



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2022	Open Outcry JUL 2021	% CHG	ELEC JUL 2022	ELEC JUL 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>Interest Rate Futures</b>												
10-YR Eris LIBOR	0	0	0.0%	3,055	1,532	99.41%	0	0	0.0%	33,105	13,075	153.2%
10-YR Eris SOFR	0	0	0.0%	67	30	123.33%	0	0	0.0%	565	150	276.7%
10-YR MAC LIBOR	0	0	0.0%	5,498	43,016	-87.22%	0	0	0.0%	124,305	387,340	-67.9%
10-YR NOTE	0	0	0.0%	28,949,983	31,448,977	-7.95%	0	0	0.0%	268,946,514	271,415,618	-0.9%
10Y YIELD	0	-	-	97,723	-	-	0	-	-	692,510	-	-
15-YR Eris LIBOR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
1-MONTH EURODOLLAR	0	0	0.0%	7	0	0.00%	0	0	0.0%	281	0	0.0%
1-YR Eris BSBY	0	-	-	300	-	-	0	-	-	1,300	-	-
1-YR Eris SOFR	0	0	0.0%	7,711	69,260	-88.87%	0	0	0.0%	188,328	485,278	-61.2%
20-YR BOND	0	-	-	3,470	-	-	0	-	-	24,065	-	-
20-YR SWAP RATE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
2-YR Eris LIBOR	0	0	0.0%	2,033	2,200	-7.59%	0	0	0.0%	76,591	12,506	512.4%
2-YR Eris SOFR	0	0	0.0%	4,387	4,350	0.85%	0	0	0.0%	85,689	21,620	296.3%
2-YR NOTE	0	0	0.0%	9,240,642	5,828,905	58.53%	0	0	0.0%	91,773,587	57,759,117	58.9%
2Y YIELD	0	-	-	6,345	-	-	0	-	-	54,796	-	-
30-YR BOND	0	0	0.0%	6,063,370	7,279,222	-16.70%	0	0	0.0%	56,735,657	65,582,962	-13.5%
30-YR Eris LIBOR	0	0	0.0%	0	0	0.00%	0	0	0.0%	185	0	0.0%
30-YR SWAP RATE	0	0	0.0%	0	0	0.00%	0	0	0.0%	304	0	0.0%
30Y YIELD	0	-	-	7,835	-	-	0	-	-	74,792	-	-
3-YR Eris BSBY	0	-	-	0	-	-	0	-	-	4	-	-
3-YR Eris LIBOR	0	0	0.0%	1,403	1,025	36.88%	0	0	0.0%	46,896	16,241	188.8%
3-YR Eris SOFR	0	0	0.0%	2,342	1,487	57.50%	0	0	0.0%	23,712	8,923	165.7%
3-YR NOTE	0	0	0.0%	335,607	139,943	139.82%	0	0	0.0%	2,450,198	1,196,687	104.7%
4-YR Eris LIBOR	0	0	0.0%	1,896	5,200	-63.54%	0	0	0.0%	27,048	15,481	74.7%
4-YR Eris SOFR	0	0	0.0%	104	420	-75.24%	0	0	0.0%	4,669	3,650	27.9%
5-YR Eris LIBOR	0	0	0.0%	17,087	20,354	-16.05%	0	0	0.0%	172,620	161,278	7.0%
5-YR Eris SOFR	0	0	0.0%	1,891	430	339.77%	0	0	0.0%	16,426	1,855	785.5%
5-YR MAC LIBOR	0	0	0.0%	32,844	48,036	-31.63%	0	0	0.0%	220,217	356,832	-38.3%
5-YR NOTE	0	0	0.0%	19,159,722	16,698,051	14.74%	0	0	0.0%	185,899,851	155,324,194	19.7%
5Y YIELD	0	-	-	4,575	-	-	0	-	-	20,453	-	-
7-YR Eris LIBOR	0	0	0.0%	1,574	1,558	1.03%	0	0	0.0%	18,231	15,570	17.1%
7-YR Eris SOFR	0	-	-	21	-	-	0	-	-	199	-	-
BSBY 3-MONTH FUTURES	0	-	-	23,037	-	-	0	-	-	457,232	-	-

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<b>Interest Rate Futures</b>												
EURODOLLARS	640,248	458,766	39.6%	24,752,682	47,236,655	-47.60%	5,694,919	2,923,737	94.8%	286,560,837	345,342,875	-17.0%
FED FUND	0	0	0.0%	6,822,486	1,425,046	378.76%	0	0	0.0%	50,809,020	13,153,764	286.3%
SOFR	102,323	0	0.0%	35,035,620	2,227,725	1,472.71%	247,155	0	0.0%	208,878,549	16,153,370	1,193.1%
SONIA	0	0	0.0%	57	39,416	-99.86%	0	0	0.0%	1,293	721,103	-99.8%
TIIE	0	0	0.0%	69	30	130.00%	0	0	0.0%	657	83	691.6%
Ultra 10-Year Note	0	0	0.0%	5,086,634	5,917,131	-14.04%	0	0	0.0%	54,412,743	50,853,023	7.0%
ULTRA T-BOND	0	0	0.0%	2,753,648	3,163,075	-12.94%	0	0	0.0%	31,342,442	31,357,284	0.0%
<b>Interest Rate Options</b>												
10-YR NOTE	0	0	0.0%	12,574,897	11,075,779	13.54%	0	0	0.0%	93,945,074	93,964,257	0.0%
2-YR NOTE	0	0	0.0%	133,141	329	40,368.39%	0	0	0.0%	298,458	91,828	225.0%
30-YR BOND	0	0	0.0%	1,945,456	2,788,342	-30.23%	0	0	0.0%	17,290,456	19,471,834	-11.2%
5-YR NOTE	0	0	0.0%	5,148,042	3,210,283	60.36%	0	0	0.0%	35,808,677	22,488,836	59.2%
EURODOLLARS	4,115,267	1,968,851	109.0%	2,024,872	900,231	124.93%	62,174,164	18,593,320	234.4%	25,202,847	9,555,775	163.7%
EURO MIDCURVE	1,793,909	11,625,643	-84.6%	985,794	5,097,688	-80.66%	37,148,425	74,595,841	-50.2%	19,041,921	37,626,480	-49.4%
FED FUND	0	0	0.0%	1	0	0.00%	0	0	0.0%	45	0	0.0%
SOFR	4,029,357	0	0.0%	1,887,479	1	188,747,800.00%	11,592,734	7,000	165,510.5%	4,702,023	1,292	363,833.7%
SOFR MIDCURVE	868,663	0	0.0%	331,395	10	3,313,850.00%	3,503,538	0	0.0%	1,248,751	60	2,081,151.7%
Ultra 10-Year Note	0	0	0.0%	6	46	-86.96%	0	0	0.0%	747	46	1,523.9%
ULTRA T-BOND	0	0	0.0%	1,074	520	106.54%	0	0	0.0%	18,212	4,074	347.0%
<b>Equity Index Futures</b>												
BITCOIN	0	0	0.0%	232,248	149,982	54.85%	0	0	0.0%	1,387,581	1,579,300	-12.1%
DJ US REAL ESTATE	0	0	0.0%	29,322	23,138	26.73%	0	0	0.0%	242,333	217,218	11.6%
E-mini (\$5) Dow	0	0	0.0%	3,315,716	3,238,884	2.37%	0	0	0.0%	30,571,619	25,458,178	20.1%
E-MINI COM SERVICES SELEC	0	0	0.0%	1,589	1,042	52.50%	0	0	0.0%	23,275	19,219	21.1%
E-mini FTSE China 50	0	0	0.0%	177	116	52.59%	0	0	0.0%	6,841	136	4,930.1%
E-MINI MIDCAP	0	0	0.0%	236,287	214,019	10.40%	0	0	0.0%	2,358,229	1,757,740	34.2%
E-MINI NASDAQ 100	0	0	0.0%	12,248,436	10,489,739	16.77%	0	0	0.0%	101,410,831	78,802,029	28.7%

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<b>Equity Index Futures</b>												
E-MINI RUSSELL 1000	0	0	0.0%	1,556	2,470	-37.00%	0	0	0.0%	22,087	28,468	-22.4%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	1,400	1,392	0.57%	0	0	0.0%	33,981	19,619	73.2%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	2,523	3,263	-22.68%	0	0	0.0%	57,763	57,890	-0.2%
E-MINI RUSSELL 2000	0	0	0.0%	3,584,594	3,709,654	-3.37%	0	0	0.0%	34,885,488	28,314,786	23.2%
E-MINI S&P500	0	0	0.0%	33,869,951	28,529,756	18.72%	0	0	0.0%	275,965,459	232,221,696	18.8%
E-MINI S&P500 ESG	0	0	0.0%	10,235	8,799	16.32%	0	0	0.0%	177,910	91,933	93.5%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	1,971	1,643	19.96%	0	0	0.0%	29,140	27,931	4.3%
ETHER FUTURES	0	0	0.0%	157,971	70,265	124.82%	0	0	0.0%	886,787	334,632	165.0%
FT-SE 100	0	0	0.0%	105	12	775.00%	0	0	0.0%	1,244	191	551.3%
FTSE Emerging	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	5	-100.0%
IBOVESPA INDEX	0	0	0.0%	45	87	-48.28%	0	0	0.0%	445	1,248	-64.3%
MICRO BITCOIN	0	0	0.0%	258,348	368,866	-29.96%	0	0	0.0%	2,563,493	1,427,761	79.5%
MICRO E-MINI NASDAQ 100	0	0	0.0%	26,864,939	17,548,126	53.09%	0	0	0.0%	222,415,979	138,366,361	60.7%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	1,933,174	2,807,815	-31.15%	0	0	0.0%	21,551,049	22,074,823	-2.4%
