



## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Interest Rate Futures</b>												
10-YR NOTE	188,401	189,066	-0.4%	31,085,393	46,653,093	-33.37%	1,460,450	1,368,175	6.7%	364,781,703	363,899,674	0.2%
10-YR SWAP RATE	0	0	0.0%	39,030	13,654	185.85%	0	0	0.0%	412,857	392,435	5.2%
15-YR SWAP RATE	0	-	-	0	-	-	0	-	-	0	-	-
1-MONTH EURODOLLAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	404	31,342	-98.7%
20-YR SWAP RATE	0	-	-	0	-	-	0	-	-	46	-	-
2-YR NOTE	8,382	2,570	226.1%	11,309,083	9,184,164	23.14%	32,919	30,573	7.7%	135,201,133	98,447,204	37.3%
2-YR SWAP RATE	0	-	-	24,530	-	-	0	-	-	443,075	-	-
30-YR BOND	21,958	17,870	22.9%	6,532,472	10,159,400	-35.70%	201,286	208,043	-3.2%	71,938,943	73,850,539	-2.6%
30-YR SWAP RATE	0	0	0.0%	547	0	0.00%	0	0	0.0%	6,386	983	549.6%
3-YR SWAP RATE	0	-	-	7,712	-	-	0	-	-	157,784	-	-
4-YR SWAP RATE	0	-	-	2,347	-	-	0	-	-	90,256	-	-
5-YR NOTE	47,912	31,703	51.1%	17,697,003	24,528,161	-27.85%	455,535	336,142	35.5%	230,883,450	218,993,924	5.4%
5-YR SWAP RATE	0	0	0.0%	86,227	15,818	445.12%	0	0	0.0%	745,057	232,505	220.4%
7-YR SWAP RATE	0	-	-	3,736	-	-	0	-	-	37,591	-	-
EURODOLLARS	481,909	730,435	-34.0%	52,017,579	71,095,732	-26.83%	7,602,314	7,991,228	-4.9%	596,739,295	615,369,845	-3.0%
FED FUND	0	0	0.0%	8,127,583	6,296,855	29.07%	0	0	0.0%	79,476,108	51,256,705	55.1%
SOFR	0	0	0.0%	958,146	175,035	447.40%	0	0	0.0%	6,951,056	530,872	1,209.4%
SONIA	0	0	0.0%	188,719	61,399	207.36%	0	0	0.0%	1,806,989	61,399	2,843.0%
Ultra 10-Year Note	0	0	0.0%	3,785,606	3,976,041	-4.79%	0	0	0.0%	46,188,416	36,552,646	26.4%
ULTRA T-BOND	0	0	0.0%	2,526,798	3,772,188	-33.02%	66	230	-71.3%	36,490,932	34,749,719	5.0%
<b>Interest Rate Options</b>												
10-YR NOTE	3,219,957	3,433,142	-6.2%	13,195,139	16,250,094	-18.80%	25,010,148	23,046,362	8.5%	113,683,033	108,892,543	4.4%
2-YR NOTE	147,813	102,871	43.7%	506,993	282,107	79.72%	1,512,781	1,408,827	7.4%	3,617,380	3,710,118	-2.5%
30-YR BOND	275,415	407,128	-32.4%	3,019,419	4,661,968	-35.23%	3,211,991	3,198,577	0.4%	27,011,009	25,683,282	5.2%
5-YR NOTE	940,720	722,341	30.2%	4,280,951	2,889,566	48.15%	9,373,012	6,773,233	38.4%	37,419,703	25,670,479	45.8%
EURODOLLARS	11,417,928	10,492,464	8.8%	9,228,559	5,440,711	69.62%	139,706,316	91,787,967	52.2%	83,572,511	45,065,418	85.4%
EURO MIDCURVE	4,914,743	8,720,772	-43.6%	3,576,011	6,981,380	-48.78%	66,812,810	88,597,983	-24.6%	53,813,989	52,946,787	1.6%
FED FUND	4,425	0	0.0%	8,237	0	0.00%	56,510	1,750	3,129.1%	20,448	15,963	28.1%
Ultra 10-Year Note	12	40	-70.0%	0	0	0.00%	21,811	40	54,427.5%	5,328	28	18,928.6%
ULTRA T-BOND	18,993	5,609	238.6%	1,110	6,565	-83.09%	201,474	40,237	400.7%	15,110	27,082	-44.2%

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<b>Equity Index Futures</b>												
BITCOIN FUTURES	0	0	0.0%	93,413	57,057	63.72%	0	0	0.0%	1,388,748	717,151	93.6%
DJ US REAL ESTATE	0	0	0.0%	24,293	19,844	22.42%	0	0	0.0%	252,321	232,725	8.4%
E-mini (\$5) Dow	0	0	0.0%	3,918,512	7,074,702	-44.61%	0	0	0.0%	44,017,817	48,395,941	-9.0%
E-MINI COM SERVICES SELEC	0	0	0.0%	756	3,639	-79.23%	0	0	0.0%	25,486	3,795	571.6%
E-mini FTSE 100 (USD)	0	0	0.0%	0	1,827	-100.00%	0	0	0.0%	336	14,232	-97.6%
E-mini FTSE China 50	0	0	0.0%	0	986	-100.00%	0	0	0.0%	711	10,751	-93.4%
E-MINI MIDCAP	0	0	0.0%	267,955	513,243	-47.79%	0	0	0.0%	3,328,237	3,823,000	-12.9%
E-MINI NASDAQ 100	0	0	0.0%	9,455,055	16,619,934	-43.11%	0	0	0.0%	99,803,061	95,895,388	4.1%
E-MINI RUSSELL 1000	0	0	0.0%	2,646	13,246	-80.02%	0	0	0.0%	34,272	85,945	-60.1%
E-MINI RUSSELL 1000 GROWT	0	0	0.0%	1,593	10,957	-85.46%	0	0	0.0%	34,168	75,142	-54.5%
E-MINI RUSSELL 1000 VALUE	0	0	0.0%	3,513	13,709	-74.37%	0	0	0.0%	71,670	95,319	-24.8%
E-MINI RUSSELL 2000	0	0	0.0%	2,677,268	4,215,012	-36.48%	0	0	0.0%	30,583,547	29,049,179	5.3%
E-MINI S&P500	0	0	0.0%	30,842,923	52,871,230	-41.66%	0	0	0.0%	335,110,440	351,913,410	-4.8%
E-MINI S&P REAL ESTATE SEL	0	0	0.0%	9,787	5,501	77.91%	0	0	0.0%	36,931	34,564	6.8%
FT-SE 100	0	0	0.0%	0	1,390	-100.00%	0	0	0.0%	372	12,645	-97.1%
FTSE Emerging	0	0	0.0%	2,112	817	158.51%	0	0	0.0%	21,400	5,051	323.7%
IBOVESPA INDEX	0	0	0.0%	994	1,878	-47.07%	0	0	0.0%	6,936	11,339	-38.8%
MICRO E-MINI NASDAQ 100	0	-	-	4,776,826	-	-	0	-	-	25,468,538	-	-
MICRO E-MINI RUSSELL 2000	0	-	-	765,506	-	-	0	-	-	3,966,739	-	-
MICRO E-MINI S&P500	0	-	-	6,462,781	-	-	0	-	-	35,256,476	-	-
MICRO MINI \$5 DOW	0	-	-	1,201,652	-	-	0	-	-	6,475,576	-	-
NASDAQ BIOTECH	0	0	0.0%	371	0	0.00%	0	0	0.0%	3,547	0	0.0%
Nearby BTIC+	0	-	-	24	-	-	0	-	-	24	-	-
NIFTY 50	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	54,444	-100.0%
NIKKEI 225 (\$) STOCK	0	0	0.0%	197,004	401,080	-50.88%	0	0	0.0%	2,232,978	3,155,263	-29.2%
NIKKEI 225 (YEN) STOCK	0	0	0.0%	878,117	1,305,110	-32.72%	228	0	0.0%	8,281,168	8,968,346	-7.7%
S&P 500	5,474	16,580	-67.0%	1,745	4,446	-60.75%	221,012	410,620	-46.2%	16,310	45,778	-64.4%
S&P 500 ANNUAL DIVIDEND IN	0	0	0.0%	9,700	11,204	-13.42%	0	0	0.0%	94,501	46,483	103.3%
S&P 500/GI	0	0	0.0%	0	0	0.00%	0	0	0.0%	60	73	-17.8%
S&P 500 QUARLY DIVIDEND IN	0	0	0.0%	621	0	0.00%	0	0	0.0%	1,822	682	167.2%
S&P 600 SMALLCAP EMINI	0	0	0.0%	0	0	0.00%	0	0	0.0%	17	1	1,600.0%
S&P CONSUMER DSCRTRNY S	0	0	0.0%	4,528	37,850	-88.04%	0	0	0.0%	67,848	152,179	-55.4%
S&P CONSUMER STAPLES SE	0	0	0.0%	5,650	23,919	-76.38%	0	0	0.0%	104,645	144,612	-27.6%

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<b>Equity Index Futures</b>												
S&P ENERGY SECTOR	0	0	0.0%	7,937	35,247	-77.48%	0	0	0.0%	114,754	204,954	-44.0%
S&P FINANCIAL SECTOR	0	0	0.0%	12,000	57,343	-79.07%	0	0	0.0%	180,893	306,522	-41.0%
S&P HEALTH CARE SECTOR	0	0	0.0%	9,841	24,622	-60.03%	0	0	0.0%	111,002	139,881	-20.6%
S&P INDUSTRIAL SECTOR	0	0	0.0%	6,607	22,259	-70.32%	0	0	0.0%	80,686	132,255	-39.0%
S&P MATERIALS SECTOR	0	0	0.0%	4,342	17,589	-75.31%	0	0	0.0%	56,731	84,131	-32.6%
S&P TECHNOLOGY SECTOR	0	0	0.0%	8,353	92,542	-90.97%	0	0	0.0%	98,199	262,574	-62.6%
S&P UTILITIES SECTOR	0	0	0.0%	7,752	46,909	-83.47%	0	0	0.0%	158,674	248,975	-36.3%
S&P VALUE INDEX FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	72	80	-10.0%
YEN DENOMINATED TOPIX	0	0	0.0%	21,982	844	2,504.50%	0	0	0.0%	191,751	5,137	3,632.7%
<b>Equity Index Options</b>												
E-mini (\$5) Dow	0	0	0.0%	2,910	10,893	-73.29%	0	0	0.0%	42,376	97,684	-56.6%
E-MINI NASDAQ 100	0	0	0.0%	204,997	320,771	-36.09%	0	0	0.0%	2,099,246	2,433,924	-13.8%
E-MINI RUSSELL 2000	0	0	0.0%	21,801	16,701	30.54%	0	0	0.0%	154,424	132,143	16.9%
E-MINI S&P500	0	0	0.0%	6,028,328	7,343,010	-17.90%	600	14,660	-95.9%	55,070,793	58,454,468	-5.8%
EOM E-MINI RUSSELL 2000 EN	0	0	0.0%	6,445	7,063	-8.75%	0	0	0.0%	87,620	63,859	37.2%
EOM EMINI S&P	0	0	0.0%	1,886,967	3,963,261	-52.39%	0	0	0.0%	19,577,865	26,659,621	-26.6%
