



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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	149,918	-100.0%	17,536,965	29,037,195	-39.61%	469,469	896,905	-47.7%	247,025,660	245,844,714	0.5%
10-YR SWAP RATE	0	0	0.0%	12,219	21,595	-43.42%	0	0	0.0%	315,371	262,565	20.1%
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%	28	1	2,700.00%	0	0	0.0%	537	187	187.2%
20-YR SWAP RATE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	46	-100.0%
2-YR NOTE	0	794	-100.0%	4,096,395	9,904,906	-58.64%	261	16,575	-98.4%	81,374,245	89,508,749	-9.1%
2-YR SWAP RATE	0	0	0.0%	1,082	56,422	-98.08%	0	0	0.0%	75,535	317,306	-76.2%
30-YR BOND	0	18,110	-100.0%	4,961,139	5,637,698	-12.00%	55,491	123,696	-55.1%	51,788,909	46,710,789	10.9%
30-YR SWAP RATE	0	0	0.0%	72	383	-81.20%	0	0	0.0%	803	4,998	-83.9%
3-YR NOTE	0	-	-	62,571	-	-	0	-	-	62,571	-	-
3-YR SWAP RATE	0	0	0.0%	130	33,751	-99.61%	0	0	0.0%	19,823	95,991	-79.3%
4-YR SWAP RATE	0	0	0.0%	936	5,368	-82.56%	0	0	0.0%	9,393	80,541	-88.3%
5-YR NOTE	0	65,405	-100.0%	9,091,964	17,481,435	-47.99%	87,402	292,345	-70.1%	145,469,240	156,982,277	-7.3%
5-YR SWAP RATE	0	0	0.0%	25,108	62,461	-59.80%	0	0	0.0%	412,496	486,352	-15.2%
7-YR SWAP RATE	0	0	0.0%	290	4,070	-92.87%	0	0	0.0%	13,435	31,220	-57.0%
EURODOLLARS	0	515,412	-100.0%	22,577,321	55,046,855	-58.99%	2,619,681	5,486,942	-52.3%	347,679,582	422,380,808	-17.7%
FED FUND	0	0	0.0%	1,715,829	9,784,391	-82.46%	0	0	0.0%	43,540,396	52,910,862	-17.7%
SOFR	0	0	0.0%	728,434	751,355	-3.05%	0	0	0.0%	6,019,608	4,150,662	45.0%
SONIA	0	0	0.0%	255,791	292,367	-12.51%	0	0	0.0%	1,074,449	1,271,444	-15.5%
Ultra 10-Year Note	0	0	0.0%	2,748,584	3,616,777	-24.00%	0	0	0.0%	35,426,699	29,641,106	19.5%
ULTRA T-BOND	0	0	0.0%	2,297,940	2,328,793	-1.32%	0	66	-100.0%	27,380,817	24,449,237	12.0%

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<b>Interest Rate Options</b>												
10-YR NOTE	0	2,134,819	-100.0%	6,044,000	10,661,310	-43.31%	8,489,760	16,334,245	-48.0%	73,686,265	74,357,571	-0.9%
2-YR NOTE	0	87,782	-100.0%	72,670	375,202	-80.63%	273,359	1,011,448	-73.0%	1,663,311	2,451,726	-32.2%
30-YR BOND	0	231,332	-100.0%	2,108,074	2,254,532	-6.50%	891,042	2,043,470	-56.4%	16,437,055	16,934,035	-2.9%
5-YR NOTE	0	939,083	-100.0%	1,152,494	3,679,699	-68.68%	2,424,616	6,350,760	-61.8%	21,788,763	26,034,341	-16.3%
EURODOLLARS	0	13,113,227	-100.0%	4,440,357	8,969,287	-50.49%	48,129,596	99,711,753	-51.7%	96,088,070	57,182,022	68.0%
EURO MIDCURVE	0	5,138,866	-100.0%	5,311,687	3,314,961	60.23%	12,810,071	52,940,030	-75.8%	39,234,429	41,954,270	-6.5%
FED FUND	0	17,100	-100.0%	0	1,609	-100.00%	3,100	18,350	-83.1%	7,821	1,811	331.9%
SOFR	0	-	-	200	-		10	-	-	1,012	-	-
Ultra 10-Year Note	0	510	-100.0%	0	0	0.00%	13,035	12,128	7.5%	2,961	5,328	-44.4%
ULTRA T-BOND	0	30,712	-100.0%	299	261	14.56%	10,870	115,726	-90.6%	2,481	10,069	-75.4%
<b>Equity Index Futures</b>												
BITCOIN FUTURES	0	0	0.0%	161,734	152,868	5.80%	0	0	0.0%	1,170,545	1,094,090	7.0%
DJ US REAL ESTATE	0	0	0.0%	16,900	16,292	3.73%	0	0	0.0%	255,323	162,423	57.2%
E-mini (\$5) Dow	0	0	0.0%	4,455,562	3,564,186	25.01%	0	0	0.0%	38,910,844	30,478,653	27.7%
E-MINI COM SERVICES SELEC	0	0	0.0%	1,519	1,710	-11.17%	0	0	0.0%	15,019	18,689	-19.6%
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%	2	0	0.00%	0	0	0.0%	2	711	-99.7%
E-MINI MIDCAP	0	0	0.0%	277,224	274,293	1.07%	0	0	0.0%	2,671,505	2,311,316	15.6%
E-MINI NASDAQ 100	0	0	0.0%	12,047,723	7,906,354	52.38%	0	0	0.0%	86,947,661	67,466,355	28.9%
E-MINI RUSSELL 1000	0	0	0.0%	881	1,685	-47.72%	0	0	0.0%	25,789	23,925	7.8%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	1,886	866	117.78%	0	0	0.0%	21,556	23,963	-10.0%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	3,186	2,027	57.18%	0	0	0.0%	39,762	48,628	-18.2%
E-MINI RUSSELL 2000	0	0	0.0%	3,907,989	2,449,054	59.57%	0	0	0.0%	31,381,362	20,318,394	54.4%
E-MINI S&P500	0	0	0.0%	35,485,473	25,316,063	40.17%	0	0	0.0%	322,109,984	224,523,703	43.5%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	2,009	1,418	41.68%	0	0	0.0%	41,088	17,219	138.6%
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%	0	1,707	-100.00%	0	0	0.0%	4,480	15,216	-70.6%
IBOVESPA INDEX	0	0	0.0%	119	338	-64.79%	0	0	0.0%	3,590	4,079	-12.0%
MICRO E-MINI NASDAQ 100	0	0	0.0%	15,377,810	4,362,562	252.49%	0	0	0.0%	87,790,966	10,385,973	745.3%
MICRO E-MINI RUSSELL 2000	0	0	0.0%	2,618,965	640,308	309.02%	0	0	0.0%	14,669,945	1,559,195	840.9%

