

## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2020	Open Outcry OCT 2019	% CHG	ELEC OCT 2020	ELEC OCT 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>Interest Rate Futures</b>												
10-YR NOTE	0	188,401	-100.0%	27,264,876	31,085,393	-12.29%	469,469	1,460,450	-67.9%	331,544,864	364,781,703	-9.1%
10-YR SWAP RATE	0	0	0.0%	32,128	39,030	-17.68%	0	0	0.0%	451,424	412,857	9.3%
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%	0	0	0.00%	0	0	0.0%	826	404	104.5%
20-YR SWAP RATE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	46	-100.0%
2-YR NOTE	0	8,382	-100.0%	4,175,126	11,309,083	-63.08%	261	32,919	-99.2%	101,757,166	135,201,133	-24.7%
2-YR SWAP RATE	0	0	0.0%	8,128	24,530	-66.87%	0	0	0.0%	89,125	443,075	-79.9%
30-YR BOND	0	21,958	-100.0%	7,460,492	6,532,472	14.21%	55,491	201,286	-72.4%	75,066,001	71,938,943	4.3%
30-YR SWAP RATE	0	0	0.0%	0	547	-100.00%	0	0	0.0%	822	6,386	-87.1%
3-YR NOTE	0	-	-	91,503	-		0	-	-	377,800	-	-
3-YR SWAP RATE	0	0	0.0%	790	7,712	-89.76%	0	0	0.0%	23,919	157,784	-84.8%
4-YR SWAP RATE	0	0	0.0%	1,116	2,347	-52.45%	0	0	0.0%	13,722	90,256	-84.8%
5-YR NOTE	0	47,912	-100.0%	12,911,721	17,697,003	-27.04%	87,402	455,535	-80.8%	193,492,174	230,883,450	-16.2%
5-YR SWAP RATE	0	0	0.0%	27,118	86,227	-68.55%	0	0	0.0%	503,606	745,057	-32.4%
7-YR SWAP RATE	0	0	0.0%	1,884	3,736	-49.57%	0	0	0.0%	16,478	37,591	-56.2%
EURODOLLARS	115,114	481,909	-76.1%	26,285,260	52,017,579	-49.47%	2,945,882	7,602,314	-61.3%	429,575,295	596,739,295	-28.0%
FED FUND	0	0	0.0%	1,223,939	8,127,583	-84.94%	0	0	0.0%	48,584,987	79,476,108	-38.9%
SOFR	0	0	0.0%	1,197,844	958,146	25.02%	0	0	0.0%	9,216,145	6,951,056	32.6%
SONIA	0	0	0.0%	197,486	188,719	4.65%	0	0	0.0%	1,673,444	1,806,989	-7.4%
Ultra 10-Year Note	0	0	0.0%	4,279,896	3,785,606	13.06%	0	0	0.0%	50,178,932	46,188,416	8.6%
ULTRA T-BOND	0	0	0.0%	3,219,021	2,526,798	27.40%	0	66	-100.0%	39,416,591	36,490,932	8.0%

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<b>Interest Rate Options</b>												
10-YR NOTE	0	3,219,957	-100.0%	9,955,520	13,195,139	-24.55%	8,489,760	25,010,148	-66.1%	98,244,641	113,683,033	-13.6%
2-YR NOTE	0	147,813	-100.0%	31,602	506,993	-93.77%	273,359	1,512,781	-81.9%	1,748,389	3,617,380	-51.7%
30-YR BOND	0	275,415	-100.0%	3,119,265	3,019,419	3.31%	891,042	3,211,991	-72.3%	24,240,247	27,011,009	-10.3%
5-YR NOTE	0	940,720	-100.0%	952,444	4,280,951	-77.75%	2,424,616	9,373,012	-74.1%	25,297,546	37,419,703	-32.4%
EURODOLLARS	1,469,240	11,417,928	-87.1%	1,785,074	9,228,559	-80.66%	52,761,627	139,706,316	-62.2%	102,713,415	83,572,511	22.9%
EURO MIDCURVE	3,935,859	4,914,743	-19.9%	2,435,631	3,576,011	-31.89%	20,289,433	66,812,810	-69.6%	46,306,613	53,813,989	-14.0%
FED FUND	0	4,425	-100.0%	0	8,237	-100.00%	3,100	56,510	-94.5%	7,821	20,448	-61.8%
SOFR	0	-	-	100	-	-	10	-	-	1,112	-	-
Ultra 10-Year Note	0	12	-100.0%	0	0	0.00%	13,035	21,811	-40.2%	2,965	5,328	-44.4%
ULTRA T-BOND	0	18,993	-100.0%	358	1,110	-67.75%	10,870	201,474	-94.6%	3,029	15,110	-80.0%
<b>Equity Index Futures</b>												
BITCOIN FUTURES	0	0	0.0%	161,389	93,413	72.77%	0	0	0.0%	1,741,794	1,388,748	25.4%
DJ US REAL ESTATE	0	0	0.0%	23,309	24,293	-4.05%	0	0	0.0%	353,440	252,321	40.1%
E-mini (\$5) Dow	0	0	0.0%	4,650,583	3,918,512	18.68%	0	0	0.0%	52,189,842	44,017,817	18.6%
E-MINI COM SERVICES SELEC	0	0	0.0%	1,280	756	69.31%	0	0	0.0%	23,783	25,486	-6.7%
E-mini FTSE 100 (USD)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	336	-100.0%
E-mini FTSE China 50	0	0	0.0%	0	0	0.00%	0	0	0.0%	2	711	-99.7%
E-MINI MIDCAP	0	0	0.0%	281,358	267,955	5.00%	0	0	0.0%	3,678,150	3,328,237	10.5%
E-MINI NASDAQ 100	0	0	0.0%	13,129,062	9,455,055	38.86%	0	0	0.0%	125,673,899	99,803,061	25.9%
E-MINI RUSSELL 1000	0	0	0.0%	725	2,646	-72.60%	0	0	0.0%	34,851	34,272	1.7%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	911	1,593	-42.81%	0	0	0.0%	29,176	34,168	-14.6%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	3,870	3,513	10.16%	0	0	0.0%	59,197	71,670	-17.4%
E-MINI RUSSELL 2000	0	0	0.0%	3,765,221	2,677,268	40.64%	0	0	0.0%	42,997,863	30,583,547	40.6%
E-MINI S&P500	0	0	0.0%	35,899,372	30,842,923	16.39%	0	0	0.0%	434,593,901	335,110,440	29.7%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	1,114	9,787	-88.62%	0	0	0.0%	49,844	36,931	35.0%
FT-SE 100	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	372	-100.0%
FTSE Emerging	0	0	0.0%	198	2,112	-90.63%	0	0	0.0%	4,743	21,400	-77.8%
IBOVESPA INDEX	0	0	0.0%	244	994	-75.45%	0	0	0.0%	4,338	6,936	-37.5%
MICRO E-MINI NASDAQ 100	0	0	0.0%	19,375,555	4,776,826	305.62%	0	0	0.0%	142,157,515	25,468,538	458.2%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	1,707,159	765,506	123.01%	0	0	0.0%	19,970,622	3,966,739	403.5%

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<b>Equity Index Futures</b>												
MICRO E-MINI S&P500	0	0	0.0%	21,853,883	6,462,781	238.15%	0	0	0.0%	189,941,154	35,256,476	438.7%
MICRO MINI \$5 DOW	0	0	0.0%	2,310,379	1,201,652	92.27%	0	0	0.0%	26,942,128	6,475,576	316.1%
NASDAQ BIOTECH	0	0	0.0%	167	371	-54.99%	0	0	0.0%	4,945	3,547	39.4%
Nearby BTIC+	0	0	0.0%	0	24	-100.00%	0	0	0.0%	200	24	733.3%
NIFTY 50	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	105,202	197,004	-46.60%	0	0	0.0%	1,972,530	2,232,978	-11.7%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	642,385	878,117	-26.85%	0	228	-100.0%	9,780,884	8,281,168	18.1%
S&P 500	0	5,474	-100.0%	1,220	1,745	-30.09%	33,712	221,012	-84.7%	20,502	16,310	25.7%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	15,726	9,700	62.12%	0	0	0.0%	228,376	94,501	141.7%
S&P 500/GI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	60	-100.0%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	251	621	-59.58%	0	0	0.0%	8,555	1,822	369.5%
S&P 600 SMALLCAP EMINI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	17	-100.0%
S&P CONSUMER DSCRTNRY S	0	0	0.0%	8,108	4,528	79.06%	0	0	0.0%	71,680	67,848	5.6%
S&P CONSUMER STAPLES SE	0	0	0.0%	9,077	5,650	60.65%	0	0	0.0%	120,228	104,645	14.9%
S&P ENERGY SECTOR	0	0	0.0%	19,973	7,937	151.64%	0	0	0.0%	185,320	114,754	61.5%
S&P FINANCIAL SECTOR	0	0	0.0%	15,868	12,000	32.23%	0	0	0.0%	175,947	180,893	-2.7%
S&P HEALTH CARE SECTOR	0	0	0.0%	9,957	9,841	1.18%	0	0	0.0%	126,518	111,002	14.0%
S&P INDUSTRIAL SECTOR	0	0	0.0%	8,341	6,607	26.24%	0	0	0.0%	89,640	80,686	11.1%
S&P MATERIALS SECTOR	0	0	0.0%	5,546	4,342	27.73%	0	0	0.0%	51,047	56,731	-10.0%
S&P TECHNOLOGY SECTOR	0	0	0.0%	10,929	8,353	30.84%	0	0	0.0%	109,066	98,199	11.1%
S&P UTILITIES SECTOR	0	0	0.0%	10,632	7,752	37.15%	0	0	0.0%	141,194	158,674	-11.0%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	72	-100.0%
YEN DENOMINATED TOPIX	0	0	0.0%	5,838	21,982	-73.44%	0	0	0.0%	70,405	191,751	-63.3%

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<b>Equity Index Options</b>												
BITCOIN FUTURES	0	-	-	3,527	-		0	-	-	14,415	-	-
E-mini (\$5) Dow	0	0	0.0%	1,152	2,910	-60.41%	0	0	0.0%	29,865	42,376	-29.5%
E-MINI NASDAQ 100	0	0	0.0%	335,644	204,997	63.73%	0	0	0.0%	3,456,499	2,099,246	64.7%
E-MINI RUSSELL 2000	0	0	0.0%	15,295	21,801	-29.84%	0	0	0.0%	176,020	154,424	14.0%
E-MINI S&P500	0	0	0.0%	5,728,915	6,028,328	-4.97%	250	600	-58.3%	73,494,700	55,070,793	33.5%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	12,182	6,445	89.01%	0	0	0.0%	89,206	87,620	1.8%
EOM EMINI S&P	0	0	0.0%	2,243,491	1,886,967	18.89%	0	0	0.0%	20,635,485	19,577,865	5.4%
EOM S&P 500	0	75,688	-100.0%	2,749	0	0.00%	303,360	1,167,165	-74.0%	4,389	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	2,285	3,215	-28.93%	0	0	0.0%	44,457	35,191	26.3%
