

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2021	Open Outcry NOV 2020	% CHG	ELEC NOV 2021	ELEC NOV 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>Interest Rate Futures</b>												
10-YR NOTE	0	0	0.0%	48,429,219	40,590,879	19.31%	0	469,469	-100.0%	431,487,230	372,135,743	15.9%
10-YR SWAP RATE	0	0	0.0%	25,462	26,222	-2.90%	0	0	0.0%	577,845	477,646	21.0%
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	0	0.00%	0	0	0.0%	2	826	-99.8%
20-YR SWAP RATE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
2-YR NOTE	0	0	0.0%	15,047,457	11,012,955	36.63%	0	261	-100.0%	99,337,894	112,770,121	-11.9%
2-YR SWAP RATE	0	0	0.0%	54,717	65,442	-16.39%	0	0	0.0%	844,894	154,567	446.6%
30-YR BOND	0	0	0.0%	11,833,102	11,060,181	6.99%	0	55,491	-100.0%	104,799,554	86,126,182	21.7%
30-YR SWAP RATE	0	0	0.0%	0	0	0.00%	0	0	0.0%	374	822	-54.5%
3-YR NOTE	0	0	0.0%	411,243	135,728	202.99%	0	0	0.0%	2,386,604	513,528	364.7%
3-YR SWAP RATE	0	0	0.0%	12,525	893	1,302.58%	0	0	0.0%	46,697	24,812	88.2%
4-YR SWAP RATE	0	0	0.0%	2,428	530	358.11%	0	0	0.0%	25,637	14,252	79.9%
5-YR NOTE	0	0	0.0%	34,128,202	25,255,430	35.13%	0	87,402	-100.0%	255,308,193	218,747,604	16.7%
5-YR SWAP RATE	0	0	0.0%	80,232	38,975	105.86%	0	0	0.0%	806,561	542,581	48.7%
7-YR SWAP RATE	0	0	0.0%	1,255	1,662	-24.49%	0	0	0.0%	22,066	18,140	21.6%
EURODOLLARS	748,494	193,976	285.9%	58,993,108	38,919,135	51.58%	5,298,938	3,139,858	68.8%	553,044,269	468,494,430	18.0%
FED FUND	0	0	0.0%	4,592,868	1,299,793	253.35%	0	0	0.0%	24,391,615	49,884,780	-51.1%
SOFR	0	0	0.0%	6,354,343	1,689,834	276.03%	0	0	0.0%	33,003,742	10,905,979	202.6%
SONIA	0	0	0.0%	5,403	201,932	-97.32%	0	0	0.0%	803,512	1,875,376	-57.2%
TIIE	0	-	-	39	-	-	0	-	-	818	-	-
Ultra 10-Year Note	0	0	0.0%	11,471,799	7,586,745	51.21%	0	0	0.0%	84,746,074	57,765,677	46.7%
ULTRA T-BOND	0	0	0.0%	7,051,033	6,068,594	16.19%	0	0	0.0%	51,913,950	45,485,185	14.1%

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<b>Interest Rate Options</b>												
10-YR NOTE	0	0	0.0%	14,783,306	9,632,619	53.47%	0	8,489,760	-100.0%	145,731,014	107,877,260	35.1%
2-YR NOTE	0	0	0.0%	47,168	19,289	144.53%	0	273,359	-100.0%	183,439	1,767,678	-89.6%
30-YR BOND	0	0	0.0%	3,354,638	3,229,407	3.88%	0	891,042	-100.0%	30,178,952	27,469,654	9.9%
5-YR NOTE	0	0	0.0%	4,822,592	1,442,434	234.34%	0	2,424,616	-100.0%	35,568,513	26,739,980	33.0%
EURODOLLARS	6,461,923	2,716,933	137.8%	3,400,734	1,968,878	72.72%	34,159,511	55,478,560	-38.4%	17,979,963	104,682,293	-82.8%
EURO MIDCURVE	11,295,273	3,973,344	184.3%	7,157,925	2,736,925	161.53%	117,612,603	24,262,777	384.7%	62,810,946	49,043,538	28.1%
FED FUND	0	0	0.0%	0	1	-100.00%	0	3,100	-100.0%	0	7,822	-100.0%
SOFR	0	0	0.0%	15	2,002	-99.25%	7,310	10	73,000.0%	1,442	3,114	-53.7%
Ultra 10-Year Note	0	0	0.0%	0	0	0.00%	0	13,035	-100.0%	46	2,965	-98.4%
ULTRA T-BOND	0	0	0.0%	583	621	-6.12%	0	10,870	-100.0%	7,359	3,650	101.6%
<b>Equity Index Futures</b>												
BITCOIN FUTURES	0	0	0.0%	192,986	227,260	-15.08%	0	0	0.0%	2,329,055	1,969,054	18.3%
DJ US REAL ESTATE	0	0	0.0%	19,841	25,156	-21.13%	0	0	0.0%	355,714	378,596	-6.0%
E-mini (\$5) Dow	0	0	0.0%	3,521,432	3,677,397	-4.24%	0	0	0.0%	40,104,864	55,867,239	-28.2%
E-MINI COM SERVICES SELEC	0	0	0.0%	1,601	1,801	-11.10%	0	0	0.0%	29,251	25,584	14.3%
E-mini FTSE 100 (USD)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
E-mini FTSE China 50	0	0	0.0%	94	0	0.00%	0	0	0.0%	759	2	37,850.0%
E-MINI MIDCAP	0	0	0.0%	282,904	248,875	13.67%	0	0	0.0%	2,847,460	3,927,025	-27.5%
E-MINI NASDAQ 100	0	0	0.0%	11,762,671	10,297,922	14.22%	0	0	0.0%	125,403,409	135,971,821	-7.8%
E-MINI RUSSELL 1000	0	0	0.0%	2,443	1,413	72.89%	0	0	0.0%	47,087	36,264	29.8%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	2,215	1,899	16.64%	0	0	0.0%	33,604	31,075	8.1%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	6,033	6,017	0.27%	0	0	0.0%	83,880	65,214	28.6%
E-MINI RUSSELL 2000	0	0	0.0%	4,283,143	3,378,877	26.76%	0	0	0.0%	44,953,808	46,376,740	-3.1%
E-MINI S&P500	0	0	0.0%	29,093,730	30,990,469	-6.12%	0	0	0.0%	356,576,880	465,525,551	-23.4%
E-MINI S&P500 ESG	0	0	0.0%	10,396	16,327	-36.33%	0	0	0.0%	143,045	75,135	90.4%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	2,065	1,931	6.94%	0	0	0.0%	45,390	51,775	-12.3%
ETHER FUTURES	0	-	-	121,928	-		0	-	-	796,866	-	-
FT-SE 100	0	0	0.0%	26	8	225.00%	0	0	0.0%	284	8	3,450.0%
FTSE Emerging	0	0	0.0%	0	30	-100.00%	0	0	0.0%	5	4,773	-99.9%
IBOVESPA INDEX	0	0	0.0%	266	143	86.01%	0	0	0.0%	2,499	4,481	-44.2%

