



CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Interest Rate Futures												
10-YR NOTE	0	0	0.0%	25,053,877	23,560,128	6.34%	0	469,469	-100.0%	456,541,107	395,695,871	15.4%
10-YR SWAP RATE	0	0	0.0%	101,660	73,501	38.31%	0	0	0.0%	679,505	551,147	23.3%
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%	670	0	0.00%	0	0	0.0%	672	826	-18.6%
20-YR SWAP RATE	0	0	0.0%	90	0	0.00%	0	0	0.0%	90	0	0.0%
2-YR NOTE	0	0	0.0%	6,241,996	4,082,334	52.90%	0	261	-100.0%	105,579,890	116,852,455	-9.6%
2-YR SWAP RATE	0	0	0.0%	19,930	48,387	-58.81%	0	0	0.0%	864,824	202,954	326.1%
30-YR BOND	0	0	0.0%	6,479,208	6,665,892	-2.80%	0	55,491	-100.0%	111,278,762	92,792,074	19.9%
30-YR SWAP RATE	0	0	0.0%	0	30	-100.00%	0	0	0.0%	374	852	-56.1%
3-YR NOTE	0	0	0.0%	267,789	101,683	163.36%	0	0	0.0%	2,654,393	615,211	331.5%
3-YR SWAP RATE	0	0	0.0%	7,268	3,682	97.39%	0	0	0.0%	53,965	28,494	89.4%
4-YR SWAP RATE	0	0	0.0%	4,708	768	513.02%	0	0	0.0%	30,345	15,020	102.0%
5-YR NOTE	0	0	0.0%	15,392,359	13,335,147	15.43%	0	87,402	-100.0%	270,700,552	232,082,751	16.6%
5-YR SWAP RATE	0	0	0.0%	105,088	42,547	146.99%	0	0	0.0%	911,649	585,128	55.8%
7-YR SWAP RATE	0	0	0.0%	1,626	3,233	-49.71%	0	0	0.0%	23,692	21,373	10.9%
EURODOLLARS	468,202	137,810	239.7%	42,571,142	30,461,184	39.76%	5,767,140	3,277,668	76.0%	595,615,411	498,955,614	19.4%
FED FUND	0	0	0.0%	3,466,001	1,520,911	127.89%	0	0	0.0%	27,857,616	51,405,691	-45.8%
SOFR	0	0	0.0%	6,285,564	1,436,190	337.66%	0	0	0.0%	39,289,306	12,342,169	218.3%
SONIA	0	0	0.0%	1,583	132,578	-98.81%	0	0	0.0%	805,095	2,007,954	-59.9%
TIIE	0	-	-	54	-	-	0	-	-	872	-	-
Ultra 10-Year Note	0	0	0.0%	5,060,702	3,959,602	27.81%	0	0	0.0%	89,806,776	61,725,279	45.5%
ULTRA T-BOND	0	0	0.0%	3,021,049	2,693,064	12.18%	0	0	0.0%	54,934,999	48,178,249	14.0%

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Interest Rate Options												
10-YR NOTE	0	0	0.0%	10,701,827	7,419,442	44.24%	0	8,489,760	-100.0%	156,432,841	115,296,702	35.7%
2-YR NOTE	0	0	0.0%	52,105	8,374	522.22%	0	273,359	-100.0%	235,544	1,776,052	-86.7%
30-YR BOND	0	0	0.0%	2,347,962	2,665,635	-11.92%	0	891,042	-100.0%	32,526,914	30,135,289	7.9%
5-YR NOTE	0	0	0.0%	3,739,257	1,123,757	232.75%	0	2,424,616	-100.0%	39,307,770	27,863,737	41.1%
EURODOLLARS	6,559,496	2,273,307	188.5%	2,709,516	1,482,590	82.76%	40,719,007	57,751,867	-29.5%	20,689,479	106,164,883	-80.5%
EURO MIDCURVE	6,928,321	2,662,659	160.2%	3,719,930	1,813,785	105.09%	124,540,924	26,925,436	362.5%	66,530,876	50,857,323	30.8%
FED FUND	0	0	0.0%	0	1	-100.00%	0	3,100	-100.0%	0	7,823	-100.0%
SOFR	0	6,000	-100.0%	204	0	0.00%	7,310	6,010	21.6%	1,646	3,114	-47.1%
Ultra 10-Year Note	0	0	0.0%	16	0	0.00%	0	13,035	-100.0%	62	2,965	-97.9%
ULTRA T-BOND	0	0	0.0%	931	589	58.06%	0	10,870	-100.0%	8,290	4,239	95.6%
Equity Index Futures												
BITCOIN FUTURES	0	0	0.0%	163,245	244,484	-33.23%	0	0	0.0%	2,492,300	2,213,538	12.6%
DJ US REAL ESTATE	0	0	0.0%	62,732	40,905	53.36%	0	0	0.0%	418,446	419,501	-0.3%
E-mini (\$5) Dow	0	0	0.0%	4,214,784	3,412,029	23.53%	0	0	0.0%	44,319,648	59,279,268	-25.2%
E-MINI COM SERVICES SELEC	0	0	0.0%	6,098	3,892	56.68%	0	0	0.0%	35,349	29,476	19.9%
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%	139	0	0.00%	0	0	0.0%	898	2	44,800.0%
E-MINI MIDCAP	0	0	0.0%	423,532	473,840	-10.62%	0	0	0.0%	3,270,992	4,400,865	-25.7%
E-MINI NASDAQ 100	0	0	0.0%	14,194,846	9,939,297	42.82%	0	0	0.0%	139,598,255	145,911,118	-4.3%
E-MINI RUSSELL 1000	0	0	0.0%	11,890	2,423	390.71%	0	0	0.0%	58,977	38,687	52.4%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	7,159	7,560	-5.30%	0	0	0.0%	40,763	38,635	5.5%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	15,176	11,781	28.82%	0	0	0.0%	99,056	76,995	28.7%
E-MINI RUSSELL 2000	0	0	0.0%	6,142,363	4,575,300	34.25%	0	0	0.0%	51,096,171	50,952,040	0.3%
E-MINI S&P500	0	0	0.0%	43,907,557	34,059,964	28.91%	0	0	0.0%	400,484,437	499,585,515	-19.8%
E-MINI S&P500 ESG	0	0	0.0%	30,886	21,384	44.44%	0	0	0.0%	173,931	96,519	80.2%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	8,256	6,646	24.23%	0	0	0.0%	53,646	58,421	-8.2%
ETHER FUTURES	0	-	-	90,841	-	-	0	-	-	887,707	-	-
FT-SE 100	0	0	0.0%	89	1	8,800.00%	0	0	0.0%	373	9	4,044.4%
FTSE Emerging	0	0	0.0%	0	25	-100.00%	0	0	0.0%	5	4,798	-99.9%
IBOVESPA INDEX	0	0	0.0%	71	187	-62.03%	0	0	0.0%	2,570	4,668	-44.9%

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Equity Index Futures												
MICRO BITCOIN FUTURES	0	-	-	419,521	-		0	-	-	3,727,461	-	-
MICRO E-MINI NASDAQ 100	0	0	0.0%	24,614,942	16,275,693	51.24%	0	0	0.0%	239,115,577	178,531,164	33.9%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	4,073,952	1,982,659	105.48%	0	0	0.0%	39,150,463	23,672,428	65.4%
MICRO E-MINI S&P500	0	0	0.0%	21,948,911	16,318,013	34.51%	0	0	0.0%	218,602,634	226,808,530	-3.6%
MICRO ETHER FUTURES	0	-	-	208,324	-		0	-	-	208,324	-	-