EOW1 EMINI S&P 500	0	0	0.0%	956,541	1,259,786	-24.07%	0	0	0.0%	10,599,502	10,175,178	4.2%
EOW1 S&P 500	0	104,205	-100.0%	21,384	0	0.00%	157,788	738,544	-78.6%	42,879	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	30,428	4,232	619.00%	0	0	0.0%	66,729	50,996	30.9%
EOW2 EMINI S&P 500	0	0	0.0%	1,066,905	1,247,329	-14.46%	0	0	0.0%	10,926,745	10,282,507	6.3%
EOW2 S&P 500	0	157,123	-100.0%	30,416	0	0.00%	252,530	1,294,691	-80.5%	47,304	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	15,624	34,711	-54.99%	0	0	0.0%	175,138	152,099	15.1%
EOW3 EMINI S&P 500	0	0	0.0%	2,724,091	3,337,079	-18.37%	0	0	0.0%	24,395,377	24,264,379	0.5%
EOW3 S&P 500	0	170,528	-100.0%	52,141	0	0.00%	266,271	1,282,142	-79.2%	70,743	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	4,957	2,895	71.23%	0	0	0.0%	36,492	32,966	10.7%
EOW4 EMINI S&P 500	0	0	0.0%	946,976	818,169	15.74%	0	0	0.0%	9,165,307	8,624,634	6.3%
EOW4 S&P 500	0	-	-	23,312	-		0	-	-	62,128	-	-
MICRO E-MINI NASDAQ 100	0	-	-	660	-		0	-	-	3,423	-	-
MICRO E-MINI S&P500	0	-	-	12,060	-		0	-	-	45,575	-	-
S&P 500	0	170,227	-100.0%	400	0	0.00%	677,812	2,310,947	-70.7%	7,913	0	0.0%

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<b>Metals Futures</b>												
ALUMINUM	0	0	0.0%	3,522	4,264	-17.40%	0	0	0.0%	43,715	16,036	172.6%
COMEX COPPER	0	0	0.0%	1,825,458	1,662,813	9.78%	0	0	0.0%	20,403,077	20,069,917	1.7%
COMEX E-Mini GOLD	0	0	0.0%	15,519	26,356	-41.12%	0	0	0.0%	336,116	202,992	65.6%
COMEX E-Mini SILVER	0	0	0.0%	5,973	3,663	63.06%	0	0	0.0%	94,629	45,047	110.1%
COMEX GOLD	0	0	0.0%	4,558,896	7,792,966	-41.50%	0	0	0.0%	66,025,522	69,964,825	-5.6%
COMEX MINY COPPER	0	0	0.0%	2,354	544	332.72%	0	0	0.0%	9,765	6,632	47.2%
COMEX SILVER	0	0	0.0%	1,627,371	1,773,607	-8.25%	0	0	0.0%	21,892,141	19,816,496	10.5%
COPPER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FERROUS PRODUCTS	0	0	0.0%	905	208	335.10%	0	0	0.0%	10,549	4,581	130.3%
GOLD	0	0	0.0%	5,068	15,670	-67.66%	0	0	0.0%	72,900	15,670	365.2%
Gold Kilo	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HOT ROLLED COIL STEEL FUT	0	-	-	50	-		0	-	-	52	-	-
IRON ORE 62 CHINA PLATTS F	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI FUTU	0	0	0.0%	0	0	0.00%	0	0	0.0%	209	28	646.4%
IRON ORE CHINA	0	-	-	0	-		0	-	-	0	-	-
LNDN ZINC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	1,230	-100.0%
METALS	0	-	-	0	-		0	-	-	0	-	-
MICRO GOLD	0	0	0.0%	1,700,455	812,994	109.16%	0	0	0.0%	18,594,952	4,502,875	313.0%
NYMEX HOT ROLLED STEEL	0	0	0.0%	3,301	2,492	32.46%	0	0	0.0%	44,585	31,929	39.6%
NYMEX PLATINUM	0	0	0.0%	265,586	397,266	-33.15%	0	0	0.0%	3,681,340	4,708,498	-21.8%
PALLADIUM	0	0	0.0%	32,943	87,449	-62.33%	0	0	0.0%	564,147	1,018,233	-44.6%
SILVER	0	0	0.0%	245,731	40,222	510.94%	0	0	0.0%	1,908,709	272,128	601.4%
URANIUM	0	0	0.0%	1	0	0.00%	0	0	0.0%	55	412	-86.7%

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<b>Metals Options</b>												
ALUMINUM	0	-	-	0	-		0	-	-	0	-	-
COMEX COPPER	0	0	0.0%	15,418	46,304	-66.70%	0	0	0.0%	245,196	434,432	-43.6%
COMEX GOLD	0	0	0.0%	640,085	851,594	-24.84%	0	0	0.0%	8,969,028	10,177,655	-11.9%
COMEX SILVER	0	0	0.0%	123,795	158,753	-22.02%	0	0	0.0%	1,752,871	1,688,188	3.8%
COPPER	0	0	0.0%	2	527	-99.62%	0	0	0.0%	2,675	2,372	12.8%
GOLD	0	0	0.0%	122,455	160,068	-23.50%	0	0	0.0%	1,400,522	1,280,158	9.4%
HOT ROLLED COIL STEEL CAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOT ROLLED COIL STEEL PUT	0	-	-	0	-		0	-	-	0	-	-
IRON ORE 62 CHINA TSI CALL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI PUT O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IRON ORE CHINA	0	-	-	0	-		0	-	-	0	-	-
NYMEX HOT ROLLED STEEL	0	-	-	0	-		0	-	-	0	-	-
NYMEX PLATINUM	0	0	0.0%	443	1,169	-62.10%	0	0	0.0%	5,409	14,345	-62.3%
PALLADIUM	0	0	0.0%	2	783	-99.74%	0	0	0.0%	1,406	6,026	-76.7%
SILVER	0	0	0.0%	6,251	9,617	-35.00%	0	0	0.0%	89,334	60,998	46.5%
<b>Energy Futures</b>												
3.5% FUEL OIL CID MED SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
3.5% FUEL OIL CIF BALMO S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB MTHLY	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
AEP-DAYTON HUB OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ALGONQUIN CITYGATES BASI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ANR OKLAHOMA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ARGUS LLS VS. WTI (ARG) T	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ARGUS PROPAN FAR EST IND	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ARGUS PROPAN(SAUDI ARAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
AUSTRIALIAN COKE COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT BALMO SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT CFD SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2020	Open Outcry OCT 2019	% CHG	ELEC OCT 2020	ELEC OCT 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>Energy Futures</b>												
BRENT FINANCIAL FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	1,633,430	2,260,402	-27.74%	0	0	0.0%	22,277,926	21,620,249	3.0%
CANADIAN LIGHT SWEET OIL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CENTERPOINT BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHICAGO ETHANOL SWAP	0	0	0.0%	77	0	0.00%	0	0	0.0%	266	509	-47.7%
CHICAGO ULSD PL VS HO SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHICAGO UNL GAS PL VS RBO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIG BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CINERGY HUB OFF-PEAK MON	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CINERGY HUB PEAK MONTH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIN HUB 5MW D AH O PK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CIN HUB 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIN HUB 5MW REAL TIME O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIN HUB 5MW REAL TIME PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COAL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COLUMB GULF MAINLINE NG B	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CONWAY NATURAL GASOLINE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CONWAY NORMAL BUTANE (O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CONWAY PROPANE 5 DECIMA	0	0	0.0%	0	0	0.00%	0	0	0.0%	60	144	-58.3%
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	-	-
CRUDE OIL OUTRIGHTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	50	-100.0%
CRUDE OIL PHY	0	0	0.0%	16,713,553	22,781,368	-26.63%	0	0	0.0%	235,836,805	248,273,975	-5.0%
CRUDE OIL SPRDS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL TRADE AT MARKE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DAILY PJM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DATED BRENT (PLATTS) DAILY	0	-	-	0	-		0	-	-	0	-	-
DATED TO FRONTLINE BRENT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DIESEL 10P BRG FOB RDM VS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
DOMINION TRAN INC - APP I	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DOMINION TRANSMISSION INC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DUBAI CRUDE OIL BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DUBAI CRUDE OIL CALENDAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DUTCH TTF NATURAL GAS CA	0	0	0.0%	33,774	21,292	58.62%	0	0	0.0%	290,717	101,634	186.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2020	Open Outcry OCT 2019	% CHG	ELEC OCT 2020	ELEC OCT 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>Energy Futures</b>												