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<b>Equity Index Futures</b>												
MICRO BITCOIN FUTURES	0	-	-	579,866	-		0	-	-	3,307,940	-	-
MICRO E-MINI NASDAQ 100	0	0	0.0%	21,324,242	20,097,956	6.10%	0	0	0.0%	214,500,635	162,255,471	32.2%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	3,738,620	1,719,147	117.47%	0	0	0.0%	35,076,511	21,689,769	61.7%
MICRO E-MINI S&P500	0	0	0.0%	18,104,077	20,549,363	-11.90%	0	0	0.0%	196,653,723	210,490,517	-6.6%
MICRO MINI \$5 DOW	0	0	0.0%	2,925,417	2,922,025	0.12%	0	0	0.0%	29,998,564	29,864,153	0.5%
NASDAQ-100 VOLATILITY	0	0	0.0%	14	6	133.33%	0	0	0.0%	111	17	552.9%
NASDAQ BIOTECH	0	0	0.0%	53	325	-83.69%	0	0	0.0%	5,624	5,270	6.7%
Nearby BTIC+	0	0	0.0%	0	0	0.00%	0	0	0.0%	456	200	128.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	98,152	152,649	-35.70%	0	0	0.0%	1,428,930	2,125,179	-32.8%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	654,782	815,551	-19.71%	0	0	0.0%	7,376,114	10,596,435	-30.4%
S&P 500	0	0	0.0%	449	339	32.45%	0	33,712	-100.0%	13,236	20,841	-36.5%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	14,047	16,646	-15.61%	0	0	0.0%	150,355	245,022	-38.6%
S&P 500/GI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	160	1,084	-85.24%	0	0	0.0%	1,024	9,639	-89.4%
S&P 600 SMALLCAP EMINI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
S&P CONSUMER DSCRTNRY S	0	0	0.0%	10,832	7,998	35.43%	0	0	0.0%	106,936	79,678	34.2%
S&P CONSUMER STAPLES SE	0	0	0.0%	7,959	7,673	3.73%	0	0	0.0%	181,374	127,901	41.8%
S&P ENERGY SECTOR	0	0	0.0%	21,956	28,063	-21.76%	0	0	0.0%	299,770	213,383	40.5%
S&P FINANCIAL SECTOR	0	0	0.0%	20,857	21,087	-1.09%	0	0	0.0%	328,787	197,034	66.9%
S&P HEALTH CARE SECTOR	0	0	0.0%	11,707	14,152	-17.28%	0	0	0.0%	165,740	140,670	17.8%
S&P INDUSTRIAL SECTOR	0	0	0.0%	5,998	9,992	-39.97%	0	0	0.0%	109,387	99,632	9.8%
S&P MATERIALS SECTOR	0	0	0.0%	5,074	5,654	-10.26%	0	0	0.0%	91,149	56,701	60.8%
S&P TECHNOLOGY SECTOR	0	0	0.0%	8,247	8,636	-4.50%	0	0	0.0%	126,298	117,702	7.3%
S&P UTILITIES SECTOR	0	0	0.0%	16,313	10,080	61.84%	0	0	0.0%	178,903	151,274	18.3%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WATER INDEX FUTURES	0	-	-	1	-		0	-	-	947	-	-
YEN DENOMINATED TOPIX	0	0	0.0%	4,039	5,783	-30.16%	0	0	0.0%	27,333	76,188	-64.1%

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<b>Equity Index Options</b>												
BITCOIN OPTIONS	0	0	0.0%	1,233	2,135	-42.25%	0	0	0.0%	12,548	16,550	-24.2%
E-mini (\$5) Dow	0	0	0.0%	6,781	1,903	256.33%	0	0	0.0%	23,798	31,768	-25.1%
E-MINI NASDAQ 100	0	0	0.0%	643,663	310,188	107.51%	0	0	0.0%	6,292,612	3,766,687	67.1%
E-MINI RUSSELL 2000	0	0	0.0%	59,509	37,651	58.05%	0	0	0.0%	336,396	213,671	57.4%
E-MINI S&P500	0	0	0.0%	8,694,382	5,314,982	63.58%	0	250	-100.0%	70,073,990	78,809,682	-11.1%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	25,721	7,807	229.46%	0	0	0.0%	231,539	97,013	138.7%
EOM EMINI S&P	0	0	0.0%	2,474,645	1,229,216	101.32%	0	0	0.0%	21,951,890	21,781,498	0.8%
EOM S&P 500	0	0	0.0%	0	0	0.00%	0	303,360	-100.0%	2,158	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	20,087	3,422	487.00%	0	0	0.0%	131,355	47,879	174.3%
EOW1 EMINI S&P 500	0	0	0.0%	1,496,207	1,031,094	45.11%	0	0	0.0%	11,557,851	11,630,596	-0.6%
EOW1 S&P 500	0	0	0.0%	0	0	0.00%	0	157,788	-100.0%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	16,537	5,706	189.82%	0	0	0.0%	149,116	72,435	105.9%
EOW2 EMINI S&P 500	0	0	0.0%	1,394,683	1,006,131	38.62%	0	0	0.0%	12,449,419	11,932,876	4.3%
EOW2 S&P 500	0	0	0.0%	0	0	0.00%	0	252,530	-100.0%	0	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	38,925	15,471	151.60%	0	0	0.0%	352,786	190,609	85.1%
EOW3 EMINI S&P 500	0	0	0.0%	2,352,269	1,755,216	34.02%	0	0	0.0%	24,287,132	26,150,593	-7.1%
EOW3 S&P 500	0	0	0.0%	0	0	0.00%	0	266,271	-100.0%	0	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	14,631	4,009	264.95%	0	0	0.0%	162,877	40,501	302.2%
EOW4 EMINI S&P 500	0	0	0.0%	1,207,914	516,251	133.98%	0	0	0.0%	10,221,518	9,681,558	5.6%
MICRO E-MINI NASDAQ	0	0	0.0%	8,191	956	756.80%	0	0	0.0%	64,206	4,379	1,366.2%
MICRO E-MINI NASDAQ 100	0	-	-	8,936	-		0	-	-	12,142	-	-
MICRO E-MINI NASDAQ END O	0	0	0.0%	8,941	432	1,969.68%	0	0	0.0%	84,773	4,821	1,658.4%
MICRO E-MINI NASDAQ WEEKL	0	0	0.0%	29,438	5,873	401.24%	0	0	0.0%	230,770	20,811	1,008.9%
MICRO E-MINI S&P 500	0	0	0.0%	41,537	18,680	122.36%	0	0	0.0%	320,699	64,255	399.1%
MICRO E-MINI S&P 500 END OF	0	0	0.0%	58,862	13,507	335.79%	0	0	0.0%	443,166	96,710	358.2%
MICRO E-MINI S&P 500 WEEKL	0	0	0.0%	147,115	76,672	91.88%	0	0	0.0%	1,040,731	284,788	265.4%
S&P 500	0	0	0.0%	0	560	-100.00%	0	677,812	-100.0%	200	8,473	-97.6%

