249,095,184</b>	<b>5.8%</b>	<b>3,976,700</b>	<b>11,648,868</b>	<b>-65.9%</b>	<b>3,913,827,032</b>	<b>3,677,856,899</b>	<b>6.4%</b>
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	0	798,614	-100.0%	10,746,847	13,171,882	-18.4%	1,658,011	8,217,524	-79.8%	175,695,000	154,057,401	14.0%
Interest Rate Options	4,941,966	12,685,702	-61.0%	14,514,173	27,949,317	-48.1%	96,789,095	274,640,277	-64.8%	332,112,127	372,901,428	-10.9%
Metals Options	0	0	0.0%	772,350	986,579	-21.7%	0	0	0.0%	14,333,157	15,782,098	-9.2%
Energy Options	0	0	0.0%	2,322,422	3,118,381	-25.5%	0	0	0.0%	41,265,616	41,199,561	0.2%
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	449,486	-100.0%	6,211,558	3,232,526	92.2%	1,407,841	9,163,228	-84.6%	60,869,970	55,306,966	10.1%
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>13,934,084</b>	<b>-64.5%</b>	<b>35,230,849</b>	<b>49,337,923</b>	<b>-28.6%</b>	<b>99,859,620</b>	<b>292,034,445</b>	<b>-65.8%</b>	<b>634,249,995</b>	<b>651,901,519</b>	<b>-2.7%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	5,079,776	13,217,078	-61.6%	102,635,034	129,937,582	-21.0%	100,679,386	285,548,732	-64.7%	1,846,171,239	2,201,087,942	-16.1%
Equity Index	0	844,308	-100.0%	101,900,705	73,807,341	38.1%	1,691,723	8,488,913	-80.1%	1,415,721,871	855,664,338	65.5%
Metals	0	0	0.0%	10,375,465	10,593,018	-2.1%	0	0	0.0%	170,132,582	160,440,325	6.0%
Energy	0	0	0.0%	35,103,367	40,285,591	-12.9%	0	0	0.0%	551,492,086	548,474,482	0.6%
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%
Ags	0	0	0.0%	4	0	0.0%	0	0	0.0%	94	0	0.0%
Foreign Exchange	0	0	0.0%	373	936	-60.1%	0	0	0.0%	7,831	9,855	-20.5%
Ag Products	0	472,118	-100.0%	27,222,754	22,702,673	19.9%	1,460,502	9,632,181	-84.8%	348,202,424	349,007,654	-0.2%
<b>GRAND TOTAL</b>	<b>5,079,776</b>	<b>14,533,789</b>	<b>-65.0%</b>	<b>298,796,148</b>	<b>298,433,107</b>	<b>0.1%</b>	<b>103,836,320</b>	<b>303,683,313</b>	<b>-65.8%</b>	<b>4,548,077,027</b>	<b>4,329,758,418</b>	<b>5.0%</b>

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