MICRO E-MINI S&P500	0	0	0.0%	25,310,520	14,690,072	72.30%	0	0	0.0%	196,104,435	127,995,713	53.2%
MICRO ETHER	0	-	-	513,186	-	-	0	-	-	3,017,295	-	-
MICRO MINI \$5 DOW	0	0	0.0%	3,031,530	2,370,760	27.87%	0	0	0.0%	29,191,456	18,499,459	57.8%
NASDAQ-100 VOLATILITY	0	0	0.0%	647	7	9,142.86%	0	0	0.0%	18,341	56	32,651.8%
NASDAQ BIOTECH	0	0	0.0%	65	599	-89.15%	0	0	0.0%	1,269	4,347	-70.8%
Nearby BTIC+	0	0	0.0%	600	50	1,100.00%	0	0	0.0%	4,150	356	1,065.7%
NIKKEI 225 (\$) STOCK	0	0	0.0%	72,299	93,655	-22.80%	0	0	0.0%	852,109	872,974	-2.4%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	598,710	597,165	0.26%	0	0	0.0%	5,710,344	4,476,650	27.6%
S&P 500	0	0	0.0%	14	53	-73.58%	0	0	0.0%	1,817	11,751	-84.5%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	28,071	14,901	88.38%	0	0	0.0%	217,536	109,291	99.0%
S&P 500/GI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	4,656	177	2,530.51%	0	0	0.0%	9,861	724	1,262.0%
S&P 600 SMALLCAP EMINI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
S&P CONSUMER DSCRTRY S	0	0	0.0%	5,474	5,654	-3.18%	0	0	0.0%	50,137	70,048	-28.4%
S&P CONSUMER STAPLES SE	0	0	0.0%	8,014	11,400	-29.70%	0	0	0.0%	110,000	118,136	-6.9%
S&P ENERGY SECTOR	0	0	0.0%	38,824	15,448	151.32%	0	0	0.0%	321,184	192,270	67.0%
S&P FINANCIAL SECTOR	0	0	0.0%	10,661	18,068	-41.00%	0	0	0.0%	175,592	238,004	-26.2%
S&P HEALTH CARE SECTOR	0	0	0.0%	8,976	9,353	-4.03%	0	0	0.0%	135,123	99,690	35.5%
S&P INDUSTRIAL SECTOR	0	0	0.0%	7,889	8,528	-7.49%	0	0	0.0%	94,767	76,039	24.6%
S&P MATERIALS SECTOR	0	0	0.0%	5,675	6,115	-7.20%	0	0	0.0%	56,258	61,655	-8.8%

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<b>Equity Index Futures</b>												
S&P TECHNOLOGY SECTOR	0	0	0.0%	9,019	6,055	48.95%	0	0	0.0%	131,329	81,371	61.4%
S&P UTILITIES SECTOR	0	0	0.0%	10,132	8,591	17.94%	0	0	0.0%	118,965	101,401	17.3%
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	0	0.0%	11	59	-81.36%	0	0	0.0%	567	858	-33.9%
YEN DENOMINATED TOPIX	0	0	0.0%	87	2,114	-95.88%	0	0	0.0%	15,638	9,837	59.0%
<b>Equity Index Options</b>												
BITCOIN OPTIONS	0	0	0.0%	1,205	876	37.56%	0	0	0.0%	9,551	8,208	16.4%
E-mini (\$5) Dow	0	0	0.0%	1,739	659	163.88%	0	0	0.0%	16,246	10,145	60.1%
E-MINI NASDAQ 100	0	0	0.0%	873,401	638,607	36.77%	0	0	0.0%	6,968,563	3,768,585	84.9%
E-mini Russell 2000	0	0	0.0%	79,903	124,637	-35.89%	0	0	0.0%	784,897	597,686	31.3%
E-MINI RUSSELL 2000	0	0	0.0%	13,435	18,850	-28.73%	0	0	0.0%	226,643	194,373	16.6%
E-mini S&P 500	0	0	0.0%	8,952,544	7,738,345	15.69%	0	0	0.0%	77,093,057	46,330,748	66.4%
E-MINI S&P500	0	0	0.0%	8,654,843	5,448,176	58.86%	0	0	0.0%	70,577,682	39,755,365	77.5%
EOM S&P 500	0	0	0.0%	0	592	-100.00%	0	0	0.0%	0	2,156	-100.0%
MICRO BITCOIN	0	-	-	14,300	-		0	-	-	39,309	-	-
Micro E-mini Nasdaq-100	0	0	0.0%	29,548	33,444	-11.65%	0	0	0.0%	322,152	177,979	81.0%
MICRO E-MINI NASDAQ 100	0	0	0.0%	5,547	3,731	48.67%	0	0	0.0%	87,472	36,003	143.0%
Micro E-mini S&P 500	0	0	0.0%	176,738	163,542	8.07%	0	0	0.0%	1,667,913	977,733	70.6%
MICRO ETHER	0	-	-	27,582	-		0	-	-	47,619	-	-
S&P 500	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	200	-100.0%

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<b>Metals Futures</b>												
ALUMINUM	0	0	0.0%	53,282	15,311	248.00%	0	0	0.0%	173,726	67,084	159.0%
COBALT METAL FUTURES	0	0	0.0%	2	0	0.00%	0	0	0.0%	13	12	8.3%
COMEX COPPER	0	0	0.0%	1,646,696	1,810,301	-9.04%	0	0	0.0%	11,947,871	16,004,085	-25.3%
COMEX E-Mini GOLD	0	0	0.0%	27,969	23,068	21.25%	0	0	0.0%	215,600	160,761	34.1%
COMEX E-Mini SILVER	0	0	0.0%	3,132	3,938	-20.47%	0	0	0.0%	27,229	48,701	-44.1%
COMEX GOLD	0	0	0.0%	5,247,565	5,512,929	-4.81%	0	0	0.0%	32,786,930	36,528,398	-10.2%
COMEX MINY COPPER	0	0	0.0%	3,019	3,970	-23.95%	0	0	0.0%	25,306	28,506	-11.2%
COMEX SILVER	0	0	0.0%	1,184,290	1,245,296	-4.90%	0	0	0.0%	9,655,036	12,537,507	-23.0%
COPPER	0	0	0.0%	76,805	0	0.00%	0	0	0.0%	207,136	0	0.0%
FERROUS PRODUCTS	0	0	0.0%	79	407	-80.59%	0	0	0.0%	3,080	5,887	-47.7%
GOLD	0	0	0.0%	1,159	9,578	-87.90%	0	0	0.0%	52,566	33,309	57.8%
HOT ROLLED COIL STEEL FUT	0	0	0.0%	403	207	94.69%	0	0	0.0%	4,286	1,091	292.9%
IRON ORE 62 CHINA TSI FUTU	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
IRON ORE CHINA	0	0	0.0%	0	10	-100.00%	0	0	0.0%	0	14	-100.0%
METALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	51	0	0.0%
MICRO GOLD	0	0	0.0%	881,738	1,107,149	-20.36%	0	0	0.0%	7,768,603	8,872,389	-12.4%
NYMEX HOT ROLLED STEEL	0	0	0.0%	3,854	2,924	31.81%	0	0	0.0%	33,140	31,199	6.2%
NYMEX PLATINUM	0	0	0.0%	303,383	289,021	4.97%	0	0	0.0%	2,786,045	2,474,184	12.6%
PALLADIUM	0	0	0.0%	31,966	33,322	-4.07%	0	0	0.0%	309,158	303,407	1.9%
SILVER	0	0	0.0%	122,752	152,383	-19.45%	0	0	0.0%	1,134,190	1,587,699	-28.6%
URANIUM	0	0	0.0%	0	0	0.00%	0	0	0.0%	24	465	-94.8%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2022	Open Outcry JUL 2021	% CHG	ELEC JUL 2022	ELEC JUL 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% 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%	56,020	44,067	27.12%	0	0	0.0%	404,507	292,227	38.4%
COMEX GOLD	0	0	0.0%	709,604	451,202	57.27%	0	0	0.0%	5,345,702	4,172,021	28.1%
COMEX SILVER	0	0	0.0%	82,024	113,666	-27.84%	0	0	0.0%	696,538	1,071,757	-35.0%
COPPER	0	0	0.0%	3,722	18	20,577.78%	0	0	0.0%	8,192	124	6,506.5%
GOLD	0	0	0.0%	209,195	144,584	44.69%	0	0	0.0%	1,461,291	1,125,367	29.9%
HOT ROLLED COIL STEEL CAL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HOT ROLLED COIL STEEL PUT	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
IRON ORE 62 CHINA TSI CALL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
IRON ORE 62 CHINA TSI PUT O	-	0	0.0%	-	0	0.00%	-	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%	242	372	-34.95%	0	0	0.0%	3,802	3,758	1.2%
PALLADIUM	0	0	0.0%	7	40	-82.50%	0	0	0.0%	111	654	-83.0%
SILVER	0	0	0.0%	15,489	12,315	25.77%	0	0	0.0%	123,780	64,841	90.9%
<b>Energy Futures</b>												
3.5% FUEL OIL CID MED SWA	-	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%