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<b>Equity Index Futures</b>												
MICRO E-MINI S&P500	0	0	0.0%	22,877,218	4,563,369	401.32%	0	0	0.0%	129,368,221	13,911,414	829.9%
MICRO MINI \$5 DOW	0	0	0.0%	2,992,751	1,066,878	180.51%	0	0	0.0%	20,490,673	2,810,187	629.2%
NASDAQ BIOTECH	0	0	0.0%	608	242	151.24%	0	0	0.0%	4,138	2,048	102.1%
Nearby BTIC+	0	-	-	0	-	-	0	-	-	200	-	-
NIFTY 50	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	134,492	151,817	-11.41%	0	0	0.0%	1,566,267	1,492,455	4.9%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	599,357	711,869	-15.81%	0	228	-100.0%	7,734,690	5,307,960	45.7%
S&P 500	0	4,447	-100.0%	586	626	-6.39%	33,712	158,304	-78.7%	19,023	9,657	97.0%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	5,898	7,107	-17.01%	0	0	0.0%	182,876	71,065	157.3%
S&P 500/GI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	40	-100.0%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	224	60	273.33%	0	0	0.0%	8,188	581	1,309.3%
S&P 600 SMALLCAP EMINI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
S&P CONSUMER DSCRTNRY S	0	0	0.0%	4,473	2,493	79.42%	0	0	0.0%	46,976	47,675	-1.5%
S&P CONSUMER STAPLES SE	0	0	0.0%	12,944	4,298	201.16%	0	0	0.0%	76,686	72,717	5.5%
S&P ENERGY SECTOR	0	0	0.0%	8,338	4,910	69.82%	0	0	0.0%	119,623	75,811	57.8%
S&P FINANCIAL SECTOR	0	0	0.0%	9,629	13,070	-26.33%	0	0	0.0%	126,415	118,610	6.6%
S&P HEALTH CARE SECTOR	0	0	0.0%	5,279	5,946	-11.22%	0	0	0.0%	89,151	73,306	21.6%
S&P INDUSTRIAL SECTOR	0	0	0.0%	3,008	3,703	-18.77%	0	0	0.0%	58,643	51,342	14.2%
S&P MATERIALS SECTOR	0	0	0.0%	2,949	2,553	15.51%	0	0	0.0%	34,981	42,493	-17.7%
S&P TECHNOLOGY SECTOR	0	0	0.0%	5,764	3,487	65.30%	0	0	0.0%	70,473	69,142	1.9%
S&P UTILITIES SECTOR	0	0	0.0%	6,906	8,827	-21.76%	0	0	0.0%	98,136	110,637	-11.3%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	48	-100.0%
YEN DENOMINATED TOPIX	0	0	0.0%	4,622	21,790	-78.79%	0	0	0.0%	52,564	125,089	-58.0%

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<b>Equity Index Options</b>												
BITCOIN FUTURES	0	-	-	854	-		0	-	-	5,759	-	-
E-mini (\$5) Dow	0	0	0.0%	2,306	2,115	9.03%	0	0	0.0%	23,771	28,601	-16.9%
E-MINI NASDAQ 100	0	0	0.0%	312,820	176,875	76.86%	0	0	0.0%	2,282,852	1,415,682	61.3%
E-MINI RUSSELL 2000	0	0	0.0%	6,940	5,966	16.33%	0	0	0.0%	129,763	84,172	54.2%
E-MINI S&P500	0	0	0.0%	5,420,454	3,785,568	43.19%	250	345	-27.5%	55,658,667	33,400,352	66.6%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	8,003	7,325	9.26%	0	0	0.0%	61,084	58,803	3.9%
EOM EMINI S&P	0	0	0.0%	1,872,618	1,517,529	23.40%	0	0	0.0%	15,261,946	12,700,448	20.2%
EOM S&P 500	0	112,461	-100.0%	0	0	0.00%	303,360	901,372	-66.3%	0	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	2,386	5,047	-52.72%	0	0	0.0%	34,130	24,362	40.1%
EOW1 EMINI S&P 500	0	0	0.0%	662,839	1,015,468	-34.73%	0	0	0.0%	7,294,037	6,688,563	9.1%
EOW1 S&P 500	0	83,394	-100.0%	0	0	0.00%	157,788	467,487	-66.2%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	5,115	12,979	-60.59%	0	0	0.0%	28,024	35,293	-20.6%
EOW2 EMINI S&P 500	0	0	0.0%	908,112	795,872	14.10%	0	0	0.0%	7,729,041	6,826,925	13.2%
EOW2 S&P 500	0	121,425	-100.0%	0	0	0.00%	252,530	860,226	-70.6%	0	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	17,874	15,101	18.36%	0	0	0.0%	140,197	77,300	81.4%
EOW3 EMINI S&P 500	0	0	0.0%	2,297,984	2,424,780	-5.23%	0	0	0.0%	17,949,185	15,980,504	12.3%
EOW3 S&P 500	0	166,252	-100.0%	0	0	0.00%	266,271	942,464	-71.7%	0	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	4,194	3,798	10.43%	0	0	0.0%	23,320	21,339	9.3%
EOW4 EMINI S&P 500	0	0	0.0%	1,030,263	703,668	46.41%	0	0	0.0%	6,021,088	5,552,341	8.4%
S&P 500	0	143,603	-100.0%	40	0	0.00%	677,812	1,567,909	-56.8%	7,113	0	0.0%