EOM S&P 500	75,688	163,092	-53.6%	0	0	0.00%	1,167,165	1,832,761	-36.3%	0	0	0.0%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	1,558	3,421	-54.46%	0	0	0.0%	15,521	20,919	-25.8%
EOW1 E-MINI RUSSELL 2000 W	0	0	0.0%	1,657	3,155	-47.48%	0	0	0.0%	19,670	26,123	-24.7%
EOW1 EMINI S&P 500	0	0	0.0%	1,259,786	1,565,202	-19.51%	0	0	0.0%	10,175,178	11,223,203	-9.3%
EOW1 S&P 500	104,205	108,076	-3.6%	0	0	0.00%	738,544	844,161	-12.5%	0	0	0.0%
EOW2 E-MINI RUSSELL 2000 W	0	0	0.0%	4,232	6,050	-30.05%	0	0	0.0%	50,996	49,985	2.0%
EOW2 EMINI S&P 500	0	0	0.0%	1,247,329	2,033,459	-38.66%	0	0	0.0%	10,282,507	13,018,274	-21.0%
EOW2 S&P 500	157,123	244,167	-35.6%	0	0	0.00%	1,294,691	1,587,865	-18.5%	0	0	0.0%
EOW3 E-MINI RUSSELL 2000 W	0	0	0.0%	34,711	19,322	79.64%	0	0	0.0%	152,099	193,526	-21.4%
EOW3 EMINI S&P 500	0	0	0.0%	3,337,079	6,329,971	-47.28%	0	0	0.0%	24,264,379	37,235,929	-34.8%
EOW3 S&P 500	170,528	244,449	-30.2%	0	0	0.00%	1,282,142	2,793,781	-54.1%	0	0	0.0%
EOW4 E-MINI RUSSELL 2000 W	0	0	0.0%	2,895	7,240	-60.01%	0	0	0.0%	32,966	53,258	-38.1%
EOW4 EMINI S&P 500	0	0	0.0%	818,169	1,865,379	-56.14%	0	0	0.0%	8,624,634	11,429,053	-24.5%
S&P 500	170,227	312,162	-45.5%	0	0	0.00%	2,310,947	3,036,519	-23.9%	0	0	0.0%

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<b>Metals Futures</b>												
ALUMINUM	0	0	0.0%	4,264	955	346.49%	0	0	0.0%	16,036	7,946	101.8%
COMEX COPPER	0	0	0.0%	1,662,813	2,603,469	-36.13%	0	0	0.0%	20,069,917	28,488,338	-29.6%
COMEX E-Mini GOLD	0	0	0.0%	26,356	11,250	134.28%	0	0	0.0%	202,992	82,303	146.6%
COMEX E-Mini SILVER	0	0	0.0%	3,663	936	291.35%	0	0	0.0%	45,047	11,507	291.5%
COMEX GOLD	0	0	0.0%	7,792,966	6,263,564	24.42%	0	0	0.0%	69,964,825	67,391,578	3.8%
COMEX MINY COPPER	0	0	0.0%	544	415	31.08%	0	0	0.0%	6,632	4,596	44.3%
COMEX SILVER	0	0	0.0%	1,773,607	1,746,359	1.56%	0	0	0.0%	19,816,496	19,817,548	0.0%
COPPER	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
E-MICRO GOLD	0	0	0.0%	812,994	246,996	229.15%	0	0	0.0%	4,502,875	1,483,874	203.5%
FERROUS PRODUCTS	0	0	0.0%	208	456	-54.39%	0	0	0.0%	4,581	818	460.0%
GOLD	0	0	0.0%	15,670	0	0.00%	0	0	0.0%	15,670	0	0.0%
Gold Kilo	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	136	-100.0%
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	8	-100.00%	0	0	0.0%	28	149	-81.2%
LNDN ZINC	0	0	0.0%	0	4,601	-100.00%	0	0	0.0%	1,230	10,544	-88.3%
NYMEX HOT ROLLED STEEL	0	0	0.0%	2,492	2,401	3.79%	0	0	0.0%	31,929	30,300	5.4%
NYMEX PLATINUM	0	0	0.0%	397,266	373,995	6.22%	0	0	0.0%	4,708,498	4,468,257	5.4%
PALLADIUM	0	0	0.0%	87,449	112,340	-22.16%	0	0	0.0%	1,018,233	1,161,127	-12.3%
SILVER	0	0	0.0%	40,222	9,494	323.66%	0	0	0.0%	272,128	77,342	251.9%
URANIUM	0	0	0.0%	0	173	-100.00%	0	0	0.0%	412	766	-46.2%

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<b>Metals Options</b>												
COMEX COPPER	0	0	0.0%	46,304	35,694	29.72%	0	0	0.0%	434,432	206,710	110.2%
COMEX GOLD	0	0	0.0%	851,594	1,013,201	-15.95%	0	0	0.0%	10,177,655	7,828,821	30.0%
COMEX SILVER	0	0	0.0%	158,753	121,120	31.07%	0	0	0.0%	1,688,188	1,283,915	31.5%
COPPER	0	0	0.0%	527	41	1,185.37%	0	0	0.0%	2,372	471	403.6%
GOLD	0	0	0.0%	160,068	59,977	166.88%	0	0	0.0%	1,280,158	411,708	210.9%
HOT ROLLED COIL STEEL CAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI CALL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
IRON ORE 62 CHINA TSI PUT O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX PLATINUM	0	0	0.0%	1,169	1,250	-6.48%	0	0	0.0%	14,345	18,597	-22.9%
PALLADIUM	0	0	0.0%	783	747	4.82%	0	0	0.0%	6,026	14,567	-58.6%
SILVER	0	0	0.0%	9,617	3,291	192.22%	0	0	0.0%	60,998	20,475	197.9%
<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	0	0.00%	0	0	0.0%	0	0	0.0%
AEP-DAYTON HUB OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ALGON CITY GATES NAT GAS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ALGONQUIN CITYGATES BASI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ANR LOUISIANA BASIS SWAP	-	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	30	-100.0%
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	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT FINANCIAL FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	2,260,402	2,222,370	1.71%	0	0	0.0%	21,620,249	17,513,713	23.4%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Energy Futures</b>												
CAISO SP15 EZGNHUB5 MW P	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CAISO SP15 EZGNHUB5 PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CANADIAN LIGHT SWEET OIL	0	0	0.0%	0	0	0.00%	0	0	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	75	-100.00%	0	0	0.0%	509	2,005	-74.6%
CHICAGO ULSD (PLATTS) SWA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CHICAGO ULSD PL VS HO SPR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CHICAGO UNL GAS PL VS RBO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIG BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CIG ROCKIES NG INDEX SWA	-	0	0.0%	-	0	0.00%	-	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	0	0.00%	0	0	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%
COLUMBIA GULF ONSHORE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CONWAY NATURAL GASOLINE	0	0	0.0%	0	5	-100.00%	0	0	0.0%	0	5	-100.0%
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%	144	32	350.0%
CRUDE OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	89	-100.0%
CRUDE OIL OUTRIGHTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	50	0	0.0%
CRUDE OIL PHY	0	0	0.0%	22,781,368	24,007,564	-5.11%	0	0	0.0%	248,273,975	251,528,141	-1.3%
CRUDE OIL SPRDS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
CRUDE OIL TRADE AT MARKE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DAILY PJM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DATED BRENT (PLATTS) DAILY	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
DATED TO FRONTLINE BRENT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DIESEL 10P BRG FOB RDM VS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
DIESEL 10PPM BARGES FOB B	-	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Energy Futures</b>												
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%	21,292	242	8,698.35%	0	0	0.0%	101,634	14,386	606.5%
DY EURO 3.5% FUEL OI RDA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EASTERN RAIL DELIVERY CSX	0	0	0.0%	0	0	0.00%	0	0	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%	0	0	0.0%
ELEC ERCOT DLY OFF PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC ERCOT DLY PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ELEC ERCOT OFF PEAK	0	0	0.0%	0	0	0.00%	0	0	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 ERCOT PEAK	-	0	0.0%	-	0	0.00%	-	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%