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	0.00%	-	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%	1,303,384	1,938,981	-32.78%	0	0	0.0%	10,475,191	14,216,045	-26.3%
CAR VINTAGE	0	0	0.0%	15,332	99	15,386.87%	0	0	0.0%	37,338	340	10,881.8%
CHICAGO ETHANOL SWAP	0	0	0.0%	139	2	6,850.00%	0	0	0.0%	1,052	780	34.9%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Energy Futures</b>												
CIG BASIS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CIN HUB 5MW D AH PK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CIN HUB 5MW REAL TIME O P	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CIN HUB 5MW REAL TIME PK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
COLUMB GULF MAINLINE NG B	-	0	0.0%	-	0	0.00%	-	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%	14	0	0.00%	0	0	0.0%	74	24	208.3%
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%	18,395,482	20,631,097	-10.84%	0	0	0.0%	143,141,550	143,434,094	-0.2%
CRUDE OIL SPRDS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL TRADE AT MARKE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DAILY PJM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DATED BRENT (PLATTS) DAILY	-	0	0.0%	-	0	0.00%	-	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%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DOMINION TRANSMISSION INC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DUBAI CRUDE OIL BALMO	-	0	0.0%	-	0	0.00%	-	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%	21	30,032	-99.93%	0	0	0.0%	10,828	333,172	-96.8%
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%	0	1	-100.0%
ELEC FINSETTLED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELECTRICITY OFF PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EMMISSIONS	0	-	-	3,695	-		0	-		9,527	-	
ETHANOL	0	0	0.0%	0	2	-100.00%	0	0	0.0%	0	262	-100.0%
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 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	0.00%	-	0	0.0%	-	0	0.0%
EURO GASOIL 10PPM VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL NWE CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2022	Open Outcry JUL 2021	% CHG	ELEC JUL 2022	ELEC JUL 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>Energy Futures</b>												
EUROPE 1% FUEL OIL RDAM C	-	0	0.0%	-	0	0.00%	-	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%	280	74	278.38%	0	0	0.0%	2,367	342	592.1%
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	0.00%	-	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%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 RDAM BRGS VS I	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 ROTTERDAM BAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 10PPM VS ICE SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
GASOIL CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL CRACK SPREAD CALE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL MINI CALENDAR SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GERMAN POWER BASELOAD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	48	-100.0%
GROUP THREE UNLEAD GAS (	-	0	0.0%	-	0	0.00%	-	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	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%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Energy Futures</b>												
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%	2,818,153	2,517,669	11.94%	0	0	0.0%	22,880,984	19,936,745	14.8%
HENRY HUB BASIS SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HENRY HUB FINANCIAL LAST	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HENRY HUB INDEX SWAP FUT	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HENRY HUB SWAP	0	0	0.0%	2	0	0.00%	0	0	0.0%	1,242	31	3,906.5%
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%	0	0	0.00%	0	0	0.0%	0	0	0.0%
INDIANA MISO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
INDONESIAN COAL ICI4	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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 CIF NWE VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET FUEL UP-DOWN BALMO C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JKM LNG Futures	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA CARB DIESEL (OPIS) SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA CARBOB GASOLINE(OPIS)S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA JET (OPIS) SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS (ARGUS) CALENDAR SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LOS ANGELES CARB GASOLIN	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
LTD NAT GAS	0	0	0.0%	185,557	233,769	-20.62%	0	0	0.0%	1,741,955	1,502,957	15.9%
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	0.00%	-	0	0.0%	-	0	0.0%
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	692	868	-20.28%	0	0	0.0%	5,617	16,675	-66.3%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	81	-100.0%
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	0.00%	-	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%

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<b>Energy Futures</b>												
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%	11	6	83.33%	0	0	0.0%	57	44	29.5%
MINY NATURAL GAS	0	0	0.0%	314,192	118,892	164.27%	0	0	0.0%	2,242,863	761,503	194.5%
MINY RBOB GAS	0	0	0.0%	7	8	-12.50%	0	0	0.0%	60	63	-4.8%
MINY WTI CRUDE OIL	0	0	0.0%	654,834	482,048	35.84%	0	0	0.0%	4,402,719	2,898,716	51.9%
MJC FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MNC FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU ETHANE 5 DEC	0	0	0.0%	30	70	-57.14%	0	0	0.0%	265	220	20.5%
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%	29	53	-45.28%	0	0	0.0%	167	172	-2.9%
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%	43	0	0.00%	0	0	0.0%	43	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS	0	0	0.0%	31,543	70,603	-55.32%	0	0	0.0%	332,554	314,609	5.7%
NATURAL GAS PEN SWP	0	0	0.0%	0	7	-100.00%	0	0	0.0%	0	106	-100.0%