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<b>Metals Futures</b>												
ALUMINUM	0	0	0.0%	8,354	561	1,389.13%	0	0	0.0%	25,845	4,568	465.8%
COMEX COPPER	0	0	0.0%	1,927,353	1,864,597	3.37%	0	0	0.0%	14,303,286	14,540,830	-1.6%
COMEX E-Mini GOLD	0	0	0.0%	22,636	31,114	-27.25%	0	0	0.0%	231,703	99,382	133.1%
COMEX E-Mini SILVER	0	0	0.0%	14,347	4,349	229.89%	0	0	0.0%	40,954	26,372	55.3%
COMEX GOLD	0	0	0.0%	7,075,358	9,212,412	-23.20%	0	0	0.0%	47,651,949	44,513,787	7.0%
COMEX MINY COPPER	0	0	0.0%	656	703	-6.69%	0	0	0.0%	3,780	4,612	-18.0%
COMEX SILVER	0	0	0.0%	2,587,853	2,042,399	26.71%	0	0	0.0%	13,509,044	12,542,872	7.7%
COPPER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FERROUS PRODUCTS	0	0	0.0%	334	313	6.71%	0	0	0.0%	8,613	4,062	112.0%
GOLD	0	-	-	2,504	-		0	-	-	51,144	-	-
Gold Kilo	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HOT ROLLED COIL STEEL FUT	0	-	-	0	-		0	-	-	0	-	-
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%	1,987,718	608,677	226.56%	0	0	0.0%	10,017,640	2,077,415	382.2%
NYMEX HOT ROLLED STEEL	0	0	0.0%	2,302	1,946	18.29%	0	0	0.0%	35,553	26,202	35.7%
NYMEX PLATINUM	0	0	0.0%	305,276	431,123	-29.19%	0	0	0.0%	2,684,601	3,112,772	-13.8%
PALLADIUM	0	0	0.0%	39,358	76,857	-48.79%	0	0	0.0%	454,461	724,914	-37.3%
SILVER	0	0	0.0%	243,750	23,306	945.87%	0	0	0.0%	603,515	118,812	408.0%
URANIUM	0	0	0.0%	0	0	0.00%	0	0	0.0%	54	395	-86.3%

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<b>Metals Options</b>												
ALUMINUM	0	-	-	0	-		0	-	-	0	-	-
COMEX COPPER	0	0	0.0%	14,088	45,032	-68.72%	0	0	0.0%	209,079	302,252	-30.8%
COMEX GOLD	0	0	0.0%	803,530	1,137,230	-29.34%	0	0	0.0%	6,716,558	6,560,167	2.4%
COMEX SILVER	0	0	0.0%	248,066	218,369	13.60%	0	0	0.0%	1,258,474	907,301	38.7%
COPPER	0	0	0.0%	0	131	-100.00%	0	0	0.0%	2,663	775	243.6%
GOLD	0	0	0.0%	140,217	166,416	-15.74%	0	0	0.0%	1,008,261	744,628	35.4%
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%	286	919	-68.88%	0	0	0.0%	3,712	9,286	-60.0%
PALLADIUM	0	0	0.0%	4	279	-98.57%	0	0	0.0%	1,361	4,430	-69.3%
SILVER	0	0	0.0%	7,702	4,845	58.97%	0	0	0.0%	66,694	29,232	128.2%

<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 JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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%	1,328,913	1,976,266	-32.76%	0	0	0.0%	17,825,059	14,737,444	21.0%
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%	0	0	0.00%	0	0	0.0%	177	474	-62.7%
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	123	-51.2%
CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL LAST DAY	0	-	-	0	-		0	-	-	0	-	-
CRUDE OIL OUTRIGHTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	50	-100.0%
CRUDE OIL PHY	0	0	0.0%	15,883,942	22,470,373	-29.31%	0	0	0.0%	187,131,483	171,681,954	9.0%
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%	25,946	17,365	49.42%	0	0	0.0%	223,975	59,242	278.1%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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%	222	5,391	-95.88%	0	0	0.0%	11,923	61,501	-80.6%
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	100	-100.00%	0	0	0.0%	286	732	-60.9%
EUROPEAN NAPHTHA BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPEAN NAPHTHA CRACK S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE DATED BRENT SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE JET KERO NWE CALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE NAPHTHA CALSWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO PROPANE CIF ARA SW	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FREIGHT MARKETS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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	5,143	-100.00%	0	0	0.0%	8,776	17,435	-49.7%
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	2	-100.00%	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%	2,327,426	2,883,991	-19.30%	0	0	0.0%	25,947,922	21,713,479	19.5%
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	0.00%	-	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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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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>												
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	-	-
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%	129,403	151,395	-14.53%	0	0	0.0%	1,107,069	1,125,057	-1.6%
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%	633	456	38.82%	0	0	0.0%	5,926	4,299	37.8%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	15	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 JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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%	5	3	66.67%	0	0	0.0%	31	23	34.8%
MINY NATURAL GAS	0	0	0.0%	120,762	33,478	260.72%	0	0	0.0%	713,479	191,184	273.2%
MINY RBOB GAS	0	0	0.0%	6	6	0.00%	0	0	0.0%	50	43	16.3%
MINY WTI CRUDE OIL	0	0	0.0%	250,921	550,243	-54.40%	0	0	0.0%	5,517,623	3,208,632	72.0%
MJC FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MNC FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU ETHANE 5 DEC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	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%	9	3	200.00%	0	0	0.0%	149	75	98.7%
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%	29,837	28,753	3.77%	0	0	0.0%	323,137	271,167	19.2%
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%	8,324,298	8,827,979	-5.71%	0	0	0.0%	73,213,210	52,170,897	40.3%
NEPOOL CNCTCT 5MW D AH O	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL CONECTIC 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL INTR HUB 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL NE MASS 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL NE MASS 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL RHD ISLD 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL RHODE IL 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL W CNT MASS 5MW D	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEPOOL W CNTR M 5MW D AH	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NEW ENGLAND HUB PEAK DAI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK ETHANOL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE G PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE J PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NGPL MID-CONTINENT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NGPL TEX/OK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
N ILLINOIS HUB DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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%	9	4	125.00%	0	0	0.0%	26	8	225.0%
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 JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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 JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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%	3,184,211	4,012,160	-20.64%	0	0	0.0%	27,804,799	29,384,002	-5.4%
RBOB SPREAD (PLATTS) SWA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
RBOB VS HEATING OIL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SAN JUAN BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SAN JUAN PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE 180CST BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE 380CST BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE 380CST FUEL OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL 180CST CAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE FUEL OIL SPREA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL CALEND	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE GASOIL VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO BALMO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO GASOI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KEROSENE S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET KERO VS. GA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE NAPHTHA SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SING FUEL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SOUTH STAR TEX OKLHM KNS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Sumas Basis Swap	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TC2 ROTTERDAM TO USAC 37	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TC5 RAS TANURA TO YOKOHA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TCO BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TD3 MEG TO JAPAN 250K MT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TENNESSEE ZONE 0 BASIS S	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Tetco STX Basis	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>Energy Futures</b>												
TEXAS EASTERN ZONE M-3 BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TEXAS GAS ZONE1 NG BASIS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Transco Zone 3 Basis	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TRANSCO ZONE4 BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 6 BASIS SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
UCM FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
UK NBP NAT GAS CAL MTH FU	0	0	0.0%	155	150	3.33%	0	0	0.0%	1,884	3,299	-42.9%
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%	5,186	41,378	-87.47%	0	0	0.0%	116,330	455,867	-74.5%
COAL API2 INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
COAL API4 INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
COAL SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL 1MO	0	0	0.0%	900	4,300	-79.07%	0	0	0.0%	56,371	48,461	16.3%
CRUDE OIL APO	0	0	0.0%	0	0	0.00%	0	0	0.0%	3	3	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

