



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Interest Rate Futures</b>					
10-YR NOTE	4,007,703	3,710,227	8.0%	3,869,832	3.6%
10-YR SWAP RATE	91,536	29,348	211.9%	86,783	5.5%
15-YR SWAP RATE	10,850	0	-	10,850	0.0%
1-MONTH EURODOLLAR	40	3,401	-98.8%	50	-20.0%
20-YR SWAP RATE	90	0	-	90	0.0%
2-YR NOTE	4,061,853	2,014,148	101.7%	3,194,470	27.2%
2-YR SWAP RATE	19,337	0	-	22,587	-14.4%
30-YR BOND	946,216	830,559	13.9%	972,788	-2.7%
30-YR SWAP RATE	2,476	130	1,804.6%	1,691	46.4%
3-YR SWAP RATE	11,442	0	-	12,864	-11.1%
4-YR SWAP RATE	9,718	0	-	5,720	69.9%
5-YR NOTE	4,785,599	3,700,538	29.3%	4,279,212	11.8%
5-YR SWAP RATE	64,631	18,225	254.6%	65,934	-2.0%
7-YR SWAP RATE	9,998	0	-	10,388	-3.8%
EURODOLLARS	13,017,858	16,624,457	-21.7%	12,590,552	3.4%
FED FUND	2,119,605	2,484,498	-14.7%	1,912,226	10.8%
SOFR	125,581	0	-	134,998	-7.0%
SONIA	15,125	0	-	13,123	15.3%
Ultra 10-Year Note	765,344	536,656	42.6%	730,263	4.8%
ULTRA T-BOND	1,198,286	985,089	21.6%	1,171,406	2.3%
<b>Interest Rate Options</b>					
10-YR NOTE	3,307,889	3,182,290	3.9%	3,616,074	-8.5%
2-YR NOTE	434,884	402,411	8.1%	448,391	-3.0%
30-YR BOND	1,069,574	851,883	25.6%	1,089,476	-1.8%
5-YR NOTE	2,087,991	1,409,355	48.2%	2,436,665	-14.3%
EURODOLLARS	38,944,546	26,686,907	45.9%	37,071,246	5.1%
EURO MIDCURVE	16,533,454	18,439,683	-10.3%	15,256,235	8.4%
FED FUND	1,752	4,176	-58.0%	1,952	-10.2%
Ultra 10-Year Note	8,284	0	-	9,564	-13.4%
ULTRA T-BOND	23,098	14,156	63.2%	19,304	19.7%

**\*\*\* 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.**

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Equity Index Futures</b>					
BITCOIN FUTURES	4,211	2,220	89.7%	3,656	15.2%
DJ US REAL ESTATE	26,562	21,757	22.1%	23,646	12.3%
E-mini (\$5) Dow	82,126	104,311	-21.3%	81,514	0.8%
E-mini FTSE 100 (USD)	0	0	0.0%	0	-
E-mini FTSE China 50	3	119	-97.5%	0	0.0%
E-MINI MIDCAP	65,690	76,635	-14.3%	61,895	6.1%
E-MINI NASDAQ 100	222,838	238,355	-6.5%	195,756	13.8%
E-MINI RUSSELL 1000	9,116	9,280	-1.8%	8,899	2.4%
E-MINI RUSSELL 1000 GROWTH	2,487	3,876	-35.8%	2,279	9.1%
E-MINI RUSSELL 1000 VALUE	6,636	8,490	-21.8%	6,244	6.3%
E-MINI RUSSELL 2000	427,587	510,287	-16.2%	448,221	-4.6%
E-MINI S&P500	2,644,496	2,995,032	-11.7%	2,507,348	5.5%
E-MINI S&P REAL ESTATE SELE	6,264	6,558	-4.5%	4,476	39.9%
FT-SE 100	0	127	-100.0%	0	-
FTSE Emerging	30	5	500.0%	89	-66.3%
IBOVESPA INDEX	150	486	-69.1%	458	-67.2%
NASDAQ BIOTECH	93	964	-90.4%	26	257.7%
NIFTY 50	0	1,004	-100.0%	0	-
NIKKEI 225 (\$) STOCK	25,512	44,314	-42.4%	24,840	2.7%
NIKKEI 225 (YEN) STOCK	63,851	66,295	-3.7%	56,423	13.2%
S&P 500	253,422	181,457	39.7%	215,678	17.5%
S&P 500/GI	10	13	-23.1%	10	0.0%
S&P 500/VALUE	102,265	107,842	-5.2%	92,331	10.8%
S&P 600 SMALLCAP EMINI	0	0	-	0	-
S&P CONSUMER DSCRTRNRY SE	4,175	6,584	-36.6%	3,740	11.6%
S&P CONSUMER STAPLES SECT	13,181	26,842	-50.9%	13,499	-2.4%
S&P ENERGY SECTOR	14,197	19,810	-28.3%	14,246	-0.3%
S&P FINANCIAL SECTOR	30,897	31,939	-3.3%	31,974	-3.4%
S&P HEALTH CARE SECTOR	9,264	7,282	27.2%	9,652	-4.0%
S&P INDUSTRIAL SECTOR	7,331	5,847	25.4%	6,684	9.7%
S&P MATERIALS SECTOR	7,198	3,322	116.7%	6,301	14.2%
S&P TECHNOLOGY SECTOR	7,570	12,542	-39.6%	7,249	4.4%
S&P UTILITIES SECTOR	16,803	29,027	-42.1%	9,921	69.4%
YEN DENOMINATED TOPIX	771	90	756.7%	458	68.3%

**\*\*\* 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.**

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Equity Index Options</b>					
E-mini (\$5) Dow	3,281	9,865	-66.7%	2,811	16.7%
E-MINI NASDAQ 100	64,002	70,865	-9.7%	55,492	15.3%
E-MINI RUSSELL 2000	17,683	9,932	78.0%	14,117	25.3%
E-MINI S&P500	2,357,074	2,119,276	11.2%	1,654,246	42.5%
EOM E-MINI RUSSELL 2000 END	2,732	1,752	55.9%	2,605	4.9%
EOM EMINI S&P	532,736	482,360	10.4%	521,931	2.1%
EOM S&P 500	57,286	19,662	191.4%	37,763	51.7%
EOW1 E-MINI RUSSELL 2000 WE	258	1,049	-75.4%	817	-68.4%
EOW1 E-MINI RUSSELL 2000 WE	871	1,142	-23.7%	1,203	-27.6%
EOW1 EMINI S&P 500	208,880	214,151	-2.5%	199,640	4.6%
EOW1 S&P 500	31,730	24,425	29.9%	22,186	43.0%
EOW2 E-MINI RUSSELL 2000 WE	460	798	-42.4%	1,030	-55.3%
EOW2 EMINI S&P 500	90,241	140,342	-35.7%	110,263	-18.2%
EOW2 S&P 500	11,763	7,060	66.6%	2,296	412.3%
EOW3 E-MINI RUSSELL 2000 WE	6,154	14,093	-56.3%	9,374	-34.4%
EOW3 EMINI S&P 500	609,727	875,229	-30.3%	861,514	-29.2%
EOW3 S&P 500	58,814	109,190	-46.1%	56,313	4.4%
EOW4 E-MINI RUSSELL 2000 WE	38	37	2.7%	183	-79.2%
EOW4 EMINI S&P 500	40,534	50,339	-19.5%	62,599	-35.2%
S&P 500	80,110	104,180	-23.1%	50,931	57.3%
<b>Metals Futures</b>					
ALUMINUM	57,819	71,928	-19.6%	58,556	-1.3%
COMEX COPPER	250,220	240,018	4.3%	249,843	0.2%
COMEX E-Mini GOLD	2,761	676	308.4%	775	256.3%
COMEX E-Mini SILVER	118	185	-36.2%	171	-31.0%
COMEX GOLD	431,977	506,226	-14.7%	448,609	-3.7%
COMEX MINY COPPER	138	65	112.3%	209	-34.0%
COMEX SILVER	197,060	193,851	1.7%	196,044	0.5%
COPPER	12,996	15,003	-13.4%	12,724	2.1%
E-MICRO GOLD	12,528	8,307	50.8%	11,592	8.1%
FERROUS PRODUCTS	4,225	3,884	8.8%	3,389	24.7%
GOLD	0	0	-	0	-
Gold Kilo	0	0	-	0	-
IRON ORE 62 CHINA PLATTS FU	0	880	-100.0%	0	-
IRON ORE 62 CHINA TSI FUTURE	8,786	9,789	-10.2%	10,174	-13.6%
LNDN ZINC	9	3	200.0%	0	-
NYMEX HOT ROLLED STEEL	17,090	13,277	28.7%	17,003	0.5%
NYMEX PLATINUM	75,825	79,917	-5.1%	68,155	11.3%
PALLADIUM	22,722	23,561	-3.6%	23,754	-4.3%
SILVER	1,674	1,433	16.8%	1,507	11.1%
URANIUM	3,708	2,764	34.2%	3,601	3.0%