MICRO MINI \$5 DOW	0	0	0.0%	3,489,548	2,778,902	25.57%	0	0	0.0%	33,488,112	32,643,055	2.6%
NASDAQ-100 VOLATILITY	0	0	0.0%	0	6	-100.00%	0	0	0.0%	111	23	382.6%
NASDAQ BIOTECH	0	0	0.0%	198	285	-30.53%	0	0	0.0%	5,822	5,555	4.8%
Nearby BTIC+	0	0	0.0%	650	0	0.00%	0	0	0.0%	1,106	200	453.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	154,574	133,213	16.04%	0	0	0.0%	1,583,504	2,258,392	-29.9%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	740,644	641,304	15.49%	0	0	0.0%	8,116,758	11,237,739	-27.8%
S&P 500	0	0	0.0%	1,200	120	900.00%	0	33,712	-100.0%	14,436	20,961	-31.1%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	19,013	9,407	102.12%	0	0	0.0%	169,368	254,429	-33.4%
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%	10	254	-96.06%	0	0	0.0%	1,034	9,893	-89.5%
S&P 600 SMALLCAP EMINI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
S&P CONSUMER DSCRTRY S	0	0	0.0%	14,248	11,026	29.22%	0	0	0.0%	121,184	90,704	33.6%
S&P CONSUMER STAPLES SE	0	0	0.0%	28,109	20,955	34.14%	0	0	0.0%	209,483	148,856	40.7%
S&P ENERGY SECTOR	0	0	0.0%	46,478	37,787	23.00%	0	0	0.0%	346,248	251,170	37.9%
S&P FINANCIAL SECTOR	0	0	0.0%	51,577	42,705	20.78%	0	0	0.0%	380,364	239,739	58.7%
S&P HEALTH CARE SECTOR	0	0	0.0%	31,230	22,751	37.27%	0	0	0.0%	196,970	163,421	20.5%
S&P INDUSTRIAL SECTOR	0	0	0.0%	18,178	19,753	-7.97%	0	0	0.0%	127,565	119,385	6.9%
S&P MATERIALS SECTOR	0	0	0.0%	16,005	11,882	34.70%	0	0	0.0%	107,154	68,583	56.2%
S&P TECHNOLOGY SECTOR	0	0	0.0%	30,868	20,801	48.40%	0	0	0.0%	157,166	138,503	13.5%
S&P UTILITIES SECTOR	0	0	0.0%	28,478	24,858	14.56%	0	0	0.0%	207,381	176,132	17.7%
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	0	0.0%	39	94	-58.51%	0	0	0.0%	986	94	948.9%
YEN DENOMINATED TOPIX	0	0	0.0%	3,883	1,672	132.24%	0	0	0.0%	31,216	77,860	-59.9%

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Equity Index Options												
BITCOIN OPTIONS	0	0	0.0%	1,109	3,249	-65.87%	0	0	0.0%	13,657	19,799	-31.0%
E-mini (\$5) Dow	0	0	0.0%	3,555	1,469	142.00%	0	0	0.0%	27,353	33,237	-17.7%
E-MINI NASDAQ 100	0	0	0.0%	689,271	262,327	162.75%	0	0	0.0%	6,981,883	4,029,014	73.3%
E-MINI RUSSELL 2000	0	0	0.0%	46,727	16,753	178.92%	0	0	0.0%	383,123	230,424	66.3%
E-MINI S&P500	0	0	0.0%	10,462,713	5,917,491	76.81%	0	250	-100.0%	80,536,703	84,727,173	-4.9%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	36,820	19,353	90.25%	0	0	0.0%	268,359	116,366	130.6%
EOM EMINI S&P	0	0	0.0%	2,888,100	1,242,052	132.53%	0	0	0.0%	24,839,990	23,023,550	7.9%
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%	13,502	2,406	461.18%	0	0	0.0%	144,857	50,285	188.1%
EOW1 EMINI S&P 500	0	0	0.0%	1,907,033	392,686	385.64%	0	0	0.0%	13,464,884	12,023,282	12.0%
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%	14,986	7,888	89.98%	0	0	0.0%	164,102	80,323	104.3%
EOW2 EMINI S&P 500	0	0	0.0%	1,716,479	941,003	82.41%	0	0	0.0%	14,165,898	12,873,879	10.0%
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%	34,538	14,679	135.29%	0	0	0.0%	387,324	205,288	88.7%
EOW3 EMINI S&P 500	0	0	0.0%	1,866,861	1,236,307	51.00%	0	0	0.0%	26,153,993	27,386,900	-4.5%
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%	13,839	6,220	122.49%	0	0	0.0%	176,716	46,721	278.2%
EOW4 EMINI S&P 500	0	0	0.0%	1,486,432	588,852	152.43%	0	0	0.0%	11,707,950	10,270,410	14.0%
MICRO E-MINI NASDAQ	0	0	0.0%	16,569	2,460	573.54%	0	0	0.0%	80,775	6,839	1,081.1%
MICRO E-MINI NASDAQ 100	0	-	-	15,553	-		0	-	-	27,695	-	-
MICRO E-MINI NASDAQ END O	0	0	0.0%	13,748	1,684	716.39%	0	0	0.0%	98,521	6,505	1,414.5%
MICRO E-MINI NASDAQ WEEKL	0	0	0.0%	32,583	4,268	663.43%	0	0	0.0%	263,353	25,079	950.1%
MICRO E-MINI S&P 500	0	0	0.0%	71,505	22,233	221.62%	0	0	0.0%	392,204	86,488	353.5%
MICRO E-MINI S&P 500 END OF	0	0	0.0%	63,425	16,617	281.69%	0	0	0.0%	506,591	113,327	347.0%
MICRO E-MINI S&P 500 WEEKL	0	0	0.0%	139,267	46,470	199.69%	0	0	0.0%	1,179,998	331,258	256.2%
S&P 500	0	0	0.0%	0	380	-100.00%	0	677,812	-100.0%	200	8,853	-97.7%

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Metals Futures												
ALUMINUM	0	0	0.0%	15,686	2,767	466.90%	0	0	0.0%	151,429	49,467	206.1%
COBALT METAL FUTURES	0	0	0.0%	0	3	-100.00%	0	0	0.0%	12	3	300.0%
COMEX COPPER	0	0	0.0%	1,150,698	1,536,999	-25.13%	0	0	0.0%	24,362,129	24,129,577	1.0%
COMEX E-Mini GOLD	0	0	0.0%	16,417	24,464	-32.89%	0	0	0.0%	269,903	386,925	-30.2%
COMEX E-Mini SILVER	0	0	0.0%	3,111	6,393	-51.34%	0	0	0.0%	67,532	106,315	-36.5%
COMEX GOLD	0	0	0.0%	3,021,383	3,973,811	-23.97%	0	0	0.0%	57,283,046	76,003,612	-24.6%
COMEX MINY COPPER	0	0	0.0%	3,743	1,956	91.36%	0	0	0.0%	59,580	13,863	329.8%
COMEX SILVER	0	0	0.0%	990,136	1,664,102	-40.50%	0	0	0.0%	19,329,106	25,671,554	-24.7%
COPPER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FERROUS PRODUCTS	0	0	0.0%	585	1,372	-57.36%	0	0	0.0%	7,865	14,063	-44.1%
GOLD	0	0	0.0%	14,067	2,585	444.18%	0	0	0.0%	104,404	79,860	30.7%