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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%	1,240,647	2,217,745	-44.06%	0	0	0.0%	16,745,299	16,436,680	1.9%
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	-	-
HEATING OIL PHY	0	0	0.0%	1,860	3,438	-45.90%	0	0	0.0%	24,980	29,812	-16.2%
HENRY HUB FINANCIAL LAST	0	0	0.0%	0	0	0.00%	0	0	0.0%	20	0	0.0%
HO 1 MONTH CLNDR OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LLS CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MCCLOSKEY ARA ARGS COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NATURAL GAS 1 M CSO FIN	0	0	0.0%	0	700	-100.00%	0	0	0.0%	2,501	3,570	-29.9%
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%	1,350	0	0.00%	0	0	0.0%	1,650	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%	1,019,197	1,053,762	-3.28%	0	0	0.0%	9,677,345	6,238,303	55.1%
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%	13	45	-71.11%	0	0	0.0%	653	297	119.9%
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	6	-100.00%	0	0	0.0%	11	17	-35.3%
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%
RBOB CRACK	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 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>Energy Options</b>												
RBOB PHY	0	0	0.0%	1,386	4,235	-67.27%	0	0	0.0%	18,422	26,342	-30.1%
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%	1,102	1,400	-21.29%	0	0	0.0%	12,762	29,205	-56.3%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	8,600	-100.0%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	1	5	-80.00%	0	0	0.0%	77	109	-29.4%
AD/JY CROSS RATES	0	0	0.0%	1,275	1,763	-27.68%	0	0	0.0%	20,439	19,552	4.5%
AD/NE CROSS RATES	0	0	0.0%	152	165	-7.88%	0	0	0.0%	2,141	673	218.1%
AUSTRALIAN DOLLAR	0	0	0.0%	2,025,340	1,867,784	8.44%	0	0	0.0%	15,495,136	15,014,580	3.2%
BP/JY CROSS RATES	0	0	0.0%	1,693	3,214	-47.32%	0	0	0.0%	24,489	18,337	33.5%
BP/SF CROSS RATES	0	0	0.0%	367	847	-56.67%	0	0	0.0%	3,396	3,221	5.4%
BRAZIL REAL	0	0	0.0%	203,257	111,734	81.91%	0	0	0.0%	1,350,837	787,200	71.6%
BRITISH POUND	0	0	0.0%	2,050,884	2,077,280	-1.27%	0	0	0.0%	15,332,547	16,557,317	-7.4%
CANADIAN DOLLAR	0	0	0.0%	1,359,649	1,382,467	-1.65%	0	3	-100.0%	11,461,688	11,200,988	2.3%
CD/JY CROSS RATES	0	0	0.0%	10	6	66.67%	0	0	0.0%	360	125	188.0%
CHINESE RENMINBI (CNH)	0	0	0.0%	13,919	26,940	-48.33%	0	0	0.0%	125,060	182,460	-31.5%
CZECK KORUNA (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	21	18	16.7%
CZECK KORUNA (US)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EC/AD CROSS RATES	0	0	0.0%	2,812	3,490	-19.43%	0	0	0.0%	45,120	32,796	37.6%
EC/CD CROSS RATES	0	0	0.0%	3,051	1,594	91.41%	0	0	0.0%	32,133	21,354	50.5%
EC/NOK CROSS RATES	0	0	0.0%	12	370	-96.76%	0	0	0.0%	1,397	3,316	-57.9%
EC/SEK CROSS RATES	0	0	0.0%	173	409	-57.70%	0	0	0.0%	4,521	4,530	-0.2%
EFX/BP CROSS RATES	0	0	0.0%	39,841	78,584	-49.30%	0	0	0.0%	502,253	626,105	-19.8%
EFX/JY CROSS RATES	0	0	0.0%	31,102	40,996	-24.13%	0	0	0.0%	454,314	428,888	5.9%
EFX/SF CROSS RATES	0	0	0.0%	17,344	27,444	-36.80%	0	0	0.0%	290,873	228,569	27.3%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 2019	% CHG	Open Outcry Y.T.D 2020	Open Outcry Y.T.D 2019	% CHG	ELEC Y.T.D 2020	ELEC Y.T.D 2019	% CHG
<b>FX Futures</b>												
E-MINI EURO FX	0	0	0.0%	168,769	84,189	100.46%	0	0	0.0%	1,063,676	686,908	54.8%
E-MINI JAPANESE YEN	0	0	0.0%	12,519	24,132	-48.12%	0	0	0.0%	180,463	87,233	106.9%
EURO FX	0	11	-100.0%	4,698,533	3,774,769	24.47%	36	53	-32.1%	32,101,167	29,981,056	7.1%
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%	0	0	0.00%	0	0	0.0%	67	8	737.5%
INDIAN RUPEE	0	0	0.0%	28,310	58,879	-51.92%	0	0	0.0%	192,416	473,438	-59.4%
JAPANESE YEN	0	2	-100.0%	1,854,925	2,166,012	-14.36%	0	2	-100.0%	18,547,487	18,220,447	1.8%
KOREAN WON	0	0	0.0%	387	329	17.63%	0	0	0.0%	4,152	1,817	128.5%
MEXICAN PESO	0	0	0.0%	898,378	871,362	3.10%	0	0	0.0%	8,436,257	8,933,896	-5.6%
MICRO AUD/USD	0	0	0.0%	272,625	97,827	178.68%	0	0	0.0%	1,757,162	793,267	121.5%
MICRO CAD/USD	0	0	0.0%	26,257	17,664	48.65%	0	0	0.0%	177,798	118,740	49.7%
MICRO CHF/USD	0	0	0.0%	3,875	4,292	-9.72%	0	0	0.0%	23,891	15,981	49.5%
MICRO EUR/USD	0	0	0.0%	611,661	224,416	172.56%	0	0	0.0%	3,106,324	1,739,886	78.5%
MICRO GBP/USD	0	0	0.0%	64,721	40,880	58.32%	0	0	0.0%	396,225	296,782	33.5%
MICRO INR/USD	0	0	0.0%	1,848	5,860	-68.46%	0	0	0.0%	16,751	33,567	-50.1%
MICRO JPY/USD	0	0	0.0%	23,604	25,014	-5.64%	0	0	0.0%	217,301	193,091	12.5%
NEW ZEALND DOLLAR	0	0	0.0%	624,801	492,310	26.91%	0	0	0.0%	4,483,601	4,072,981	10.1%
NKR/USD CROSS RATE	0	0	0.0%	1,814	4,421	-58.97%	0	0	0.0%	35,977	30,482	18.0%
POLISH ZLOTY (EC)	0	0	0.0%	48	11	336.36%	0	0	0.0%	447	405	10.4%
POLISH ZLOTY (US)	0	0	0.0%	1,032	122	745.90%	0	0	0.0%	5,200	705	637.6%
RMB USD	0	0	0.0%	1	0	0.00%	0	0	0.0%	4	5	-20.0%
RUSSIAN RUBLE	0	0	0.0%	119,181	51,082	133.31%	0	0	0.0%	822,095	449,079	83.1%
S.AFRICAN RAND	0	0	0.0%	72,289	51,799	39.56%	0	0	0.0%	552,923	291,513	89.7%
SF/JY CROSS RATES	0	0	0.0%	3	0	0.00%	0	0	0.0%	223	7	3,085.7%
SHEKEL	0	0	0.0%	1	0	0.00%	0	0	0.0%	93	0	0.0%
SKR/USD CROSS RATES	0	0	0.0%	2,429	1,806	34.50%	0	0	0.0%	27,434	17,634	55.6%
SWISS FRANC	0	0	0.0%	516,967	463,258	11.59%	0	0	0.0%	4,260,331	3,789,087	12.4%
TURKISH LIRA	0	0	0.0%	0	40	-100.00%	0	0	0.0%	18	56	-67.9%
USDZAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	20	-100.0%
<b>FX Options</b>												
AUD/USD MONDAY OPTION W	0	-	-	510	-		0	-	-	2,776	-	-