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<b>Metals Futures</b>												
ALUMINUM	0	0	0.0%	14,256	2,985	377.59%	0	0	0.0%	135,743	46,700	190.7%
COBALT METAL FUTURES	0	-	-	0	-		0	-	-	12	-	-
COMEX COPPER	0	0	0.0%	1,966,288	2,189,501	-10.19%	0	0	0.0%	23,211,431	22,592,578	2.7%
COMEX E-Mini GOLD	0	0	0.0%	26,937	26,345	2.25%	0	0	0.0%	253,486	362,461	-30.1%
COMEX E-Mini SILVER	0	0	0.0%	5,279	5,293	-0.26%	0	0	0.0%	64,421	99,922	-35.5%
COMEX GOLD	0	0	0.0%	5,969,316	6,004,279	-0.58%	0	0	0.0%	54,261,663	72,029,801	-24.7%
COMEX MINY COPPER	0	0	0.0%	8,864	2,142	313.82%	0	0	0.0%	55,837	11,907	368.9%
COMEX SILVER	0	0	0.0%	1,850,135	2,115,311	-12.54%	0	0	0.0%	18,338,970	24,007,452	-23.6%
COPPER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FERROUS PRODUCTS	0	0	0.0%	174	2,142	-91.88%	0	0	0.0%	7,280	12,691	-42.6%
GOLD	0	0	0.0%	15,281	4,375	249.28%	0	0	0.0%	90,337	77,275	16.9%
HOT ROLLED COIL STEEL FUT	0	0	0.0%	422	614	-31.27%	0	0	0.0%	2,075	666	211.6%
IRON ORE 62 CHINA PLATTS F	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
IRON ORE 62 CHINA TSI FUTU	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	209	-100.0%
IRON ORE CHINA	0	0	0.0%	0	0	0.00%	0	0	0.0%	16	0	0.0%
LNDN ZINC	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
METALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MICRO GOLD	0	0	0.0%	1,271,788	1,588,687	-19.95%	0	0	0.0%	13,194,542	20,183,639	-34.6%
NYMEX HOT ROLLED STEEL	0	0	0.0%	2,182	4,373	-50.10%	0	0	0.0%	44,468	48,958	-9.2%
NYMEX PLATINUM	0	0	0.0%	354,641	272,225	30.27%	0	0	0.0%	3,904,945	3,953,565	-1.2%
PALLADIUM	0	0	0.0%	81,913	56,957	43.82%	0	0	0.0%	539,833	621,104	-13.1%
SILVER	0	0	0.0%	131,283	238,618	-44.98%	0	0	0.0%	2,101,191	2,147,327	-2.1%
URANIUM	0	0	0.0%	0	0	0.00%	0	0	0.0%	543	55	887.3%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2021	Open Outcry NOV 2020	% CHG	ELEC NOV 2021	ELEC NOV 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>Metals Options</b>												
ALUMINUM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COMEX COPPER	0	0	0.0%	33,179	17,712	87.32%	0	0	0.0%	451,680	262,908	71.8%
COMEX GOLD	0	0	0.0%	716,061	811,693	-11.78%	0	0	0.0%	6,484,095	9,780,721	-33.7%
COMEX SILVER	0	0	0.0%	104,964	131,066	-19.92%	0	0	0.0%	1,471,653	1,883,937	-21.9%
COPPER	0	0	0.0%	139	4	3,375.00%	0	0	0.0%	338	2,679	-87.4%
GOLD	0	0	0.0%	223,510	129,584	72.48%	0	0	0.0%	1,796,817	1,530,106	17.4%
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%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX HOT ROLLED STEEL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX PLATINUM	0	0	0.0%	805	239	236.82%	0	0	0.0%	5,664	5,648	0.3%
PALLADIUM	0	0	0.0%	18	46	-60.87%	0	0	0.0%	710	1,452	-51.1%
SILVER	0	0	0.0%	17,229	4,022	328.37%	0	0	0.0%	127,880	93,356	37.0%
<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	0.00%	-	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%
ANR OKLAHOMA	-	0	0.0%	-	0	0.00%	-	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 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%	2,192,531	1,805,264	21.45%	0	0	0.0%	22,232,764	24,083,190	-7.7%
CAR VINTAGE	0	-	-	3,593	-		0	-	-	20,789	-	-
CENTERPOINT BASIS SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%

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<b>Energy Futures</b>												
CHICAGO ETHANOL SWAP	0	0	0.0%	487	116	319.83%	0	0	0.0%	3,832	382	903.1%
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	0.00%	-	0	0.0%	-	0	0.0%
CINERGY HUB PEAK MONTH	-	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	0.00%	-	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	60	-100.00%	0	0	0.0%	31	120	-74.2%
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%	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%	24,621,935	17,317,105	42.18%	0	0	0.0%	233,094,411	253,153,910	-7.9%
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%	0	0	0.00%	0	0	0.0%	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	-	-
DOMINION TRAN INC - APP I	-	0	0.0%	-	0	0.00%	-	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%	1,368	26,878	-94.91%	0	0	0.0%	390,316	317,595	22.9%
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%	1	6	-83.3%
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	0.00%	-	0	0.0%	-	0	0.0%
ELEC NYISO OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Energy Futures</b>												
ELECTRICITY OFF PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ETHANOL	0	0	0.0%	0	239	-100.00%	0	0	0.0%	262	12,694	-97.9%
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	0.00%	-	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 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%	116	32	262.50%	0	0	0.0%	570	318	79.2%
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%
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	0.00%	-	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	-	-
GASOIL 0.1 CIF NWE VS ISE	-	0	0.0%	-	0	0.00%	-	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%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Energy Futures</b>												
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%	6	0	0.00%	0	0	0.0%	142	8,776	-98.4%
GROUP THREE ULSD (PLATTS)	-	0	0.0%	-	0	0.00%	-	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	0	0.0%
GULF COAST ULSD CALEND A	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%	3,692,975	3,221,236	14.64%	0	0	0.0%	33,890,091	38,848,413	-12.8%
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%	31	670	-95.4%
HOUSTON SHIP CHANNEL BAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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%
ICE GASOIL BALMO SWAP	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%
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	0.00%	-	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	0.00%	-	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%