NATURAL GAS PHY	0	0	0.0%	5,707,518	7,075,061	-19.33%	0	0	0.0%	52,198,481	53,621,672	-2.7%
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	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL NE MASS 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEW ENGLAND HUB PEAK DAI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK ETHANOL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE G PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE J PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NGPL MID-CONTINENT	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NGPL TEX/OK	-	0	0.0%	-	0	0.00%	-	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	0.00%	-	0	0.0%	-	0	0.0%
NORTHWEST ROCKIES BASIS	-	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 HARBOR 1% FUEL OIL BAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	0	5	-100.00%	0	0	0.0%	31	21	47.6%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2022	Open Outcry JUL 2021	% CHG	ELEC JUL 2022	ELEC JUL 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>Energy Futures</b>												
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%
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	0.00%	-	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	0.00%	-	0	0.0%	-	0	0.0%
NYISO ZONE J 5MW D AH PK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYMEX ALUMINUM FUTURES	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYMEX ULSD VS NYMEX HO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NY ULSD (ARGUS) VS HEATIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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	0.00%	-	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%	0	0	0.0%
PETROLEUM PRODUCTS ASIA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT EURO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT NA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM AD HUB 5MW REAL TIME	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM 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	0.00%	-	0	0.0%	-	0	0.0%
PJM DAYTON DA PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM MONTHLY	-	0	0.0%	-	0	0.00%	-	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 PECO ZONE5MW PEAK C	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM PSEG DA OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM PSEG DA PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM WESTH DA OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM WESTHDA PEAK	-	0	0.0%	-	0	0.00%	-	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2022	Open Outcry JUL 2021	% CHG	ELEC JUL 2022	ELEC JUL 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>Energy Futures</b>												
PJM WESTH RT PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PLASTICS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREMIUM UNLD 10P FOB MED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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	-	-
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%	2,850,417	3,405,214	-16.29%	0	0	0.0%	25,106,777	26,282,504	-4.5%
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	0.00%	-	0	0.0%	-	0	0.0%
SINGAPORE 180CST BALMO	-	0	0.0%	-	0	0.00%	-	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	0.00%	-	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	0.00%	-	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%
Sumas Basis Swap	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TC2 ROTTERDAM TO USAC 37	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TC5 RAS TANURA TO YOKOHA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TCO BASIS SWAP	-	0	0.0%	-	0	0.00%	-	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%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Energy Futures</b>												
TRANSCO ZONE4 BASIS SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
UK NBP NAT GAS CAL MTH FU	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2,535	-100.0%
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	0.00%	-	0	0.0%	-	0	0.0%
WTI-BRENT BULLET SWAP	-	0	0.0%	-	0	0.00%	-	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%	4,823	2,655	81.66%	0	0	0.0%	17,155	23,183	-26.0%
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%	1,160	0	0.00%	0	0	0.0%	30,711	42,180	-27.2%
CRUDE OIL APO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL CALNDR STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL PHY	0	0	0.0%	1,685,108	2,302,534	-26.82%	0	0	0.0%	14,946,677	13,148,303	13.7%
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	-	-
HEATING OIL CRK SPD AVG P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL PHY	0	0	0.0%	1,468	2,697	-45.57%	0	0	0.0%	17,496	12,623	38.6%
HENRY HUB FINANCIAL LAST	0	0	0.0%	20	0	0.00%	0	0	0.0%	106	40	165.0%
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	0.00%	-	0	0.0%	-	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2022	Open Outcry JUL 2021	% CHG	ELEC JUL 2022	ELEC JUL 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>Energy Options</b>												
NATURAL GAS	0	-	-	17	-		0	-	-	3,581	-	-
NATURAL GAS 1 M CSO FIN	0	0	0.0%	300	0	0.00%	0	0	0.0%	5,200	4,250	22.4%
NATURAL GAS 2 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 3 M CSO FIN	0	0	0.0%	400	0	0.00%	0	0	0.0%	800	200	300.0%
NATURAL GAS 5 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 6 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS OPT	0	0	0.0%	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%	885,033	1,316,343	-32.77%	0	0	0.0%	7,383,241	8,375,271	-11.8%
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	0.00%	-	0	0.0%	-	0	0.0%
N ROCKIES PIPE SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	211	80	163.75%	0	0	0.0%	950	560	69.6%
PETROCHEMICALS	0	0	0.0%	0	5	-100.00%	0	0	0.0%	11	60	-81.7%
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	-	-
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB PHY	0	0	0.0%	938	2,245	-58.22%	0	0	0.0%	7,516	16,173	-53.5%