ELEC WEST POWER OFF-PEA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ELEC WEST POWER PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ERCOT DAILY 5MW PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ERCOT HOUSTON Z MCPE 5M	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ERCOT NORTH ZMCPE 5MW P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ETHANOL	0	0	0.0%	4,460	9,346	-52.28%	0	0	0.0%	73,067	88,926	-17.8%
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	0	0.00%	0	0	0.0%	0	0	0.0%
EURO GASOIL 10PPM VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL NWE CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 1% FUEL OIL RDAM C	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 3.5% FUEL OIL MED	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPE 3.5% FUEL OIL RDAM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Energy Futures</b>												
EUROPEAN GASOIL (ICE)	0	0	0.0%	140	1,354	-89.66%	0	0	0.0%	1,144	5,675	-79.8%
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%
FLORIDA GAS ZONE3 BASIS S	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
FREIGHT MARKETS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL CRACK VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL NWE CRACK VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL (PLATS) CAR CM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
FUEL OIL (PLATS) CAR CN	0	0	0.0%	0	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 0.1 CIF MED SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
GASOIL 0.1CIF MED VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CIF NWE VS ISE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 CIF VS ICE GAS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
GASOIL 0.1 RDAM BRGS VS I	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 0.1 ROTTERDAM BAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL 10P CRG CIF NW VS	-	0	0.0%	-	0	0.00%	-	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 BULLET SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
GASOIL CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL CRACK SPREAD CALE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GASOIL MINI CALENDAR SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GERMAN POWER BASELOAD	0	0	0.0%	1,440	0	0.00%	0	0	0.0%	23,142	3,102	646.0%
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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Energy Futures</b>												
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%	2	0	0.0%
GULF COAST ULSD CALEND	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GULF COAST ULSD CRACK SP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL BALMO CLNDR S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HEATING OIL CRCK SPRD BAL	0	-	-	0	-	-	0	-	-	0	-	-
HEATING OIL PHY	0	0	0.0%	4,695,641	3,772,259	24.48%	0	0	0.0%	33,226,763	36,656,073	-9.4%
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	522	-100.00%	0	0	0.0%	0	27,703	-100.0%
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	3,375	-100.00%	0	0	0.0%	122	59,584	-99.8%
HOUSTON SHIP CHANNEL BAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HTG OIL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HUSTN SHIP CHNL PIPE SWP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ICE BRENT DUBAI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ICE GASOIL BALMO SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
IN DELIVERY MONTH EUA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
INDIANA MISO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
INDONESIAN COAL	-	0	0.0%	-	0	0.00%	-	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	0	0.00%	0	0	0.0%	0	0	0.0%
ISO NEW ENGLAND PK LMP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JAPAN C&F NAPHTHA CRACK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JAPAN C&F NAPHTHA SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JAPAN NAPHTHA BALMO SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JET AV FUEL (P) CAR FM ICE G	0	0	0.0%	0	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 BRG FOB RDM VS I	-	0	0.0%	-	0	0.00%	-	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)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
LA CARB DIESEL (OPIS) SWA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Energy Futures</b>												
LA CARBOB GASOLINE(OPIS)S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
LA JET FUEL VS NYM NO 2 H	-	0	0.0%	-	0	0.00%	-	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	-	-
LTD NAT GAS	0	0	0.0%	148,434	251,258	-40.92%	0	0	0.0%	1,553,974	2,061,360	-24.6%
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	200	-100.00%	0	0	0.0%	480	575	-16.5%
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%	748	12	6,133.33%	0	0	0.0%	5,745	731	685.9%
MCCLOSKEY RCH BAY COAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	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%
MINY HTG OIL	0	0	0.0%	3	4	-25.00%	0	0	0.0%	32	40	-20.0%
MINY NATURAL GAS	0	0	0.0%	56,835	47,272	20.23%	0	0	0.0%	327,432	274,838	19.1%
MINY RBOB GAS	0	0	0.0%	3	4	-25.00%	0	0	0.0%	63	37	70.3%
MINY WTI CRUDE OIL	0	0	0.0%	457,072	469,979	-2.75%	0	0	0.0%	4,802,490	3,459,217	38.8%
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%	0	25	-100.00%	0	0	0.0%	112	209	-46.4%
MONT BELVIEU LDH PROPANE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NATURAL GAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MONT BELVIEU NORMAL BUTA	0	0	0.0%	0	0	0.00%	0	0	0.0%	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Energy Futures</b>												
NATURAL GAS	0	0	0.0%	35,749	44,545	-19.75%	0	0	0.0%	391,438	484,015	-19.1%
NATURAL GAS FIXED PRICE S	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NATURAL GAS INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
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%	10,665,091	11,979,420	-10.97%	0	0	0.0%	81,489,571	89,398,685	-8.8%
NEPOOL CNCTCT 5MW D AH O	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL CONECTIC 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	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	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL RHODE IL 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL W CNT MASS 5MW D	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEPOOL W CNTR M 5MW D AH	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW ENGLAND HUB PEAK DAI	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK ETHANOL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE G PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NEW YORK HUB ZONE J PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NGPL MID-CONTINENT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NGPL TEX/OK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