EASTERN RAIL DELIVERY CSX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EAST/WEST FUEL OIL SPREAD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EIA FLAT TAX ONHWAY DIESE	0	0	0.0%	0	0	0.00%	0	0	0.0%	6	0	0.0%
ELEC ERCOT DLY OFF PK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ELEC ERCOT DLY PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ELEC ERCOT OFF PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ELEC FINSETTLED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC MISO PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC NYISO OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELECTRICITY OFF PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ERCOT HOUSTON Z MCPE 5M	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ERCOT NORTH ZMCPE 5MW O	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ERCOT NORTH ZMCPE 5MW O	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ERCOT NORTH ZMCPE 5MW P	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ETHANOL	0	0	0.0%	172	4,460	-96.14%	0	0	0.0%	12,455	73,067	-83.0%
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	0	0.00%	0	0	0.0%	0	0	0.0%
EURO 3.5% FUEL OIL RDAM B	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO 3.5% FUEL OIL SPREAD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO-DENOMINATED PETRO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EURO GASOIL 10PPM VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL NWE CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL RDAM C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 3.5% FUEL OIL MED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 3.5% FUEL OIL RDAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPEAN GASOIL (ICE)	0	0	0.0%	0	140	-100.00%	0	0	0.0%	286	1,144	-75.0%
EUROPEAN NAPHTHA BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPEAN NAPHTHA CRACK S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE DATED BRENT SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE JET KERO NWE CALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE NAPHTHA CALSWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO PROPANE CIF ARA SW	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FREIGHT MARKETS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2020	Open Outcry OCT 2019	% CHG	ELEC OCT 2020	ELEC OCT 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>Energy Futures</b>												
FUEL OIL CRACK VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL NWE CRACK VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL (PLATS) CAR CM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL (PLATS) CAR CN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUELOIL SWAP:CARGOES VS.	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GAS EURO-BOB OXY NWE BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GAS EURO-BOB OXY NWE BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1CIF MED VS ICE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
GASOIL 0.1 CIF NWE VS ISE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 RDAM BRGS VS I	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 ROTTERDAM BAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 10PPM VS ICE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL CRACK SPREAD CALE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL MINI CALENDAR SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GERMAN POWER BASELOAD	0	0	0.0%	0	1,440	-100.00%	0	0	0.0%	8,776	23,142	-62.1%
GROUP THREE ULSD (PLATTS)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GROUP THREE UNLEAD GAS (	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GRP THREE ULSD(PLT)VS HEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GRP THREE UNL GS (PLT) VS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST 3% FUEL OIL BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST JET FUEL CLNDR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST JET VS NYM 2 H	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST NO.6 FUEL OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2	-100.0%
GULF COAST ULSD CALENDAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST ULSD CRACK SP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL BALMO CLNDR S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL CRCK SPRD BAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL PHY	0	0	0.0%	3,488,201	4,695,641	-25.71%	0	0	0.0%	35,627,177	33,226,763	7.2%
HENRY HUB BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HENRY HUB INDEX SWAP FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HENRY HUB SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	670	122	449.2%
HOUSTON SHIP CHANNEL BAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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<b>Energy Futures</b>												
HTG OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ICE BRENT DUBAI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IN DELIVERY MONTH EUA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
INDIANA MISO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
INDONESIAN COAL ICI4	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ISO NEW ENGLAND OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ISO NEW ENGLAND PK LMP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JAPAN C&F NAPHTHA CRACK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JAPAN C&F NAPHTHA SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JAPAN NAPHTHA BALMO SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET AV FUEL (P) CAR FM ICE G	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET CIF NWE VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET FUEL CRG CIF NEW VS I	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET FUEL UP-DOWN BALMO C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JKM LNG Futures	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA CARB DIESEL (OPIS) SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA CARBOB GASOLINE(OPIS)S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA JET (OPIS) SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS (ARGUS) CALENDAR SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LOS ANGELES CARB GASOLIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LTD NAT GAS	0	0	0.0%	269,111	148,434	81.30%	0	0	0.0%	1,804,153	1,553,974	16.1%
MARS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MARS (ARGUS) VS WTI TRD M	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	480	-100.0%
MARS BLEND CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	1,547	748	106.82%	0	0	0.0%	8,083	5,745	40.7%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	15	0	0.00%	0	0	0.0%	30	0	0.0%
MGF FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MGN1 SWAP FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MICHIGAN BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MICHIGAN MISO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MINI GAS EUROBOB OXY NWE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MINI RBOB V. EBOBARG NWE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MINI RBOB V. EBOB(ARGUS) N	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2020	Open Outcry OCT 2019	% CHG	ELEC OCT 2020	ELEC OCT 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>Energy Futures</b>												