\*\*\* 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.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Metals Options</b>					
COMEX COPPER	37,481	14,044	166.9%	48,982	-23.5%
COMEX GOLD	1,304,335	1,112,179	17.3%	1,257,048	3.8%
COMEX SILVER	225,257	175,093	28.6%	230,726	-2.4%
COPPER	85	0	-	10	750.0%
GOLD	17,309	3,989	333.9%	19,002	-8.9%
HOT ROLLED COIL STEEL CALL	700	800	-12.5%	750	-6.7%
IRON ORE 62 CHINA TSI CALL O	1,230	2,121	-42.0%	3,340	-63.2%
IRON ORE 62 CHINA TSI PUT OP	645	660	-2.3%	1,850	-65.1%
NYMEX PLATINUM	6,427	1,790	259.1%	4,557	41.0%
PALLADIUM	2,707	4,037	-32.9%	1,902	42.3%
SILVER	1,633	130	1,156.2%	859	90.1%
<b>Energy Futures</b>					
3.5% FUEL OIL CID MED SWA	46	305	-84.9%	50	-8.0%
3.5% FUEL OIL CIF BALMO S	0	90	-100.0%	0	-
AEP-DAYTON HUB DAILY	34	92	-63.0%	34	0.0%
AEP-DAYTON HUB MTHLY	0	0	-	0	-
AEP-DAYTON HUB OFF-PEAK M	0	0	-	0	-
ALGON CITY GATES NAT GAS	0	0	-	0	-
ALGONQUIN CITYGATES BASIS	0	0	-	0	-
ANR LOUISIANA BASIS SWAP	0	0	-	0	-
ANR OKLAHOMA	0	1,283	-100.0%	0	-
ARGUS LLS VS. WTI (ARG) T	30,836	46,899	-34.3%	34,289	-10.1%
ARGUS PROPAN FAR EST INDE	5,585	5,362	4.2%	5,355	4.3%
ARGUS PROPAN(SAUDI ARAMC	2,236	2,056	8.8%	2,173	2.9%
AUSTRIALIAN COKE COAL	36	264	-86.4%	40	-10.0%
BRENT BALMO SWAP	365	0	-	223	63.7%
BRENT CALENDAR SWAP	20,213	13,297	52.0%	20,338	-0.6%
BRENT CFD SWAP	0	0	-	0	-
BRENT FINANCIAL FUTURES	3,718	3,394	9.5%	218	1,605.5%
BRENT OIL LAST DAY	229,864	218,199	5.3%	206,647	11.2%
CAISO SP15 EZGNHUB5 MW P	0	0	-	0	-
CAISO SP15 EZGNHUB5 PEAK	0	0	-	0	-
CANADIAN LIGHT SWEET OIL	0	49	-100.0%	0	-
CENTERPOINT BASIS SWAP	796	6,919	-88.5%	906	-12.1%
CHICAGO ETHANOL SWAP	50,072	61,674	-18.8%	45,855	9.2%
CHICAGO ULSD (PLATTS) SWA	0	0	-	0	-
CHICAGO ULSD PL VS HO SPR	2,902	730	297.5%	2,915	-0.4%
CHICAGO UNL GAS PL VS RBO	690	525	31.4%	590	16.9%
CIG BASIS	4,482	17,778	-74.8%	5,034	-11.0%
CIG ROCKIES NG INDEX SWA	0	0	-	0	-
CINERGY HUB OFF-PEAK MONT	0	90	-100.0%	0	-
CINERGY HUB PEAK MONTH	0	216	-100.0%	0	-
CIN HUB 5MW D AH O PK	0	96,880	-100.0%	0	-
CIN HUB 5MW D AH PK	1,055	7,276	-85.5%	1,385	-23.8%
CIN HUB 5MW REAL TIME O P	111,704	370,904	-69.9%	120,904	-7.6%
CIN HUB 5MW REAL TIME PK	13,069	31,209	-58.1%	14,499	-9.9%
COAL SWAP	0	160	-100.0%	20	-100.0%
COLUMB GULF MAINLINE NG B	1,009	2,662	-62.1%	699	44.3%

\*\*\* 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.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Energy Futures</b>					
COLUMBIA GULF ONSHORE	0	0	-	0	-
CONWAY NATURAL GASOLINE (	1,427	764	86.8%	1,544	-7.6%
CONWAY NORMAL BUTANE (OPI	804	713	12.8%	624	28.8%
CONWAY PROPANE 5 DECIMALS	19,994	22,097	-9.5%	18,841	6.1%
CRUDE OIL	21,311	16,872	26.3%	25,339	-15.9%
CRUDE OIL OUTRIGHTS	160,994	132,229	21.8%	159,806	0.7%
CRUDE OIL PHY	2,159,489	2,646,565	-18.4%	1,970,837	9.6%
CRUDE OIL SPRDS	119,790	170,766	-29.9%	127,022	-5.7%
CRUDE OIL TRADE AT MARKER	0	0	0.0%	0	0.0%
DAILY PJM	110,947	200,090	-44.6%	150,555	-26.3%
DATED BRENT (PLATTS) DAILY S	0	0	-	0	-
DATED TO FRONTLINE BRENT	2,180	6,460	-66.3%	2,225	-2.0%
DIESEL 10P BRG FOB RDM VS	0	0	-	0	-
DIESEL 10PPM BARGES FOB B	0	0	-	0	-
DOMINION TRAN INC - APP I	0	2,200	-100.0%	0	-
DOMINION TRANSMISSION INC	8,042	22,641	-64.5%	8,642	-6.9%
DUBAI CRUDE OIL BALMO	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	4,307	2,469	74.4%	17,433	-75.3%
DUTCH TTF NATURAL GAS CAL	2,076	180	1,053.3%	1,668	24.5%
DY EURO 3.5% FUEL OI RDA	0	0	-	0	-
EASTERN RAIL DELIVERY CSX	0	225	-100.0%	0	-
EAST/WEST FUEL OIL SPREAD	39	137	-71.5%	40	-2.5%
EIA FLAT TAX ONHWAY DIESE	1,468	1,872	-21.6%	1,655	-11.3%
ELEC ERCOT DLY OFF PK	0	0	-	0	-
ELEC ERCOT DLY PEAK	0	360	-100.0%	0	-
ELEC ERCOT OFF PEAK	0	19,600	-100.0%	0	-
ELEC FINSETTLED	898	1,406	-36.1%	940	-4.5%
ELEC MISO PEAK	0	2,865	-100.0%	0	-
ELEC NYISO OFF-PEAK	0	53,175	-100.0%	0	-
ELECTRICITY ERCOT PEAK	0	0	-	0	-
ELECTRICITY OFF PEAK	71,782	25,794	178.3%	72,596	-1.1%
ELEC WEST POWER OFF-PEAK	0	0	-	0	-
ELEC WEST POWER PEAK	0	0	-	0	-
ERCOT DAILY 5MW PEAK	0	0	-	0	-
ERCOT HOUSTON Z MCPE 5MW	0	2,200	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW OF	0	0	-	0	-
ERCOT NORTH ZMCPE 5MW OF	0	130,480	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW PE	0	6,960	-100.0%	0	-
ETHANOL	1,515	1,867	-18.9%	1,327	14.2%
ETHANOL SWAP	470	10	4,600.0%	410	14.6%
ETHANOL T2 FOB ROTT INCL DU	4,646	5,111	-9.1%	4,904	-5.3%
EURO 1% FUEL OIL NEW BALM	0	0	-	0	-
EURO 3.5% FUEL OIL RDAM B	38	657	-94.2%	105	-63.8%
EURO 3.5% FUEL OIL SPREAD	85	340	-75.0%	45	88.9%
EURO-DENOMINATED PETRO P	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	0	385	-100.0%	20	-100.0%
EUROPE 1% FUEL OIL NWE CA	242	261	-7.3%	244	-0.8%
EUROPE 1% FUEL OIL RDAM C	3	0	-	3	0.0%
EUROPE 3.5% FUEL OIL MED	125	435	-71.3%	147	-15.0%
EUROPE 3.5% FUEL OIL RDAM	6,761	13,926	-51.5%	7,362	-8.2%
EUROPEAN GASOIL (ICE)	100	193	-48.2%	111	-9.9%