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<b>Energy Futures</b>												
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%	254,937	213,754	19.27%	0	0	0.0%	2,590,692	2,017,907	28.4%
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	0	0.0%
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%	729	1,152	-36.72%	0	0	0.0%	22,011	9,235	138.3%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	30	0	0.00%	0	0	0.0%	247	30	723.3%
MGF FUT	-	0	0.0%	-	0	0.00%	-	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	0.00%	-	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%
MINY HTG OIL	0	0	0.0%	9	3	200.00%	0	0	0.0%	70	55	27.3%
MINY NATURAL GAS	0	0	0.0%	326,126	151,621	115.09%	0	0	0.0%	2,110,945	1,414,476	49.2%
MINY RBOB GAS	0	0	0.0%	8	8	0.00%	0	0	0.0%	94	78	20.5%
MINY WTI CRUDE OIL	0	0	0.0%	618,678	300,288	106.03%	0	0	0.0%	4,781,553	6,555,526	-27.1%
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%	18	0	0.00%	0	0	0.0%	343	25	1,272.0%
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%	6	14	-57.14%	0	0	0.0%	500	174	187.4%
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%	40	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	0.00%	-	0	0.0%	-	0	0.0%
NATURAL GAS	0	0	0.0%	60,148	36,152	66.38%	0	0	0.0%	595,213	535,723	11.1%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2021	Open Outcry NOV 2020	% CHG	ELEC NOV 2021	ELEC NOV 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>Energy Futures</b>												
NATURAL GAS PEN SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	133	0	0.0%
NATURAL GAS PHY	0	0	0.0%	7,411,282	8,356,144	-11.31%	0	0	0.0%	88,277,423	109,316,601	-19.2%
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%
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%
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	0.00%	-	0	0.0%	-	0	0.0%
NORTHEN NATURAL GAS VEN	-	0	0.0%	-	0	0.00%	-	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	0.00%	-	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	0.00%	-	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%	11	0	0.00%	0	0	0.0%	35	38	-7.9%
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	0.00%	-	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 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	0.00%	-	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2021	Open Outcry NOV 2020	% CHG	ELEC NOV 2021	ELEC NOV 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>Energy Futures</b>												
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	0.00%	-	0	0.0%	-	0	0.0%
ONTARIO POWER SWAPS	-	0	0.0%	-	0	0.00%	-	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%
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%
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%	50	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 BGE DA OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM BGE DA PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM COMED 5MW D AH O PK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM COMED 5MW D AH PK	-	0	0.0%	-	0	0.00%	-	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	0.00%	-	0	0.0%	-	0	0.0%
PJM NILL DA PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM OFF-PEAK LMP SWAP FU	-	0	0.0%	-	0	0.00%	-	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2021	Open Outcry NOV 2020	% CHG	ELEC NOV 2021	ELEC NOV 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>Energy Futures</b>												
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	0.00%	-	0	0.0%	-	0	0.0%
PREM UNL GAS 10PPM RDAM	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PREM UNL GAS 10PPM RDAM	-	0	0.0%	-	0	0.00%	-	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%
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	0.00%	-	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%	3,974,823	3,208,107	23.90%	0	0	0.0%	42,462,006	41,165,644	3.1%
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	0.00%	-	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 180 CS	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 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%
SING FUEL	-	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2021	Open Outcry NOV 2020	% CHG	ELEC NOV 2021	ELEC NOV 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>Energy Futures</b>												
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%
TEXAS EASTERN ZONE M-3 BA	0	0	0.0%	0	0	0.00%	0	0	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	0.00%	-	0	0.0%	-	0	0.0%
UCM FUT	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
UK NBP NAT GAS CAL MTH FU	0	0	0.0%	0	1,815	-100.00%	0	0	0.0%	2,535	3,939	-35.6%
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%
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%	0	0	0.00%	0	0	0.0%	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 CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	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	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	2,087	9,062	-76.97%	0	0	0.0%	33,397	150,612	-77.8%
COAL API2 INDEX	0	0	0.0%	0	0	0.00%	0	0	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%	3,300	22,100	-85.07%	0	0	0.0%	45,480	89,221	-49.0%
CRUDE OIL APO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	3	-100.0%
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	0.00%	-	0	0.0%	-	0	0.0%
CRUDE OIL PHY	0	0	0.0%	2,971,908	2,061,452	44.17%	0	0	0.0%	22,751,090	23,823,867	-4.5%
ELEC FINSETTLED	0	0	0.0%	0	0	0.00%	0	0	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	0.00%	-	0	0.0%	-	0	0.0%
HEATING OIL CRK SPD AVG P	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

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<b>Energy Options</b>												
HEATING OIL PHY	0	0	0.0%	4,002	1,857	115.51%	0	0	0.0%	24,414	33,957	-28.1%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0.00%	0	0	0.0%	40	20	100.0%
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%	2,300	1,515	51.82%	0	0	0.0%	13,034	4,666	179.3%
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%	0	0	0.00%	0	0	0.0%	200	4,827	-95.9%
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%	400	0	0.00%	0	0	0.0%	400	0	0.0%
NATURAL GAS OPT	0	0	0.0%	0	0	0.00%	0	0	0.0%	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%	721,454	1,170,922	-38.39%	0	0	0.0%	13,268,330	14,787,144	-10.3%
NATURAL GAS SUMMER STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	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%	17	17	0.00%	0	0	0.0%	672	724	-7.2%
PETROCHEMICALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	75	11	581.8%
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	0.00%	-	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%
RBOB CRACK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
RBOB PHY	0	0	0.0%	2,307	2,823	-18.28%	0	0	0.0%	23,154	29,840	-22.4%
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	0	0.0%
SHORT TERM NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	100	0	0.00%	0	0	0.0%	10,100	17,102	-40.9%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	685	0	0.00%	0	0	0.0%	2,075	1,200	72.9%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	0	6	-100.00%	0	0	0.0%	172	86	100.0%
AD/JY CROSS RATES	0	0	0.0%	3,099	1,903	62.85%	0	0	0.0%	24,709	27,259	-9.4%
AD/NE CROSS RATES	0	0	0.0%	507	141	259.57%	0	0	0.0%	3,501	2,881	21.5%
AUSTRALIAN DOLLAR	0	0	0.0%	1,809,084	1,958,494	-7.63%	0	0	0.0%	22,394,791	23,510,043	-4.7%
BP/JY CROSS RATES	0	0	0.0%	2,498	1,819	37.33%	0	0	0.0%	27,338	33,619	-18.7%
BP/SF CROSS RATES	0	0	0.0%	1,391	218	538.07%	0	0	0.0%	8,900	4,246	109.6%
BRAZIL REAL	0	0	0.0%	215,405	207,128	4.00%	0	0	0.0%	2,528,221	2,095,915	20.6%
BRITISH POUND	0	0	0.0%	2,035,010	1,888,471	7.76%	0	0	0.0%	21,677,222	24,521,084	-11.6%
CANADIAN DOLLAR	0	0	0.0%	1,564,740	1,377,159	13.62%	0	0	0.0%	18,154,421	17,526,982	3.6%
CD/JY CROSS RATES	0	0	0.0%	446	10	4,360.00%	0	0	0.0%	1,979	408	385.0%
CHINESE RENMINBI (CNH)	0	0	0.0%	16,254	38,169	-57.42%	0	0	0.0%	181,053	241,584	-25.1%
CZECK KORUNA (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	2	26	-92.3%
CZECK KORUNA (US)	0	0	0.0%	4	1	300.00%	0	0	0.0%	12	2	500.0%
EC/AD CROSS RATES	0	0	0.0%	2,814	2,507	12.25%	0	0	0.0%	49,892	62,432	-20.1%
EC/CD CROSS RATES	0	0	0.0%	4,358	1,757	148.04%	0	0	0.0%	74,755	46,014	62.5%
EC/NOK CROSS RATES	0	0	0.0%	128	71	80.28%	0	0	0.0%	6,693	1,836	264.5%
EC/SEK CROSS RATES	0	0	0.0%	355	415	-14.46%	0	0	0.0%	6,531	6,277	4.0%
EFX/BP CROSS RATES	0	0	0.0%	37,389	34,832	7.34%	0	0	0.0%	604,213	693,143	-12.8%
EFX/JY CROSS RATES	0	0	0.0%	38,076	25,636	48.53%	0	0	0.0%	462,363	594,310	-22.2%
EFX/SF CROSS RATES	0	0	0.0%	23,119	11,568	99.85%	0	0	0.0%	256,908	363,535	-29.3%
E-MICRO USD/CAD	0	-	-	490	-		0	-	-	2,194	-	-
E-MICRO USD/CHF	0	-	-	49	-		0	-	-	132	-	-
E-MICRO USD/JPY	0	-	-	5,033	-		0	-	-	7,954	-	-
E-MINI EURO FX	0	0	0.0%	109,017	142,402	-23.44%	0	0	0.0%	1,304,128	1,698,916	-23.2%
E-MINI JAPANESE YEN	0	0	0.0%	8,505	14,523	-41.44%	0	0	0.0%	101,281	223,803	-54.7%
EURO FX	0	0	0.0%	3,925,540	3,346,256	17.31%	0	36	-100.0%	43,582,489	49,285,288	-11.6%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	2	-100.00%	0	0	0.0%	0	11	-100.0%
HUNGARIAN FORINT (US)	0	0	0.0%	6	9	-33.33%	0	0	0.0%	177	112	58.0%
INDIAN RUPEE	0	0	0.0%	16,976	21,875	-22.40%	0	0	0.0%	156,242	280,497	-44.3%
JAPANESE YEN	0	0	0.0%	2,469,996	2,066,413	19.53%	0	0	0.0%	24,680,849	26,284,495	-6.1%
KOREAN WON	0	0	0.0%	396	795	-50.19%	0	0	0.0%	12,218	6,729	81.6%
MEXICAN PESO	0	0	0.0%	1,102,997	1,207,315	-8.64%	0	0	0.0%	12,121,403	13,188,884	-8.1%
MICRO AUD/USD	0	0	0.0%	314,611	257,836	22.02%	0	0	0.0%	2,381,001	2,708,508	-12.1%
MICRO CAD/USD	0	0	0.0%	55,396	37,316	48.45%	0	0	0.0%	618,530	327,754	88.7%