N ILLINOIS HUB DAILY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
N ILLINOIS HUB MTHLY	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NO 2 UP-DOWN SPREAD CALE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHERN NATURAL GAS DEM	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHERN NATURAL GAS VEN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NORTHERN ILLINOIS OFF-PEA	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NORTHWEST ROCKIES BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
N ROCKIES PIPE SWAP	0	0	0.0%	0	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 2.2% FUEL OIL (PLATTS	-	0	0.0%	-	0	0.00%	-	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%	19	67	-71.6%
NY HARBOR LOW SULPUR GA	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 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Energy Futures</b>												
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	-	-
NYH NO 2 CRACK SPREAD CA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO A	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO A OFF-PEAK	-	0	0.0%	-	0	0.00%	-	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 G	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO G OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO J	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO J OFF-PEAK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE A 5MW D AH O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE A 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE C 5MW D AH O P	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO ZONE C 5MW D AH PK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NYISO ZONE G 5MW D AH O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE G 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH O P	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYISO ZONE J 5MW D AH PK	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX ALUMINUM FUTURES	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX ULSD VS NYMEX HO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
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	0	0.00%	0	0	0.0%	0	0	0.0%
PERMIAN BASIS SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETROCHEMICALS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS ASIA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO CRCKS & SPRDS NA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETRO CRK&SPRD EURO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETROLEUM PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Energy Futures</b>												
PJM AD HUB 5MW REAL TIME	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM AECO DA OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM AECO DA PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM APS ZONE DA OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM APS ZONE DA PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM ATSI ELEC	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PJM BGE DA OFF-PEAK	0	0	0.0%	0	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 JCPL DA OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM JCPL DA PEAK	-	0	0.0%	-	0	0.00%	-	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	-	-
PJM PPL DA OFF-PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PJM PPL DA PEAK	-	0	0.0%	-	0	0.00%	-	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%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Energy Futures</b>												
PROPANE NON-LDH MB (OPIS)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PROPANE NON-LDH MT. BEL (	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CRACK SPREAD	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
RBOB CRACK SPREAD BALMO	0	0	0.0%	0	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%	3,650,096	4,415,113	-17.33%	0	0	0.0%	40,369,350	40,089,072	0.7%
RBOB SPREAD (PLATTS) SWA	0	0	0.0%	0	0	0.00%	0	0	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	2	-100.0%
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	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE MOGAS 92 UNLEA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	2	-100.0%
SINGAPORE NAPHTHA SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SING FUEL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SOCAL PIPE SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SONAT BASIS SWAP FUTURE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SOUTH STAR TEX OKLHM KNS	0	0	0.0%	0	0	0.00%	0	0	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%
SUMAS NAT GAS PLATTS FIXE	-	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 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Energy Futures</b>												
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%
TCO NG INDEX SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TD3 MEG TO JAPAN 250K MT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TENNESSEE 500 LEG BASIS S	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TENNESSEE 800 LEG NG BASI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
TENNESSEE ZONE 0 BASIS S	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TETCO M-3 INDEX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
Tetco STX Basis	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TEXAS EASTERN ZONE M-3 BA	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TEXAS GAS ZONE1 NG BASIS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
Transco Zone 3 Basis	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
TRANSCO ZONE 3 NG INDEX S	-	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 4 NAT GAS IN	-	0	0.0%	-	0	0.00%	-	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%
TRANSCO ZONE 6 INDEX	-	0	0.0%	-	0	0.00%	-	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%	365	327	11.62%	0	0	0.0%	6,044	46,231	-86.9%
ULSD 10PPM CIF MED SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ULSD 10PPM CIF MED VS ICE	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ULSD 10PPM CIF NW BALMO S	-	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%
WAHA INDEX SWAP FUTURE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
WESTERN RAIL DELIVERY PR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTI-BRENT CALENDAR SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	6	-100.0%
WTI CALENDAR	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTS (ARGUS) VS WTI SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