**\*\*\* 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.**

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Energy Futures</b>					
EUROPEAN NAPHTHA BALMO	128	203	-36.9%	268	-52.2%
EUROPEAN NAPHTHA CRACK SP	12,534	14,205	-11.8%	12,982	-3.5%
EUROPE DATED BRENT SWAP	690	300	130.0%	640	7.8%
EUROPE JET KERO NWE CALSW	26	36	-27.8%	22	18.2%
EUROPE NAPHTHA CALSWAP	2,715	2,964	-8.4%	2,894	-6.2%
EURO PROPANE CIF ARA SWA	2,088	1,721	21.3%	2,124	-1.7%
FLORIDA GAS ZONE3 BASIS S	0	0	-	0	-
FREIGHT MARKETS	3,954	1,857	112.9%	4,162	-5.0%
FUEL OIL CRACK VS ICE	7,917	16,912	-53.2%	7,384	7.2%
FUEL OIL NWE CRACK VS ICE	171	171	0.0%	171	0.0%
FUEL OIL (PLATS) CAR CM	0	126	-100.0%	0	-
FUEL OIL (PLATS) CAR CN	0	72	-100.0%	0	-
FUELOIL SWAP:CARGOES VS.B	995	838	18.7%	1,023	-2.7%
GAS EURO-BOB OXY NWE BARG	5,960	6,543	-8.9%	6,019	-1.0%
GAS EURO-BOB OXY NWE BARG	27,681	37,611	-26.4%	29,201	-5.2%
GASOIL 0.1 CIF MED SWAP	0	0	-	0	-
GASOIL 0.1CIF MED VS ICE	0	10	-100.0%	0	-
GASOIL 0.1 CIF NWE VS ISE	5	0	-	0	-
GASOIL 0.1 CIF VS ICE GAS	0	0	-	0	-
GASOIL 0.1 RDAM BRGS VS I	15	168	-91.1%	15	0.0%
GASOIL 0.1 ROTTERDAM BARG	67	220	-69.5%	21	219.0%
GASOIL 10P CRG CIF NW VS	0	0	-	0	-
GASOIL 10PPM VS ICE SWAP	24	426	-94.4%	27	-11.1%
GASOIL BULLET SWAP	0	0	-	0	-
GASOIL CALENDAR SWAP	48	12	300.0%	48	0.0%
GASOIL CRACK SPREAD CALEN	12,390	25,326	-51.1%	13,109	-5.5%
GASOIL MINI CALENDAR SWAP	752	628	19.7%	927	-18.9%
GERMAN POWER BASELOAD CA	724	63	1,049.2%	443	63.4%
GROUP THREE ULSD (PLATTS)	45	112	-59.8%	45	0.0%
GROUP THREE UNLEAD GAS (P	0	0	-	25	-100.0%
GRP THREE ULSD(PLT)VS HEA	6,998	10,755	-34.9%	7,141	-2.0%
GRP THREE UNL GS (PLT) VS	4,555	4,842	-5.9%	4,344	4.9%
GULF COAST 3% FUEL OIL BA	665	947	-29.8%	1,099	-39.5%
GULF COAST JET FUEL CLNDR	683	891	-23.3%	793	-13.9%
GULF COAST JET VS NYM 2 H	35,208	36,761	-4.2%	31,722	11.0%
GULF COAST NO.6 FUEL OIL	27,915	64,399	-56.7%	27,214	2.6%
GULF COAST ULSD CALENDAR	1,603	1,183	35.5%	1,816	-11.7%
GULF COAST ULSD CRACK SPR	510	1,045	-51.2%	535	-4.7%
HEATING OIL BALMO CLNDR S	35	0	-	0	-
HEATING OIL PHY	399,884	432,978	-7.6%	375,201	6.6%
HENRY HUB BASIS SWAP	12,027	3,568	237.1%	10,058	19.6%
HENRY HUB FINANCIAL LAST	0	28	-100.0%	0	-
HENRY HUB INDEX SWAP FUTU	13,437	3,312	305.7%	10,058	33.6%
HENRY HUB SWAP	978,248	1,110,290	-11.9%	1,001,083	-2.3%
HOUSTON SHIP CHANNEL BASI	10,020	15,551	-35.6%	9,794	2.3%
HTG OIL	163	241	-32.4%	128	27.3%
HUSTN SHIP CHNL PIPE SWP	0	0	-	0	-
ICE BRENT DUBAI SWAP	34,642	43,956	-21.2%	33,558	3.2%
ICE GASOIL BALMO SWAP	0	0	-	0	-
IN DELIVERY MONTH EUA	0	3,698	-100.0%	0	-
INDIANA MISO	3,281	25,144	-87.0%	4,689	-30.0%