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<b>FX Options</b>												
AUD/USD MONDAY OPTION W	0	-	-	172	-		0	-	-	1,258	-	-
AUD/USD MONDAY OPTION W	0	-	-	565	-		0	-	-	1,951	-	-
AUD/USD MONDAY OPTION W	0	-	-	172	-		0	-	-	975	-	-
AUD/USD MONDAY OPTION W	0	-	-	0	-		0	-	-	709	-	-
AUD/USD MONTHLY OPTIONS	0	0	0.0%	55,903	46,911	19.17%	0	0	0.0%	582,545	470,527	23.8%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	5,608	-100.00%	0	0	0.0%	3,153	13,711	-77.0%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,867	2,441	-23.51%	0	0	0.0%	34,512	43,378	-20.4%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,899	5,627	-48.48%	0	0	0.0%	29,425	47,245	-37.7%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,156	4,108	-23.17%	0	0	0.0%	31,461	52,332	-39.9%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,866	312	498.08%	0	0	0.0%	12,603	13,020	-3.2%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	493	1,191	-58.61%	0	0	0.0%	9,664	12,542	-22.9%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	456	1,235	-63.08%	0	0	0.0%	11,535	13,560	-14.9%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	161	336	-52.08%	0	0	0.0%	7,088	5,669	25.0%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	211	346	-39.02%	0	0	0.0%	10,668	8,009	33.2%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	600	1,812	-66.89%	0	0	0.0%	4,219	3,824	10.3%
BRITISH POUND (EU)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRL/USD MONTHLY OPTIONS	0	0	0.0%	0	23	-100.00%	0	0	0.0%	663	79	739.2%
CAD/USD MONDAY OPTIONS	0	-	-	619	-		0	-	-	2,359	-	-
CAD/USD MONDAY OPTIONS	0	-	-	223	-		0	-	-	629	-	-
CAD/USD MONDAY OPTIONS	0	-	-	1,862	-		0	-	-	3,871	-	-
CAD/USD MONDAY OPTIONS	0	-	-	2,453	-		0	-	-	3,841	-	-
CAD/USD MONDAY OPTIONS	0	-	-	0	-		0	-	-	861	-	-
CAD/USD MONTHLY OPTIONS	0	40	-100.0%	46,508	28,082	65.61%	430	857	-49.8%	380,206	366,334	3.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	7,571	-100.00%	0	0	0.0%	6,030	25,901	-76.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	7,054	3,003	134.90%	0	0	0.0%	49,643	48,490	2.4%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	5,740	9,149	-37.26%	0	0	0.0%	44,941	70,008	-35.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	6,454	8,085	-20.17%	0	0	0.0%	51,381	74,251	-30.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	5,825	251	2,220.72%	0	0	0.0%	25,272	16,841	50.1%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,412	2,045	17.95%	0	0	0.0%	17,791	21,375	-16.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	631	2,687	-76.52%	0	0	0.0%	13,041	25,012	-47.9%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,144	3,038	-29.43%	0	0	0.0%	14,742	21,840	-32.5%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,984	1,805	65.32%	0	0	0.0%	18,208	20,296	-10.3%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,313	2,462	-6.05%	0	0	0.0%	7,730	7,133	8.4%
CANADIAN DOLLAR (EU)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%

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<b>FX Options</b>												
CHF/USD MONTHLY OPTIONS	0	0	0.0%	2,316	2,323	-0.30%	0	0	0.0%	23,457	14,890	57.5%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	9	-100.00%	0	0	0.0%	37	117	-68.4%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	7	144	-95.14%	0	0	0.0%	1,296	1,581	-18.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	14	65	-78.46%	0	0	0.0%	848	1,412	-39.9%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	23	62	-62.90%	0	0	0.0%	772	708	9.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	3	2	50.00%	0	0	0.0%	906	606	49.5%
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	-	-	4,973	-	-	0	-	-	11,179	-	-
EUR/USD MONDAY OPTION W	0	-	-	2,757	-	-	0	-	-	6,297	-	-
EUR/USD MONDAY OPTION W	0	-	-	8,241	-	-	0	-	-	14,190	-	-
EUR/USD MONDAY OPTION W	0	-	-	7,207	-	-	0	-	-	13,663	-	-
EUR/USD MONDAY OPTION W	0	-	-	0	-	-	0	-	-	5,514	-	-
EUR/USD MONTHLY OPTIONS	0	823	-100.0%	251,533	391,713	-35.79%	1,550	8,353	-81.4%	2,172,079	2,548,970	-14.8%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	25,108	-100.00%	0	0	0.0%	11,073	78,738	-85.9%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	20,010	17,931	11.59%	62	0	0.0%	150,473	189,483	-20.6%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	22,734	25,141	-9.57%	0	0	0.0%	154,863	210,819	-26.5%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	19,307	36,248	-46.74%	0	0	0.0%	162,931	277,247	-41.2%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	18,871	173	10,808.09%	0	0	0.0%	59,845	62,352	-4.0%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	6,908	13,134	-47.40%	0	0	0.0%	68,590	83,551	-17.9%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	6,565	10,419	-36.99%	0	0	0.0%	57,929	87,927	-34.1%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	11,723	7,827	49.78%	0	0	0.0%	61,833	79,114	-21.8%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	9,881	14,228	-30.55%	0	0	0.0%	53,722	94,623	-43.2%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	9,029	9,582	-5.77%	0	0	0.0%	23,314	29,955	-22.2%
GBP/USD MONDAY OPTION W	0	-	-	1,053	-	-	0	-	-	3,671	-	-
GBP/USD MONDAY OPTION W	0	-	-	250	-	-	0	-	-	2,563	-	-
GBP/USD MONDAY OPTION W	0	-	-	440	-	-	0	-	-	4,333	-	-
GBP/USD MONDAY OPTION W	0	-	-	704	-	-	0	-	-	5,595	-	-
GBP/USD MONDAY OPTION W	0	-	-	0	-	-	0	-	-	1,162	-	-
GBP/USD MONTHLY OPTIONS	0	48	-100.0%	72,590	117,298	-38.11%	64	780	-91.8%	603,343	874,972	-31.0%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	0	3,942	-100.00%	0	0	0.0%	3,267	23,707	-86.2%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	2,267	3,667	-38.18%	0	0	0.0%	26,049	43,033	-39.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,849	5,379	-65.63%	0	0	0.0%	23,736	53,961	-56.0%