HOT ROLLED COIL STEEL FUT	0	0	0.0%	141	88	60.23%	0	0	0.0%	2,216	754	193.9%
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%	730,417	1,599,830	-54.34%	0	0	0.0%	13,924,959	21,783,469	-36.1%
NYMEX HOT ROLLED STEEL	0	0	0.0%	2,977	3,638	-18.17%	0	0	0.0%	47,445	52,596	-9.8%
NYMEX PLATINUM	0	0	0.0%	438,471	452,807	-3.17%	0	0	0.0%	4,343,416	4,406,372	-1.4%
PALLADIUM	0	0	0.0%	36,054	29,691	21.43%	0	0	0.0%	575,887	650,795	-11.5%
SILVER	0	0	0.0%	96,084	302,609	-68.25%	0	0	0.0%	2,197,275	2,449,936	-10.3%
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 DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Metals Options												
ALUMINUM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COMEX COPPER	0	0	0.0%	26,678	15,084	76.86%	0	0	0.0%	478,358	277,992	72.1%
COMEX GOLD	0	0	0.0%	405,547	504,996	-19.69%	0	0	0.0%	6,889,642	10,285,717	-33.0%
COMEX SILVER	0	0	0.0%	79,161	114,662	-30.96%	0	0	0.0%	1,550,814	1,998,599	-22.4%
COPPER	0	0	0.0%	97	0	0.00%	0	0	0.0%	435	2,679	-83.8%
GOLD	0	0	0.0%	127,497	130,247	-2.11%	0	0	0.0%	1,924,314	1,660,353	15.9%
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%	393	1,268	-69.01%	0	0	0.0%	6,057	6,916	-12.4%
PALLADIUM	0	0	0.0%	6	27	-77.78%	0	0	0.0%	716	1,479	-51.6%
SILVER	0	0	0.0%	14,674	6,066	141.91%	0	0	0.0%	142,554	99,422	43.4%
Energy Futures												
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%	1,680,516	1,492,426	12.60%	0	0	0.0%	23,913,280	25,575,616	-6.5%
CAR VINTAGE	0	-	-	2,346	-		0	-	-	23,135	-	-
CENTERPOINT BASIS 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 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Energy Futures												
CHICAGO ETHANOL SWAP	0	0	0.0%	295	432	-31.71%	0	0	0.0%	4,127	814	407.0%
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	0	0.00%	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%	18,660,079	15,065,309	23.86%	0	0	0.0%	251,754,490	268,219,219	-6.1%
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%	10,892	13,122	-16.99%	0	0	0.0%	401,208	330,717	21.3%
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

	Open Outcry DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Energy Futures												
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	244	-100.00%	0	0	0.0%	262	12,938	-98.0%
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%	66	38	73.68%	0	0	0.0%	636	356	78.7%
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

	Open Outcry DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Energy Futures												
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	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 CLNDF	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	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%	2,674,621	2,833,776	-5.62%	0	0	0.0%	36,564,712	41,682,189	-12.3%
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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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Energy Futures												
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%	265,594	226,746	17.13%	0	0	0.0%	2,856,286	2,244,653	27.2%
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%	467	971	-51.91%	0	0	0.0%	22,478	10,206	120.2%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	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%	13	6	116.67%	0	0	0.0%	83	61	36.1%
MINY NATURAL GAS	0	0	0.0%	194,234	197,755	-1.78%	0	0	0.0%	2,305,179	1,612,231	43.0%
MINY RBOB GAS	0	0	0.0%	13	7	85.71%	0	0	0.0%	107	85	25.9%
MINY WTI CRUDE OIL	0	0	0.0%	479,671	279,470	71.64%	0	0	0.0%	5,261,224	6,834,996	-23.0%
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%	28	20	40.00%	0	0	0.0%	371	45	724.4%
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%	16	0	0.00%	0	0	0.0%	516	174	196.6%
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%	36,032	36,220	-0.52%	0	0	0.0%	631,245	571,943	10.4%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Energy Futures												
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%	7,522,225	9,332,504	-19.40%	0	0	0.0%	95,799,648	118,649,105	-19.3%
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%	2	0	0.00%	0	0	0.0%	37	38	-2.6%
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 DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Energy Futures												
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 DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Energy Futures												
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%	3,181,981	3,300,079	-3.58%	0	0	0.0%	45,643,987	44,465,723	2.6%
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 DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Energy Futures												
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	1,820	-100.00%	0	0	0.0%	2,535	5,759	-56.0%
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%