**\*\*\* 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.**

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Energy Futures</b>					
INDONESIAN COAL	0	0	-	0	-
INDONESIAN COAL ICI4	820	150	446.7%	822	-0.2%
ISO NEW ENGLAND OFF-PEAK	0	0	-	0	-
ISO NEW ENGLAND PK LMP	0	0	-	0	-
JAPAN C&F NAPHTHA CRACK S	121	1,060	-88.6%	121	0.0%
JAPAN C&F NAPHTHA SWAP	1,700	2,329	-27.0%	1,576	7.9%
JAPAN NAPHTHA BALMO SWAP	5	31	-83.9%	92	-94.6%
JET AV FUEL (P) CAR FM ICE GA	0	18	-100.0%	0	-
JET CIF NWE VS ICE	327	575	-43.1%	346	-5.5%
JET FUEL BRG FOB RDM VS I	0	0	-	0	-
JET FUEL CRG CIF NEW VS I	0	0	-	0	-
JET FUEL UP-DOWN BALMO CL	4,680	3,685	27.0%	2,690	74.0%
JKM LNG Futures	5,056	1,605	215.0%	5,226	-3.3%
LA CARB DIESEL (OPIS)	0	0	-	0	-
LA CARB DIESEL (OPIS) SWA	128	375	-65.9%	158	-19.0%
LA CARBOB GASOLINE(OPIS)S	300	1,450	-79.3%	900	-66.7%
LA JET FUEL VS NYM NO 2 H	0	0	-	0	-
LA JET (OPIS) SWAP	1,791	2,740	-34.6%	1,957	-8.5%
LLS (ARGUS) CALENDAR SWAP	439	0	-	459	-4.4%
LLS (ARGUS) VS WTI SWAP	23,249	26,043	-10.7%	24,728	-6.0%
LOS ANGELES CARB GASOLINE	0	0	-	0	-
LTD NAT GAS	373,779	368,486	1.4%	378,825	-1.3%
MARS (ARGUS) VS WTI SWAP	5,460	10,500	-48.0%	5,790	-5.7%
MARS (ARGUS) VS WTI TRD M	27,792	28,785	-3.4%	26,585	4.5%
MARS BLEND CRUDE OIL	0	200	-100.0%	0	-
MCCLOSKEY ARA ARGS COAL	20,361	42,777	-52.4%	22,020	-7.5%
MCCLOSKEY RCH BAY COAL	3,218	4,947	-35.0%	3,552	-9.4%
MGF FUT	0	50	-100.0%	0	-
MGN1 SWAP FUT	300	446	-32.7%	335	-10.4%
MICHIGAN BASIS	1,648	4,025	-59.1%	1,678	-1.8%
MICHIGAN MISO	0	26,145	-100.0%	0	-
MINI GAS EUROBOB OXY NWE A	67	502	-86.7%	44	52.3%
MINI RBOB V. EBOBARG NWE BF	1,144	862	32.7%	130	780.0%
MINI RBOB V. EBOB(ARGUS) NW	3,729	2,623	42.2%	3,078	21.2%
MINY HTG OIL	1	1	0.0%	0	-
MINY NATURAL GAS	3,651	1,103	231.0%	1,996	82.9%
MINY RBOB GAS	0	0	-	0	0.0%
MINY WTI CRUDE OIL	3,597	4,499	-20.0%	3,351	7.3%
MJC FUT	260	615	-57.7%	290	-10.3%
MNC FUT	5,936	4,962	19.6%	6,710	-11.5%
MONT BELVIEU ETHANE 5 DECI	38,859	46,565	-16.5%	38,531	0.9%
MONT BELVIEU ETHANE OPIS B	149	90	65.6%	50	198.0%
MONT BELVIEU LDH PROPANE 5	144,006	119,272	20.7%	128,913	11.7%
MONT BELVIEU LDH PROPANE C	879	1,933	-54.5%	2,020	-56.5%
MONT BELVIEU NATURAL GASO	17,011	20,066	-15.2%	16,733	1.7%
MONT BELVIEU NATURAL GASO	300	203	47.8%	715	-58.0%
MONT BELVIEU NORMAL BUTAN	43,180	35,761	20.7%	41,164	4.9%
MONT BELVIEU NORMAL BUTAN	1,197	775	54.5%	1,400	-14.5%
NAT GAS BASIS SWAP	1,715	4,515	-62.0%	1,925	-10.9%
NATURAL GAS	80,535	81,599	-1.3%	83,457	-3.5%
NATURAL GAS FIXED PRICE SW	0	0	-	0	-

\*\*\* 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.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Energy Futures</b>					
NATURAL GAS INDEX	0	0	-	0	-
NATURAL GAS PEN SWP	128,032	150,664	-15.0%	130,899	-2.2%
NATURAL GAS PHY	1,244,433	1,442,242	-13.7%	1,171,386	6.2%
NEPOOL CNCTCT 5MW D AH O	0	0	-	0	-
NEPOOL CONECTIC 5MW D AH	0	0	-	0	-
NEPOOL INTR HUB 5MW D AH	397,032	511,428	-22.4%	407,016	-2.5%
NEPOOL NE MASS 5MW D AH O	10,587	14,040	-24.6%	11,808	-10.3%
NEPOOL NE MASS 5MW D AH P	576	765	-24.7%	639	-9.9%
NEPOOL RHD ISLD 5MW D AH	0	0	-	0	-
NEPOOL RHODE IL 5MW D AH	0	0	-	0	-
NEPOOL W CNT MASS 5MW D A	0	0	-	0	-
NEPOOL W CNTR M 5MW D AH	0	0	-	0	-
NEW ENGLAND HUB PEAK DAIL	1,452	1,947	-25.4%	1,507	-3.6%
NEW YORK ETHANOL SWAP	1,005	2,985	-66.3%	1,112	-9.6%
NEW YORK HUB ZONE G PEAK	1,056	2,376	-55.6%	1,221	-13.5%
NEW YORK HUB ZONE J PEAK	1,155	660	75.0%	1,155	0.0%
NGPL MID-CONTINENT	10,840	19,813	-45.3%	11,680	-7.2%
NGPL TEX/OK	17,877	29,320	-39.0%	19,891	-10.1%
N ILLINOIS HUB DAILY	68	258	-73.6%	68	0.0%
N ILLINOIS HUB MTHLY	0	0	-	0	-
NO 2 UP-DOWN SPREAD CALEN	375	125	200.0%	475	-21.1%
NORTHERN NATURAL GAS DEMA	368	1,228	-70.0%	428	-14.0%
NORTHERN NATURAL GAS VENTL	1,104	1,456	-24.2%	1,284	-14.0%
NORTHERN ILLINOIS OFF-PEA	0	0	-	0	-
NORTHWEST ROCKIES BASIS S	11,389	31,585	-63.9%	12,709	-10.4%
N ROCKIES PIPE SWAP	0	61	-100.0%	0	-
NY1% VS GC SPREAD SWAP	1,710	3,669	-53.4%	2,075	-17.6%
NY 2.2% FUEL OIL (PLATTS	0	0	-	0	-
NY 3.0% FUEL OIL (PLATTS	300	625	-52.0%	300	0.0%
NY HARBOR 1% FUEL OIL BAL	0	0	-	0	-
NY HARBOR HEAT OIL SWP	8,384	7,356	14.0%	8,761	-4.3%
NY HARBOR LOW SULPUR GAS	915	740	23.6%	915	0.0%
NY HARBOR RESIDUAL FUEL 1	1,015	1,785	-43.1%	1,164	-12.8%
NY HARBOR RESIDUAL FUEL C	0	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	3,441	5,247	-34.4%	3,278	5.0%
NYISO A	0	0	-	0	-
NYISO A OFF-PEAK	0	0	-	0	-
NYISO CAPACITY	1,192	2,800	-57.4%	1,300	-8.3%
NYISO G	0	0	-	0	-
NYISO G OFF-PEAK	0	0	-	0	-
NYISO J	0	0	-	0	-
NYISO J OFF-PEAK	0	0	-	0	-
NYISO ZONE A 5MW D AH O P	14,882	48,126	-69.1%	15,666	-5.0%
NYISO ZONE A 5MW D AH PK	1,776	5,724	-69.0%	2,040	-12.9%
NYISO ZONE C 5MW D AH O P	0	0	-	0	-
NYISO ZONE C 5MW D AH PK	0	0	-	0	-
NYISO ZONE G 5MW D AH O P	439,962	599,214	-26.6%	452,578	-2.8%
NYISO ZONE G 5MW D AH PK	17,008	21,672	-21.5%	17,712	-4.0%
NYISO ZONE J 5MW D AH O P	97,086	223,641	-56.6%	108,846	-10.8%
NYISO ZONE J 5MW D AH PK	8,306	16,291	-49.0%	9,076	-8.5%
NYMEX ALUMINUM FUTURES	539	594	-9.3%	825	-34.7%