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<b>FX Futures</b>												
MICRO CHF/USD	0	0	0.0%	10,691	10,602	0.84%	0	0	0.0%	97,489	51,945	87.7%
MICRO EUR/USD	0	0	0.0%	580,150	520,989	11.36%	0	0	0.0%	5,383,743	5,431,989	-0.9%
MICRO GBP/USD	0	0	0.0%	146,207	86,763	68.51%	0	0	0.0%	916,302	780,251	17.4%
MICRO INR/USD	0	0	0.0%	738	1,903	-61.22%	0	0	0.0%	18,272	23,861	-23.4%
MICRO JPY/USD	0	0	0.0%	86,243	28,052	207.44%	0	0	0.0%	432,297	319,638	35.2%
MICRO USD/CNH	0	-	-	0	-		0	-	-	36	-	-
NEW ZEALND DOLLAR	0	0	0.0%	489,622	538,005	-8.99%	0	0	0.0%	6,441,738	6,731,094	-4.3%
NKR/USD CROSS RATE	0	0	0.0%	3,543	3,287	7.79%	0	0	0.0%	49,212	48,102	2.3%
POLISH ZLOTY (EC)	0	0	0.0%	26	6	333.33%	0	0	0.0%	1,402	592	136.8%
POLISH ZLOTY (US)	0	0	0.0%	750	462	62.34%	0	0	0.0%	9,569	8,750	9.4%
RMB USD	0	0	0.0%	0	0	0.00%	0	0	0.0%	3	4	-25.0%
RUSSIAN RUBLE	0	0	0.0%	173,500	103,008	68.43%	0	0	0.0%	1,251,845	1,220,413	2.6%
S.AFRICAN RAND	0	0	0.0%	73,736	53,693	37.33%	0	0	0.0%	647,802	834,454	-22.4%
SF/JY CROSS RATES	0	0	0.0%	50	17	194.12%	0	0	0.0%	379	251	51.0%
SHEKEL	0	0	0.0%	25	1	2,400.00%	0	0	0.0%	44	114	-61.4%
SKR/USD CROSS RATES	0	0	0.0%	4,601	3,273	40.57%	0	0	0.0%	53,993	43,252	24.8%
SWISS FRANC	0	0	0.0%	541,407	436,136	24.14%	0	0	0.0%	5,454,417	6,255,801	-12.8%
TURKISH LIRA	0	0	0.0%	0	8	-100.00%	0	0	0.0%	8	96	-91.7%
USDZAR	0	0	0.0%	1,207	0	0.00%	0	0	0.0%	1,279	0	0.0%
<b>FX Options</b>												
AUD/USD MONDAY OPTION W	0	0	0.0%	1,969	45	4,275.56%	0	0	0.0%	6,223	3,571	74.3%
AUD/USD MONDAY OPTION W	0	0	0.0%	150	0	0.00%	0	0	0.0%	3,876	1,683	130.3%
AUD/USD MONDAY OPTION W	0	0	0.0%	153	400	-61.75%	0	0	0.0%	4,137	2,940	40.7%
AUD/USD MONDAY OPTION W	0	0	0.0%	12	0	0.00%	0	0	0.0%	4,524	2,341	93.3%
AUD/USD MONDAY OPTION W	0	0	0.0%	986	76	1,197.37%	0	0	0.0%	2,356	798	195.2%
AUD/USD MONTHLY OPTIONS	0	0	0.0%	58,760	53,880	9.06%	0	0	0.0%	551,993	778,291	-29.1%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	0	0.00%	0	0	0.0%	7,231	5,583	29.5%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,424	2,748	24.60%	0	0	0.0%	20,099	41,344	-51.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,484	3,173	-21.71%	0	0	0.0%	29,176	38,909	-25.0%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,885	3,576	8.64%	0	0	0.0%	33,182	43,252	-23.3%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	164	0	0.00%	0	0	0.0%	8,805	17,321	-49.2%