MINY HTG OIL	0	0	0.0%	8	3	166.67%	0	0	0.0%	52	32	62.5%
MINY NATURAL GAS	0	0	0.0%	207,566	56,835	265.21%	0	0	0.0%	1,262,855	327,432	285.7%
MINY RBOB GAS	0	0	0.0%	10	3	233.33%	0	0	0.0%	70	63	11.1%
MINY WTI CRUDE OIL	0	0	0.0%	306,991	457,072	-32.84%	0	0	0.0%	6,255,238	4,802,490	30.2%
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%	10	0	0.00%	0	0	0.0%	25	0	0.0%
MONT BELVIEU ETHANE OPIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU LDH PROPANE	0	0	0.0%	6	0	0.00%	0	0	0.0%	160	112	42.9%
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%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NAT GAS BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS	0	0	0.0%	64,786	35,749	81.22%	0	0	0.0%	499,571	391,438	27.6%
NATURAL GAS PEN SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS PHY	0	0	0.0%	9,117,136	10,665,091	-14.51%	0	0	0.0%	100,960,457	81,489,571	23.9%
NEPOOL CNCTCT 5MW D AH O	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL CONECTIC 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL INTR HUB 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL NE MASS 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL NE MASS 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL RHD ISLD 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL RHODE IL 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL W CNT MASS 5MW D	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL W CNTR M 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEW ENGLAND HUB PEAK DAI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK ETHANOL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE G PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE J PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NGPL MID-CONTINENT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NGPL TEX/OK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
N ILLINOIS HUB DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2020	Open Outcry OCT 2019	% CHG	ELEC OCT 2020	ELEC OCT 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>Energy Futures</b>												
N ILLINOIS HUB MTHLY	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NO 2 UP-DOWN SPREAD CALE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHEN NATURAL GAS DEM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHEN NATURAL GAS VEN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHWEST ROCKIES BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
N ROCKIES PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY1% VS GC SPREAD SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY 3.0% FUEL OIL (PLATTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR 1% FUEL OIL BAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	38	19	100.0%
NY HARBOR LOW SULPUR GA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR RESIDUAL FUEL 1	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR RESIDUAL FUEL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYH NO 2 CRACK SPREAD CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO CAPACITY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO J	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO J OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO ZONE A 5MW D AH O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE A 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE G 5MW D AH O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE G 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX ALUMINUM FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX ULSD VS NYMEX HO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY ULSD (ARGUS) VS HEATIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ONEOK OKLAHOMA NG BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ONTARIO POWER SWAPS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PANHANDLE BASIS SWAP FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PANHANDLE PIPE SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PERMIAN BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETROCHEMICALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS ASIA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS NA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2020	Open Outcry OCT 2019	% CHG	ELEC OCT 2020	ELEC OCT 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>Energy Futures</b>												
PETRO CRK&SPRD EURO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS ASIA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT EURO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT NA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM AD HUB 5MW REAL TIME	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM ATSI ELEC	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM BGE DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM BGE DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM COMED 5MW D AH O PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM COMED 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM DAYTON DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM DAYTON DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM MONTHLY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM NI HUB 5MW REAL TIME	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM NILL DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM NILL DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM OFF-PEAK LMP SWAP FU	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PECO ZONE5MW PEAK C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PSEG DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM PSEG DA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTH DA OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTHDA PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTH RT OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WESTH RT PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PLASTICS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREMIUM UNLD 10P FOB MED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREMIUM UNLEAD 10PPM FOB	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREM UNL GAS 10PPM RDAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PREM UNL GAS 10PPM RDAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PROPANE NON-LDH MB (OPIS)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PROPANE NON-LDH MT. BEL (	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2020	Open Outcry OCT 2019	% CHG	ELEC OCT 2020	ELEC OCT 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>Energy Futures</b>												
RBOB CRACK SPREAD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CRACK SPREAD BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB GASOLINE BALMO CLNC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB PHY	0	0	0.0%	3,483,619	3,650,096	-4.56%	0	0	0.0%	37,957,537	40,369,350	-6.0%
RBOB SPREAD (PLATTS) SWA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