**\*\*\* 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.**

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Energy Futures</b>					
NYMEX ULSD VS NYMEX HO	700	0	-	1,450	-51.7%
NY ULSD (ARGUS) VS HEATING	969	218	344.5%	271	257.6%
ONEOK OKLAHOMA NG BASIS	0	490	-100.0%	0	-
ONTARIO POWER SWAPS	0	0	-	0	-
PANHANDLE BASIS SWAP FUTU	3,763	10,654	-64.7%	4,123	-8.7%
PANHANDLE PIPE SWAP	0	1,720	-100.0%	0	-
PERMIAN BASIS SWAP	4,152	7,876	-47.3%	4,272	-2.8%
PETROCHEMICALS	9,727	13,194	-26.3%	8,975	8.4%
PETRO CRCKS & SPRDS ASIA	910	1,261	-27.8%	818	11.2%
PETRO CRCKS & SPRDS NA	75,242	96,627	-22.1%	65,445	15.0%
PETRO CRK&SPRD EURO	13,359	20,903	-36.1%	13,869	-3.7%
PETROLEUM PRODUCTS	4,711	13,486	-65.1%	5,362	-12.1%
PETROLEUM PRODUCTS ASIA	1,914	3,204	-40.3%	2,036	-6.0%
PETRO OUTRIGHT EURO	10,154	14,091	-27.9%	9,869	2.9%
PETRO OUTRIGHT NA	7,225	7,469	-3.3%	7,404	-2.4%
PJM AD HUB 5MW REAL TIME	192,715	314,365	-38.7%	205,601	-6.3%
PJM AECO DA OFF-PEAK	0	0	-	0	-
PJM AECO DA PEAK	0	0	-	0	-
PJM APS ZONE DA OFF-PEAK	0	0	-	0	-
PJM APS ZONE DA PEAK	0	0	-	0	-
PJM ATSI ELEC	0	8,190	-100.0%	0	-
PJM BGE DA OFF-PEAK	0	10,970	-100.0%	0	-
PJM BGE DA PEAK	0	597	-100.0%	0	-
PJM COMED 5MW D AH O PK	0	17,725	-100.0%	0	-
PJM COMED 5MW D AH PK	0	955	-100.0%	0	-
PJM DAILY	904	878	3.0%	870	3.9%
PJM DAYTON DA OFF-PEAK	60,565	92,272	-34.4%	62,525	-3.1%
PJM DAYTON DA PEAK	4,050	8,820	-54.1%	4,270	-5.2%
PJM JCPL DA OFF-PEAK	0	0	-	0	-
PJM JCPL DA PEAK	0	0	-	0	-
PJM MONTHLY	360	1,190	-69.7%	400	-10.0%
PJM NI HUB 5MW REAL TIME	67,099	530,594	-87.4%	74,839	-10.3%
PJM NILL DA OFF-PEAK	94,146	288,870	-67.4%	107,474	-12.4%
PJM NILL DA PEAK	5,772	18,108	-68.1%	6,630	-12.9%
PJM OFF-PEAK LMP SWAP FUT	0	370	-100.0%	0	-
PJM PECO ZONE5MW PEAK CAL	2,960	0	-	2,960	0.0%
PJM PPL DA OFF-PEAK	0	0	-	0	-
PJM PPL DA PEAK	0	0	-	0	-
PJM PSEG DA OFF-PEAK	76,825	38,920	97.4%	80,895	-5.0%
PJM PSEG DA PEAK	3,920	860	355.8%	4,025	-2.6%
PJM WESTH DA OFF-PEAK	136,972	328,267	-58.3%	149,516	-8.4%
PJM WESTHDA PEAK	7,370	17,750	-58.5%	8,074	-8.7%
PJM WESTH RT OFF-PEAK	736,490	1,616,766	-54.4%	779,914	-5.6%
PJM WESTH RT PEAK	109,932	114,190	-3.7%	118,792	-7.5%
PLASTICS	3,461	796	334.8%	3,635	-4.8%
PREMIUM UNLD 10P FOB MED	426	673	-36.7%	534	-20.2%
PREMIUM UNLEAD 10PPM FOB	0	0	-	0	-
PREM UNL GAS 10PPM RDAM F	0	0	-	0	-
PREM UNL GAS 10PPM RDAM F	15	0	-	30	-50.0%
PROPANE NON-LDH MB (OPIS) B	937	487	92.4%	1,069	-12.3%
PROPANE NON-LDH MT. BEL (OF	66,288	43,818	51.3%	64,203	3.2%

**\*\*\* 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.**

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Energy Futures</b>					
RBOB CALENDAR SWAP	15,768	12,264	28.6%	12,415	27.0%
RBOB CRACK SPREAD	4,977	5,544	-10.2%	3,915	27.1%
RBOB CRACK SPREAD BALMO S	0	0	-	0	-
RBOB GAS	116	2,896	-96.0%	64	81.3%
RBOB GASOLINE BALMO CLNDR	1,598	3,709	-56.9%	511	212.7%
RBOB PHY	421,435	457,201	-7.8%	411,923	2.3%
RBOB SPREAD (PLATTS) SWAP	0	0	-	0	-
RBOB VS HEATING OIL SWAP	75	1,710	-95.6%	75	0.0%
SAN JUAN BASIS SWAP	6,002	16,046	-62.6%	7,172	-16.3%
SAN JUAN PIPE SWAP	0	360	-100.0%	0	-
SINGAPORE 180CST BALMO	26	62	-58.1%	17	52.9%
SINGAPORE 380CST BALMO	78	115	-32.2%	90	-13.3%
SINGAPORE 380CST FUEL OIL	5,490	9,265	-40.7%	5,975	-8.1%
SINGAPORE FUEL 180CST CAL	667	1,472	-54.7%	529	26.1%
SINGAPORE FUEL OIL SPREAD	190	2,525	-92.5%	239	-20.5%
SINGAPORE GASOIL	10,359	12,037	-13.9%	10,850	-4.5%
SINGAPORE GASOIL CALENDAR	323	325	-0.6%	384	-15.9%
SINGAPORE GASOIL SWAP	2,093	8,777	-76.2%	1,696	23.4%
SINGAPORE GASOIL VS ICE	17,085	45,470	-62.4%	21,373	-20.1%
SINGAPORE JET KERO BALMO	0	0	-	0	-
SINGAPORE JET KERO GASOIL	5,655	10,455	-45.9%	6,505	-13.1%
SINGAPORE JET KEROSENE SW	1,555	2,290	-32.1%	1,730	-10.1%
SINGAPORE JET KERO VS. GAS	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEAD	450	300	50.0%	375	20.0%
SINGAPORE MOGAS 92 UNLEAD	20,277	17,866	13.5%	20,257	0.1%
SINGAPORE NAPHTHA SWAP	0	0	-	0	-
SING FUEL	0	55	-100.0%	0	-
SOCAL PIPE SWAP	0	0	-	0	-
SONAT BASIS SWAP FUTURE	0	0	-	0	-
SOUTH STAR TEX OKLHM KNS	0	80	-100.0%	0	-
Sumas Basis Swap	1,557	4,424	-64.8%	1,677	-7.2%
SUMAS NAT GAS PLATTS FIXED	0	0	-	0	-
TC2 ROTTERDAM TO USAC 37K	415	393	5.6%	500	-17.0%
TC5 RAS TANURA TO YOKOHAM	1,445	95	1,421.1%	1,415	2.1%
TCO BASIS SWAP	3,672	7,385	-50.3%	4,032	-8.9%
TCO NG INDEX SWAP	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	12,267	1,682	629.3%	12,906	-5.0%
TENNESSEE 500 LEG BASIS S	0	0	-	0	-
TENNESSEE 800 LEG NG BASI	0	0	-	0	-
TENNESSEE ZONE 0 BASIS SW	0	0	-	0	-
TETCO M-3 INDEX	0	0	-	0	-
Tetco STX Basis	0	490	-100.0%	0	-
TEXAS EASTERN ZONE M-3 BA	1,404	4,753	-70.5%	1,464	-4.1%
TEXAS GAS ZONE1 NG BASIS	0	3,848	-100.0%	0	-
Transco Zone 3 Basis	0	2,205	-100.0%	0	-
TRANSCO ZONE 3 NG INDEX S	0	0	-	0	-
TRANSCO ZONE4 BASIS SWAP	2,616	6,235	-58.0%	2,754	-5.0%
TRANSCO ZONE 4 NAT GAS IN	0	0	-	0	-
TRANSCO ZONE 6 BASIS SWAP	0	1,958	-100.0%	0	-
TRANSCO ZONE 6 INDEX	0	0	-	0	-
UCM FUT	0	20	-100.0%	20	-100.0%