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<b>FX Options</b>												
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,720	6,201	-72.26%	0	0	0.0%	25,264	52,099	-51.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,377	1,323	155.25%	0	0	0.0%	11,786	20,450	-42.4%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	330	2,019	-83.66%	0	0	0.0%	12,669	17,991	-29.6%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	401	1,573	-74.51%	0	0	0.0%	7,129	19,171	-62.8%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	668	474	40.93%	0	0	0.0%	11,749	21,108	-44.3%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	631	1,284	-50.86%	0	0	0.0%	10,076	17,905	-43.7%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	344	1,353	-74.58%	0	0	0.0%	5,534	7,357	-24.8%
JAPANESE YEN (EU)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JPY/USD MONDAY OPTION WE	0	-	-	1,667	-	-	0	-	-	5,959	-	-
JPY/USD MONDAY OPTION WE	0	-	-	2,370	-	-	0	-	-	8,179	-	-
JPY/USD MONDAY OPTION WE	0	-	-	1,571	-	-	0	-	-	4,804	-	-
JPY/USD MONDAY OPTION WE	0	-	-	457	-	-	0	-	-	2,349	-	-
JPY/USD MONDAY OPTION WE	0	-	-	0	-	-	0	-	-	1,363	-	-
JPY/USD MONTHLY OPTIONS	0	75	-100.0%	90,155	106,224	-15.13%	727	163	346.0%	953,229	953,343	0.0%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	11,907	-100.00%	0	0	0.0%	5,689	40,562	-86.0%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	10,494	6,241	68.15%	0	0	0.0%	87,502	72,822	20.2%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	9,117	10,770	-15.35%	0	0	0.0%	94,731	101,239	-6.4%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	10,245	10,960	-6.52%	0	0	0.0%	88,808	108,668	-18.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	10,312	1,157	791.27%	0	0	0.0%	36,879	31,318	17.8%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,207	4,658	-9.68%	0	0	0.0%	40,915	27,198	50.4%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,898	4,064	-28.69%	0	0	0.0%	31,343	29,040	7.9%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,195	2,153	1.95%	0	0	0.0%	36,372	22,653	60.6%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,571	2,124	21.05%	0	0	0.0%	40,129	23,907	67.9%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,697	2,751	-1.96%	0	0	0.0%	8,991	7,723	16.4%
MXN/USD MONTHLY OPTIONS	0	0	0.0%	998	1,195	-16.49%	1,840	900	104.4%	10,301	8,899	15.8%
MXN/USD WKLY FRIDAY OPTI	0	-	-	0	-	-	0	-	-	0	-	-
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	225	354	-36.4%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,003	454	120.9%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	2	0	0.00%	0	0	0.0%	1,183	328	260.7%
MXN/USD WKLY FRIDAY OPTI	0	-	-	9	-	-	0	-	-	152	-	-
NZD/USD MONTHLY OPTIONS	0	0	0.0%	79	523	-84.89%	0	0	0.0%	4,551	2,786	63.4%
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%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	206	-100.0%

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<b>FX Options</b>												
NZD/USD WKLY FRIDAY OPTIO	0	-	-	0	-		0	-	-	375	-	-
NZD/USD WKLY FRIDAY OPTIO	0	-	-	0	-		0	-	-	0	-	-
<b>Ags Futures</b>												
FERTILIZER PRODUCTS	0	0	0.0%	5	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%	290	553	-47.56%	0	0	0.0%	6,155	5,939	3.6%
<b>Ag Products Futures</b>												
BUTTER CS	0	0	0.0%	3,174	5,701	-44.33%	0	0	0.0%	41,849	28,078	49.0%
CASH-SETTLED CHEESE	0	0	0.0%	10,130	12,831	-21.05%	0	0	0.0%	95,060	80,235	18.5%
CAT ASIA WEATHER	0	-	-	0	-		0	-	-	0	-	-
CATTLE	0	151	-100.0%	1,369,591	1,319,012	3.83%	2,592	8,828	-70.6%	10,312,138	10,207,368	1.0%
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%	50	25	100.00%	0	0	0.0%	50	25	100.0%
CHI WHEAT	0	3,957	-100.0%	2,577,596	2,256,117	14.25%	12,092	52,487	-77.0%	19,672,513	19,482,732	1.0%
CLASS IV MILK	0	0	0.0%	1,051	1,260	-16.59%	65	157	-58.6%	18,144	16,060	13.0%
COCOA TAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	8	-100.0%
COFFEE	0	-	-	0	-		0	-	-	0	-	-