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<b>FX Options</b>												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,083	876	23.63%	0	0	0.0%	12,878	13,867	-7.1%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	344	3,320	-89.64%	0	0	0.0%	8,190	16,206	-49.5%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	71	492	-85.57%	0	0	0.0%	3,139	8,482	-63.0%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	516	1,785	-71.09%	0	0	0.0%	9,585	15,325	-37.5%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,985	5,691	-65.1%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	697	8	8,612.50%	0	0	0.0%	3,988	685	482.2%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,444	10	14,340.00%	0	0	0.0%	10,339	3,165	226.7%
CAD/USD MONDAY OPTIONS	0	0	0.0%	708	370	91.35%	0	0	0.0%	16,428	2,323	607.2%
CAD/USD MONDAY OPTIONS	0	0	0.0%	378	615	-38.54%	0	0	0.0%	10,682	8,824	21.1%
CAD/USD MONDAY OPTIONS	0	0	0.0%	386	0	0.00%	0	0	0.0%	22,893	5,272	334.2%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,224	350	249.71%	0	0	0.0%	4,371	3,435	27.2%
CAD/USD MONTHLY OPTIONS	0	0	0.0%	69,446	34,590	100.77%	0	430	-100.0%	758,714	507,625	49.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	0	0.00%	0	0	0.0%	27,536	12,433	121.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,738	2,803	211.74%	0	0	0.0%	54,502	67,216	-18.9%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	7,527	5,358	40.48%	0	0	0.0%	84,257	69,403	21.4%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,468	4,564	-2.10%	0	0	0.0%	97,518	76,116	28.1%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	120	0	0.00%	0	0	0.0%	28,139	30,313	-7.2%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,089	1,446	44.47%	0	0	0.0%	23,281	24,067	-3.3%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,043	361	465.93%	0	0	0.0%	20,414	17,948	13.7%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	4,169	1,494	179.05%	0	0	0.0%	24,336	20,275	20.0%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	945	853	10.79%	0	0	0.0%	27,286	25,321	7.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	9,035	8,199	10.2%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	5,493	4,306	27.57%	0	0	0.0%	60,969	40,271	51.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	411	139	195.7%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	1,091	485	124.95%	0	0	0.0%	3,383	2,243	50.8%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	83	253	-67.19%	0	0	0.0%	1,965	1,295	51.7%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	377	4	9,325.00%	0	0	0.0%	2,808	1,449	93.8%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	3	0	0.00%	0	0	0.0%	285	1,824	-84.4%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	6	0	0.0%
EUR/GBP WKLY FRIDAY OPTIC	0	-	-	100	-		0	-	-	100	-	-
EUR/USD MONDAY OPTION W	0	0	0.0%	785	1,255	-37.45%	0	0	0.0%	20,167	18,616	8.3%
EUR/USD MONDAY OPTION W	0	0	0.0%	714	2,515	-71.61%	0	0	0.0%	17,688	15,986	10.6%
EUR/USD MONDAY OPTION W	0	0	0.0%	1,005	599	67.78%	0	0	0.0%	16,593	19,954	-16.8%
EUR/USD MONDAY OPTION W	0	0	0.0%	4,924	350	1,306.86%	0	0	0.0%	30,888	21,098	46.4%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2021	Open Outcry NOV 2020	% CHG	ELEC NOV 2021	ELEC NOV 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>FX Options</b>												
EUR/USD MONDAY OPTION W	0	0	0.0%	3,149	2,599	21.16%	0	0	0.0%	9,094	9,785	-7.1%
EUR/USD MONTHLY OPTIONS	0	0	0.0%	193,747	208,347	-7.01%	0	1,550	-100.0%	2,139,124	2,972,486	-28.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	153	-100.00%	0	0	0.0%	49,464	29,312	68.8%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	29,497	21,209	39.08%	0	62	-100.0%	155,371	204,334	-24.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	32,767	11,503	184.86%	0	0	0.0%	231,849	217,979	6.4%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	15,676	16,357	-4.16%	0	0	0.0%	198,652	236,331	-15.9%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	163	0	0.00%	0	0	0.0%	85,936	78,886	8.9%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	8,027	7,293	10.06%	0	0	0.0%	73,417	107,155	-31.5%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	8,553	6,872	24.46%	0	0	0.0%	77,081	86,505	-10.9%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	9,834	5,121	92.03%	0	0	0.0%	75,072	85,748	-12.5%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	10,056	6,030	66.77%	0	0	0.0%	98,580	83,543	18.0%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	25,392	34,150	-25.6%
GBP/USD MONDAY OPTION W	0	0	0.0%	239	39	512.82%	0	0	0.0%	4,639	6,637	-30.1%
GBP/USD MONDAY OPTION W	0	0	0.0%	729	1,364	-46.55%	0	0	0.0%	6,677	5,072	31.6%
GBP/USD MONDAY OPTION W	0	0	0.0%	828	3,328	-75.12%	0	0	0.0%	4,859	9,239	-47.4%
GBP/USD MONDAY OPTION W	0	0	0.0%	1,153	2,850	-59.54%	0	0	0.0%	6,708	12,052	-44.3%
GBP/USD MONDAY OPTION W	0	0	0.0%	584	379	54.09%	0	0	0.0%	1,238	1,814	-31.8%
GBP/USD MONTHLY OPTIONS	0	0	0.0%	67,254	76,183	-11.72%	0	64	-100.0%	799,891	939,209	-14.8%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	0	0.00%	0	0	0.0%	12,239	9,487	29.0%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	7,242	2,925	147.59%	0	0	0.0%	31,654	38,065	-16.8%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,422	3,793	16.58%	0	0	0.0%	32,701	43,788	-25.3%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,184	2,336	36.30%	0	0	0.0%	38,746	36,077	7.4%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	29	0	0.00%	0	0	0.0%	10,444	16,262	-35.8%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,288	2,457	-47.58%	0	0	0.0%	12,989	19,120	-32.1%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,383	2,380	-41.89%	0	0	0.0%	8,166	11,554	-29.3%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	2,006	2,730	-26.52%	0	0	0.0%	8,777	18,201	-51.8%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	2,645	587	350.60%	0	0	0.0%	14,323	13,097	9.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	2,591	7,180	-63.9%
JPY/USD MONDAY OPTION WE	0	0	0.0%	121	0	0.00%	0	0	0.0%	3,973	8,895	-55.3%
JPY/USD MONDAY OPTION WE	0	0	0.0%	136	1,905	-92.86%	0	0	0.0%	6,147	13,069	-53.0%
JPY/USD MONDAY OPTION WE	0	0	0.0%	208	782	-73.40%	0	0	0.0%	4,100	8,368	-51.0%
JPY/USD MONDAY OPTION WE	0	0	0.0%	640	120	433.33%	0	0	0.0%	4,669	7,201	-35.2%
JPY/USD MONDAY OPTION WE	0	0	0.0%	200	286	-30.07%	0	0	0.0%	2,897	2,939	-1.4%
JPY/USD MONTHLY OPTIONS	0	0	0.0%	79,469	67,395	17.92%	0	727	-100.0%	891,601	1,250,188	-28.7%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2021	Open Outcry NOV 2020	% CHG	ELEC NOV 2021	ELEC NOV 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>FX Options</b>												
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	28,297	17,142	65.1%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	17,151	11,258	52.34%	0	0	0.0%	68,900	116,300	-40.8%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	13,213	7,040	87.68%	0	0	0.0%	109,127	128,842	-15.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	7,843	6,331	23.88%	0	0	0.0%	99,197	122,729	-19.2%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	310	0	0.00%	0	0	0.0%	36,637	48,042	-23.7%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	5,984	2,191	173.12%	0	0	0.0%	34,295	53,672	-36.1%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	6,053	3,713	63.02%	0	0	0.0%	42,157	42,164	0.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	7,142	3,345	113.51%	0	0	0.0%	38,889	49,436	-21.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	6,799	3,394	100.32%	0	0	0.0%	38,684	51,707	-25.2%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	7,879	12,418	-36.6%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	972	2,051	-52.61%	0	1,840	-100.0%	15,504	17,244	-10.1%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	4,413	-100.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	300	1,040	-71.15%	0	0	0.0%	904	2,788	-67.6%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	552	2,174	-74.6%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	483	-100.00%	0	0	0.0%	631	3,159	-80.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	152	-100.0%
NZD/USD MONTHLY OPTIONS	0	0	0.0%	587	134	338.06%	0	0	0.0%	2,498	4,965	-49.7%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	50	-100.0%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	67	0	0.0%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	375	-100.0%
NZD/USD WKLY FRIDAY OPTIO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
RUB/USD MONTHLY OPTIONS	0	0	0.0%	0	378	-100.00%	0	0	0.0%	68	569	-88.0%

### Ags Futures

FERTILIZER PRODUCS	0	0	0.0%	0	0	0.00%	0	0	0.0%	54	90	-40.0%
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### Foreign Exchange Futures