WTS (ARGUS) VS WTI TRD MT	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Energy Options</b>												
12 MO GASOIL CAL SWAP SPR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRENT 1 MONTH CAL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT CALENDAR SWAP	0	0	0.0%	0	12	-100.00%	0	0	0.0%	0	12	-100.0%
BRENT CRUDE OIL 12 M CSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT CRUDE OIL 1 M CSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	1,800	2,900	-37.9%
BRENT CRUDE OIL 6 M CSO	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
BRENT OIL LAST DAY	0	0	0.0%	58,860	127,284	-53.76%	0	0	0.0%	626,116	677,713	-7.6%
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	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%
CRUDE OIL	0	-	-	0	-	-	0	-	-	0	-	-
CRUDE OIL 1MO	0	0	0.0%	7,926	26,520	-70.11%	0	0	0.0%	87,887	151,755	-42.1%
CRUDE OIL APO	0	0	0.0%	0	0	0.00%	0	0	0.0%	3	331	-99.1%
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%	2,173,159	3,467,867	-37.33%	0	0	0.0%	23,982,760	29,718,232	-19.3%
ELEC MISO PEAK	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
ETHANOL	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
ETHANOL SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EUROPEAN JET KEROSENE N	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
FREIGHT MARKETS	0	-	-	0	-	-	0	-	-	0	-	-
GASOLINE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HEATING OIL CRACK OPTIONS	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HEATING OIL CRK SPD AVG P	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HEATING OIL PHY	0	0	0.0%	4,630	4,467	3.65%	0	0	0.0%	44,696	51,007	-12.4%
HENRY HUB FINANCIAL LAST	0	0	0.0%	48	0	0.00%	0	0	0.0%	94	5	1,780.0%
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	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NATURAL GAS 1 M CSO FIN	0	0	0.0%	8,951	750	1,093.47%	0	0	0.0%	28,473	2,379	1,096.8%
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%	0	1	-100.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Energy Options</b>												
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 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%	1,446,969	1,930,567	-25.05%	0	0	0.0%	9,968,300	13,002,411	-23.3%
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%	24	62	-61.29%	0	0	0.0%	420	558	-24.7%
NYISO ZONE G 5MW PEAK OP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
NYMEX EUROPEAN GASOIL A	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
PANHANDLE PIPE SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
PETROCHEMICALS	0	0	0.0%	3	0	0.00%	0	0	0.0%	24	23	4.3%
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	2	-100.00%	0	0	0.0%	0	2	-100.0%
RBOB PHY	0	0	0.0%	2,061	2,574	-19.93%	0	0	0.0%	34,991	33,761	3.6%
ROTTERDAM 3.5%FUEL OIL CL	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%
SHORT TERM	0	0	0.0%	0	0	0.00%	0	0	0.0%	43	996	-95.7%
SHORT TERM NATURAL GAS	0	0	0.0%	0	160	-100.00%	0	0	0.0%	84	1,005	-91.6%
SINGAPORE GASOIL CALEND A	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SINGAPORE JET FUEL CALEN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
SOCAL PIPE SWAP	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
WTI-BRENT BULLET SWAP	0	0	0.0%	6,000	7,270	-17.47%	0	0	0.0%	37,705	146,035	-74.2%
WTI CRUDE OIL 1 M CSO FI	0	0	0.0%	0	0	0.00%	0	0	0.0%	8,600	15,050	-42.9%
<b>FX Futures</b>												
AD/CD CROSS RATES	0	0	0.0%	9	0	0.00%	0	0	0.0%	142	53	167.9%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>FX Futures</b>												
AD/JY CROSS RATES	0	0	0.0%	2,074	3,143	-34.01%	0	0	0.0%	26,683	42,431	-37.1%
AD/NE CROSS RATES	0	0	0.0%	182	34	435.29%	0	0	0.0%	1,466	733	100.0%
AUSTRALIAN DOLLAR	0	0	0.0%	2,068,502	2,223,140	-6.96%	0	0	0.0%	21,066,387	23,544,616	-10.5%
BDI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BP/JY CROSS RATES	0	0	0.0%	3,115	2,619	18.94%	0	0	0.0%	31,564	30,710	2.8%
BP/SF CROSS RATES	0	0	0.0%	349	327	6.73%	0	0	0.0%	4,063	3,681	10.4%
BRAZIL REAL	0	0	0.0%	170,987	135,413	26.27%	0	0	0.0%	1,314,879	1,024,057	28.4%
BRITISH POUND	0	0	0.0%	3,393,507	2,399,070	41.45%	3	10	-70.0%	25,450,147	26,903,347	-5.4%
CANADIAN DOLLAR	0	4	-100.0%	1,877,364	1,665,256	12.74%	3	45	-93.3%	16,654,120	17,410,691	-4.3%
CD/JY CROSS RATES	0	0	0.0%	4	100	-96.00%	0	0	0.0%	131	949	-86.2%
CHINESE RENMINBI (CNH)	0	0	0.0%	28,190	18,250	54.47%	0	0	0.0%	282,996	77,644	264.5%
CZECK KORUNA (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	30	6	400.0%
CZECK KORUNA (US)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	15	-100.0%
EC/AD CROSS RATES	0	0	0.0%	3,288	1,144	187.41%	0	0	0.0%	45,940	19,760	132.5%
EC/CD CROSS RATES	0	0	0.0%	1,862	1,221	52.50%	0	0	0.0%	31,962	32,331	-1.1%
EC/NOK CROSS RATES	0	0	0.0%	801	235	240.85%	0	0	0.0%	5,223	3,992	30.8%
EC/SEK CROSS RATES	0	0	0.0%	305	137	122.63%	0	0	0.0%	6,610	7,980	-17.2%
EFX/BP CROSS RATES	0	0	0.0%	118,190	61,013	93.71%	0	0	0.0%	966,871	812,429	19.0%
EFX/JY CROSS RATES	0	0	0.0%	66,602	63,757	4.46%	0	0	0.0%	685,055	802,975	-14.7%
EFX/SF CROSS RATES	0	0	0.0%	27,910	26,945	3.58%	0	0	0.0%	348,491	294,471	18.3%
E-MICRO AUD/USD	0	0	0.0%	90,026	110,881	-18.81%	0	0	0.0%	1,051,265	1,078,769	-2.5%
E-MICRO CAD/USD	0	0	0.0%	17,886	14,438	23.88%	0	0	0.0%	172,232	173,848	-0.9%
E-MICRO CHF/USD	0	0	0.0%	5,053	1,493	238.45%	0	0	0.0%	30,913	14,786	109.1%
E-MICRO EUR/USD	0	0	0.0%	187,914	347,754	-45.96%	0	0	0.0%	2,347,180	3,712,638	-36.8%
E-MICRO GBP/USD	0	0	0.0%	131,981	27,588	378.40%	0	0	0.0%	528,900	455,857	16.0%
E-MICRO INR/USD	0	0	0.0%	4,361	7,832	-44.32%	0	0	0.0%	49,363	48,684	1.4%
E-MICRO JPY/USD	0	0	0.0%	24,546	31,270	-21.50%	0	0	0.0%	286,883	306,829	-6.5%
E-MINI EURO FX	0	0	0.0%	73,328	95,771	-23.43%	0	0	0.0%	954,581	1,036,634	-7.9%
E-MINI JAPANESE YEN	0	0	0.0%	21,976	14,583	50.70%	0	0	0.0%	173,402	131,605	31.8%
EURO FX	0	4	-100.0%	3,888,649	5,388,849	-27.84%	60	542	-88.9%	43,505,929	58,297,759	-25.4%
HUNGARIAN FORINT (EC)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HUNGARIAN FORINT (US)	0	0	0.0%	3	0	0.00%	0	0	0.0%	12	0	0.0%
INDIAN RUPEE	0	0	0.0%	35,772	126,243	-71.66%	0	0	0.0%	688,435	911,458	-24.5%
JAPANESE YEN	0	3	-100.0%	2,559,512	3,602,935	-28.96%	2	107	-98.1%	27,132,323	30,737,710	-11.7%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>FX Futures</b>												
KOREAN WON	0	0	0.0%	310	307	0.98%	0	0	0.0%	3,041	2,400	26.7%
MEXICAN PESO	0	0	0.0%	1,156,228	1,507,449	-23.30%	0	0	0.0%	12,629,664	14,160,747	-10.8%
NEW ZEALND DOLLAR	0	0	0.0%	511,141	506,551	0.91%	0	0	0.0%	5,737,829	6,273,084	-8.5%
NKR/USD CROSS RATE	0	0	0.0%	4,026	7,320	-45.00%	0	0	0.0%	47,438	49,873	-4.9%
POLISH ZLOTY (EC)	0	0	0.0%	12	12	0.00%	0	0	0.0%	452	186	143.0%
POLISH ZLOTY (US)	0	0	0.0%	165	110	50.00%	0	0	0.0%	1,105	880	25.6%