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%
Energy Options												
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%	959	1,781	-46.15%	0	0	0.0%	34,356	152,393	-77.5%
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%	4,150	12,400	-66.53%	0	0	0.0%	49,630	101,621	-51.2%
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%	2,121,928	1,280,084	65.76%	0	0	0.0%	24,873,018	25,103,951	-0.9%
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

	Open Outcry DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Energy Options												
HEATING OIL PHY	0	0	0.0%	3,252	1,416	129.66%	0	0	0.0%	27,666	35,373	-21.8%
HENRY HUB FINANCIAL LAST	0	0	0.0%	14	27	-48.15%	0	0	0.0%	54	47	14.9%
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%	3,785	1,150	229.13%	0	0	0.0%	16,819	5,816	189.2%
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	350	-100.00%	0	0	0.0%	200	5,177	-96.1%
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%	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%	724,962	1,023,356	-29.16%	0	0	0.0%	13,993,292	15,810,500	-11.5%
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%	34	1	3,300.00%	0	0	0.0%	706	725	-2.6%
PETROCHEMICALS	0	0	0.0%	0	4	-100.00%	0	0	0.0%	75	15	400.0%
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 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%	1,399	1,853	-24.50%	0	0	0.0%	24,553	31,693	-22.5%
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%	775	0	0.00%	0	0	0.0%	10,875	17,102	-36.4%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	250	0	0.00%	0	0	0.0%	2,325	1,200	93.8%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
FX Futures												
AD/CD CROSS RATES	0	0	0.0%	74	12	516.67%	0	0	0.0%	246	98	151.0%
AD/JY CROSS RATES	0	0	0.0%	3,753	1,873	100.37%	0	0	0.0%	28,462	29,132	-2.3%
AD/NE CROSS RATES	0	0	0.0%	349	173	101.73%	0	0	0.0%	3,850	3,054	26.1%
AUSTRALIAN DOLLAR	0	0	0.0%	2,101,185	2,331,997	-9.90%	0	0	0.0%	24,495,976	25,842,040	-5.2%
BP/JY CROSS RATES	0	0	0.0%	3,798	3,067	23.83%	0	0	0.0%	31,136	36,686	-15.1%
BP/SF CROSS RATES	0	0	0.0%	2,714	580	367.93%	0	0	0.0%	11,614	4,826	140.7%
BRAZIL REAL	0	0	0.0%	262,717	204,054	28.75%	0	0	0.0%	2,790,938	2,299,969	21.3%
BRITISH POUND	0	0	0.0%	2,458,454	3,308,983	-25.70%	0	0	0.0%	24,135,676	27,830,067	-13.3%
CANADIAN DOLLAR	0	0	0.0%	1,886,774	1,893,478	-0.35%	0	0	0.0%	20,041,195	19,420,460	3.2%
CD/JY CROSS RATES	0	0	0.0%	8	11	-27.27%	0	0	0.0%	1,987	419	374.2%
CHINESE RENMINBI (CNH)	0	0	0.0%	21,882	35,857	-38.97%	0	0	0.0%	202,935	277,441	-26.9%
CZECK KORUNA (EC)	0	0	0.0%	0	4	-100.00%	0	0	0.0%	2	30	-93.3%
CZECK KORUNA (US)	0	0	0.0%	0	0	0.00%	0	0	0.0%	12	2	500.0%
EC/AD CROSS RATES	0	0	0.0%	8,133	14,419	-43.60%	0	0	0.0%	58,025	76,851	-24.5%
EC/CD CROSS RATES	0	0	0.0%	19,120	9,635	98.44%	0	0	0.0%	93,875	55,649	68.7%
EC/NOK CROSS RATES	0	0	0.0%	1,033	559	84.79%	0	0	0.0%	7,726	2,395	222.6%
EC/SEK CROSS RATES	0	0	0.0%	2,622	1,404	86.75%	0	0	0.0%	9,153	7,681	19.2%
EFX/BP CROSS RATES	0	0	0.0%	123,884	117,405	5.52%	0	0	0.0%	728,097	810,548	-10.2%
EFX/JY CROSS RATES	0	0	0.0%	93,157	74,719	24.68%	0	0	0.0%	555,520	669,029	-17.0%
EFX/SF CROSS RATES	0	0	0.0%	43,952	43,801	0.34%	0	0	0.0%	300,860	407,336	-26.1%
E-MICRO USD/CAD	0	-	-	900	-		0	-	-	3,094	-	-
E-MICRO USD/CHF	0	-	-	111	-		0	-	-	243	-	-
E-MICRO USD/JPY	0	-	-	3,638	-		0	-	-	11,592	-	-
E-MINI EURO FX	0	0	0.0%	133,692	218,618	-38.85%	0	0	0.0%	1,437,820	1,917,534	-25.0%
E-MINI JAPANESE YEN	0	0	0.0%	5,184	9,129	-43.21%	0	0	0.0%	106,465	232,932	-54.3%
EURO FX	0	0	0.0%	5,097,665	5,854,145	-12.92%	0	36	-100.0%	48,680,154	55,139,433	-11.7%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	11	-100.0%
HUNGARIAN FORINT (US)	0	0	0.0%	10	25	-60.00%	0	0	0.0%	187	137	36.5%
INDIAN RUPEE	0	0	0.0%	18,218	18,439	-1.20%	0	0	0.0%	174,460	298,936	-41.6%
JAPANESE YEN	0	0	0.0%	2,360,551	2,592,479	-8.95%	0	0	0.0%	27,041,400	28,876,974	-6.4%
KOREAN WON	0	0	0.0%	442	1,455	-69.62%	0	0	0.0%	12,660	8,184	54.7%
MEXICAN PESO	0	0	0.0%	1,145,822	1,459,203	-21.48%	0	0	0.0%	13,267,225	14,648,087	-9.4%
MICRO AUD/USD	0	0	0.0%	317,005	261,617	21.17%	0	0	0.0%	2,698,006	2,970,125	-9.2%
MICRO CAD/USD	0	0	0.0%	68,575	32,267	112.52%	0	0	0.0%	687,105	360,021	90.9%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
FX Futures												
MICRO CHF/USD	0	0	0.0%	8,173	10,126	-19.29%	0	0	0.0%	105,662	62,071	70.2%
MICRO EUR/USD	0	0	0.0%	574,447	614,152	-6.47%	0	0	0.0%	5,958,190	6,046,141	-1.5%
MICRO GBP/USD	0	0	0.0%	109,113	152,957	-28.66%	0	0	0.0%	1,025,415	933,208	9.9%
MICRO INR/USD	0	0	0.0%	709	2,212	-67.95%	0	0	0.0%	18,981	26,073	-27.2%
MICRO JPY/USD	0	0	0.0%	47,740	29,039	64.40%	0	0	0.0%	480,037	348,677	37.7%
MICRO USD/CNH	0	-	-	0	-	-	0	-	-	36	-	-
NEW ZEALND DOLLAR	0	0	0.0%	540,529	709,921	-23.86%	0	0	0.0%	6,982,267	7,441,015	-6.2%
NKR/USD CROSS RATE	0	0	0.0%	5,112	7,820	-34.63%	0	0	0.0%	54,324	55,922	-2.9%