SAN JUAN PIPE SWAP	-	0	0.0%	-	0	0.00%	-	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%	3,615	0	0.00%	0	0	0.0%	7,970	7,100	12.3%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	0	0.00%	0	0	0.0%	271	900	-69.9%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	21	12	75.00%	0	0	0.0%	335	146	129.5%
AD/JY CROSS RATES	0	0	0.0%	2,944	2,185	34.74%	0	0	0.0%	35,336	15,098	134.0%
AD/NE CROSS RATES	0	0	0.0%	1,843	299	516.39%	0	0	0.0%	12,520	1,286	873.6%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>FX Futures</b>												
AUSTRALIAN DOLLAR	0	0	0.0%	1,974,111	1,714,171	15.16%	0	0	0.0%	14,246,888	14,666,222	-2.9%
BP/JY CROSS RATES	0	0	0.0%	2,344	2,856	-17.93%	0	0	0.0%	25,369	17,147	48.0%
BP/SF CROSS RATES	0	0	0.0%	644	628	2.55%	0	0	0.0%	12,481	4,239	194.4%
BRAZIL REAL	0	0	0.0%	239,413	285,946	-16.27%	0	0	0.0%	2,001,449	1,650,831	21.2%
BRITISH POUND	0	0	0.0%	2,270,450	2,095,599	8.34%	0	0	0.0%	16,115,825	13,807,127	16.7%
CANADIAN DOLLAR	0	0	0.0%	1,881,790	1,677,630	12.17%	0	0	0.0%	12,529,657	11,555,364	8.4%
CD/JY CROSS RATES	0	0	0.0%	4	550	-99.27%	0	0	0.0%	269	1,111	-75.8%
CHINESE RENMINBI (CNH)	0	0	0.0%	19,787	15,752	25.62%	0	0	0.0%	179,050	114,431	56.5%
CZECK KORUNA (EC)	0	0	0.0%	1	0	0.00%	0	0	0.0%	19	2	850.0%
CZECK KORUNA (US)	0	0	0.0%	0	0	0.00%	0	0	0.0%	18	5	260.0%
EC/AD CROSS RATES	0	0	0.0%	3,075	2,085	47.48%	0	0	0.0%	35,607	31,780	12.0%
EC/CD CROSS RATES	0	0	0.0%	7,080	3,340	111.98%	0	0	0.0%	58,446	46,666	25.2%
EC/NOK CROSS RATES	0	0	0.0%	893	204	337.75%	0	0	0.0%	8,462	3,970	113.1%
EC/SEK CROSS RATES	0	0	0.0%	3,799	158	2,304.43%	0	0	0.0%	14,844	4,273	247.4%
EFX/BP CROSS RATES	0	0	0.0%	68,235	34,001	100.69%	0	0	0.0%	630,417	372,564	69.2%
EFX/JY CROSS RATES	0	0	0.0%	37,738	30,890	22.17%	0	0	0.0%	392,516	261,476	50.1%
EFX/SF CROSS RATES	0	0	0.0%	21,903	15,255	43.58%	0	0	0.0%	291,567	146,683	98.8%
E-MICRO USD/CAD	0	0	0.0%	93	152	-38.82%	0	0	0.0%	1,685	152	1,008.6%
E-MICRO USD/CHF	0	0	0.0%	42	12	250.00%	0	0	0.0%	611	12	4,991.7%
E-MICRO USD/JPY	0	-	-	43,924	-		0	-	-	145,933	-	-
E-MINI EURO FX	0	0	0.0%	170,072	98,475	72.71%	0	0	0.0%	975,945	915,937	6.6%
E-MINI JAPANESE YEN	0	0	0.0%	10,410	8,093	28.63%	0	0	0.0%	65,527	62,814	4.3%
EURO FX	0	0	0.0%	4,778,238	3,518,937	35.79%	0	0	0.0%	32,541,298	28,351,463	14.8%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	2	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	1	3	-66.67%	0	0	0.0%	36	126	-71.4%
INDIAN RUPEE	0	0	0.0%	32,225	12,248	163.10%	0	0	0.0%	152,361	97,831	55.7%
JAPANESE YEN	0	0	0.0%	3,067,665	2,026,412	51.38%	0	0	0.0%	20,449,985	15,104,753	35.4%
KOREAN WON	0	0	0.0%	198	484	-59.09%	0	0	0.0%	2,423	10,568	-77.1%
MEXICAN PESO	0	0	0.0%	1,042,225	919,563	13.34%	0	0	0.0%	7,867,106	7,685,231	2.4%
MICRO AUD/USD	0	0	0.0%	214,442	173,153	23.85%	0	0	0.0%	1,836,182	1,519,514	20.8%
MICRO CAD/USD	0	0	0.0%	56,198	68,287	-17.70%	0	0	0.0%	408,439	377,024	8.3%
MICRO CHF/USD	0	0	0.0%	25,519	6,375	300.30%	0	0	0.0%	114,304	62,823	81.9%
MICRO EUR/USD	0	0	0.0%	922,829	500,309	84.45%	0	0	0.0%	5,141,312	3,537,619	45.3%
MICRO GBP/USD	0	0	0.0%	111,230	86,051	29.26%	0	0	0.0%	675,131	513,049	31.6%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>FX Futures</b>												
MICRO INR/USD	0	0	0.0%	513	1,427	-64.05%	0	0	0.0%	5,397	13,651	-60.5%
MICRO JPY/USD	0	0	0.0%	0	38,550	-100.00%	0	0	0.0%	101,719	228,712	-55.5%
MICRO USD/CNH	0	0	0.0%	0	0	0.00%	0	0	0.0%	2	36	-94.4%
NEW ZEALND DOLLAR	0	0	0.0%	568,138	588,728	-3.50%	0	0	0.0%	4,138,506	4,162,660	-0.6%
NKR/USD CROSS RATE	0	0	0.0%	1,473	4,527	-67.46%	0	0	0.0%	20,755	33,296	-37.7%
POLISH ZLOTY (EC)	0	0	0.0%	13	35	-62.86%	0	0	0.0%	990	936	5.8%
POLISH ZLOTY (US)	0	0	0.0%	1,122	498	125.30%	0	0	0.0%	9,542	6,221	53.4%
RMB USD	0	0	0.0%	5	0	0.00%	0	0	0.0%	15	2	650.0%
RUSSIAN RUBLE	0	0	0.0%	108	83,005	-99.87%	0	0	0.0%	576,666	683,399	-15.6%
S.AFRICAN RAND	0	0	0.0%	92,034	38,625	138.28%	0	0	0.0%	656,432	362,066	81.3%
SF/JY CROSS RATES	0	0	0.0%	732	33	2,118.18%	0	0	0.0%	4,115	177	2,224.9%
SHEKEL	0	0	0.0%	18	0	0.00%	0	0	0.0%	98	15	553.3%
SKR/USD CROSS RATES	0	0	0.0%	3,809	2,915	30.67%	0	0	0.0%	43,162	30,750	40.4%
SWISS FRANC	0	0	0.0%	547,475	472,960	15.76%	0	0	0.0%	3,681,493	3,382,897	8.8%
TURKISH LIRA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	8	-100.0%
USDZAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	31	60	-48.3%
<b>FX Options</b>												
AUD/USD MONDAY OPTION W	0	0	0.0%	29	99	-70.71%	0	0	0.0%	1,698	2,425	-30.0%
AUD/USD MONDAY OPTION W	0	0	0.0%	38	839	-95.47%	0	0	0.0%	3,091	2,629	17.6%
AUD/USD MONDAY OPTION W	0	0	0.0%	8	298	-97.32%	0	0	0.0%	1,994	2,685	-25.7%
AUD/USD MONDAY OPTION W	0	0	0.0%	488	312	56.41%	0	0	0.0%	2,789	3,012	-7.4%
AUD/USD MONDAY OPTION W	0	0	0.0%	0	0	0.00%	0	0	0.0%	779	23	3,287.0%
AUD/USD MONTHLY OPTIONS	0	0	0.0%	64,682	56,178	15.14%	0	0	0.0%	488,576	323,348	51.1%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	33	381	-91.34%	0	0	0.0%	2,979	3,997	-25.5%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	378	917	-58.78%	0	0	0.0%	11,214	10,659	5.2%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,350	2,076	13.20%	0	0	0.0%	15,638	18,089	-13.5%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,153	1,891	-39.03%	0	0	0.0%	10,316	20,763	-50.3%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,952	1,471	32.70%	0	0	0.0%	3,917	4,857	-19.4%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	35	878	-96.01%	0	0	0.0%	5,416	8,226	-34.2%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	284	1,057	-73.13%	0	0	0.0%	3,512	5,392	-34.9%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	111	236	-52.97%	0	0	0.0%	1,987	2,677	-25.8%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>FX Options</b>												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	474	991	-52.17%	0	0	0.0%	4,147	7,330	-43.4%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	259	1,408	-81.6%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	286	477	-40.04%	0	0	0.0%	2,372	2,258	5.0%
CAD/USD MONDAY OPTIONS	0	0	0.0%	194	1,610	-87.95%	0	0	0.0%	1,288	5,961	-78.4%