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<b>Ag Products Futures</b>												
CORN	0	18,082	-100.0%	6,879,424	7,852,450	-12.39%	18,145	184,596	-90.2%	50,631,800	67,313,531	-24.8%
COTTON	0	0	0.0%	0	14	-100.00%	0	0	0.0%	23	29	-20.7%
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%	7,096	25,015	-71.63%	0	0	0.0%	211,420	342,134	-38.2%
DRY WHEY	0	0	0.0%	1,385	908	52.53%	0	0	0.0%	10,206	9,241	10.4%
FEEDER CATTLE	0	73	-100.0%	310,756	305,018	1.88%	54	178	-69.7%	1,934,525	2,181,587	-11.3%
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	11,884	27,483	-56.76%	0	0	0.0%	112,658	200,900	-43.9%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	44	0	0.0%
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	1,129	-100.0%	1,047,352	1,562,776	-32.98%	1,940	13,154	-85.3%	7,985,910	9,556,143	-16.4%
HOUSING INDEX	0	0	0.0%	9	10	-10.00%	0	0	0.0%	225	81	177.8%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
KC WHEAT	0	209	-100.0%	928,120	1,096,376	-15.35%	1,534	6,744	-77.3%	8,025,952	9,125,939	-12.1%
LUMBER	0	0	0.0%	15,582	12,438	25.28%	0	0	0.0%	89,661	99,687	-10.1%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	0	40	-100.0%	37,668	25,860	45.66%	59	260	-77.3%	251,911	173,523	45.2%
MINI CORN	0	0	0.0%	24,799	16,852	47.16%	0	0	0.0%	142,651	101,533	40.5%
MINI SOYBEAN	0	0	0.0%	32,656	17,531	86.28%	0	0	0.0%	184,269	125,879	46.4%
MINI WHEAT	0	0	0.0%	12,605	9,256	36.18%	0	0	0.0%	89,896	42,632	110.9%
MLK MID OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NFD MILK	0	14	-100.0%	5,002	5,025	-0.46%	0	14	-100.0%	62,865	45,201	39.1%
OATS	0	0	0.0%	6,553	9,121	-28.15%	0	0	0.0%	82,761	98,357	-15.9%
PACIFIC RIM DAT SS WTHR	0	-	-	0	-		0	-	-	0	-	-
ROUGH RICE	0	0	0.0%	9,134	13,422	-31.95%	0	31	-100.0%	157,361	130,422	20.7%
SOYBEAN	0	4,542	-100.0%	3,949,331	3,673,127	7.52%	10,769	40,748	-73.6%	30,783,290	29,214,297	5.4%
SOYBEAN MEAL	0	846	-100.0%	2,185,162	1,916,235	14.03%	1,333	5,226	-74.5%	16,724,754	16,091,087	3.9%
SOYBEAN OIL	0	491	-100.0%	2,456,517	2,175,470	12.92%	4,078	4,038	1.0%	19,017,583	16,867,941	12.7%
S&P GSCI ENHANCED ER SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SUGAR 11	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	10	-100.0%
USD CRUDE PALM OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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>												
WHEAT	0	0	0.0%	2,046	991	106.46%	0	0	0.0%	6,045	5,726	5.6%
<b>Ag Products Options</b>												
AUG-NOV SOYBEAN CAL SPR	0	-	-	75	-		0	-	-	77	-	-
BUTTER CS	0	200	-100.0%	1,391	2,077	-33.03%	212	3,915	-94.6%	24,976	22,151	12.8%
CASH-SETTLED CHEESE	0	724	-100.0%	13,619	7,948	71.35%	7,734	11,995	-35.5%	82,526	58,713	40.6%
CATTLE	0	11,414	-100.0%	192,165	120,718	59.19%	59,913	180,268	-66.8%	1,679,934	1,192,578	40.9%
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	89,966	-100.0%	697,563	522,512	33.50%	202,275	705,214	-71.3%	4,322,616	4,232,261	2.1%
CLASS IV MILK	0	119	-100.0%	1,773	3,440	-48.46%	1,082	3,217	-66.4%	40,415	25,719	57.1%
CORN	0	417,840	-100.0%	2,094,574	2,650,147	-20.96%	536,597	3,346,652	-84.0%	11,596,658	17,915,469	-35.3%
CORN NEARBY+2 CAL SPRD	0	8,506	-100.0%	8,941	0	0.00%	14,975	34,288	-56.3%	26,226	1,441	1,720.0%
DEC-DEC CORN CAL SPRD	0	1,496	-100.0%	175	0	0.00%	250	8,631	-97.1%	949	2,285	-58.5%
DEC-JULY CORN CAL SPRD	0	2,000	-100.0%	610	2	30,400.00%	175	17,406	-99.0%	1,661	24	6,820.8%
DEC-JULY WHEAT CAL SPRD	0	0	0.0%	510	0	0.00%	0	0	0.0%	510	0	0.0%
DRY WHEY	0	12	-100.0%	770	313	146.01%	119	704	-83.1%	4,117	5,803	-29.1%
FEEDER CATTLE	0	1,549	-100.0%	19,809	27,566	-28.14%	4,252	14,147	-69.9%	187,399	211,014	-11.2%
HDD EURO SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD SEASONAL STRIP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HDD WEATHER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOGS	0	24,398	-100.0%	217,447	405,274	-46.35%	34,430	239,025	-85.6%	2,019,396	2,392,590	-15.6%
HOUSING INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	7	-100.0%
Intercommodity Spread	0	0	0.0%	275	0	0.00%	7,987	1,000	698.7%	3,233	0	0.0%
JAN-MAR SOYBEAN CSO	0	-	-	10	-		0	-	-	10	-	-
JULY-DEC CORN CAL SPRD	0	693	-100.0%	0	0	0.00%	11,810	9,173	28.7%	5,125	1,100	365.9%
JULY-DEC SOYMEAL CAL SPR	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%	1,520	1,450	4.8%	2,136	0	0.0%
JULY-JULY WHEAT CAL SPRD	0	-	-	0	-		50	-	-	70	-	-
JULY-NOV SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	4,950	5,931	-16.5%	8,997	190	4,635.3%
KC WHEAT	0	35,691	-100.0%	116,105	58,441	98.67%	36,570	172,242	-78.8%	656,826	493,915	33.0%
LUMBER	0	0	0.0%	843	2,004	-57.93%	0	70	-100.0%	6,346	13,403	-52.7%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry JUL 2020	Open Outcry JUL 2019	% CHG	ELEC JUL 2020	ELEC JUL 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>												
LV CATL CSO	0	0	0.0%	0	0	0.00%	0	479	-100.0%	0	0	0.0%
MAR-DEC CORN CAL SPRD	0	-	-	0	-		505	-	-	0	-	-
MAR-JULY CORN CAL SPRD	0	20	-100.0%	0	0	0.00%	2,500	20	12,400.0%	0	0	0.0%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	30	-100.0%
MILK	0	1,443	-100.0%	49,965	39,160	27.59%	3,323	17,925	-81.5%	365,597	247,477	47.7%
MLK MID OPTIONS	0	8	-100.0%	31	13	138.46%	31	16	93.8%	86	194	-55.7%
NFD MILK	0	479	-100.0%	5,328	4,357	22.29%	494	1,246	-60.4%	51,785	43,980	17.7%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	250	-100.00%	0	750	-100.0%	0	2,500	-100.0%
NOV-MAR SOYBEAN CSO	0	0	0.0%	0	0	0.00%	100	20	400.0%	885	0	0.0%
NOV-NOV SOYBEAN CAL SPR	0	20	-100.0%	10	1,000	-99.00%	0	134	-100.0%	10	1,750	-99.4%
OATS	0	66	-100.0%	138	92	50.00%	720	2,119	-66.0%	1,076	1,714	-37.2%
ROUGH RICE	0	2,500	-100.0%	1,222	1,077	13.46%	6,492	9,829	-34.0%	12,455	6,078	104.9%
SEP-DEC SOYBEAN MEAL CSC	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SOYBEAN	0	132,231	-100.0%	1,475,927	978,380	50.85%	275,778	1,024,560	-73.1%	7,193,215	7,470,878	-3.7%
SOYBEAN CRUSH	0	0	0.0%	738	0	0.00%	830	4	20,650.0%	1,520	0	0.0%
SOYBEAN MEAL	0	27,339	-100.0%	232,213	135,858	70.92%	84,223	227,926	-63.0%	1,361,819	920,506	47.9%
SOYBEAN OIL	0	12,611	-100.0%	151,254	77,828	94.34%	106,072	124,682	-14.9%	1,078,252	633,585	70.2%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	70	0	0.00%	335	3,500	-90.4%	615	2,000	-69.3%
SOYMEAL NEARBY+2 CAL SPR	0	25	-100.0%	0	0	0.00%	200	490	-59.2%	0	0	0.0%
WHEAT	0	100	-100.0%	667	195	242.05%	16	4,916	-99.7%	4,047	2,316	74.7%
WHEAT-CORN ICSCO	0	100	-100.0%	1,608	0	0.00%	70	2,680	-97.4%	3,338	0	0.0%
WHEAT NEARBY+2 CAL SPRD	0	200	-100.0%	1,300	0	0.00%	1,251	2,240	-44.2%	4,431	200	2,115.5%
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	0	749,639	-100.0%	66,112,798	134,065,823	-50.7%	3,232,304	6,816,529	-52.6%	987,689,569	1,075,129,854	-8.1%
Equity Index Futures	0	4,447	-100.0%	101,034,028	51,264,776	97.1%	33,712	158,532	-78.7%	746,207,345	382,845,517	94.9%
Metals Futures	0	0	0.0%	14,217,799	14,298,357	-0.6%	0	0	0.0%	89,622,351	77,798,253	15.2%
Energy Futures	0	0	0.0%	31,606,698	40,963,261	-22.8%	0	0	0.0%	339,837,735	294,631,724	15.3%
FX Futures	0	13	-100.0%	15,755,860	14,085,566	11.9%	36	58	-37.9%	121,556,294	115,358,229	5.4%
Ags Futures	0	0	0.0%	5	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	29,534	-100.0%	21,884,673	22,340,324	-2.0%	52,661	316,461	-83.4%	166,645,589	181,540,386	-8.2%
<b>TOTAL FUTURES</b>	<b>0</b>	<b>783,633</b>	<b>-100.0%</b>	<b>250,611,861</b>	<b>277,018,107</b>	<b>-9.5%</b>	<b>3,318,713</b>	<b>7,291,580</b>	<b>-54.5%</b>	<b>2,451,558,973</b>	<b>2,127,303,963</b>	<b>15.2%</b>