RBOB VS HEATING OIL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SAN JUAN BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SAN JUAN PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE 180CST BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE 380CST BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE 380CST FUEL OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL 180CST CAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL OIL SPREA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL CALEDA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO GASOI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KEROSENE S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO VS. GA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE NAPHTHA SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SING FUEL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SOUTH STAR TEX OKLHM KNS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Sumas Basis Swap	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TC2 ROTTERDAM TO USAC 37	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TC5 RAS TANURA TO YOKOHA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TCO BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TD3 MEG TO JAPAN 250K MT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TENNESSEE ZONE 0 BASIS S	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Tetco STX Basis	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Energy Futures</b>												
TEXAS EASTERN ZONE M-3 BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TEXAS GAS ZONE1 NG BASIS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Transco Zone 3 Basis	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TRANSCO ZONE4 BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 6 BASIS SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
UCM FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
UK NBP NAT GAS CAL MTH FU	0	0	0.0%	30	365	-91.78%	0	0	0.0%	2,124	6,044	-64.9%
ULSD 10PPM CIF MED VS ICE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ULSD UP-DOWN BALMO SWP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
UP DOWN GC ULSD VS NMX H	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WAHA BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WESTERN RAIL DELIVERY PR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI-BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI CALENDAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI MIDLAND CRUDE OIL	0	-	-	0	-		0	-	-	0	-	-
WTS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTS (ARGUS) VS WTI TRD MT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
<b>Energy Options</b>												
BRENT 1 MONTH CAL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT CRUDE OIL 12 M CSO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRENT CRUDE OIL 1 M CSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	1,800	-100.0%
BRENT CRUDE OIL 6 M CSO	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	14,287	58,860	-75.73%	0	0	0.0%	141,550	626,116	-77.4%
COAL API2 INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COAL API4 INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
COAL SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL 1MO	0	0	0.0%	1,050	7,926	-86.75%	0	0	0.0%	67,121	87,887	-23.6%
CRUDE OIL APO	0	0	0.0%	0	0	0.00%	0	0	0.0%	3	3	0.0%

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<b>Energy Options</b>												
CRUDE OIL CALNDR STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL OUTRIGHTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL PHY	0	0	0.0%	2,062,873	2,173,159	-5.07%	0	0	0.0%	21,762,415	23,982,760	-9.3%
ELEC FINSETTLED	0	-	-	0	-	-	0	-	-	0	-	-
ETHANOL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ETHANOL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FREIGHT MARKETS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL PHY	0	0	0.0%	3,044	4,630	-34.25%	0	0	0.0%	32,100	44,696	-28.2%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	48	-100.00%	0	0	0.0%	20	94	-78.7%
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%	0	8,951	-100.00%	0	0	0.0%	3,151	28,473	-88.9%
NATURAL GAS 2 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 3 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	4,827	0	0.0%
NATURAL GAS 5 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 6 M CSO FIN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS OPT	0	-	-	0	-	-	0	-	-	0	-	-
NATURAL GAS OPTION ON CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS PHY	0	0	0.0%	1,237,503	1,446,969	-14.48%	0	0	0.0%	13,616,222	9,968,300	36.6%
NATURAL GAS SUMMER STRIP	0	-	-	0	-	-	0	-	-	0	-	-
NATURAL GAS WINTER STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
N ROCKIES PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NY HARBOR HEAT OIL SWP	0	0	0.0%	31	24	29.17%	0	0	0.0%	707	420	68.3%
NYISO ZONE G 5MW PEAK OP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PANHANDLE PIPE SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PETROCHEMICALS	0	0	0.0%	0	3	-100.00%	0	0	0.0%	11	24	-54.2%
PETRO OUTRIGHT EURO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO OUTRIGHT NA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WES HUB PEAK CAL MTH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM WES HUB PEAK LMP 50M	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB 1MO CAL SPD OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>Energy Options</b>												
RBOB CRACK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB PHY	0	0	0.0%	3,221	2,061	56.28%	0	0	0.0%	27,017	34,991	-22.8%
ROTTERDAM 3.5%FUEL OIL CL	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SAN JUAN PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SHORT TERM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	43	-100.0%
SHORT TERM NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	84	-100.0%
SINGAPORE GASOIL CALEND	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SINGAPORE JET FUEL CALEN	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	2,400	6,000	-60.00%	0	0	0.0%	17,102	37,705	-54.6%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,200	8,600	-86.0%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	0	9	-100.00%	0	0	0.0%	80	142	-43.7%
AD/JY CROSS RATES	0	0	0.0%	1,698	2,074	-18.13%	0	0	0.0%	25,356	26,683	-5.0%
AD/NE CROSS RATES	0	0	0.0%	135	182	-25.82%	0	0	0.0%	2,740	1,466	86.9%
AUSTRALIAN DOLLAR	0	0	0.0%	1,927,726	2,068,502	-6.81%	0	0	0.0%	21,551,549	21,066,387	2.3%
BP/JY CROSS RATES	0	0	0.0%	2,066	3,115	-33.68%	0	0	0.0%	31,800	31,564	0.7%
BP/SF CROSS RATES	0	0	0.0%	126	349	-63.90%	0	0	0.0%	4,028	4,063	-0.9%
BRAZIL REAL	0	0	0.0%	152,018	170,987	-11.09%	0	0	0.0%	1,888,787	1,314,879	43.6%
BRITISH POUND	0	0	0.0%	2,404,566	3,393,507	-29.14%	0	3	-100.0%	22,632,613	25,450,147	-11.1%
CANADIAN DOLLAR	0	0	0.0%	1,523,737	1,877,364	-18.84%	0	3	-100.0%	16,149,823	16,654,120	-3.0%
CD/JY CROSS RATES	0	0	0.0%	23	4	475.00%	0	0	0.0%	398	131	203.8%
CHINESE RENMINBI (CNH)	0	0	0.0%	29,901	28,190	6.07%	0	0	0.0%	203,415	282,996	-28.1%
CZECK KORUNA (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	26	30	-13.3%
CZECK KORUNA (US)	0	0	0.0%	0	0	0.00%	0	0	0.0%	1	0	0.0%
EC/AD CROSS RATES	0	0	0.0%	3,208	3,288	-2.43%	0	0	0.0%	59,925	45,940	30.4%
EC/CD CROSS RATES	0	0	0.0%	1,917	1,862	2.95%	0	0	0.0%	44,257	31,962	38.5%
EC/NOK CROSS RATES	0	0	0.0%	8	801	-99.00%	0	0	0.0%	1,765	5,223	-66.2%
EC/SEK CROSS RATES	0	0	0.0%	136	305	-55.41%	0	0	0.0%	5,862	6,610	-11.3%
EFX/BP CROSS RATES	0	0	0.0%	29,342	118,190	-75.17%	0	0	0.0%	658,311	966,871	-31.9%
EFX/JY CROSS RATES	0	0	0.0%	21,491	66,602	-67.73%	0	0	0.0%	568,674	685,055	-17.0%

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<b>FX Futures</b>												
EFX/SF CROSS RATES	0	0	0.0%	13,630	27,910	-51.16%	0	0	0.0%	351,967	348,491	1.0%
E-MINI EURO FX	0	0	0.0%	125,174	73,328	70.70%	0	0	0.0%	1,556,514	954,581	63.1%