RMB USD	0	0	0.0%	1	2	-50.00%	0	0	0.0%	8	25	-68.0%
RUSSIAN RUBLE	0	0	0.0%	47,792	39,008	22.52%	0	0	0.0%	723,793	526,376	37.5%
S.AFRICAN RAND	0	0	0.0%	69,478	35,253	97.08%	0	0	0.0%	524,170	459,836	14.0%
SF/JY CROSS RATES	0	0	0.0%	14	0	0.00%	0	0	0.0%	25	7	257.1%
SHEKEL	0	0	0.0%	13	0	0.00%	0	0	0.0%	13	0	0.0%
SKR/USD CROSS RATES	0	0	0.0%	2,688	7,061	-61.93%	0	0	0.0%	27,181	45,465	-40.2%
SWISS FRANC	0	0	0.0%	644,835	558,511	15.46%	0	0	0.0%	5,781,239	5,998,906	-3.6%
TURKISH LIRA	0	0	0.0%	2	0	0.00%	0	0	0.0%	70	10	600.0%
USDZAR	0	0	0.0%	0	10	-100.00%	0	0	0.0%	20	15	33.3%
<b>FX Options</b>												
AUD/USD MONTHLY OPTIONS	0	0	0.0%	89,994	85,323	5.47%	0	600	-100.0%	703,497	822,796	-14.5%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	6,746	11,211	-39.83%	0	0	0.0%	21,362	42,126	-49.3%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	5,220	6,983	-25.25%	0	0	0.0%	58,639	68,111	-13.9%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	9,481	8,302	14.20%	0	0	0.0%	65,496	97,641	-32.9%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	6,603	9,003	-26.66%	0	0	0.0%	67,024	104,192	-35.7%
AUD/USD WKLY FRIDAY OPTIC	0	0	0.0%	505	655	-22.90%	0	0	0.0%	16,540	25,841	-36.0%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,338	919	45.59%	0	0	0.0%	16,912	27,921	-39.4%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,102	2,646	-58.35%	0	0	0.0%	17,241	23,771	-27.5%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,026	797	28.73%	0	0	0.0%	8,138	12,808	-36.5%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,478	2,598	-43.11%	0	0	0.0%	13,265	21,874	-39.4%
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,363	1,421	-4.08%	0	0	0.0%	5,187	8,973	-42.2%
AUSTRALIAN DLR (EU)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
AUSTRALIAN DOLLAR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRITISH POUND	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BRITISH POUND (EU)	0	0	0.0%	0	2	-100.00%	0	0	0.0%	0	277	-100.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>FX Options</b>												
BRL/USD MONTHLY OPTIONS	0	-	-	332	-		0	-	-	728	-	-
CAD/USD MONTHLY OPTIONS	160	605	-73.6%	56,791	76,130	-25.40%	1,069	2,706	-60.5%	523,486	858,264	-39.0%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	8,559	17,296	-50.51%	0	0	0.0%	35,572	62,814	-43.4%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	3,921	10,163	-61.42%	0	0	0.0%	65,338	125,274	-47.8%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	10,314	17,921	-42.45%	0	0	0.0%	94,067	176,530	-46.7%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	10,298	22,760	-54.75%	0	0	0.0%	98,983	166,413	-40.5%
CAD/USD WKLY FRIDAY OPTIC	0	0	0.0%	799	305	161.97%	0	0	0.0%	24,364	52,721	-53.8%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	3,650	2,701	35.14%	0	0	0.0%	29,126	33,997	-14.3%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,783	3,356	-17.07%	0	0	0.0%	32,731	35,464	-7.7%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,337	5,140	-54.53%	0	0	0.0%	30,018	40,500	-25.9%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	2,745	6,618	-58.52%	0	0	0.0%	26,674	39,526	-32.5%
CAD/USD WKLY WED OPTIONS	0	0	0.0%	3,331	4,806	-30.69%	0	0	0.0%	10,464	20,940	-50.0%
CANADIAN DOLLAR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CANADIAN DOLLAR (EU)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	63	-100.0%
CHF/USD MONTHLY OPTIONS	0	0	0.0%	4,819	2,590	86.06%	0	0	0.0%	25,251	24,457	3.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	19	151	-87.42%	0	0	0.0%	186	222	-16.2%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	301	5	5,920.00%	0	0	0.0%	2,357	756	211.8%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	117	12	875.00%	0	0	0.0%	1,765	919	92.1%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	484	62	680.65%	0	0	0.0%	1,477	1,801	-18.0%
CHF/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	0	0.00%	0	0	0.0%	613	712	-13.9%
EUR/GBP MONTHLY OPTIONS	0	-	-	0	-		0	-	-	74	-	-
EUR/JPY MONTHLY OPTIONS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
EURO FX	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
EURO FX (EU)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	59	-100.0%
EUR/USD MONTHLY OPTIONS	233	580	-59.8%	265,389	422,301	-37.16%	9,237	10,897	-15.2%	3,613,680	5,160,474	-30.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	23,039	39,646	-41.89%	0	80	-100.0%	109,129	266,290	-59.0%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	14,090	30,935	-54.45%	0	0	0.0%	261,522	328,520	-20.4%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	27,726	51,777	-46.45%	0	1,800	-100.0%	302,360	496,229	-39.1%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	22,416	46,745	-52.05%	0	750	-100.0%	345,579	514,991	-32.9%
EUR/USD WKLY FRIDAY OPTIC	0	0	0.0%	1,342	594	125.93%	0	0	0.0%	81,591	124,218	-34.3%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	7,050	9,508	-25.85%	0	0	0.0%	127,685	127,660	0.0%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	7,480	13,456	-44.41%	0	0	0.0%	125,123	119,455	4.7%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	11,223	12,459	-9.92%	0	0	0.0%	127,155	119,057	6.8%
EUR/USD WKLY WED OPTIONS	0	0	0.0%	17,744	15,416	15.10%	0	0	0.0%	140,691	139,355	1.0%

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>FX Options</b>												
EUR/USD WKLY WED OPTIONS	0	0	0.0%	9,230	18,190	-49.26%	0	0	0.0%	39,185	66,146	-40.8%
GBP/USD MONTHLY OPTIONS	34	20	70.0%	164,342	221,914	-25.94%	906	622	45.7%	1,251,876	1,772,094	-29.4%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	6,048	14,134	-57.21%	0	0	0.0%	29,980	67,442	-55.5%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	6,991	16,329	-57.19%	16	0	0.0%	63,023	127,078	-50.4%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	28,044	20,075	39.70%	0	30	-100.0%	91,295	190,211	-52.0%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	25,437	22,361	13.76%	0	0	0.0%	85,614	203,254	-57.9%
GBP/USD WKLY FRIDAY OPTIC	0	0	0.0%	437	679	-35.64%	0	0	0.0%	25,750	44,394	-42.0%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,762	3,814	-53.80%	0	0	0.0%	22,287	33,881	-34.2%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,994	3,537	-43.62%	0	0	0.0%	23,963	37,639	-36.3%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	2,189	9,413	-76.74%	0	0	0.0%	25,843	46,247	-44.1%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	2,502	9,958	-74.87%	0	0	0.0%	23,375	44,303	-47.2%
GBP/USD WKLY WED OPTIONS	0	0	0.0%	1,238	15,707	-92.12%	0	0	0.0%	8,595	33,084	-74.0%
JAPANESE YEN	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JAPANESE YEN (EU)	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