**\*\*\* 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.**

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Energy Futures</b>					
UK NBP NAT GAS CAL MTH FUT	160	131	22.1%	245	-34.7%
ULSD 10PPM CIF MED SWAP	0	0	-	0	-
ULSD 10PPM CIF MED VS ICE	0	24	-100.0%	0	-
ULSD 10PPM CIF NW BALMO S	0	0	-	0	-
ULSD UP-DOWN BALMO SWP	3,300	5,500	-40.0%	5,845	-43.5%
UP DOWN GC ULSD VS NMX HO	42,918	33,904	26.6%	42,411	1.2%
WAHA BASIS	1,848	4,842	-61.8%	1,968	-6.1%
WAHA INDEX SWAP FUTURE	0	0	-	0	-
WESTERN RAIL DELIVERY PRB	0	245	-100.0%	0	-
WTI-BRENT BULLET SWAP	3,654	6,704	-45.5%	4,179	-12.6%
WTI-BRENT CALENDAR SWAP	167,910	132,419	26.8%	140,667	19.4%
WTI CALENDAR	191,411	178,928	7.0%	167,832	14.0%
WTS (ARGUS) VS WTI SWAP	52,148	64,074	-18.6%	52,646	-0.9%
WTS (ARGUS) VS WTI TRD MT	5,843	3,793	54.0%	5,486	6.5%
<b>Energy Options</b>					
12 MO GASOIL CAL SWAP SPR	0	0	-	0	-
BRENT 1 MONTH CAL	0	3,000	-100.0%	0	-
BRENT CALENDAR SWAP	6,627	3,171	109.0%	6,732	-1.6%
BRENT CRUDE OIL 12 M CSO	0	0	-	0	-
BRENT CRUDE OIL 1 M CSO	27,300	220,372	-87.6%	24,800	10.1%
BRENT CRUDE OIL 6 M CSO	0	0	-	0	-
BRENT OIL LAST DAY	202,368	245,902	-17.7%	262,936	-23.0%
COAL API2 INDEX	580	2,950	-80.3%	545	6.4%
COAL API4 INDEX	0	25	-100.0%	0	-
COAL SWAP	0	270	-100.0%	0	-
CRUDE OIL	150	0	-	150	0.0%
CRUDE OIL 1MO	596,856	391,525	52.4%	526,054	13.5%
CRUDE OIL APO	386,852	461,987	-16.3%	349,364	10.7%
CRUDE OIL CALNDR STRIP	200	170	17.6%	200	0.0%
CRUDE OIL OUTRIGHTS	295	4,840	-93.9%	590	-50.0%
CRUDE OIL PHY	2,810,220	3,261,811	-13.8%	2,579,310	9.0%
ELEC MISO PEAK	0	0	-	0	-
ETHANOL	0	0	0.0%	0	-
ETHANOL SWAP	14,864	15,414	-3.6%	13,975	6.4%
EUROPEAN JET KEROSENE NW	0	0	-	0	-
GASOLINE	0	0	-	0	-
HEATING OIL CRACK OPTIONS	0	0	-	0	-
HEATING OIL CRK SPD AVG PRI	0	0	-	0	-
HEATING OIL PHY	53,176	48,836	8.9%	51,178	3.9%
HENRY HUB FINANCIAL LAST	11,223	5,734	95.7%	11,404	-1.6%
HO 1 MONTH CLNDR OPTIONS	1,000	0	-	0	-
LLS CRUDE OIL	0	2,300	-100.0%	0	-
MCCLOSKEY ARA ARGS COAL	0	495	-100.0%	130	-100.0%
MCCLOSKEY RCH BAY COAL	50	1,375	-96.4%	220	-77.3%
NATURAL GAS	0	0	-	0	-
NATURAL GAS 1 M CSO FIN	9,800	150	6,433.3%	4,300	127.9%
NATURAL GAS 2 M CSO FIN	0	0	-	500	-100.0%
NATURAL GAS 3 M CSO FIN	22,800	29,335	-22.3%	4,150	449.4%

\*\*\* 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.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Energy Options</b>					
NATURAL GAS 5 M CSO FIN	0	0	-	0	-
NATURAL GAS 6 M CSO FIN	9,500	1,500	533.3%	0	-
NATURAL GAS OPTION ON CALE	10,284	11,386	-9.7%	10,084	2.0%
NATURAL GAS PHY	1,528,095	1,599,744	-4.5%	1,449,912	5.4%
NATURAL GAS WINTER STRIP	0	0	-	0	-
N ROCKIES PIPE SWAP	1,332	1,624	-18.0%	546	144.0%
NY HARBOR HEAT OIL SWP	10,659	17,534	-39.2%	12,295	-13.3%
NYISO ZONE G 5MW PEAK OPTI	0	0	-	0	-
NYMEX EUROPEAN GASOIL APO	0	0	-	0	-
PANHANDLE PIPE SWAP	0	4,320	-100.0%	0	-
PETROCHEMICALS	3,059	3,030	1.0%	3,528	-13.3%
PETRO OUTRIGHT EURO	24	0	-	24	0.0%
PETRO OUTRIGHT NA	654	54	1,111.1%	700	-6.6%
PJM WES HUB PEAK CAL MTH	820	1,720	-52.3%	780	5.1%
PJM WES HUB PEAK LMP 50MW	1,567	9,359	-83.3%	1,567	0.0%
RBOB 1MO CAL SPD OPTIONS	0	0	-	0	-
RBOB CALENDAR SWAP	213	645	-67.0%	235	-9.4%
RBOB CRACK	0	0	-	0	-
RBOB PHY	25,127	12,290	104.5%	16,980	48.0%
ROTTERDAM 3.5%FUEL OIL CL	0	0	-	0	-
SAN JUAN PIPE SWAP	455	1,700	-73.2%	0	-
SHORT TERM	0	0	-	0	-
SHORT TERM NATURAL GAS	0	0	0.0%	0	-
SINGAPORE GASOIL CALENDAR	0	0	-	0	-
SINGAPORE JET FUEL CALEND	0	0	-	0	-
SOCAL PIPE SWAP	0	0	-	0	-
WTI-BRENT BULLET SWAP	116,000	205,841	-43.6%	145,520	-20.3%
WTI CRUDE OIL 1 M CSO FI	149,400	209,484	-28.7%	125,750	18.8%