E-MINI JAPANESE YEN	0	0	0.0%	6,438	21,976	-70.70%	0	0	0.0%	209,280	173,402	20.7%
EURO FX	0	0	0.0%	3,712,885	3,888,649	-4.52%	36	60	-40.0%	45,939,032	43,505,929	5.6%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	9	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	3	3	0.00%	0	0	0.0%	103	12	758.3%
INDIAN RUPEE	0	0	0.0%	20,347	35,772	-43.12%	0	0	0.0%	258,622	688,435	-62.4%
JAPANESE YEN	0	0	0.0%	1,757,928	2,559,512	-31.32%	0	2	-100.0%	24,218,082	27,132,323	-10.7%
KOREAN WON	0	0	0.0%	906	310	192.26%	0	0	0.0%	5,934	3,041	95.1%
MEXICAN PESO	0	0	0.0%	1,150,497	1,156,228	-0.50%	0	0	0.0%	11,981,569	12,629,664	-5.1%
MICRO AUD/USD	0	0	0.0%	200,786	90,026	123.03%	0	0	0.0%	2,450,672	1,051,265	133.1%
MICRO CAD/USD	0	0	0.0%	27,307	17,886	52.67%	0	0	0.0%	290,438	172,232	68.6%
MICRO CHF/USD	0	0	0.0%	5,679	5,053	12.39%	0	0	0.0%	41,343	30,913	33.7%
MICRO EUR/USD	0	0	0.0%	459,026	187,914	144.27%	0	0	0.0%	4,911,000	2,347,180	109.2%
MICRO GBP/USD	0	0	0.0%	93,773	131,981	-28.95%	0	0	0.0%	693,488	528,900	31.1%
MICRO INR/USD	0	0	0.0%	1,917	4,361	-56.04%	0	0	0.0%	21,958	49,363	-55.5%
MICRO JPY/USD	0	0	0.0%	22,236	24,546	-9.41%	0	0	0.0%	291,586	286,883	1.6%
NEW ZEALND DOLLAR	0	0	0.0%	460,041	511,141	-10.00%	0	0	0.0%	6,193,089	5,737,829	7.9%
NKR/USD CROSS RATE	0	0	0.0%	1,346	4,026	-66.57%	0	0	0.0%	44,815	47,438	-5.5%
POLISH ZLOTY (EC)	0	0	0.0%	10	12	-16.67%	0	0	0.0%	586	452	29.6%
POLISH ZLOTY (US)	0	0	0.0%	771	165	367.27%	0	0	0.0%	8,288	1,105	650.0%
RMB USD	0	0	0.0%	0	1	-100.00%	0	0	0.0%	4	8	-50.0%
RUSSIAN RUBLE	0	0	0.0%	80,406	47,792	68.24%	0	0	0.0%	1,117,405	723,793	54.4%
S.AFRICAN RAND	0	0	0.0%	50,492	69,478	-27.33%	0	0	0.0%	780,761	524,170	49.0%
SF/JY CROSS RATES	0	0	0.0%	4	14	-71.43%	0	0	0.0%	234	25	836.0%
SHEKEL	0	0	0.0%	8	13	-38.46%	0	0	0.0%	113	13	769.2%
SKR/USD CROSS RATES	0	0	0.0%	4,141	2,688	54.06%	0	0	0.0%	39,979	27,181	47.1%
SWISS FRANC	0	0	0.0%	405,836	644,835	-37.06%	0	0	0.0%	5,819,665	5,781,239	0.7%
TURKISH LIRA	0	0	0.0%	0	2	-100.00%	0	0	0.0%	88	70	25.7%
USDZAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	20	-100.0%

### FX Options

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<b>FX Options</b>												
AUD/USD MONDAY OPTION W	0	-	-	139	-		0	-	-	3,526	-	-
AUD/USD MONDAY OPTION W	0	-	-	11	-		0	-	-	1,683	-	-
AUD/USD MONDAY OPTION W	0	-	-	214	-		0	-	-	2,540	-	-
AUD/USD MONDAY OPTION W	0	-	-	627	-		0	-	-	2,341	-	-
AUD/USD MONDAY OPTION W	0	-	-	0	-		0	-	-	722	-	-
AUD/USD MONTHLY OPTIONS	0	0	0.0%	47,481	89,994	-47.24%	0	0	0.0%	724,411	703,497	3.0%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	185	6,746	-97.26%	0	0	0.0%	5,583	21,362	-73.9%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	683	5,220	-86.92%	0	0	0.0%	38,596	58,639	-34.2%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,677	9,481	-82.31%	0	0	0.0%	35,736	65,496	-45.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,145	6,603	-67.51%	0	0	0.0%	39,676	67,024	-40.8%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,083	505	708.51%	0	0	0.0%	17,321	16,540	4.7%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,447	1,338	8.15%	0	0	0.0%	12,991	16,912	-23.2%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	461	1,102	-58.17%	0	0	0.0%	12,886	17,241	-25.3%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	588	1,026	-42.69%	0	0	0.0%	7,990	8,138	-1.8%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,456	1,478	-1.49%	0	0	0.0%	13,540	13,265	2.1%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	0	1,363	-100.00%	0	0	0.0%	5,691	5,187	9.7%
BRITISH POUND (EU)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	2	332	-99.40%	0	0	0.0%	677	728	-7.0%
CAD/USD MONDAY OPTIONS	0	-	-	710	-		0	-	-	3,155	-	-
CAD/USD MONDAY OPTIONS	0	-	-	389	-		0	-	-	1,953	-	-
CAD/USD MONDAY OPTIONS	0	-	-	2,600	-		0	-	-	8,209	-	-
CAD/USD MONDAY OPTIONS	0	-	-	630	-		0	-	-	5,272	-	-
CAD/USD MONDAY OPTIONS	0	-	-	0	-		0	-	-	3,085	-	-
CAD/USD MONTHLY OPTIONS	0	160	-100.0%	31,531	56,791	-44.48%	430	1,069	-59.8%	473,035	523,486	-9.6%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	956	8,559	-88.83%	0	0	0.0%	12,433	35,572	-65.0%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,169	3,921	-70.19%	0	0	0.0%	64,413	65,338	-1.4%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	7,089	10,314	-31.27%	0	0	0.0%	64,045	94,067	-31.9%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,297	10,298	-19.43%	0	0	0.0%	71,552	98,983	-27.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,928	799	516.77%	0	0	0.0%	30,313	24,364	24.4%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,244	3,650	-38.52%	0	0	0.0%	22,621	29,126	-22.3%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	1,636	2,783	-41.21%	0	0	0.0%	17,587	32,731	-46.3%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,118	2,337	-9.37%	0	0	0.0%	18,781	30,018	-37.4%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	3,189	2,745	16.17%	0	0	0.0%	24,468	26,674	-8.3%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	0	3,331	-100.00%	0	0	0.0%	8,199	10,464	-21.6%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>FX Options</b>												
CANADIAN DOLLAR (EU)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	5,966	4,819	23.80%	0	0	0.0%	35,965	25,251	42.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	19	-100.00%	0	0	0.0%	139	186	-25.3%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	253	301	-15.95%	0	0	0.0%	1,758	2,357	-25.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	13	117	-88.89%	0	0	0.0%	1,042	1,765	-41.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	13	484	-97.31%	0	0	0.0%	1,445	1,477	-2.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	918	0	0.00%	0	0	0.0%	1,824	613	197.6%
EUR/GBP MONTHLY OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	74	-100.0%
EUR/JPY MONTHLY OPTIONS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EURO FX (EU)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EUR/USD MONDAY OPTION W	0	-	-	5,119	-		0	-	-	17,361	-	-
EUR/USD MONDAY OPTION W	0	-	-	1,752	-		0	-	-	13,471	-	-
EUR/USD MONDAY OPTION W	0	-	-	381	-		0	-	-	19,355	-	-
EUR/USD MONDAY OPTION W	0	-	-	1,412	-		0	-	-	20,748	-	-
EUR/USD MONDAY OPTION W	0	-	-	0	-		0	-	-	7,186	-	-
EUR/USD MONTHLY OPTIONS	0	233	-100.0%	185,282	265,389	-30.18%	1,550	9,237	-83.2%	2,764,139	3,613,680	-23.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,622	23,039	-92.96%	0	0	0.0%	29,159	109,129	-73.3%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,956	14,090	-79.02%	62	0	0.0%	183,125	261,522	-30.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	14,080	27,726	-49.22%	0	0	0.0%	206,476	302,360	-31.7%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	18,673	22,416	-16.70%	0	0	0.0%	219,974	345,579	-36.3%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	15,772	1,342	1,075.26%	0	0	0.0%	78,886	81,591	-3.3%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	13,242	7,050	87.83%	0	0	0.0%	99,862	127,685	-21.8%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	4,937	7,480	-34.00%	0	0	0.0%	79,633	125,123	-36.4%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	7,210	11,223	-35.76%	0	0	0.0%	80,627	127,155	-36.6%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	8,469	17,744	-52.27%	0	0	0.0%	77,513	140,691	-44.9%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	0	9,230	-100.00%	0	0	0.0%	34,150	39,185	-12.8%
GBP/USD MONDAY OPTION W	0	-	-	1,435	-		0	-	-	6,598	-	-
GBP/USD MONDAY OPTION W	0	-	-	533	-		0	-	-	3,708	-	-