POLISH ZLOTY (EC)	0	0	0.0%	376	148	154.05%	0	0	0.0%	1,778	740	140.3%
POLISH ZLOTY (US)	0	0	0.0%	1,745	1,300	34.23%	0	0	0.0%	11,314	10,050	12.6%
RMB USD	0	0	0.0%	0	0	0.00%	0	0	0.0%	3	4	-25.0%
RUSSIAN RUBLE	0	0	0.0%	207,254	163,962	26.40%	0	0	0.0%	1,459,099	1,384,375	5.4%
S.AFRICAN RAND	0	0	0.0%	94,293	87,405	7.88%	0	0	0.0%	742,095	921,859	-19.5%
SF/JY CROSS RATES	0	0	0.0%	65	4	1,525.00%	0	0	0.0%	444	255	74.1%
SHEKEL	0	0	0.0%	21	10	110.00%	0	0	0.0%	65	124	-47.6%
SKR/USD CROSS RATES	0	0	0.0%	5,771	7,995	-27.82%	0	0	0.0%	59,764	51,247	16.6%
SWISS FRANC	0	0	0.0%	513,470	618,861	-17.03%	0	0	0.0%	5,967,887	6,874,662	-13.2%
TURKISH LIRA	0	0	0.0%	8	0	0.00%	0	0	0.0%	16	96	-83.3%
USDZAR	0	0	0.0%	6	0	0.00%	0	0	0.0%	1,285	0	0.0%
FX Options												
AUD/USD MONDAY OPTION W	0	0	0.0%	209	951	-78.02%	0	0	0.0%	6,432	4,522	42.2%
AUD/USD MONDAY OPTION W	0	0	0.0%	489	920	-46.85%	0	0	0.0%	4,365	2,603	67.7%
AUD/USD MONDAY OPTION W	0	0	0.0%	95	0	0.00%	0	0	0.0%	4,232	2,940	43.9%
AUD/USD MONDAY OPTION W	0	0	0.0%	451	85	430.59%	0	0	0.0%	4,975	2,426	105.1%
AUD/USD MONDAY OPTION W	0	0	0.0%	0	0	0.00%	0	0	0.0%	2,356	798	195.2%
AUD/USD MONTHLY OPTIONS	0	0	0.0%	44,465	42,698	4.14%	0	0	0.0%	596,458	820,989	-27.3%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	561	-100.00%	0	0	0.0%	7,231	6,144	17.7%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,019	2,317	-12.86%	0	0	0.0%	22,118	43,661	-49.3%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,753	2,643	4.16%	0	0	0.0%	31,929	41,552	-23.2%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,557	1,346	15.68%	0	0	0.0%	34,739	44,598	-22.1%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	883	271	225.83%	0	0	0.0%	9,688	17,592	-44.9%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
FX Options												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	329	521	-36.85%	0	0	0.0%	13,207	14,388	-8.2%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	177	908	-80.51%	0	0	0.0%	8,367	17,114	-51.1%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	464	842	-44.89%	0	0	0.0%	3,603	9,324	-61.4%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	786	1,261	-37.67%	0	0	0.0%	10,371	16,586	-37.5%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	269	912	-70.50%	0	0	0.0%	2,254	6,603	-65.9%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	1,068	22	4,754.55%	0	0	0.0%	5,056	707	615.1%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,276	1,832	-30.35%	0	0	0.0%	11,615	4,997	132.4%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,570	100	1,470.00%	0	0	0.0%	17,998	2,423	642.8%
CAD/USD MONDAY OPTIONS	0	0	0.0%	394	130	203.08%	0	0	0.0%	11,076	8,954	23.7%
CAD/USD MONDAY OPTIONS	0	0	0.0%	379	600	-36.83%	0	0	0.0%	23,272	5,872	296.3%
CAD/USD MONDAY OPTIONS	0	0	0.0%	3	0	0.00%	0	0	0.0%	4,374	3,435	27.3%
CAD/USD MONTHLY OPTIONS	0	0	0.0%	75,077	38,493	95.04%	0	430	-100.0%	833,791	546,118	52.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	2,977	-100.00%	0	0	0.0%	27,536	15,410	78.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,278	3,763	-12.89%	0	0	0.0%	57,780	70,979	-18.6%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	5,714	8,222	-30.50%	0	0	0.0%	89,971	77,625	15.9%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,485	4,348	3.15%	0	0	0.0%	102,003	80,464	26.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,923	322	1,428.88%	0	0	0.0%	33,062	30,635	7.9%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,400	1,531	-8.56%	0	0	0.0%	24,681	25,598	-3.6%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	760	464	63.79%	0	0	0.0%	21,174	18,412	15.0%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,884	815	131.17%	0	0	0.0%	26,220	21,090	24.3%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,942	920	111.09%	0	0	0.0%	29,228	26,241	11.4%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	655	1,299	-49.58%	0	0	0.0%	9,690	9,498	2.0%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	21,661	2,435	789.57%	0	0	0.0%	82,630	42,706	93.5%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	22	-100.00%	0	0	0.0%	411	161	155.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	272	9	2,922.22%	0	0	0.0%	3,655	2,252	62.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	99	59	67.80%	0	0	0.0%	2,064	1,354	52.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	382	7	5,357.14%	0	0	0.0%	3,190	1,456	119.1%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	22	0	0.00%	0	0	0.0%	307	1,824	-83.2%
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	0	0.0%	0	0	0.00%	0	0	0.0%	100	0	0.0%
EUR/USD MONDAY OPTION W	0	0	0.0%	2,307	3,964	-41.80%	0	0	0.0%	22,474	22,580	-0.5%
EUR/USD MONDAY OPTION W	0	0	0.0%	214	4,292	-95.01%	0	0	0.0%	17,902	20,278	-11.7%
EUR/USD MONDAY OPTION W	0	0	0.0%	823	5,190	-84.14%	0	0	0.0%	17,416	25,144	-30.7%