CAD/USD MONDAY OPTIONS	0	0	0.0%	715	2,678	-73.30%	0	0	0.0%	8,490	9,424	-9.9%
CAD/USD MONDAY OPTIONS	0	0	0.0%	1,198	564	112.41%	0	0	0.0%	6,017	3,038	98.1%
CAD/USD MONDAY OPTIONS	0	0	0.0%	318	3,499	-90.91%	0	0	0.0%	5,303	10,213	-48.1%
CAD/USD MONDAY OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,256	612	105.2%
CAD/USD MONTHLY OPTIONS	0	0	0.0%	55,018	103,682	-46.94%	0	0	0.0%	430,525	426,483	0.9%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	14	889	-98.43%	0	0	0.0%	7,674	14,977	-48.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,703	3,889	-56.21%	0	0	0.0%	24,219	30,573	-20.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	7,347	9,367	-21.57%	0	0	0.0%	39,900	47,106	-15.3%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,207	8,889	-75.17%	0	0	0.0%	31,922	48,388	-34.0%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	5,541	5,593	-0.93%	0	0	0.0%	9,867	15,578	-36.7%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	370	3,218	-88.50%	0	0	0.0%	6,230	9,327	-33.2%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,990	4,096	-51.42%	0	0	0.0%	8,587	12,060	-28.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	887	2,234	-60.30%	0	0	0.0%	10,147	10,816	-6.2%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,191	2,554	-53.37%	0	0	0.0%	13,162	11,363	15.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	4,112	3,241	26.9%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	4,228	3,720	13.66%	0	0	0.0%	33,709	32,798	2.8%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	2	4	-50.00%	0	0	0.0%	575	218	163.8%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	1	227	-99.56%	0	0	0.0%	835	1,775	-53.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	393	186	111.29%	0	0	0.0%	859	1,413	-39.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	47	65	-27.69%	0	0	0.0%	997	2,294	-56.5%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	68	166	-59.04%	0	0	0.0%	82	238	-65.5%
EUR/GBP MONTHLY OPTIONS	0	-	-	0	-		0	-	-	204	-	-
EUR/GBP WKLY FRIDAY OPTIC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUR/USD MONDAY OPTION W	0	0	0.0%	1,184	8,475	-86.03%	0	0	0.0%	11,438	15,049	-24.0%
EUR/USD MONDAY OPTION W	0	0	0.0%	855	699	22.32%	0	0	0.0%	18,364	11,629	57.9%
EUR/USD MONDAY OPTION W	0	0	0.0%	1,634	1,616	1.11%	0	0	0.0%	7,412	8,200	-9.6%
EUR/USD MONDAY OPTION W	0	0	0.0%	1,417	5,007	-71.70%	0	0	0.0%	19,426	17,937	8.3%
EUR/USD MONDAY OPTION W	0	0	0.0%	0	0	0.00%	0	0	0.0%	2,856	1,587	80.0%
EUR/USD MONTHLY OPTIONS	0	0	0.0%	262,664	203,019	29.38%	0	0	0.0%	1,605,650	1,432,913	12.1%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	321	1,584	-79.73%	0	0	0.0%	36,007	30,334	18.7%

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<b>FX Options</b>												
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,298	4,437	-3.13%	0	0	0.0%	104,483	91,358	14.4%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	13,093	20,276	-35.43%	0	0	0.0%	110,682	138,954	-20.3%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	15,353	20,412	-24.78%	0	0	0.0%	132,173	125,597	5.2%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	22,562	24,596	-8.27%	0	0	0.0%	43,204	58,205	-25.8%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	6,755	7,693	-12.19%	0	0	0.0%	41,248	46,610	-11.5%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	7,579	11,823	-35.90%	0	0	0.0%	36,262	52,891	-31.4%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	4,632	6,927	-33.13%	0	0	0.0%	37,845	49,820	-24.0%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	7,215	14,255	-49.39%	0	0	0.0%	41,158	63,661	-35.3%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	13,048	12,636	3.3%
GBP/USD MONDAY OPTION W	0	0	0.0%	1,141	1,887	-39.53%	0	0	0.0%	4,136	3,127	32.3%
GBP/USD MONDAY OPTION W	0	0	0.0%	620	799	-22.40%	0	0	0.0%	7,323	4,382	67.1%
GBP/USD MONDAY OPTION W	0	0	0.0%	82	227	-63.88%	0	0	0.0%	2,082	1,707	22.0%
GBP/USD MONDAY OPTION W	0	0	0.0%	848	1,088	-22.06%	0	0	0.0%	3,881	2,775	39.9%
GBP/USD MONDAY OPTION W	0	0	0.0%	0	0	0.00%	0	0	0.0%	361	400	-9.8%
GBP/USD MONTHLY OPTIONS	0	0	0.0%	75,740	88,791	-14.70%	0	0	0.0%	493,619	523,109	-5.6%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	15	1,408	-98.93%	0	0	0.0%	4,286	8,106	-47.1%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,567	2,867	-45.34%	0	0	0.0%	14,393	16,646	-13.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,615	4,233	-38.22%	0	0	0.0%	19,264	20,825	-7.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	787	5,630	-86.02%	0	0	0.0%	15,447	25,522	-39.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,458	3,793	-61.56%	0	0	0.0%	5,566	7,912	-29.7%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,389	1,250	11.12%	0	0	0.0%	9,206	8,737	5.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	483	1,083	-55.40%	0	0	0.0%	3,510	5,162	-32.0%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	244	653	-62.63%	0	0	0.0%	7,213	4,788	50.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,881	894	110.40%	0	0	0.0%	6,371	7,514	-15.2%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	481	1,901	-74.7%
JPY/USD MONDAY OPTION WE	0	0	0.0%	767	710	8.03%	0	0	0.0%	2,897	3,096	-6.4%
JPY/USD MONDAY OPTION WE	0	0	0.0%	238	805	-70.43%	0	0	0.0%	6,030	2,914	106.9%
JPY/USD MONDAY OPTION WE	0	0	0.0%	352	776	-54.64%	0	0	0.0%	2,000	2,602	-23.1%
JPY/USD MONDAY OPTION WE	0	0	0.0%	1,005	269	273.61%	0	0	0.0%	7,141	1,293	452.3%
JPY/USD MONDAY OPTION WE	0	0	0.0%	0	0	0.00%	0	0	0.0%	51	313	-83.7%
JPY/USD MONTHLY OPTIONS	0	0	0.0%	95,115	93,792	1.41%	0	0	0.0%	967,830	550,631	75.8%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	16	1,019	-98.43%	0	0	0.0%	23,956	20,917	14.5%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	2,669	1,287	107.38%	0	0	0.0%	57,013	35,846	59.0%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	10,954	13,305	-17.67%	0	0	0.0%	80,717	67,260	20.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2022	Open Outcry JUL 2021	% CHG	ELEC JUL 2022	ELEC JUL 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>FX Options</b>												