CHILEAN PESO	-	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 NOV 2021	Open Outcry NOV 2020	% CHG	ELEC NOV 2021	ELEC NOV 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>Foreign Exchange Options</b>												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	570	248	129.84%	0	0	0.0%	5,103	7,458	-31.6%
<b>Ag Products Futures</b>												
BLOCK CHEESE	0	0	0.0%	270	155	74.19%	0	0	0.0%	6,604	2,594	154.6%
BUTTER CS	0	0	0.0%	3,812	4,445	-14.24%	0	0	0.0%	42,427	59,302	-28.5%
CASH-SETTLED CHEESE	0	0	0.0%	15,286	12,768	19.72%	0	0	0.0%	129,521	143,180	-9.5%
CAT ASIA WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CATTLE	0	0	0.0%	1,271,639	1,208,393	5.23%	0	2,592	-100.0%	12,954,303	15,195,904	-14.8%
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%	0	50	-100.0%
CHI WHEAT	0	0	0.0%	2,976,832	3,153,389	-5.60%	0	12,092	-100.0%	28,147,599	31,076,412	-9.4%
CLASS IV MILK	0	0	0.0%	3,996	480	732.50%	0	65	-100.0%	17,272	22,231	-22.3%
COCOA TAS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
COFFEE	0	0	0.0%	0	0	0.00%	0	0	0.0%	2	2	0.0%
CORN	0	0	0.0%	7,751,244	8,474,205	-8.53%	0	18,145	-100.0%	79,348,854	81,663,449	-2.8%
COTTON	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	57	-100.0%
DJ_UBS ROLL SELECT INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	22	0	0.0%
DOW-UBS COMMOD INDEX	0	0	0.0%	23,156	6,753	242.90%	0	0	0.0%	528,022	300,658	75.6%
DRY WHEY	0	0	0.0%	1,565	1,843	-15.08%	0	0	0.0%	21,058	15,900	32.4%
FEEDER CATTLE	0	0	0.0%	233,821	211,790	10.40%	0	54	-100.0%	2,829,056	2,978,896	-5.0%
FERTILIZER PRODUCS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	5,090	12,172	-58.18%	0	0	0.0%	89,871	162,106	-44.6%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	151	85	77.6%
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	25	-100.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOGS	0	0	0.0%	968,318	851,766	13.68%	0	1,940	-100.0%	10,646,941	11,689,921	-8.9%
HOUSING INDEX	0	0	0.0%	20	2	900.00%	0	0	0.0%	152	264	-42.4%
Intercommodity Spread	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 NOV 2021	Open Outcry NOV 2020	% CHG	ELEC NOV 2021	ELEC NOV 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>Ag Products Futures</b>												
KC WHEAT	0	0	0.0%	1,360,086	1,151,537	18.11%	0	1,534	-100.0%	11,873,619	12,736,448	-6.8%
LUMBER	0	0	0.0%	7,269	7,556	-3.80%	0	0	0.0%	104,964	141,113	-25.6%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	0	0	0.0%	31,211	33,245	-6.12%	0	59	-100.0%	272,213	385,825	-29.4%
MINI CORN	0	0	0.0%	47,322	47,035	0.61%	0	0	0.0%	666,962	298,613	123.4%
MINI SOYBEAN	0	0	0.0%	41,496	62,230	-33.32%	0	0	0.0%	617,112	435,775	41.6%
MINI WHEAT	0	0	0.0%	24,649	19,078	29.20%	0	0	0.0%	230,527	156,364	47.4%
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%	5,480	4,520	21.24%	0	0	0.0%	59,018	84,018	-29.8%
OATS	0	0	0.0%	19,040	14,467	31.61%	0	0	0.0%	125,906	124,907	0.8%
PACIFIC RIM DAT SS WTHR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PORK CUTOUT	0	0	0.0%	2,221	2,367	-6.17%	0	0	0.0%	26,382	2,367	1,014.6%
ROUGH RICE	0	0	0.0%	19,145	5,430	252.58%	0	0	0.0%	181,819	216,618	-16.1%
SOYBEAN	0	0	0.0%	3,487,361	4,733,159	-26.32%	0	10,769	-100.0%	46,196,903	52,333,266	-11.7%
SOYBEAN MEAL	0	0	0.0%	2,947,625	2,363,440	24.72%	0	1,333	-100.0%	23,542,585	26,549,821	-11.3%
SOYBEAN OIL	0	0	0.0%	2,755,785	2,867,848	-3.91%	0	4,078	-100.0%	29,491,002	29,520,460	-0.1%
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%	0	10	-100.0%
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%	2,238	3,606	-37.94%	0	0	0.0%	33,611	24,617	36.5%
<b>Ag Products Options</b>												
AUG-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	77	-100.0%
BLOCK CHEESE	0	0	0.0%	0	204	-100.00%	0	2,052	-100.0%	2,964	6,356	-53.4%
BUTTER CS	0	0	0.0%	1,862	1,335	39.48%	0	212	-100.0%	20,961	30,535	-31.4%
CASH-SETTLED CHEESE	0	0	0.0%	5,395	7,744	-30.33%	0	5,682	-100.0%	67,160	120,961	-44.5%
CATTLE	0	0	0.0%	238,747	191,217	24.86%	0	59,913	-100.0%	2,119,230	2,425,423	-12.6%
CAT WEATHER EUROPEAN	-	0	0.0%	-	0	0.00%	-	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	-	-
CHI WHEAT	0	0	0.0%	765,756	433,203	76.77%	0	202,275	-100.0%	5,332,217	6,963,085	-23.4%
CLASS IV MILK	0	0	0.0%	7,926	967	719.65%	0	1,082	-100.0%	47,220	45,393	4.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2021	Open Outcry NOV 2020	% CHG	ELEC NOV 2021	ELEC NOV 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>Ag Products Options</b>												
CORN	0	0	0.0%	1,931,686	2,309,173	-16.35%	0	536,597	-100.0%	30,110,146	21,247,231	41.7%
CORN NEARBY+2 CAL SPRD	0	0	0.0%	14,304	2,901	393.07%	0	14,975	-100.0%	139,200	51,989	167.7%
DEC-DEC CORN CAL SPRD	0	0	0.0%	800	0	0.00%	0	250	-100.0%	3,717	1,885	97.2%
DEC-JULY CORN CAL SPRD	0	0	0.0%	1,950	180	983.33%	0	175	-100.0%	24,185	3,567	578.0%
DEC-JULY WHEAT CAL SPRD	0	0	0.0%	0	50	-100.00%	0	0	0.0%	0	1,595	-100.0%
DRY WHEY	0	0	0.0%	45	1,041	-95.68%	0	119	-100.0%	1,803	5,305	-66.0%
FEEDER CATTLE	0	0	0.0%	27,336	19,645	39.15%	0	4,252	-100.0%	243,389	275,138	-11.5%
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	0	0.0%	180,669	103,679	74.26%	0	34,430	-100.0%	2,230,633	2,772,617	-19.5%
HOUSING INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	0	7,987	-100.0%	271	3,299	-91.8%
JAN-MAR SOYBEAN CSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	20	-100.0%
JULY-DEC CORN CAL SPRD	0	0	0.0%	0	1,150	-100.00%	0	11,810	-100.0%	40,105	12,697	215.9%
JULY-DEC SOYMEAL CAL SPR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JULY-DEC SOY OIL CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	125	-100.0%
JULY-DEC WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	1,520	-100.0%	100	2,136	-95.3%
JULY-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	50	-100.0%	0	80	-100.0%
JULY-NOV SOYBEAN CAL SPR	0	0	0.0%	2,321	53	4,279.25%	0	4,950	-100.0%	5,393	9,153	-41.1%
KC WHEAT	0	0	0.0%	140,432	36,267	287.22%	0	36,570	-100.0%	783,134	1,022,948	-23.4%
LUMBER	0	0	0.0%	539	649	-16.95%	0	0	0.0%	7,618	9,486	-19.7%
LV CATL CSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MAR-DEC CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	505	-100.0%	0	0	0.0%
MAR-JULY CORN CAL SPRD	0	0	0.0%	3,840	500	668.00%	0	2,500	-100.0%	4,290	500	758.0%
MAR-JULY SOYBEAN CAL SPR	0	0	0.0%	0	20	-100.00%	0	0	0.0%	0	20	-100.0%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	700	0	0.00%	0	0	0.0%	700	440	59.1%
MILK	0	0	0.0%	25,050	30,700	-18.40%	0	3,323	-100.0%	277,360	494,387	-43.9%
MLK MID OPTIONS	0	0	0.0%	12	0	0.00%	0	31	-100.0%	28	93	-69.9%
NFD MILK	0	0	0.0%	2,053	3,875	-47.02%	0	494	-100.0%	36,201	67,282	-46.2%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2,670	-100.0%
NOV-MAR SOYBEAN CSO	0	0	0.0%	0	0	0.00%	0	100	-100.0%	150	1,335	-88.8%
NOV-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	180	-100.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry NOV 2021	Open Outcry NOV 2020	% CHG	ELEC NOV 2021	ELEC NOV 2020	% CHG	Open Outcry Y.T.D 2021	Open Outcry Y.T.D 2020	% CHG	ELEC Y.T.D 2021	ELEC Y.T.D 2020	% CHG
<b>Ag Products Options</b>												
OATS	0	0	0.0%	398	234	70.09%	0	720	-100.0%	3,904	2,485	57.1%
PORK CUTOUT	0	0	0.0%	0	3	-100.00%	0	0	0.0%	750	3	24,900.0%
ROUGH RICE	0	0	0.0%	2,284	206	1,008.74%	0	6,492	-100.0%	9,458	14,072	-32.8%
SOYBEAN	0	0	0.0%	1,228,673	2,088,532	-41.17%	0	275,778	-100.0%	16,975,171	14,300,755	18.7%
SOYBEAN CRUSH	0	0	0.0%	1	635	-99.84%	0	830	-100.0%	1,232	3,147	-60.9%
SOYBEAN MEAL	0	0	0.0%	357,459	245,050	45.87%	0	84,223	-100.0%	2,553,911	2,608,952	-2.1%
SOYBEAN OIL	0	0	0.0%	221,721	375,670	-40.98%	0	106,072	-100.0%	3,078,798	2,112,301	45.8%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	0	1,970	-100.00%	0	335	-100.0%	20,274	13,125	54.5%
SOYMEAL NEARBY+2 CAL SPR	0	0	0.0%	0	0	0.00%	0	200	-100.0%	0	0	0.0%
WHEAT	0	0	0.0%	269	64	320.31%	0	16	-100.0%	7,056	12,424	-43.2%
WHEAT-CORN ICSD	0	0	0.0%	0	81	-100.00%	0	70	-100.0%	851	6,264	-86.4%
WHEAT NEARBY+2 CAL SPRD	0	0	0.0%	340	1,475	-76.95%	0	1,251	-100.0%	6,185	6,876	-10.0%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	748,494	193,976	285.9%	198,494,435	143,954,930	37.9%	5,298,938	3,752,481	41.2%	1,643,547,531	1,425,938,251	15.3%
Equity Index Futures	0	0	0.0%	96,856,636	95,269,734	1.7%	0	33,712	-100.0%	1,063,883,707	1,148,873,013	-7.4%
Metals Futures	0	0	0.0%	11,698,759	12,513,847	-6.5%	0	0	0.0%	116,206,793	146,196,310	-20.5%
Energy Futures	0	0	0.0%	43,159,816	34,639,988	24.6%	0	0	0.0%	430,477,130	477,445,525	-9.8%
FX Futures	0	0	0.0%	15,876,185	14,431,252	10.0%	0	36	-100.0%	172,192,104	185,487,286	-7.2%
Ags Futures	0	0	0.0%	0	0	0.0%	0	0	0.0%	54	90	-40.0%
Foreign Exchange Futures	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
Ag Products Futures	0	0	0.0%	24,005,977	25,253,679	-4.9%	0	52,661	-100.0%	248,184,478	266,321,258	-6.8%
<b>TOTAL FUTURES</b>	<b>748,494</b>	<b>193,976</b>	<b>285.9%</b>	<b>390,091,808</b>	<b>326,063,430</b>	<b>19.6%</b>	<b>5,298,938</b>	<b>3,838,890</b>	<b>38.0%</b>	<b>3,674,491,797</b>	<b>3,650,261,733</b>	<b>0.7%</b>