EUR/USD MONDAY OPTION W	0	0	0.0%	917	751	22.10%	0	0	0.0%	31,805	21,849	45.6%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
FX Options												
EUR/USD MONDAY OPTION W	0	0	0.0%	51	0	0.00%	0	0	0.0%	9,145	9,785	-6.5%
EUR/USD MONTHLY OPTIONS	0	0	0.0%	135,217	190,734	-29.11%	0	1,550	-100.0%	2,274,341	3,163,220	-28.1%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	6,339	-100.00%	0	0	0.0%	49,464	35,651	38.7%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	18,298	15,001	21.98%	0	62	-100.0%	173,669	219,335	-20.8%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	22,259	19,530	13.97%	0	0	0.0%	254,108	237,509	7.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	17,626	10,067	75.09%	0	0	0.0%	216,278	246,398	-12.2%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	10,809	521	1,974.66%	0	0	0.0%	96,745	79,407	21.8%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	3,092	5,589	-44.68%	0	0	0.0%	76,509	112,744	-32.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	5,431	7,992	-32.04%	0	0	0.0%	82,512	94,497	-12.7%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	4,360	11,036	-60.49%	0	0	0.0%	79,432	96,784	-17.9%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	2,734	9,479	-71.16%	0	0	0.0%	101,314	93,022	8.9%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	2,023	9,881	-79.53%	0	0	0.0%	27,415	44,031	-37.7%
GBP/USD MONDAY OPTION W	0	0	0.0%	1,301	5,169	-74.83%	0	0	0.0%	5,940	11,806	-49.7%
GBP/USD MONDAY OPTION W	0	0	0.0%	510	464	9.91%	0	0	0.0%	7,187	5,536	29.8%
GBP/USD MONDAY OPTION W	0	0	0.0%	250	431	-42.00%	0	0	0.0%	5,109	9,670	-47.2%
GBP/USD MONDAY OPTION W	0	0	0.0%	130	456	-71.49%	0	0	0.0%	6,838	12,508	-45.3%
GBP/USD MONDAY OPTION W	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,238	1,814	-31.8%
GBP/USD MONTHLY OPTIONS	0	0	0.0%	56,759	116,741	-51.38%	0	64	-100.0%	856,650	1,055,950	-18.9%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	1,989	-100.00%	0	0	0.0%	12,239	11,476	6.6%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,399	2,744	-49.02%	0	0	0.0%	33,053	40,809	-19.0%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,175	8,985	-75.79%	0	0	0.0%	34,876	52,773	-33.9%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,004	3,679	-18.35%	0	0	0.0%	41,750	39,756	5.0%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,544	4	63,500.00%	0	0	0.0%	12,988	16,266	-20.2%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,669	15	11,026.67%	0	0	0.0%	14,658	19,135	-23.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	145	1,930	-92.49%	0	0	0.0%	8,311	13,484	-38.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,887	634	197.63%	0	0	0.0%	10,664	18,835	-43.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,322	2,401	-44.94%	0	0	0.0%	15,645	15,498	0.9%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	582	481	21.00%	0	0	0.0%	3,173	7,661	-58.6%
JPY/USD MONDAY OPTION WE	0	0	0.0%	169	954	-82.29%	0	0	0.0%	4,142	9,849	-57.9%
JPY/USD MONDAY OPTION WE	0	0	0.0%	202	734	-72.48%	0	0	0.0%	6,349	13,803	-54.0%
JPY/USD MONDAY OPTION WE	0	0	0.0%	40	465	-91.40%	0	0	0.0%	4,140	8,833	-53.1%
JPY/USD MONDAY OPTION WE	0	0	0.0%	91	604	-84.93%	0	0	0.0%	4,760	7,805	-39.0%
JPY/USD MONDAY OPTION WE	0	0	0.0%	3	0	0.00%	0	0	0.0%	2,900	2,939	-1.3%
JPY/USD MONTHLY OPTIONS	0	0	0.0%	111,731	50,860	119.68%	0	727	-100.0%	1,003,332	1,301,048	-22.9%

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CME Group Exchange Volume Comparison Report - Monthly

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FX Options												
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	3,033	-100.00%	0	0	0.0%	28,297	20,175	40.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	14,975	6,680	124.18%	0	0	0.0%	83,875	122,980	-31.8%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	7,574	12,903	-41.30%	0	0	0.0%	116,701	141,745	-17.7%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	7,960	5,984	33.02%	0	0	0.0%	107,157	128,713	-16.7%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	5,043	374	1,248.40%	0	0	0.0%	41,680	48,416	-13.9%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,634	638	312.85%	0	0	0.0%	36,929	54,310	-32.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,587	2,213	107.28%	0	0	0.0%	46,744	44,377	5.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,428	1,532	189.03%	0	0	0.0%	43,317	50,968	-15.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,589	3,245	-20.22%	0	0	0.0%	41,273	54,952	-24.9%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,625	843	211.39%	0	0	0.0%	10,504	13,261	-20.8%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	350	397	-11.84%	0	1,840	-100.0%	15,854	17,641	-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%	0	486	-100.00%	0	0	0.0%	904	3,274	-72.4%
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	0	0.00%	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%	13	19	-31.58%	0	0	0.0%	2,511	4,984	-49.6%