JPY/USD MONTHLY OPTIONS	14	27	-48.1%	131,352	173,301	-24.21%	207	4,465	-95.4%	1,402,789	1,666,260	-15.8%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	11,250	21,615	-47.95%	0	0	0.0%	55,753	87,999	-36.6%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	5,721	20,898	-72.62%	0	0	0.0%	95,865	153,748	-37.6%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	13,403	20,190	-33.62%	0	0	0.0%	145,050	208,047	-30.3%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	8,781	27,350	-67.89%	0	0	0.0%	137,504	225,610	-39.1%
JPY/USD WKLY FRIDAY OPTIO	0	0	0.0%	1,858	1,337	38.97%	0	0	0.0%	48,140	48,558	-0.9%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,964	7,812	-49.26%	0	0	0.0%	46,030	43,492	5.8%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	4,869	11,020	-55.82%	0	0	0.0%	42,956	46,590	-7.8%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	6,832	7,162	-4.61%	0	0	0.0%	43,285	36,598	18.3%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	3,808	4,917	-22.55%	0	0	0.0%	42,964	48,264	-11.0%
JPY/USD WKLY WED OPTIONS	0	0	0.0%	2,914	8,950	-67.44%	0	0	0.0%	10,637	22,991	-53.7%
MXN/USD MONTHLY OPTIONS	70	430	-83.7%	1,307	1,459	-10.42%	970	5,718	-83.0%	13,592	14,234	-4.5%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	1,200	0	0.00%	0	0	0.0%	1,200	0	0.0%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	99	0	0.00%	0	0	0.0%	528	205	157.6%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	238	-100.00%	0	0	0.0%	1,103	286	285.7%
MXN/USD WKLY FRIDAY OPTI	0	0	0.0%	0	372	-100.00%	0	0	0.0%	329	632	-47.9%
MXN/USD WKLY FRIDAY OPTI	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
NZD/USD MONTHLY OPTIONS	0	0	0.0%	1,474	15	9,726.67%	0	0	0.0%	6,449	15	42,893.3%
NZD/USD WKLY FRIDAY OPTIO	0	0	0.0%	0	1	-100.00%	0	0	0.0%	0	1	-100.0%
NZD/USD WKLY FRIDAY OPTIO	0	-	-	0	-		0	-	-	120	-	-

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## CME Group Exchange Volume Comparison Report - Monthly

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<b>FX Options</b>												
NZD/USD WKLY FRIDAY OPTIO	0	-	-	100	-		0	-	-	306	-	-
NZD/USD WKLY FRIDAY OPTIO	0	-	-	150	-		0	-	-	150	-	-
NZD/USD WKLY FRIDAY OPTIO	0	-	-	100	-		0	-	-	100	-	-
SWISS FRANC	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
SWISS FRANC (EU)	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
<b>Ags Futures</b>												
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
<b>Foreign Exchange Futures</b>												
CHILEAN PESO	0	0	0.0%	0	967	-100.00%	0	0	0.0%	0	12,808	-100.0%
<b>Foreign Exchange Options</b>												
AUD/USD WKLY WED OPTIONS	0	0	0.0%	1,697	1,274	33.20%	0	0	0.0%	8,760	9,202	-4.8%
<b>Ag Products Futures</b>												
BUTTER CS	0	0	0.0%	6,461	4,817	34.13%	0	0	0.0%	42,707	42,561	0.3%
CASH-SETTLED CHEESE	0	0	0.0%	9,306	17,814	-47.76%	0	0	0.0%	108,518	107,020	1.4%
CATTLE	614	978	-37.2%	1,151,809	1,395,250	-17.45%	11,562	12,843	-10.0%	14,226,650	13,828,009	2.9%
CAT WEATHER EUROPEAN	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%	25	0	0.0%
CHI WHEAT	5,445	10,796	-49.6%	1,934,351	2,383,467	-18.84%	66,577	140,716	-52.7%	25,797,196	31,867,275	-19.0%
CLASS IV MILK	0	0	0.0%	1,549	1,030	50.39%	158	0	0.0%	23,072	6,291	266.7%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Ag Products Futures</b>												
COCOA TAS	0	0	0.0%	0	0	0.00%	0	0	0.0%	8	5	60.0%
COFFEE	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
CORN	18,691	24,582	-24.0%	5,869,078	6,340,191	-7.43%	235,927	335,940	-29.8%	88,314,113	80,285,994	10.0%
COTTON	0	0	0.0%	2	7	-71.43%	0	0	0.0%	38	20	90.0%
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%	23,359	62,419	-62.58%	0	0	0.0%	460,362	780,597	-41.0%
DRY WHEY	0	0	0.0%	1,394	2,671	-47.81%	0	0	0.0%	12,325	14,350	-14.1%
FEEDER CATTLE	0	0	0.0%	281,320	331,588	-15.16%	178	17	947.1%	3,128,470	3,070,855	1.9%
FERTILIZER PRODUCTS	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
GOLDMAN SACHS	0	0	0.0%	27,686	31,766	-12.84%	0	0	0.0%	282,700	312,122	-9.4%
GSCI EXCESS RETURN FUT	0	0	0.0%	0	0	0.00%	0	0	0.0%	334	616	-45.8%
HDD EURO SEASONAL STRIP	-	0	0.0%	-	0	0.00%	-	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	55	-100.0%
HDD WEATHER EUROPEAN	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
HOGS	634	2,546	-75.1%	1,237,677	1,138,057	8.75%	15,769	15,779	-0.1%	13,461,962	11,500,911	17.1%
HOUSING INDEX	0	0	0.0%	19	22	-13.64%	0	0	0.0%	128	89	43.8%
Intercommodity Spread	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
KC WHEAT	492	1,170	-57.9%	1,106,528	982,013	12.68%	8,818	12,120	-27.2%	12,595,817	12,986,232	-3.0%
LUMBER	0	0	0.0%	14,402	20,494	-29.73%	0	0	0.0%	137,666	188,561	-27.0%
MALAYSIAN PALM SWAP	0	0	0.0%	0	0	0.00%	0	0	0.0%	0	0	0.0%
MILK	40	57	-29.8%	35,090	35,846	-2.11%	302	1,239	-75.6%	268,104	240,795	11.3%
MINI CORN	0	0	0.0%	12,968	8,867	46.25%	0	0	0.0%	148,672	100,702	47.6%
MINI SOYBEAN	0	0	0.0%	28,574	24,998	14.31%	0	0	0.0%	190,587	228,474	-16.6%
MINI WHEAT	0	0	0.0%	7,408	7,124	3.99%	0	0	0.0%	78,078	79,006	-1.2%
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%	4,799	3,892	23.30%	19	43	-55.8%	61,489	49,898	23.2%
OATS	0	0	0.0%	11,343	17,025	-33.37%	0	40	-100.0%	125,863	137,414	-8.4%
ROUGH RICE	0	0	0.0%	28,493	28,457	0.13%	31	26	19.2%	204,646	190,512	7.4%
SOYBEAN	9,103	19,623	-53.6%	6,585,231	5,535,223	18.97%	60,911	157,751	-61.4%	42,707,054	48,448,242	-11.9%
SOYBEAN MEAL	2,569	997	157.7%	2,296,841	2,549,889	-9.92%	10,429	34,988	-70.2%	22,591,126	26,344,558	-14.2%
SOYBEAN OIL	2,391	1,858	28.7%	2,719,297	2,264,162	20.10%	7,067	15,485	-54.4%	24,668,426	25,070,142	-1.6%
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%	10	58	-82.8%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Ag Products Futures</b>												
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%	661	0	0.00%	0	0	0.0%	7,873	22	35,686.4%
<b>Ag Products Options</b>												
AUG-NOV SOYBEAN CAL SPR	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
BUTTER CS	24	202	-88.1%	2,240	2,792	-19.77%	4,488	10,516	-57.3%	27,143	29,824	-9.0%
CASH-SETTLED CHEESE	1,154	6,854	-83.2%	7,998	6,172	29.59%	16,165	29,136	-44.5%	79,881	72,268	10.5%
CATTLE	26,598	18,143	46.6%	209,719	156,623	33.90%	257,575	265,292	-2.9%	1,793,385	2,067,267	-13.2%
CAT WEATHER EUROPEAN	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	0.00%	-	0	0.0%	-	0	0.0%
CHI WHEAT	71,152	130,209	-45.4%	396,769	588,401	-32.57%	929,024	1,838,286	-49.5%	5,468,274	6,471,434	-15.5%
CLASS IV MILK	73	32	128.1%	1,756	649	170.57%	3,605	781	361.6%	32,622	10,200	219.8%
CORN	293,885	337,642	-13.0%	1,944,266	1,097,834	77.10%	4,351,703	5,680,047	-23.4%	24,264,526	16,853,789	44.0%
CORN NEARBY+2 CAL SPRD	22,345	3,720	500.7%	430	0	0.00%	70,938	25,988	173.0%	3,321	100	3,221.0%