GBP/USD MONDAY OPTION W	0	-	-	1,498	-		0	-	-	5,911	-	-
GBP/USD MONDAY OPTION W	0	-	-	2,617	-		0	-	-	9,202	-	-
GBP/USD MONDAY OPTION W	0	-	-	0	-		0	-	-	1,435	-	-
GBP/USD MONTHLY OPTIONS	0	34	-100.0%	91,893	164,342	-44.08%	64	906	-92.9%	863,026	1,251,876	-31.1%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,429	6,048	-76.37%	0	0	0.0%	9,487	29,980	-68.4%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,971	6,991	-71.81%	0	16	-100.0%	35,140	63,023	-44.2%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>FX Options</b>												
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	5,570	28,044	-80.14%	0	0	0.0%	39,995	91,295	-56.2%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	4,069	25,437	-84.00%	0	0	0.0%	33,741	85,614	-60.6%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,442	437	687.64%	0	0	0.0%	16,262	25,750	-36.8%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	2,108	1,762	19.64%	0	0	0.0%	16,663	22,287	-25.2%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	537	1,994	-73.07%	0	0	0.0%	9,174	23,963	-61.7%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	358	2,189	-83.65%	0	0	0.0%	15,471	25,843	-40.1%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	828	2,502	-66.91%	0	0	0.0%	12,510	23,375	-46.5%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	0	1,238	-100.00%	0	0	0.0%	7,180	8,595	-16.5%
JAPANESE YEN (EU)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JPY/USD MONDAY OPTION WE	0	-	-	1,295	-	-	0	-	-	8,895	-	-
JPY/USD MONDAY OPTION WE	0	-	-	584	-	-	0	-	-	11,164	-	-
JPY/USD MONDAY OPTION WE	0	-	-	204	-	-	0	-	-	7,586	-	-
JPY/USD MONDAY OPTION WE	0	-	-	3,135	-	-	0	-	-	7,081	-	-
JPY/USD MONDAY OPTION WE	0	-	-	0	-	-	0	-	-	2,653	-	-
JPY/USD MONTHLY OPTIONS	0	14	-100.0%	79,900	131,352	-39.17%	727	207	251.2%	1,182,793	1,402,789	-15.7%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	302	11,250	-97.32%	0	0	0.0%	17,142	55,753	-69.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	913	5,721	-84.04%	0	0	0.0%	105,042	95,865	9.6%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	7,880	13,403	-41.21%	0	0	0.0%	121,802	145,050	-16.0%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	10,598	8,781	20.69%	0	0	0.0%	116,398	137,504	-15.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	9,471	1,858	409.74%	0	0	0.0%	48,042	48,140	-0.2%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	5,260	3,964	32.69%	0	0	0.0%	51,481	46,030	11.8%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	1,572	4,869	-67.71%	0	0	0.0%	38,451	42,956	-10.5%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,897	6,832	-57.60%	0	0	0.0%	46,091	43,285	6.5%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,312	3,808	-39.29%	0	0	0.0%	48,313	42,964	12.4%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	0	2,914	-100.00%	0	0	0.0%	12,418	10,637	16.7%
MXN/USD MONTHLY OPTIONS	0	70	-100.0%	988	1,307	-24.41%	1,840	970	89.7%	15,193	13,592	11.8%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	1,200	-100.00%	0	0	0.0%	4,413	1,200	267.8%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	99	-100.00%	0	0	0.0%	1,748	528	231.1%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	276	0	0.00%	0	0	0.0%	2,174	1,103	97.1%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	326	0	0.00%	0	0	0.0%	2,676	329	713.4%
MXN/USD WKLY FRIDAY OPTI	0	-	-	0	-	-	0	-	-	152	-	-
NZD/USD MONTHLY OPTIONS	0	0	0.0%	177	1,474	-87.99%	0	0	0.0%	4,831	6,449	-25.1%
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%	0	0	0.00%	0	0	0.0%	50	120	-58.3%

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<b>FX Options</b>												
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	100	-100.00%	0	0	0.0%	0	306	-100.0%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	150	-100.00%	0	0	0.0%	375	150	150.0%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	100	-100.00%	0	0	0.0%	0	100	-100.0%
RUB/USD MONTHLY OPTIONS	0	-	-	98	-		0	-	-	191	-	-
<b>Ags Futures</b>												
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	90	0	0.0%
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
<b>Foreign Exchange Options</b>												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	317	1,697	-81.32%	0	0	0.0%	7,210	8,760	-17.7%
<b>Ag Products Futures</b>												
BUTTER CS	0	0	0.0%	4,599	6,461	-28.82%	0	0	0.0%	54,857	42,707	28.4%
CASH-SETTLED CHEESE	0	0	0.0%	14,609	9,306	56.98%	0	0	0.0%	132,851	108,518	22.4%
CAT ASIA WEATHER	0	-	-	0	-		0	-	-	0	-	-
CATTLE	0	614	-100.0%	1,225,680	1,151,809	6.41%	2,592	11,562	-77.6%	13,987,511	14,226,650	-1.7%
CAT WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	50	25	100.0%
CHI WHEAT	0	5,445	-100.0%	2,729,120	1,934,351	41.09%	12,092	66,577	-81.8%	27,923,023	25,797,196	8.2%
CLASS IV MILK	0	0	0.0%	394	1,549	-74.56%	65	158	-58.9%	21,751	23,072	-5.7%

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<b>Ag Products Futures</b>												
COCOA TAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	8	-100.0%
COFFEE	0	-	-	0	-		0	-	-	2	-	-
CORN	0	18,691	-100.0%	7,971,365	5,869,078	35.82%	18,145	235,927	-92.3%	73,189,244	88,314,113	-17.1%
COTTON	0	0	0.0%	27	2	1,250.00%	0	0	0.0%	57	38	50.0%
DJ_UBS ROLL SELECT INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DOW-UBS COMMOD INDEX	0	0	0.0%	11,951	23,359	-48.84%	0	0	0.0%	293,905	460,362	-36.2%
DRY WHEY	0	0	0.0%	1,569	1,394	12.55%	0	0	0.0%	14,057	12,325	14.1%
FEEDER CATTLE	0	0	0.0%	296,802	281,320	5.50%	54	178	-69.7%	2,767,106	3,128,470	-11.6%
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	12,108	27,686	-56.27%	0	0	0.0%	149,934	282,700	-47.0%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	85	334	-74.6%
HDD EURO SEASONAL STRIP	0	-	-	0	-		0	-	-	0	-	-
HDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	25	0	0.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOGS	0	634	-100.0%	869,084	1,237,677	-29.78%	1,940	15,769	-87.7%	10,838,155	13,461,962	-19.5%
HOUSING INDEX	0	0	0.0%	2	19	-89.47%	0	0	0.0%	262	128	104.7%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
KC WHEAT	0	492	-100.0%	1,070,569	1,106,528	-3.25%	1,534	8,818	-82.6%	11,584,911	12,595,817	-8.0%
LUMBER	0	0	0.0%	9,071	14,402	-37.02%	0	0	0.0%	133,557	137,666	-3.0%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	0	40	-100.0%	36,240	35,090	3.28%	59	302	-80.5%	352,580	268,104	31.5%
MINI CORN	0	0	0.0%	54,301	12,968	318.73%	0	0	0.0%	251,578	148,672	69.2%
MINI SOYBEAN	0	0	0.0%	85,368	28,574	198.76%	0	0	0.0%	373,545	190,587	96.0%
MINI WHEAT	0	0	0.0%	19,767	7,408	166.83%	0	0	0.0%	137,286	78,078	75.8%
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%	5,560	4,799	15.86%	0	19	-100.0%	79,498	61,489	29.3%
OATS	0	0	0.0%	9,537	11,343	-15.92%	0	0	0.0%	110,440	125,863	-12.3%
PACIFIC RIM DAT SS WTHR	0	-	-	0	-		0	-	-	0	-	-
ROUGH RICE	0	0	0.0%	25,644	28,493	-10.00%	0	31	-100.0%	211,188	204,646	3.2%
SOYBEAN	0	9,103	-100.0%	7,127,481	6,585,231	8.23%	10,769	60,911	-82.3%	47,600,107	42,707,054	11.5%
SOYBEAN MEAL	0	2,569	-100.0%	2,505,024	2,296,841	9.06%	1,333	10,429	-87.2%	24,186,381	22,591,126	7.1%
SOYBEAN OIL	0	2,391	-100.0%	2,623,377	2,719,297	-3.53%	4,078	7,067	-42.3%	26,652,612	24,668,426	8.0%
S&P GSCI ENHANCED ER 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 OCT 2020	Open Outcry OCT 2019	% CHG	ELEC OCT 2020	ELEC OCT 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>Ag Products Futures</b>												
SUGAR 11	0	0	0.0%	0	0	0.00%	0	0	0.0%	10	10	0.0%
USD CRUDE PALM OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WHEAT	0	0	0.0%	6,953	661	951.89%	0	0	0.0%	21,011	7,873	166.9%