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	67	-100.00%	0	0	0.0%	68	636	-89.3%
Ags Futures												
FERTILIZER PRODUCS	0	0	0.0%	0	4	-100.00%	0	0	0.0%	54	94	-42.6%
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 DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Foreign Exchange Options												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	6	373	-98.39%	0	0	0.0%	5,109	7,831	-34.8%
Ag Products Futures												
BLOCK CHEESE	0	0	0.0%	857	251	241.43%	0	0	0.0%	7,461	2,845	162.2%
BUTTER CS	0	0	0.0%	6,474	5,687	13.84%	0	0	0.0%	48,901	64,989	-24.8%
CASH-SETTLED CHEESE	0	0	0.0%	9,628	15,661	-38.52%	0	0	0.0%	139,149	158,841	-12.4%
CAT ASIA WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CATTLE	0	0	0.0%	954,369	902,081	5.80%	0	2,592	-100.0%	13,908,672	16,097,985	-13.6%
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%	1,569,906	2,049,563	-23.40%	0	12,092	-100.0%	29,717,505	33,125,975	-10.3%
CLASS IV MILK	0	0	0.0%	4,539	602	653.99%	0	65	-100.0%	21,811	22,833	-4.5%
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%	4,306,005	5,059,888	-14.90%	0	18,145	-100.0%	83,654,859	86,723,337	-3.5%
COTTON	0	0	0.0%	0	2	-100.00%	0	0	0.0%	0	59	-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%	81,172	53,537	51.62%	0	0	0.0%	609,194	354,195	72.0%
DRY WHEY	0	0	0.0%	1,198	2,762	-56.63%	0	0	0.0%	22,256	18,662	19.3%
FEEDER CATTLE	0	0	0.0%	237,535	245,495	-3.24%	0	54	-100.0%	3,066,591	3,224,391	-4.9%
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	3,499	12,797	-72.66%	0	0	0.0%	93,370	174,903	-46.6%
GSCI EXCESS RETURN FUT	0	0	0.0%	77	0	0.00%	0	0	0.0%	228	85	168.2%
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%	752,378	682,777	10.19%	0	1,940	-100.0%	11,399,319	12,372,698	-7.9%
HOUSING INDEX	0	0	0.0%	14	6	133.33%	0	0	0.0%	166	270	-38.5%
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 DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Ag Products Futures												
KC WHEAT	0	0	0.0%	752,411	649,669	15.81%	0	1,534	-100.0%	12,626,030	13,386,117	-5.7%
LUMBER	0	0	0.0%	9,801	14,025	-30.12%	0	0	0.0%	114,765	155,138	-26.0%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	0	0	0.0%	30,656	36,974	-17.09%	0	59	-100.0%	302,869	422,799	-28.4%
MINI CORN	0	0	0.0%	37,422	34,711	7.81%	0	0	0.0%	704,384	333,324	111.3%
MINI SOYBEAN	0	0	0.0%	45,549	68,195	-33.21%	0	0	0.0%	662,661	503,970	31.5%
MINI WHEAT	0	0	0.0%	20,532	18,641	10.14%	0	0	0.0%	251,059	175,005	43.5%
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%	5,779	4,593	25.82%	0	0	0.0%	64,797	88,611	-26.9%
OATS	0	0	0.0%	9,908	8,537	16.06%	0	0	0.0%	135,814	133,444	1.8%
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%	2,172	2,056	5.64%	0	0	0.0%	28,554	4,423	545.6%
ROUGH RICE	0	0	0.0%	26,254	28,662	-8.40%	0	0	0.0%	208,073	245,280	-15.2%
SOYBEAN	0	0	0.0%	4,528,073	5,813,030	-22.10%	0	10,769	-100.0%	50,724,976	58,146,296	-12.8%
SOYBEAN MEAL	0	0	0.0%	2,326,248	2,445,807	-4.89%	0	1,333	-100.0%	25,868,833	28,995,628	-10.8%
SOYBEAN OIL	0	0	0.0%	2,556,196	2,850,556	-10.33%	0	4,078	-100.0%	32,047,198	32,371,016	-1.0%
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%	3,077	4,631	-33.56%	0	0	0.0%	36,688	29,248	25.4%
Ag Products Options												
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%	40	290	-86.21%	0	2,052	-100.0%	3,004	6,646	-54.8%
BUTTER CS	0	0	0.0%	3,445	2,246	53.38%	0	212	-100.0%	24,406	32,781	-25.5%
CASH-SETTLED CHEESE	0	0	0.0%	6,931	11,055	-37.30%	0	5,682	-100.0%	74,091	132,016	-43.9%
CATTLE	0	0	0.0%	164,771	174,494	-5.57%	0	59,913	-100.0%	2,284,001	2,599,917	-12.2%
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%	442,044	458,841	-3.66%	0	202,275	-100.0%	5,774,261	7,421,926	-22.2%
CLASS IV MILK	0	0	0.0%	9,944	1,446	587.69%	0	1,082	-100.0%	57,164	46,839	22.0%

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CME Group Exchange Volume Comparison Report - Monthly

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Ag Products Options												
CORN	0	0	0.0%	1,380,253	2,413,476	-42.81%	0	536,597	-100.0%	31,490,399	23,660,707	33.1%
CORN NEARBY+2 CAL SPRD	0	0	0.0%	20,187	265	7,517.74%	0	14,975	-100.0%	159,387	52,254	205.0%
DEC-DEC CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	250	-100.0%	3,717	1,885	97.2%
DEC-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	175	-100.0%	24,185	3,567	578.0%
DEC-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	1,595	-100.0%
DRY WHEY	0	0	0.0%	20	519	-96.15%	0	119	-100.0%	1,823	5,824	-68.7%
FEEDER CATTLE	0	0	0.0%	22,829	18,508	23.35%	0	4,252	-100.0%	266,218	293,646	-9.3%
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%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOGS	0	0	0.0%	180,663	114,121	58.31%	0	34,430	-100.0%	2,411,296	2,886,738	-16.5%
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%	7,756	880	781.36%	0	11,810	-100.0%	47,861	13,577	252.5%