DEC-DEC CORN CAL SPRD	1,588	2,500	-36.5%	2,013	33	6,000.00%	14,047	18,242	-23.0%	4,390	33	13,203.0%
DEC-JULY CORN CAL SPRD	1,449	500	189.8%	0	0	0.00%	21,002	16,424	27.9%	146	0	0.0%
DEC-JULY WHEAT CAL SPRD	50	0	0.0%	1	0	0.00%	50	1,694	-97.0%	1	0	0.0%
DRY WHEY	12	0	0.0%	505	567	-10.93%	747	1,355	-44.9%	7,060	5,128	37.7%
FEEDER CATTLE	832	989	-15.9%	21,503	25,081	-14.27%	19,853	18,767	5.8%	283,624	274,947	3.2%
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%
HDD WEATHER EUROPEAN	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
HOGS	19,171	28,671	-33.1%	314,173	239,534	31.16%	301,961	270,515	11.6%	3,362,452	2,110,222	59.3%
HOUSING INDEX	0	0	0.0%	0	0	0.00%	0	0	0.0%	7	0	0.0%
Intercommodity Spread	119	499	-76.2%	0	0	0.00%	1,119	10,318	-89.2%	0	0	0.0%
JAN-MAY SOYBEAN CAL SPRD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JULY-DEC CORN CAL SPRD	4,205	30	13,916.7%	1	0	0.00%	13,632	10,176	34.0%	1,152	100	1,052.0%
JULY-DEC SOYMEAL CAL SPR	0	0	0.0%	0	0	0.00%	0	1,200	-100.0%	0	0	0.0%
JULY-DEC SOY OIL CAL SPRD	-	0	0.0%	-	0	0.00%	-	0	0.0%	-	0	0.0%
JULY-DEC WHEAT CAL SPRD	50	0	0.0%	0	0	0.00%	1,500	1,965	-23.7%	0	455	-100.0%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>Ag Products Options</b>												
JULY-NOV SOYBEAN CAL SPR	276	2,360	-88.3%	1,330	0	0.00%	6,207	55,603	-88.8%	1,620	2,598	-37.6%
KC WHEAT	11,870	12,026	-1.3%	72,316	27,366	164.25%	216,911	329,653	-34.2%	710,061	552,008	28.6%
LUMBER	0	0	0.0%	1,383	2,357	-41.32%	70	216	-67.6%	17,236	17,738	-2.8%
LV CATL CSO	0	20	-100.0%	0	0	0.00%	529	302	75.2%	0	0	0.0%
MAR-DEC CORN CAL SPRD	9	-	-	0	-	-	9	-	-	0	-	-
MAR-JULY CORN CAL SPRD	0	0	0.0%	0	0	0.00%	40	0	0.0%	0	0	0.0%
MAR-JULY WHEAT CAL SPRD	0	0	0.0%	0	0	0.00%	0	200	-100.0%	30	0	0.0%
MILK	2,016	2,604	-22.6%	39,170	39,134	0.09%	22,434	58,682	-61.8%	360,371	291,375	23.7%
MLK MID OPTIONS	7	38	-81.6%	0	0	0.00%	31	425	-92.7%	194	27	618.5%
NFD MILK	192	856	-77.6%	3,146	3,727	-15.59%	2,011	8,660	-76.8%	52,521	40,770	28.8%
NOV-JULY SOYBEAN CAL SPR	0	0	0.0%	0	0	0.00%	1,050	1	104,900.0%	2,500	0	0.0%
NOV-MAR SOYBEAN CSO	0	0	0.0%	0	0	0.00%	20	130	-84.6%	0	0	0.0%
NOV-NOV SOYBEAN CAL SPR	470	0	0.0%	464	0	0.00%	614	118	420.3%	2,214	0	0.0%
OATS	168	847	-80.2%	87	869	-89.99%	2,442	1,903	28.3%	2,007	3,856	-48.0%
ROUGH RICE	2,030	1,430	42.0%	1,144	727	57.36%	20,539	7,980	157.4%	9,680	8,457	14.5%
SEP-DEC SOYBEAN MEAL CSC	0	0	0.0%	0	0	0.00%	0	1,170	-100.0%	0	0	0.0%
SOYBEAN	138,513	213,467	-35.1%	1,051,158	1,058,252	-0.67%	1,376,866	2,994,324	-54.0%	10,089,675	13,518,912	-25.4%
SOYBEAN CRUSH	175	0	0.0%	0	0	0.00%	179	185	-3.2%	0	0	0.0%
SOYBEAN MEAL	36,375	58,692	-38.0%	142,934	143,797	-0.60%	324,376	1,005,779	-67.7%	1,283,149	1,927,520	-33.4%
SOYBEAN OIL	24,031	54,787	-56.1%	145,188	96,844	49.92%	194,222	376,887	-48.5%	1,004,935	806,302	24.6%
SOYBN NEARBY+2 CAL SPRD	0	0	0.0%	0	0	0.00%	3,500	10	34,900.0%	2,000	0	0.0%
SOYMEAL NEARBY+2 CAL SPR	0	3,225	-100.0%	0	0	0.00%	490	8,415	-94.2%	0	0	0.0%
WHEAT	3,100	0	0.0%	1,669	25	6,576.00%	10,800	2,910	271.1%	8,246	335	2,361.5%
WHEAT-CORN ICSCO	200	645	-69.0%	0	0	0.00%	2,880	5,780	-50.2%	0	0	0.0%
WHEAT NEARBY+2 CAL SPRD	50	1,040	-95.2%	67	10	570.00%	2,440	9,232	-73.6%	300	4,481	-93.3%

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## CME Group Exchange Volume Comparison Report - Monthly

	Open Outcry OCT 2019	Open Outcry OCT 2018	% CHG	ELEC OCT 2019	ELEC OCT 2018	% CHG	Open Outcry Y.T.D 2019	Open Outcry Y.T.D 2018	% CHG	ELEC Y.T.D 2019	ELEC Y.T.D 2018	% CHG
<b>TOTAL FUTURES GROUP</b>												
Interest Rate Futures	748,562	971,644	-23.0%	134,392,511	175,931,540	-23.6%	9,752,570	9,934,391	-1.8%	1,572,351,481	1,494,369,792	5.2%
Equity Index Futures	5,474	16,580	-67.0%	61,684,159	83,505,936	-26.1%	221,240	410,620	-46.1%	597,679,464	544,327,947	9.8%
Metals Futures	0	0	0.0%	12,620,514	11,377,412	10.9%	0	0	0.0%	120,677,529	123,037,129	-1.9%
Energy Futures	0	0	0.0%	44,779,139	47,225,271	-5.2%	0	0	0.0%	432,267,551	441,714,551	-2.1%
FX Futures	0	11	-100.0%	17,240,953	19,033,035	-9.4%	68	704	-90.3%	169,320,226	195,437,258	-13.4%
Ags Futures	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Foreign Exchange Futures	0	0	0.0%	0	967	-100.0%	0	0	0.0%	0	12,808	-100.0%
Ag Products Futures	39,979	62,607	-36.1%	23,395,646	23,187,089	0.9%	417,748	726,987	-42.5%	249,644,019	255,881,386	-2.4%
<b>TOTAL FUTURES</b>	<b>794,015</b>	<b>1,050,842</b>	<b>-24.4%</b>	<b>294,112,922</b>	<b>360,261,250</b>	<b>-18.4%</b>	<b>10,391,626</b>	<b>11,072,702</b>	<b>-6.2%</b>	<b>3,141,940,270</b>	<b>3,054,780,871</b>	<b>2.9%</b>
<b>TOTAL OPTIONS GROUP</b>												
Equity Index Options	677,771	1,071,946	-36.8%	14,858,864	23,494,898	-36.8%	6,794,089	10,109,747	-32.8%	130,650,274	161,091,969	-18.9%
Interest Rate Options	20,940,006	23,884,367	-12.3%	33,816,419	36,512,391	-7.4%	245,906,853	214,854,976	14.5%	319,158,511	262,011,700	21.8%
Metals Options	0	0	0.0%	1,228,815	1,235,321	-0.5%	0	0	0.0%	13,664,174	9,785,264	39.6%
Energy Options	0	0	0.0%	3,708,631	5,567,535	-33.4%	0	0	0.0%	34,821,996	43,804,176	-20.5%
FX Options	511	1,662	-69.3%	1,083,351	1,605,461	-32.5%	12,405	27,668	-55.2%	11,016,726	15,563,315	-29.2%
Ag Products Options	662,189	882,028	-24.9%	4,361,430	3,490,794	24.9%	8,196,069	13,069,267	-37.3%	48,874,723	45,070,146	8.4%
Foreign Exchange Options	0	0	0.0%	1,697	1,274	33.2%	0	0	0.0%	8,760	9,202	-4.8%
<b>TOTAL OPTIONS</b>	<b>22,280,477</b>	<b>25,840,003</b>	<b>-13.8%</b>	<b>59,059,207</b>	<b>71,907,674</b>	<b>-17.9%</b>	<b>260,909,416</b>	<b>238,061,658</b>	<b>9.6%</b>	<b>558,195,164</b>	<b>537,335,772</b>	<b>3.9%</b>
<b>TOTAL COMBINED</b>												
Interest Rate	21,688,568	24,856,011	-12.7%	168,208,930	212,443,931	-20.8%	255,659,423	224,789,367	13.7%	1,891,509,992	1,756,381,492	7.7%
Equity Index	683,245	1,088,526	-37.2%	76,543,023	107,000,834	-28.5%	7,015,329	10,520,367	-33.3%	728,329,738	705,419,916	3.2%
Metals	0	0	0.0%	13,849,329	12,612,733	9.8%	0	0	0.0%	134,341,703	132,822,393	1.1%
Energy	0	0	0.0%	48,487,770	52,792,806	-8.2%	0	0	0.0%	467,089,547	485,518,727	-3.8%
FX	511	1,673	-69.5%	18,324,304	20,638,496	-11.2%	12,473	28,372	-56.0%	180,336,952	211,000,573	-14.5%
Ags	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
Foreign Exchange	0	0	0.0%	1,697	2,241	-24.3%	0	0	0.0%	8,760	22,010	-60.2%
Ag Products	702,168	944,635	-25.7%	27,757,076	26,677,883	4.0%	8,613,817	13,796,254	-37.6%	298,518,742	300,951,532	-0.8%
<b>GRAND TOTAL</b>	<b>23,074,492</b>	<b>26,890,845</b>	<b>-14.2%</b>	<b>353,172,129</b>	<b>432,168,924</b>	<b>-18.3%</b>	<b>271,301,042</b>	<b>249,134,360</b>	<b>8.9%</b>	<b>3,700,135,434</b>	<b>3,592,116,643</b>	<b>3.0%</b>

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

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