\*\*\* 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.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>FX Futures</b>					
AD/CD CROSS RATES	12	0	0.0%	2	500.0%
AD/JY CROSS RATES	1,397	489	185.7%	908	53.9%
AD/NE CROSS RATES	30	114	-73.7%	58	-48.3%
AUSTRALIAN DOLLAR	159,950	142,500	12.2%	145,300	10.1%
BDI	0	0	-	0	-
BP/JY CROSS RATES	472	464	1.7%	375	25.9%
BP/SF CROSS RATES	191	140	36.4%	64	198.4%
BRAZIL REAL	47,479	45,358	4.7%	40,817	16.3%
BRITISH POUND	161,784	194,845	-17.0%	148,906	8.6%
CANADIAN DOLLAR	154,672	122,361	26.4%	151,135	2.3%
CD/JY CROSS RATES	11	143	-92.3%	2	450.0%
CHINESE RENMINBI (CNH)	1,464	1,264	15.8%	1,326	10.4%
CZECK KORUNA (EC)	2	0	-	2	0.0%
CZECK KORUNA (US)	0	0	-	0	-
EC/AD CROSS RATES	3,181	1,228	159.0%	3,003	5.9%
EC/CD CROSS RATES	1,731	1,662	4.2%	1,771	-2.3%
EC/NOK CROSS RATES	547	174	214.4%	430	27.2%
EC/SEK CROSS RATES	597	826	-27.7%	517	15.5%
EFX/BP CROSS RATES	27,493	36,978	-25.7%	27,632	-0.5%
EFX/JY CROSS RATES	24,068	19,518	23.3%	24,325	-1.1%
EFX/SF CROSS RATES	11,787	11,237	4.9%	10,409	13.2%
E-MICRO AUD/USD	5,197	3,518	47.7%	3,362	54.6%
E-MICRO CAD/USD	1,824	1,759	3.7%	1,598	14.1%
E-MICRO CHF/USD	366	203	80.3%	270	35.6%
E-MICRO EUR/USD	9,303	13,694	-32.1%	6,374	46.0%
E-MICRO GBP/USD	1,862	3,100	-39.9%	1,822	2.2%
E-MICRO INR/USD	220	635	-65.4%	267	-17.6%
E-MICRO JPY/USD	1,319	1,944	-32.2%	895	47.4%
E-MINI EURO FX	15,683	13,685	14.6%	14,290	9.7%
E-MINI JAPANESE YEN	519	906	-42.7%	506	2.6%
EURO FX	518,212	507,731	2.1%	490,397	5.7%
HUNGARIAN FORINT (EC)	0	0	-	0	-
HUNGARIAN FORINT (US)	2	0	-	0	-
INDIAN RUPEE	2,214	1,733	27.8%	1,410	57.0%
JAPANESE YEN	202,106	157,037	28.7%	154,849	30.5%
KOREAN WON	185	71	160.6%	150	23.3%
MEXICAN PESO	258,629	216,882	19.2%	228,851	13.0%
NEW ZEALND DOLLAR	49,266	48,655	1.3%	39,576	24.5%
NKR/USD CROSS RATE	2,226	1,854	20.1%	2,086	6.7%
POLISH ZLOTY (EC)	4	1	300.0%	156	-97.4%
POLISH ZLOTY (US)	62	36	72.2%	77	-19.5%
RMB USD	0	3	-100.0%	1	-100.0%
RUSSIAN RUBLE	62,630	28,394	120.6%	58,778	6.6%
S.AFRICAN RAND	14,115	10,850	30.1%	13,122	7.6%
SF/JY CROSS RATES	0	0	-	0	-
SHEKEL	0	814	-100.0%	0	-
SKR/USD CROSS RATES	1,533	1,481	3.5%	1,361	12.6%
SWISS FRANC	102,753	83,077	23.7%	73,131	40.5%
TURKISH LIRA	1,893	7,912	-76.1%	1,548	22.3%
USDZAR	0	0	-	0	-

\*\*\* 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.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>FX Options</b>					
AUD/USD PQO 2pm Fix	60,654	113,659	-46.6%	60,394	0.4%
AUSTRALIAN DLR (EU)	0	0	-	0	-
AUSTRALIAN DOLLAR	0	0	-	0	-
BRITISH POUND	0	0	-	0	-
BRITISH POUND (EU)	0	232	-100.0%	0	-
CAD/USD PQO 2pm Fix	65,067	84,529	-23.0%	68,353	-4.8%
CANADIAN DOLLAR	0	0	-	0	-
CANADIAN DOLLAR (EU)	0	50	-100.0%	0	-
CHF/USD PQO 2pm Fix	4,397	3,988	10.3%	3,309	32.9%
EFX/BP CROSS RATES	0	0	-	44	-100.0%
EFX/JY CROSS RATES	0	0	-	0	-
EURO FX	0	0	-	0	-
EURO FX (EU)	0	10	-100.0%	0	-
EUR/USD PQO 2pm Fix	286,932	297,012	-3.4%	246,214	16.5%
GBP/USD PQO 2pm Fix	133,594	133,067	0.4%	147,515	-9.4%
JAPANESE YEN	0	0	-	0	-
JAPANESE YEN (EU)	0	0	-	0	-
JPY/USD PQO 2pm Fix	142,583	143,610	-0.7%	94,580	50.8%
MEXICAN PESO	2,110	6,337	-66.7%	2,189	-3.6%
NEW ZEALND DOLLAR	237	0	-	66	259.1%
SWISS FRANC	0	0	-	0	-
SWISS FRANC (EU)	0	0	-	0	-
<b>Foreign Exchange Futures</b>					
CHILEAN PESO	0	1,268	-100.0%	0	-
<b>Foreign Exchange Options</b>					
AUD/USD PQO 2pm Fix	323	88	267.0%	349	-7.4%
<b>Ags Futures</b>					
FERTILIZER PRODUCS	1,100	775	41.9%	1,700	-35.3%

\*\*\* 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.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Ag Products Futures</b>					
BUTTER CS	8,642	7,030	22.9%	8,676	-0.4%
CASH-SETTLED CHEESE	21,364	25,746	-17.0%	23,086	-7.5%
CATTLE	417,852	349,350	19.6%	439,675	-5.0%
CAT WEATHER EUROPEAN	2,000	0	-	0	-
CDD SEASONAL STRIP	450	0	-	100	350.0%
CDD WEATHER	2,100	1,100	90.9%	2,000	5.0%
CHI WHEAT	471,069	462,550	1.8%	494,672	-4.8%
CLASS IV MILK	8,923	1,558	472.7%	7,681	16.2%
COCOA TAS	0	1	-100.0%	0	-
COFFEE	0	0	-	0	-
CORN	1,636,755	1,722,531	-5.0%	1,849,567	-11.5%
COTTON	0	0	-	0	-
DJ_UBS ROLL SELECT INDEX FU	1,909	2,951	-35.3%	1,909	0.0%
DOW-UBS COMMOD INDEX	28,326	68,678	-58.8%	24,564	15.3%
DRY WHEY	3,099	3,562	-13.0%	3,379	-8.3%
FEEDER CATTLE	50,025	44,212	13.1%	53,219	-6.0%
FERTILIZER PRODUCTS	2,345	3,095	-24.2%	2,550	-8.0%
GOLDMAN SACHS	13,595	15,343	-11.4%	13,212	2.9%
GSCI EXCESS RETURN FUT	52,554	58,318	-9.9%	53,396	-1.6%
HDD EURO SEASONAL STRIP	0	0	-	0	-
HDD SEASONAL STRIP	0	0	-	50	-100.0%
HDD WEATHER	0	0	-	1,000	-100.0%
HDD WEATHER EUROPEAN	1,000	0	-	1,000	0.0%
HOGS	317,740	260,117	22.2%	283,222	12.2%
HOUSING INDEX	59	39	51.3%	54	9.3%
Intercommodity Spread	0	0	-	0	-
KC WHEAT	325,511	247,017	31.8%	335,941	-3.1%
LUMBER	3,921	6,942	-43.5%	2,684	46.1%
MALAYSIAN PALM SWAP	20,304	17,556	15.7%	18,660	8.8%
MILK	23,901	23,439	2.0%	24,058	-0.7%
MINI CORN	6,793	11,299	-39.9%	7,383	-8.0%
MINI SOYBEAN	9,912	31,507	-68.5%	12,398	-20.1%
MINI WHEAT	2,076	2,096	-1.0%	2,152	-3.5%
MLK MID OPTIONS	0	0	-	0	-
NFD MILK	9,645	7,631	26.4%	9,235	4.4%
OATS	6,214	6,068	2.4%	5,021	23.8%
ROUGH RICE	7,786	9,327	-16.5%	8,034	-3.1%
SOYBEAN	727,286	852,135	-14.7%	738,963	-1.6%
SOYBEAN MEAL	464,362	513,151	-9.5%	456,798	1.7%
SOYBEAN OIL	487,062	502,261	-3.0%	479,711	1.5%
S&P GSCI ENHANCED ER SWAP	3,762	3,762	0.0%	3,762	0.0%
SUGAR 11	0	58	-100.0%	0	-
USD CRUDE PALM OIL	3,552	5,000	-29.0%	4,072	-12.8%
WHEAT	20,300	16,330	24.3%	22,273	-8.9%
<b>Ag Products Options</b>					
AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-
BUTTER CS	13,268	12,820	3.5%	13,050	1.7%
CASH-SETTLED CHEESE	34,169	43,210	-20.9%	35,379	-3.4%