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	30	-100.00%	0	50	-100.0%	0	110	-100.0%
JULY-NOV SOYBEAN CAL SPR	0	0	0.0%	7,430	900	725.56%	0	4,950	-100.0%	12,823	10,053	27.6%
KC WHEAT	0	0	0.0%	116,507	38,459	202.94%	0	36,570	-100.0%	899,641	1,061,407	-15.2%
LUMBER	0	0	0.0%	689	1,011	-31.85%	0	0	0.0%	8,307	10,497	-20.9%
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	30	-100.00%	0	505	-100.0%	0	30	-100.0%
MAR-JULY CORN CAL SPRD	0	0	0.0%	1,500	0	0.00%	0	2,500	-100.0%	5,790	500	1,058.0%
MAR-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	20	-100.0%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	200	100	100.00%	0	0	0.0%	900	540	66.7%
MILK	0	0	0.0%	37,941	31,080	22.08%	0	3,323	-100.0%	315,301	525,467	-40.0%
MLK MID OPTIONS	0	0	0.0%	4	12	-66.67%	0	31	-100.0%	32	105	-69.5%
NFD MILK	0	0	0.0%	2,501	2,590	-3.44%	0	494	-100.0%	38,702	69,872	-44.6%
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 DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
Ag Products Options												
OATS	0	0	0.0%	280	116	141.38%	0	720	-100.0%	4,184	2,601	60.9%
PORK CUTOUT	0	0	0.0%	0	178	-100.00%	0	0	0.0%	750	181	314.4%
ROUGH RICE	0	0	0.0%	1,603	49	3,171.43%	0	6,492	-100.0%	11,061	14,121	-21.7%
SOYBEAN	0	0	0.0%	1,218,026	2,214,411	-45.00%	0	275,778	-100.0%	18,193,197	16,515,166	10.2%
SOYBEAN CRUSH	0	0	0.0%	25	180	-86.11%	0	830	-100.0%	1,257	3,327	-62.2%
SOYBEAN MEAL	0	0	0.0%	316,740	271,861	16.51%	0	84,223	-100.0%	2,870,651	2,880,813	-0.4%
SOYBEAN OIL	0	0	0.0%	248,163	452,370	-45.14%	0	106,072	-100.0%	3,326,961	2,564,671	29.7%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	1,400	200	600.00%	0	335	-100.0%	21,674	13,325	62.7%
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%	322	1,811	-82.22%	0	16	-100.0%	7,378	14,235	-48.2%
WHEAT-CORN ICSCO	0	0	0.0%	0	29	-100.00%	0	70	-100.0%	851	6,293	-86.5%
WHEAT NEARBY+2 CAL SPRD	0	0	0.0%	376	0	0.00%	0	1,251	-100.0%	6,561	6,876	-4.6%
TOTAL FUTURES GROUP												
Interest Rate Futures	468,202	137,810	239.7%	114,082,364	88,120,861	29.5%	5,767,140	3,890,291	48.2%	1,757,629,895	1,514,059,112	16.1%
Equity Index Futures	0	0	0.0%	125,220,244	91,153,858	37.4%	0	33,712	-100.0%	1,189,103,951	1,240,026,871	-4.1%
Metals Futures	0	0	0.0%	6,519,970	9,603,115	-32.1%	0	0	0.0%	122,726,763	155,799,425	-21.2%
Energy Futures	0	0	0.0%	34,709,091	32,780,945	5.9%	0	0	0.0%	465,186,221	510,226,470	-8.8%
FX Futures	0	0	0.0%	18,294,254	20,895,320	-12.4%	0	36	-100.0%	190,486,358	206,382,606	-7.7%
Ags Futures	0	0	0.0%	0	4	-100.0%	0	0	0.0%	54	94	-42.6%
Foreign Exchange Futures	-	0	0.0%	-	0	0.0%	-	0	0.0%	-	0	0.0%
Ag Products Futures	0	0	0.0%	18,281,729	21,011,196	-13.0%	0	52,661	-100.0%	266,466,207	287,332,454	-7.3%
TOTAL FUTURES	468,202	137,810	239.7%	317,107,652	263,565,299	20.3%	5,767,140	3,976,700	45.0%	3,991,599,449	3,913,827,032	2.0%

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CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry DEC 2021	Open Outcry DEC 2020	% CHG	ELEC DEC 2021	ELEC DEC 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
TOTAL OPTIONS GROUP												
Equity Index Options	0	0	0.0%	21,534,615	10,746,847	100.4%	0	1,658,011	-100.0%	181,968,287	175,695,000	3.6%
Interest Rate Options	13,487,817	4,941,966	172.9%	23,271,748	14,514,173	60.3%	165,267,241	96,789,095	70.7%	315,733,422	332,112,127	-4.9%
Metals Options	0	0	0.0%	654,053	772,350	-15.3%	0	0	0.0%	10,992,890	14,333,157	-23.3%
Energy Options	0	0	0.0%	2,861,508	2,322,422	23.2%	0	0	0.0%	39,033,969	41,265,616	-5.4%
FX Options	0	0	0.0%	647,042	663,126	-2.4%	0	4,673	-100.0%	8,386,750	9,966,294	-15.8%
Ag Products Options	0	0	0.0%	4,192,590	6,211,558	-32.5%	0	1,407,841	-100.0%	68,348,355	60,869,970	12.3%
Foreign Exchange Options	0	0	0.0%	6	373	-98.4%	0	0	0.0%	5,109	7,831	-34.8%
TOTAL OPTIONS	13,487,817	4,941,966	172.9%	53,161,562	35,230,849	50.9%	165,267,241	99,859,620	65.5%	624,468,782	634,249,995	-1.5%
TOTAL COMBINED												
Interest Rate	13,956,019	5,079,776	174.7%	137,354,112	102,635,034	33.8%	171,034,381	100,679,386	69.9%	2,073,363,317	1,846,171,239	12.3%
Equity Index	0	0	0.0%	146,754,859	101,900,705	44.0%	0	1,691,723	-100.0%	1,371,072,238	1,415,721,871	-3.2%
Metals	0	0	0.0%	7,174,023	10,375,465	-30.9%	0	0	0.0%	133,719,653	170,132,582	-21.4%
Energy	0	0	0.0%	37,570,599	35,103,367	7.0%	0	0	0.0%	504,220,190	551,492,086	-8.6%
FX	0	0	0.0%	18,941,296	21,558,446	-12.1%	0	4,709	-100.0%	198,873,108	216,348,900	-8.1%
Ags	0	0	0.0%	0	4	-100.0%	0	0	0.0%	54	94	-42.6%
Foreign Exchange	0	0	0.0%	6	373	-98.4%	0	0	0.0%	5,109	7,831	-34.8%
Ag Products	0	0	0.0%	22,474,319	27,222,754	-17.4%	0	1,460,502	-100.0%	334,814,562	348,202,424	-3.8%
GRAND TOTAL	13,956,019	5,079,776	174.7%	370,269,214	298,796,148	23.9%	171,034,381	103,836,320	64.7%	4,616,068,231	4,548,077,027	1.5%

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