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	0	0	0.0%	18,750,207	11,357,862	65.1%	0	1,658,011	-100.0%	160,433,672	164,948,153	-2.7%
Interest Rate Options	17,757,196	6,690,277	165.4%	33,566,961	19,032,176	76.4%	151,779,424	91,847,129	65.3%	292,461,674	317,597,954	-7.9%
Metals Options	0	0	0.0%	1,095,905	1,094,366	0.1%	0	0	0.0%	10,338,837	13,560,807	-23.8%
Energy Options	0	0	0.0%	3,708,560	3,269,748	13.4%	0	0	0.0%	36,172,461	38,943,194	-7.1%
FX Options	0	0	0.0%	744,541	631,641	17.9%	0	4,673	-100.0%	7,739,708	9,303,168	-16.8%
Ag Products Options	0	0	0.0%	5,162,568	5,858,473	-11.9%	0	1,407,841	-100.0%	64,155,765	54,658,412	17.4%
Foreign Exchange Options	0	0	0.0%	570	248	129.8%	0	0	0.0%	5,103	7,458	-31.6%
<b>TOTAL OPTIONS</b>	<b>17,757,196</b>	<b>6,690,277</b>	<b>165.4%</b>	<b>63,029,312</b>	<b>41,244,514</b>	<b>52.8%</b>	<b>151,779,424</b>	<b>94,917,654</b>	<b>59.9%</b>	<b>571,307,220</b>	<b>599,019,146</b>	<b>-4.6%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	18,505,690	6,884,253	168.8%	232,061,396	162,987,106	42.4%	157,078,362	95,599,610	64.3%	1,936,009,205	1,743,536,205	11.0%
Equity Index	0	0	0.0%	115,606,843	106,627,596	8.4%	0	1,691,723	-100.0%	1,224,317,379	1,313,821,166	-6.8%
Metals	0	0	0.0%	12,794,664	13,608,213	-6.0%	0	0	0.0%	126,545,630	159,757,117	-20.8%
Energy	0	0	0.0%	46,868,376	37,909,736	23.6%	0	0	0.0%	466,649,591	516,388,719	-9.6%
FX	0	0	0.0%	16,620,726	15,062,893	10.3%	0	4,709	-100.0%	179,931,812	194,790,454	-7.6%
Ags	0	0	0.0%	0	0	0.0%	0	0	0.0%	54	90	-40.0%
Foreign Exchange	0	0	0.0%	570	248	129.8%	0	0	0.0%	5,103	7,458	-31.6%
Ag Products	0	0	0.0%	29,168,545	31,112,152	-6.2%	0	1,460,502	-100.0%	312,340,243	320,979,670	-2.7%
<b>GRAND TOTAL</b>	<b>18,505,690</b>	<b>6,884,253</b>	<b>168.8%</b>	<b>453,121,120</b>	<b>367,307,944</b>	<b>23.4%</b>	<b>157,078,362</b>	<b>98,756,544</b>	<b>59.1%</b>	<b>4,245,799,017</b>	<b>4,249,280,879</b>	<b>-0.1%</b>

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