\*\*\* 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.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>Ag Products Options</b>					
CATTLE	198,584	208,100	-4.6%	213,885	-7.2%
CAT WEATHER EUROPEAN	2,000	0	-	0	-
CDD SEASONAL STRIP	5,000	0	-	2,000	150.0%
CDD WEATHER	0	0	-	0	-
CHI WHEAT	334,710	394,811	-15.2%	406,175	-17.6%
CLASS IV MILK	14,006	4,119	240.0%	12,380	13.1%
CORN	1,227,103	1,588,645	-22.8%	1,226,167	0.1%
CORN NEARBY+2 CAL SPRD	7,715	6,308	22.3%	10,135	-23.9%
DEC-DEC CORN CAL SPRD	2,547	1,336	90.6%	573	344.5%
DEC-JULY CORN CAL SPRD	5,957	0	-	3,250	83.3%
DEC-JULY WHEAT CAL SPRD	0	0	-	0	-
DRY WHEY	3,491	2,651	31.7%	3,087	13.1%
FEEDER CATTLE	28,182	29,659	-5.0%	25,971	8.5%
HDD EURO SEASONAL STRIP	0	0	-	0	-
HDD SEASONAL STRIP	0	0	-	9,000	-100.0%
HDD WEATHER	0	0	-	0	-
HDD WEATHER EUROPEAN	0	0	-	0	-
HOGS	397,815	161,596	146.2%	361,315	10.1%
HOUSING INDEX	0	2	-100.0%	0	-
Intercommodity Spread	120	3,918	-96.9%	170	-29.4%
JAN-MAY SOYBEAN CAL SPRD	0	0	-	0	-
JULY-DEC CORN CAL SPRD	7,695	5,756	33.7%	5,145	49.6%
JULY-DEC SOYMEAL CAL SPRD	1,200	0	-	1,200	0.0%
JULY-DEC SOY OIL CAL SPRD	0	0	-	0	-
JULY-DEC WHEAT CAL SPRD	1,550	720	115.3%	1,500	3.3%
JULY-NOV SOYBEAN CAL SPRD	6,586	14,092	-53.3%	6,200	6.2%
KC WHEAT	71,554	66,370	7.8%	97,425	-26.6%
LUMBER	1,481	967	53.2%	2,012	-26.4%
LV CATL CSO	45	10	350.0%	369	-87.8%
MAR-JULY CORN CAL SPRD	0	0	-	0	-
MAR-JULY WHEAT CAL SPRD	0	0	-	0	-
MILK	78,015	74,392	4.9%	74,437	4.8%
MLK MID OPTIONS	213	370	-42.4%	183	16.4%
NFD MILK	23,626	17,030	38.7%	25,262	-6.5%
NOV-JULY SOYBEAN CAL SPRD	800	0	-	50	1,500.0%
NOV-MAR SOYBEAN CSO	0	70	-100.0%	0	-
NOV-NOV SOYBEAN CAL SPRD	114	5	2,180.0%	114	0.0%
OATS	1,147	539	112.8%	1,031	11.3%
ROUGH RICE	970	537	80.6%	3,200	-69.7%
SEP-DEC SOYBEAN MEAL CSO	0	0	-	0	-
SOYBEAN	516,582	658,257	-21.5%	558,068	-7.4%
SOYBEAN CRUSH	4	70	-94.3%	0	-
SOYBEAN MEAL	100,807	189,122	-46.7%	109,028	-7.5%
SOYBEAN OIL	60,389	72,533	-16.7%	85,108	-29.0%
SOYBN NEARBY+2 CAL SPRD	0	0	-	0	-
SOYMEAL NEARBY+2 CAL SPRD	450	400	12.5%	450	0.0%
WHEAT	12,559	0	-	9,694	29.6%
WHEAT-CORN IC SO	1,890	300	530.0%	1,250	51.2%
WHEAT NEARBY+2 CAL SPRD	885	3,300	-73.2%	632	40.0%

**\*\*\* 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.**

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.



## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2019	Open Interest APR 2018	% CHG	Open Interest MAR 2019	% CHG
<b>TOTAL FUTURES GROUP</b>					
Interest Rate Futures	31,263,288	30,937,276	1.1%	29,085,827	7.5%
Equity Index Futures	4,054,736	4,522,712	-10.3%	3,837,513	5.7%
Metals Futures	1,099,656	1,171,767	-6.2%	1,106,106	-0.6%
Energy Futures	10,739,123	14,974,036	-28.3%	10,595,875	1.4%
FX Futures	1,848,991	1,685,276	9.7%	1,651,859	11.9%
Foreign Exchange Futures	0	1,268	-100.0%	0	-
Ags Futures	1,100	775	41.9%	1,700	-35.3%
Ag Products Futures	5,162,194	5,281,760	-2.3%	5,394,157	-4.3%
<b>TOTAL FUTURES</b>	<b>54,169,088</b>	<b>58,574,870</b>	<b>-7.5%</b>	<b>51,673,037</b>	<b>4.8%</b>
<b>TOTAL OPTIONS GROUP</b>					
Interest Rate Options	62,411,472	50,990,861	22.4%	59,948,907	4.1%
Equity Index Options	4,174,374	4,255,747	-1.9%	3,667,314	13.8%
Metals Options	1,597,809	1,314,843	21.5%	1,569,026	1.8%
Energy Options	6,001,550	6,779,893	-11.5%	5,604,459	7.1%
FX Options	695,574	782,494	-11.1%	622,664	11.7%
Foreign Exchange Options	323	88	267.0%	349	-7.4%
Ag Products Options	3,163,229	3,562,015	-11.2%	3,304,895	-4.3%
<b>TOTAL OPTIONS</b>	<b>78,044,331</b>	<b>67,685,941</b>	<b>15.3%</b>	<b>74,717,614</b>	<b>4.5%</b>
<b>TOTAL COMBINED</b>					
Interest Rate	93,674,760	81,928,137	14.3%	89,034,734	5.2%
Equity Index	8,229,110	8,778,459	-6.3%	7,504,827	9.7%
Metals	2,697,465	2,486,610	8.5%	2,675,132	0.8%
Energy	16,740,673	21,753,929	-23.0%	16,200,334	3.3%
FX	2,544,565	2,467,770	3.1%	2,274,523	11.9%
Foreign Exchange	323	1,356	-76.2%	349	-7.4%
Ags	1,100	775	41.9%	1,700	-35.3%
Ag Products	8,325,423	8,843,775	-5.9%	8,699,052	-4.3%
<b>GRAND TOTAL</b>	<b>132,213,419</b>	<b>126,260,811</b>	<b>4.7%</b>	<b>126,390,651</b>	<b>4.6%</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.

The information herein is taken from source believed to be reliable. However, it is intended for the purposes of information and education only and is not guaranteed by the CME Group as to accuracy, completeness, nor trading results and does not constitute advice or continue a solicitation of the purchase or sale of any futures or options. The Rules and Regulations of the CME Group should be consulted as the authoritative source on all current contract specifications and regulations. The previous year Average Daily Volume (ADV) may slightly differ for CBOT legacy products based on the way CME Group defines the number of trading days. The open interest values are based on preliminary open interest values only.