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	12,294	9,076	35.46%	0	0	0.0%	74,776	57,830	29.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	12,191	8,447	44.32%	0	0	0.0%	27,899	25,004	11.6%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,094	3,004	36.28%	0	0	0.0%	23,573	17,300	36.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,191	6,684	-37.30%	0	0	0.0%	20,913	23,856	-12.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,766	6,640	-43.28%	0	0	0.0%	18,654	22,361	-16.6%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	7,037	3,319	112.02%	0	0	0.0%	28,729	19,539	47.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	7,555	5,541	36.3%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	89	636	-86.01%	0	0	0.0%	4,425	6,958	-36.4%
MXN/USD WKLY FRIDAY OPTI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	17	604	-97.2%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	552	-100.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	331	-100.0%
MXN/USD WKLY FRIDAY OPTI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NZD/USD MONTHLY OPTIONS	0	0	0.0%	3	494	-99.39%	0	0	0.0%	506	1,287	-60.7%
NZD/USD WKLY FRIDAY OPTIO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NZD/USD WKLY FRIDAY OPTIO	0	-	-	0	-		0	-	-	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	0	0.00%	0	0	0.0%	0	68	-100.0%
<b>Ags Futures</b>												
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	5	4	25.0%
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	-	-	0	-		0	-	-	24	-	-
<b>Foreign Exchange Options</b>												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	47	516	-90.89%	0	0	0.0%	2,945	4,034	-27.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2022	Open Outcry JUL 2021	% CHG	ELEC JUL 2022	ELEC JUL 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>Ag Products Futures</b>												
BLOCK CHEESE	0	0	0.0%	390	803	-51.43%	0	0	0.0%	1,908	4,803	-60.3%
BUTTER CS	0	0	0.0%	3,920	3,407	15.06%	0	0	0.0%	30,390	28,413	7.0%
CASH-SETTLED CHEESE	0	0	0.0%	10,256	11,765	-12.83%	0	0	0.0%	67,491	81,866	-17.6%
CAT ASIA WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CATTLE	0	0	0.0%	1,143,406	1,200,957	-4.79%	0	0	0.0%	8,609,110	8,320,446	3.5%
CAT WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHI WHEAT	0	0	0.0%	1,786,428	2,262,045	-21.03%	0	0	0.0%	15,871,607	18,697,552	-15.1%
CLASS IV MILK	0	0	0.0%	3,122	787	296.70%	0	0	0.0%	17,449	5,633	209.8%
COFFEE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2	-100.0%
CORN	0	0	0.0%	5,799,842	5,373,284	7.94%	0	0	0.0%	47,702,112	54,943,560	-13.2%
COTTON	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
DJ_UBS ROLL SELECT INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	22	-100.0%
DOW-UBS COMMOD INDEX	0	0	0.0%	32,241	44,268	-27.17%	0	0	0.0%	336,402	368,297	-8.7%
DOW-UBS COMMOD INDEX SW	0	-	-	0	-		0	-	-	0	-	-
DRY WHEY	0	0	0.0%	820	1,346	-39.08%	0	0	0.0%	6,997	16,078	-56.5%
FEEDER CATTLE	0	0	0.0%	296,538	260,875	13.67%	0	0	0.0%	1,859,806	1,684,574	10.4%
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	2,349	4,741	-50.45%	0	0	0.0%	20,816	72,879	-71.4%
GSCI EXCESS RETURN FUT	0	0	0.0%	30	0	0.00%	0	0	0.0%	52	101	-48.5%
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	-	-
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%	970,407	1,017,114	-4.59%	0	0	0.0%	6,814,903	7,047,089	-3.3%
HOUSING INDEX	0	0	0.0%	7	4	75.00%	0	0	0.0%	118	76	55.3%
Intercommodity Spread	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
KC WHEAT	0	0	0.0%	740,018	947,961	-21.94%	0	0	0.0%	6,471,819	7,627,666	-15.2%
LUMBER	0	0	0.0%	6,270	10,789	-41.89%	0	0	0.0%	54,530	75,166	-27.5%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	0	0	0.0%	27,986	24,560	13.95%	0	0	0.0%	204,368	164,269	24.4%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2022	Open Outcry JUL 2021	% CHG	ELEC JUL 2022	ELEC JUL 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>Ag Products Futures</b>												
MINI CORN	0	0	0.0%	48,794	53,188	-8.26%	0	0	0.0%	424,175	516,402	-17.9%
MINI SOYBEAN	0	0	0.0%	57,009	43,942	29.74%	0	0	0.0%	430,162	451,446	-4.7%
MINI WHEAT	0	0	0.0%	22,435	23,231	-3.43%	0	0	0.0%	191,700	149,777	28.0%
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%	5,012	4,455	12.50%	0	0	0.0%	42,445	38,637	9.9%
OATS	0	0	0.0%	5,083	11,307	-55.05%	0	0	0.0%	60,791	73,135	-16.9%
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%	1,761	1,484	18.67%	0	0	0.0%	17,216	20,813	-17.3%
ROUGH RICE	0	0	0.0%	10,009	8,912	12.31%	0	0	0.0%	122,374	107,709	13.6%
SOYBEAN	0	0	0.0%	3,283,177	3,171,718	3.51%	0	0	0.0%	28,706,371	31,555,585	-9.0%
SOYBEAN MEAL	0	0	0.0%	2,110,982	1,748,334	20.74%	0	0	0.0%	14,949,268	14,600,524	2.4%
SOYBEAN OIL	0	0	0.0%	2,301,255	2,232,228	3.09%	0	0	0.0%	15,774,698	19,489,865	-19.1%
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	0.00%	-	0	0.0%	-	0	0.0%
USD CRUDE PALM OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WHEAT	0	0	0.0%	0	3,245	-100.00%	0	0	0.0%	6,012	22,161	-72.9%
<b>Ag Products Options</b>												
AUG-NOV SOYBEAN CAL SPR	0	0	0.0%	212	0	0.00%	0	0	0.0%	212	0	0.0%
BLOCK CHEESE	0	0	0.0%	86	240	-64.17%	0	0	0.0%	2,457	2,310	6.4%
BUTTER CS	0	0	0.0%	1,243	761	63.34%	0	0	0.0%	9,184	15,200	-39.6%
CASH-SETTLED CHEESE	0	0	0.0%	4,960	4,691	5.73%	0	0	0.0%	44,663	52,707	-15.3%
CATTLE	0	0	0.0%	164,974	149,711	10.19%	0	0	0.0%	1,473,141	1,304,342	12.9%
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	0	0.0%
CHI WHEAT	0	0	0.0%	634,928	450,454	40.95%	0	0	0.0%	4,305,663	3,224,494	33.5%
CLASS IV MILK	0	0	0.0%	6,211	4,040	53.74%	0	0	0.0%	44,677	22,626	97.5%
CORN	0	0	0.0%	3,277,639	2,320,559	41.24%	0	0	0.0%	20,148,839	22,007,505	-8.4%
CORN NEARBY+2 CAL SPRD	0	0	0.0%	14,652	18,260	-19.76%	0	0	0.0%	169,828	100,815	68.5%
DEC-DEC CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	1,337	-100.0%
DEC-JULY CORN CAL SPRD	0	0	0.0%	725	2,300	-68.48%	0	0	0.0%	7,832	2,400	226.3%