<b>Ag Products Options</b>												
AUG-NOV SOYBEAN CAL SPR	0	-	-	0	-		0	-	-	77	-	-
BUTTER CS	0	24	-100.0%	1,851	2,240	-17.37%	212	4,488	-95.3%	29,200	27,143	7.6%
CASH-SETTLED CHEESE	0	1,154	-100.0%	16,212	7,998	102.70%	7,734	16,165	-52.2%	119,369	79,881	49.4%
CATTLE	0	26,598	-100.0%	211,735	209,719	0.96%	59,913	257,575	-76.7%	2,234,206	1,793,385	24.6%
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%
CHI WHEAT	0	71,152	-100.0%	841,736	396,769	112.15%	202,275	929,024	-78.2%	6,529,882	5,468,274	19.4%
CLASS IV MILK	0	73	-100.0%	706	1,756	-59.79%	1,082	3,605	-70.0%	44,426	32,622	36.2%
CORN	0	293,885	-100.0%	3,044,113	1,944,266	56.57%	536,597	4,351,703	-87.7%	18,938,058	24,264,526	-22.0%
CORN NEARBY+2 CAL SPRD	0	22,345	-100.0%	3,469	430	706.74%	14,975	70,938	-78.9%	49,088	3,321	1,378.1%
DEC-DEC CORN CAL SPRD	0	1,588	-100.0%	115	2,013	-94.29%	250	14,047	-98.2%	1,885	4,390	-57.1%
DEC-JULY CORN CAL SPRD	0	1,449	-100.0%	706	0	0.00%	175	21,002	-99.2%	3,387	146	2,219.9%
DEC-JULY WHEAT CAL SPRD	0	50	-100.0%	0	1	-100.00%	0	50	-100.0%	1,545	1	154,400.0%
DRY WHEY	0	12	-100.0%	24	505	-95.25%	119	747	-84.1%	4,264	7,060	-39.6%
FEEDER CATTLE	0	832	-100.0%	28,256	21,503	31.40%	4,252	19,853	-78.6%	255,493	283,624	-9.9%
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%
HOGS	0	19,171	-100.0%	175,099	314,173	-44.27%	34,430	301,961	-88.6%	2,668,938	3,362,452	-20.6%
HOUSING INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	7	-100.0%
Intercommodity Spread	0	119	-100.0%	0	0	0.00%	7,987	1,119	613.8%	3,299	0	0.0%
JAN-MAR SOYBEAN CSO	0	-	-	0	-		0	-	-	20	-	-
JULY-DEC CORN CAL SPRD	0	4,205	-100.0%	4,402	1	440,100.00%	11,810	13,632	-13.4%	11,547	1,152	902.3%
JULY-DEC SOYMEAL CAL SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JULY-DEC SOY OIL CAL SPRD	0	-	-	0	-		0	-	-	125	-	-
JULY-DEC WHEAT CAL SPRD	0	50	-100.0%	0	0	0.00%	1,520	1,500	1.3%	2,136	0	0.0%
JULY-JULY WHEAT CAL SPRD	0	-	-	10	-		50	-	-	80	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2020	Open Outcry OCT 2019	% CHG	ELEC OCT 2020	ELEC OCT 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>Ag Products Options</b>												
JULY-NOV SOYBEAN CAL SPR	0	276	-100.0%	0	1,330	-100.00%	4,950	6,207	-20.3%	9,100	1,620	461.7%
KC WHEAT	0	11,870	-100.0%	135,342	72,316	87.15%	36,570	216,911	-83.1%	986,681	710,061	39.0%
LUMBER	0	0	0.0%	579	1,383	-58.13%	0	70	-100.0%	8,837	17,236	-48.7%
LV CATL CSO	0	0	0.0%	0	0	0.00%	0	529	-100.0%	0	0	0.0%
MAR-DEC CORN CAL SPRD	0	9	-100.0%	0	0	0.00%	505	9	5,511.1%	0	0	0.0%
MAR-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	2,500	40	6,150.0%	0	0	0.0%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	225	0	0.00%	0	0	0.0%	440	30	1,366.7%
MILK	0	2,016	-100.0%	39,251	39,170	0.21%	3,323	22,434	-85.2%	463,687	360,371	28.7%
MLK MID OPTIONS	0	7	-100.0%	7	0	0.00%	31	31	0.0%	93	194	-52.1%
NFD MILK	0	192	-100.0%	4,241	3,146	34.81%	494	2,011	-75.4%	63,407	52,521	20.7%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	500	0	0.00%	0	1,050	-100.0%	2,670	2,500	6.8%
NOV-MAR SOYBEAN CSO	0	0	0.0%	100	0	0.00%	100	20	400.0%	1,335	0	0.0%
NOV-NOV SOYBEAN CAL SPR	0	470	-100.0%	0	464	-100.00%	0	614	-100.0%	180	2,214	-91.9%
OATS	0	168	-100.0%	797	87	816.09%	720	2,442	-70.5%	2,251	2,007	12.2%
ROUGH RICE	0	2,030	-100.0%	306	1,144	-73.25%	6,492	20,539	-68.4%	13,866	9,680	43.2%
SEP-DEC SOYBEAN MEAL CSC	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SOYBEAN	0	138,513	-100.0%	1,915,925	1,051,158	82.27%	275,778	1,376,866	-80.0%	12,212,223	10,089,675	21.0%
SOYBEAN CRUSH	0	175	-100.0%	700	0	0.00%	830	179	363.7%	2,512	0	0.0%
SOYBEAN MEAL	0	36,375	-100.0%	363,188	142,934	154.09%	84,223	324,376	-74.0%	2,363,902	1,283,149	84.2%
SOYBEAN OIL	0	24,031	-100.0%	277,376	145,188	91.05%	106,072	194,222	-45.4%	1,736,631	1,004,935	72.8%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	5,985	0	0.00%	335	3,500	-90.4%	11,155	2,000	457.8%
SOYMEAL NEARBY+2 CAL SPR	0	0	0.0%	0	0	0.00%	200	490	-59.2%	0	0	0.0%
WHEAT	0	3,100	-100.0%	3,936	1,669	135.83%	16	10,800	-99.9%	12,360	8,246	49.9%
WHEAT-CORN ICSCO	0	200	-100.0%	925	0	0.00%	70	2,880	-97.6%	6,183	0	0.0%
WHEAT NEARBY+2 CAL SPRD	0	50	-100.0%	700	67	944.78%	1,251	2,440	-48.7%	5,401	300	1,700.3%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2020	Open Outcry OCT 2019	% CHG	ELEC OCT 2020	ELEC OCT 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	115,114	748,562	-84.6%	88,378,328	134,392,511	-34.2%	3,558,505	9,752,570	-63.5%	1,281,983,321	1,572,351,481	-18.5%
Equity Index Futures	0	5,474	-100.0%	104,034,832	61,684,159	68.7%	33,712	221,240	-84.8%	1,053,603,279	597,679,464	76.3%
Metals Futures	0	0	0.0%	10,293,133	12,620,514	-18.4%	0	0	0.0%	133,682,463	120,677,529	10.8%
Energy Futures	0	0	0.0%	35,320,042	44,779,139	-21.1%	0	0	0.0%	442,805,537	432,267,551	2.4%
FX Futures	0	0	0.0%	14,699,685	17,240,953	-14.7%	36	68	-47.1%	171,056,034	169,320,226	1.0%
Ags Futures	0	0	0.0%	0	0	0.0%	0	0	0.0%	90	0	0.0%
Foreign Exchange Futures	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Ag Products Futures	0	39,979	-100.0%	26,716,202	23,395,646	14.2%	52,661	417,748	-87.4%	241,067,579	249,644,019	-3.4%
<b>TOTAL FUTURES</b>	<b>115,114</b>	<b>794,015</b>	<b>-85.5%</b>	<b>279,442,222</b>	<b>294,112,922</b>	<b>-5.0%</b>	<b>3,644,914</b>	<b>10,391,626</b>	<b>-64.9%</b>	<b>3,324,198,303</b>	<b>3,141,940,270</b>	<b>5.8%</b>
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	0	677,771	-100.0%	14,231,135	14,858,864	-4.2%	1,658,011	6,794,089	-75.6%	153,590,291	130,650,274	17.6%
Interest Rate Options	5,405,099	20,940,006	-74.2%	18,279,994	33,816,419	-45.9%	85,156,852	245,906,853	-65.4%	298,565,778	319,158,511	-6.5%
Metals Options	0	0	0.0%	908,451	1,228,815	-26.1%	0	0	0.0%	12,466,441	13,664,174	-8.8%
Energy Options	0	0	0.0%	3,324,409	3,708,631	-10.4%	0	0	0.0%	35,673,446	34,821,996	2.4%
FX Options	0	511	-100.0%	663,231	1,083,351	-38.8%	4,673	12,405	-62.3%	8,671,527	11,016,726	-21.3%
Ag Products Options	0	662,189	-100.0%	7,078,517	4,361,430	62.3%	1,407,841	8,196,069	-82.8%	48,799,939	48,874,723	-0.2%
Foreign Exchange Options	0	0	0.0%	317	1,697	-81.3%	0	0	0.0%	7,210	8,760	-17.7%
<b>TOTAL OPTIONS</b>	<b>5,405,099</b>	<b>22,280,477</b>	<b>-75.7%</b>	<b>44,486,054</b>	<b>59,059,207</b>	<b>-24.7%</b>	<b>88,227,377</b>	<b>260,909,416</b>	<b>-66.2%</b>	<b>557,774,632</b>	<b>558,195,164</b>	<b>-0.1%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	5,520,213	21,688,568	-74.5%	106,658,322	168,208,930	-36.6%	88,715,357	255,659,423	-65.3%	1,580,549,099	1,891,509,992	-16.4%
Equity Index	0	683,245	-100.0%	118,265,967	76,543,023	54.5%	1,691,723	7,015,329	-75.9%	1,207,193,570	728,329,738	65.7%
Metals	0	0	0.0%	11,201,584	13,849,329	-19.1%	0	0	0.0%	146,148,904	134,341,703	8.8%
Energy	0	0	0.0%	38,644,451	48,487,770	-20.3%	0	0	0.0%	478,478,983	467,089,547	2.4%
FX	0	511	-100.0%	15,362,916	18,324,304	-16.2%	4,709	12,473	-62.2%	179,727,561	180,336,952	-0.3%
Ags	0	0	0.0%	0	0	0.0%	0	0	0.0%	90	0	0.0%
Foreign Exchange	0	0	0.0%	317	1,697	-81.3%	0	0	0.0%	7,210	8,760	-17.7%
Ag Products	0	702,168	-100.0%	33,794,719	27,757,076	21.8%	1,460,502	8,613,817	-83.0%	289,867,518	298,518,742	-2.9%
<b>GRAND TOTAL</b>	<b>5,520,213</b>	<b>23,074,492</b>	<b>-76.1%</b>	<b>323,928,276</b>	<b>353,172,129</b>	<b>-8.3%</b>	<b>91,872,291</b>	<b>271,301,042</b>	<b>-66.1%</b>	<b>3,881,972,935</b>	<b>3,700,135,434</b>	<b>4.9%</b>

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