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	0	627,135	-100.0%	12,552,802	10,472,091	19.9%	1,658,011	4,739,803	-65.0%	112,649,977	82,894,685	35.9%
Interest Rate Options	0	21,693,431	-100.0%	19,129,781	29,256,861	-34.6%	73,045,459	178,537,910	-59.1%	248,912,168	218,931,173	13.7%
Metals Options	0	0	0.0%	1,213,893	1,573,221	-22.8%	0	0	0.0%	9,266,802	8,558,071	8.3%
Energy Options	0	0	0.0%	2,271,641	3,327,009	-31.7%	0	0	0.0%	26,656,347	23,279,084	14.5%
FX Options	0	986	-100.0%	797,023	1,001,477	-20.4%	4,673	11,053	-57.7%	6,663,570	7,726,918	-13.8%
Ag Products Options	0	771,750	-100.0%	5,287,126	5,038,652	4.9%	1,407,841	6,178,864	-77.2%	30,749,334	35,901,871	-14.4%
Foreign Exchange Options	0	0	0.0%	290	553	-47.6%	0	0	0.0%	6,155	5,939	3.6%
<b>TOTAL OPTIONS</b>	<b>0</b>	<b>23,093,302</b>	<b>-100.0%</b>	<b>41,252,556</b>	<b>50,669,864</b>	<b>-18.6%</b>	<b>76,115,984</b>	<b>189,467,630</b>	<b>-59.8%</b>	<b>434,904,353</b>	<b>377,297,741</b>	<b>15.3%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	0	22,443,070	-100.0%	85,242,579	163,322,684	-47.8%	76,277,763	185,354,439	-58.8%	1,236,601,737	1,294,061,027	-4.4%
Equity Index	0	631,582	-100.0%	113,586,830	61,736,867	84.0%	1,691,723	4,898,335	-65.5%	858,857,322	465,740,202	84.4%
Metals	0	0	0.0%	15,431,692	15,871,578	-2.8%	0	0	0.0%	98,889,153	86,356,324	14.5%
Energy	0	0	0.0%	33,878,339	44,290,270	-23.5%	0	0	0.0%	366,494,082	317,910,808	15.3%
FX	0	999	-100.0%	16,552,883	15,087,043	9.7%	4,709	11,111	-57.6%	128,219,864	123,085,147	4.2%
Ags	0	0	0.0%	5	0	0.0%	0	0	0.0%	90	0	0.0%
Foreign Exchange	0	0	0.0%	290	553	-47.6%	0	0	0.0%	6,155	5,939	3.6%
Ag Products	0	801,284	-100.0%	27,171,799	27,378,976	-0.8%	1,460,502	6,495,325	-77.5%	197,394,923	217,442,257	-9.2%
<b>GRAND TOTAL</b>	<b>0</b>	<b>23,876,935</b>	<b>-100.0%</b>	<b>291,864,417</b>	<b>327,687,971</b>	<b>-10.9%</b>	<b>79,434,697</b>	<b>196,759,210</b>	<b>-59.6%</b>	<b>2,886,463,326</b>	<b>2,504,601,704</b>	<b>15.2%</b>

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