DEC-JULY WHEAT CAL SPRD	-	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 JUL 2022	Open Outcry JUL 2021	% CHG	ELEC JUL 2022	ELEC JUL 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>Ag Products Options</b>												
DRY WHEY	0	0	0.0%	392	167	134.73%	0	0	0.0%	2,545	1,585	60.6%
FEEDER CATTLE	0	0	0.0%	37,123	18,130	104.76%	0	0	0.0%	243,205	149,504	62.7%
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%	212,690	213,252	-0.26%	0	0	0.0%	1,580,586	1,426,001	10.8%
HOUSING INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	271	-100.0%
JAN-MAR SOYBEAN CSO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JULY-DEC CORN CAL SPRD	0	0	0.0%	6,675	0	0.00%	0	0	0.0%	62,695	28,555	119.6%
JULY-DEC SOYMEAL CAL SPR	0	-	-	0	-		0	-	-	845	-	-
JULY-DEC SOY OIL CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JULY-DEC WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	3,200	100	3,100.0%
JULY-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	2	0	0.0%
JULY-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	41,528	2,422	1,614.6%
KC WHEAT	0	0	0.0%	64,741	66,338	-2.41%	0	0	0.0%	547,683	389,366	40.7%
LUMBER	0	0	0.0%	291	585	-50.26%	0	0	0.0%	3,154	5,750	-45.1%
LV CATL CSO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
MAR-DEC CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MAR-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	9,575	0	0.0%
MAR-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	150	0	0.0%
MILK	0	0	0.0%	33,800	19,618	72.29%	0	0	0.0%	144,935	177,446	-18.3%
MLK MID OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	45	11	309.1%
NFD MILK	0	0	0.0%	3,028	2,990	1.27%	0	0	0.0%	25,029	27,409	-8.7%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	600	0	0.0%
NOV-MAR SOYBEAN CSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NOV-NOV SOYBEAN CAL SPR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
OATS	0	0	0.0%	142	943	-84.94%	0	0	0.0%	1,595	1,977	-19.3%
PORK CUTOUT	0	0	0.0%	0	1	-100.00%	0	0	0.0%	35	738	-95.3%
ROUGH RICE	0	0	0.0%	1,777	340	422.65%	0	0	0.0%	10,654	3,943	170.2%
SOYBEAN	0	0	0.0%	1,586,009	1,241,875	27.71%	0	0	0.0%	11,680,610	12,123,023	-3.6%
SOYBEAN CRUSH	0	0	0.0%	0	60	-100.00%	0	0	0.0%	151	1,071	-85.9%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2022	Open Outcry JUL 2021	% CHG	ELEC JUL 2022	ELEC JUL 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>Ag Products Options</b>												
SOYBEAN MEAL	0	0	0.0%	218,285	163,182	33.77%	0	0	0.0%	1,647,118	1,613,591	2.1%
SOYBEAN OIL	0	0	0.0%	293,746	209,323	40.33%	0	0	0.0%	1,726,970	2,198,293	-21.4%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	10	7,020	-99.86%	0	0	0.0%	19,573	17,121	14.3%
SOYMEAL NEARBY+2 CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,100	0	0.0%
WHEAT	0	0	0.0%	6	599	-99.00%	0	0	0.0%	821	5,922	-86.1%
WHEAT-CORN ICSCO	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,720	831	107.0%
WHEAT NEARBY+2 CAL SPRD	0	0	0.0%	845	1,758	-51.93%	0	0	0.0%	30,474	3,560	756.0%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	742,571	458,766	61.9%	138,425,725	121,603,074	13.8%	5,942,074	2,923,737	103.2%	1,240,175,871	1,010,359,879	22.7%
Equity Index Futures	0	0	0.0%	112,415,647	85,027,892	32.2%	0	0	0.0%	930,929,707	683,821,794	36.1%
Metals Futures	0	0	0.0%	9,588,094	10,209,814	-6.1%	0	0	0.0%	67,129,990	78,684,698	-14.7%
Energy Futures	0	0	0.0%	32,281,375	36,504,560	-11.6%	0	0	0.0%	262,591,742	263,323,762	-0.3%
FX Futures	0	0	0.0%	18,226,826	14,531,418	25.4%	0	0	0.0%	126,208,278	109,844,223	14.9%
Ags Futures	0	0	0.0%	0	0	0.0%	0	0	0.0%	5	4	25.0%
Foreign Exchange Futures	0	-	-	0	-	-	0	-	-	24	-	-
Ag Products Futures	0	0	0.0%	18,669,547	18,466,750	1.1%	0	0	0.0%	148,795,090	166,164,546	-10.5%
<b>TOTAL FUTURES</b>	<b>742,571</b>	<b>458,766</b>	<b>61.9%</b>	<b>329,607,214</b>	<b>286,343,508</b>	<b>15.1%</b>	<b>5,942,074</b>	<b>2,923,737</b>	<b>103.2%</b>	<b>2,775,830,707</b>	<b>2,312,198,906</b>	<b>20.1%</b>
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	0	0	0.0%	18,830,785	14,171,459	32.9%	0	0	0.0%	157,841,104	91,859,181	71.8%
Interest Rate Options	10,807,196	13,594,494	-20.5%	25,032,157	23,073,229	8.5%	114,418,861	93,196,161	22.8%	197,557,211	183,204,482	7.8%
Metals Options	0	0	0.0%	1,076,303	766,264	40.5%	0	0	0.0%	8,043,923	6,730,749	19.5%
Energy Options	0	0	0.0%	2,583,093	3,626,559	-28.8%	0	0	0.0%	22,421,685	21,630,843	3.7%
FX Options	0	0	0.0%	748,946	820,916	-8.8%	0	0	0.0%	5,419,721	4,783,771	13.3%
Ag Products Options	0	0	0.0%	6,565,190	4,897,197	34.1%	0	0	0.0%	43,993,094	44,912,226	-2.0%
Foreign Exchange Options	0	0	0.0%	47	516	-90.9%	0	0	0.0%	2,945	4,034	-27.0%
<b>TOTAL OPTIONS</b>	<b>10,807,196</b>	<b>13,594,494</b>	<b>-20.5%</b>	<b>54,836,521</b>	<b>47,356,140</b>	<b>15.8%</b>	<b>114,418,861</b>	<b>93,196,161</b>	<b>22.8%</b>	<b>435,279,683</b>	<b>353,125,286</b>	<b>23.3%</b>

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2022	Open Outcry JUL 2021	% CHG	ELEC JUL 2022	ELEC JUL 2021	% CHG	Open Outcry Y.T.D 2022	Open Outcry Y.T.D 2021	% CHG	ELEC Y.T.D 2022	ELEC Y.T.D 2021	% CHG
<b>TOTAL COMBINED</b>												
Interest Rate	11,549,767	14,053,260	-17.8%	163,457,882	144,676,303	13.0%	120,360,935	96,119,898	25.2%	1,437,733,082	1,193,564,361	20.5%
Equity Index	0	0	0.0%	131,246,432	99,199,351	32.3%	0	0	0.0%	1,088,770,811	775,680,975	40.4%
Metals	0	0	0.0%	10,664,397	10,976,078	-2.8%	0	0	0.0%	75,173,913	85,415,447	-12.0%
Energy	0	0	0.0%	34,864,468	40,131,119	-13.1%	0	0	0.0%	285,013,427	284,954,605	0.0%
FX	0	0	0.0%	18,975,772	15,352,334	23.6%	0	0	0.0%	131,627,999	114,627,994	14.8%
Ags	0	0	0.0%	0	0	0.0%	0	0	0.0%	5	4	25.0%
Foreign Exchange	0	0	0.0%	47	516	-90.9%	0	0	0.0%	2,969	4,034	-26.4%
Ag Products	0	0	0.0%	25,234,737	23,363,947	8.0%	0	0	0.0%	192,788,184	211,076,772	-8.7%
<b>GRAND TOTAL</b>	<b>11,549,767</b>	<b>14,053,260</b>	<b>-17.8%</b>	<b>384,443,735</b>	<b>333,699,648</b>	<b>15.2%</b>	<b>120,360,935</b>	<b>96,119,898</b>	<b>25.2%</b>	<b>3,211,110,390</b>	<b>2,665,324,192</b>	<b>20.5%</b>

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