

## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2019	Open Interest JUL 2018	% CHG	Open Interest JUN 2019	% CHG
<b>Interest Rate Futures</b>					
10-YR NOTE	3,924,439	3,767,808	4.2%	3,763,034	4.3%
10-YR SWAP RATE	126,327	32,051	294.1%	115,556	9.3%
15-YR SWAP RATE	10,850	0	-	10,850	0.0%
1-MONTH EURODOLLAR	15	4,224	-99.6%	38	-60.5%
20-YR SWAP RATE	90	0	-	90	0.0%
2-YR NOTE	3,891,293	1,957,889	98.7%	3,590,884	8.4%
2-YR SWAP RATE	29,251	0	-	24,439	19.7%
30-YR BOND	939,949	826,448	13.7%	918,107	2.4%
30-YR SWAP RATE	2,479	0	-	2,379	4.2%
3-YR SWAP RATE	17,341	0	-	10,639	63.0%
4-YR SWAP RATE	8,178	0	-	7,694	6.3%
5-YR NOTE	4,600,102	3,958,437	16.2%	4,475,582	2.8%
5-YR SWAP RATE	64,332	15,497	315.1%	62,776	2.5%
7-YR SWAP RATE	17,056	0	-	13,522	26.1%
EURODOLLARS	13,304,085	14,050,866	-5.3%	12,757,383	4.3%
FED FUND	2,313,322	1,989,864	16.3%	2,243,956	3.1%
SOFR	220,930	23,182	853.0%	145,179	52.2%
SONIA	14,629	0	-	15,650	-6.5%
Ultra 10-Year Note	783,312	583,925	34.1%	759,781	3.1%
ULTRA T-BOND	1,160,182	1,023,011	13.4%	1,146,267	1.2%
<b>Interest Rate Options</b>					
10-YR NOTE	3,689,203	2,994,864	23.2%	4,168,470	-11.5%
2-YR NOTE	295,149	350,960	-15.9%	459,752	-35.8%
30-YR BOND	812,965	777,742	4.5%	859,877	-5.5%
5-YR NOTE	1,952,044	1,313,332	48.6%	2,442,704	-20.1%
EURODOLLARS	44,911,941	26,934,031	66.7%	46,672,978	-3.8%
EURO MIDCURVE	16,660,366	16,469,674	1.2%	18,380,049	-9.4%
FED FUND	18,149	1,876	867.4%	1,002	1,711.3%
Ultra 10-Year Note	6,171	0	-	5,661	9.0%
ULTRA T-BOND	58,604	12,685	362.0%	43,511	34.7%

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<b>Equity Index Futures</b>					
BITCOIN FUTURES	4,520	3,435	31.6%	5,991	-24.6%
DJ US REAL ESTATE	26,581	27,768	-4.3%	28,007	-5.1%
E-mini (\$5) Dow	100,540	93,319	7.7%	85,322	17.8%
E-MINI COM SERVICES SELECT	7,413	0	-	4,665	58.9%
E-mini FTSE 100 (USD)	0	6	-100.0%	0	-
E-mini FTSE China 50	0	113	-100.0%	0	-
E-MINI MIDCAP	67,638	82,575	-18.1%	63,481	6.5%
E-MINI NASDAQ 100	233,304	240,305	-2.9%	212,158	10.0%
E-MINI RUSSELL 1000	8,499	10,380	-18.1%	8,402	1.2%
E-MINI RUSSELL 1000 GROWTH	4,066	4,608	-11.8%	3,920	3.7%
E-MINI RUSSELL 1000 VALUE	7,251	7,680	-5.6%	6,855	5.8%
E-MINI RUSSELL 2000	444,175	555,727	-20.1%	417,375	6.4%
E-MINI S&P500	2,619,664	2,763,140	-5.2%	2,479,713	5.6%
E-MINI S&P REAL ESTATE SELE	2,651	6,081	-56.4%	2,604	1.8%
FT-SE 100	0	15	-100.0%	0	-
FTSE Emerging	2	51	-96.1%	4	-50.0%
IBOVESPA INDEX	148	319	-53.6%	152	-2.6%
MICRO E-MINI NASDAQ 100	21,990	0	-	14,523	51.4%
MICRO E-MINI RUSSELL 2000	8,667	0	-	3,823	126.7%
MICRO E-MINI S&P500	23,934	0	-	24,750	-3.3%
MICRO MINI \$5 DOW	5,888	0	-	7,005	-15.9%
NASDAQ BIOTECH	318	656	-51.5%	217	46.5%
NIFTY 50	0	0	-	0	-
NIKKEI 225 (\$) STOCK	26,689	29,561	-9.7%	27,577	-3.2%
NIKKEI 225 (YEN) STOCK	56,499	54,461	3.7%	54,833	3.0%
S&P 500	253,775	206,178	23.1%	232,327	9.2%
S&P 500 ANNUAL DIVIDEND IND	120,322	113,877	5.7%	121,037	-0.6%
S&P 500/GI	10	13	-23.1%	10	0.0%
S&P 500 QUARLY DIVIDEND IND	240	380	-36.8%	200	20.0%
S&P 600 SMALLCAP EMINI	941	0	-	538	74.9%
S&P CONSUMER DSCRTNRY SE	3,580	6,778	-47.2%	3,303	8.4%
S&P CONSUMER STAPLES SECT	15,258	14,828	2.9%	15,075	1.2%
S&P ENERGY SECTOR	7,487	26,547	-71.8%	8,559	-12.5%
S&P FINANCIAL SECTOR	19,679	31,208	-36.9%	13,447	46.3%
S&P HEALTH CARE SECTOR	14,599	7,943	83.8%	12,509	16.7%
S&P INDUSTRIAL SECTOR	5,453	7,099	-23.2%	3,809	43.2%
S&P MATERIALS SECTOR	2,405	4,958	-51.5%	3,038	-20.8%
S&P TECHNOLOGY SECTOR	8,450	14,290	-40.9%	8,027	5.3%
S&P UTILITIES SECTOR	15,951	28,530	-44.1%	14,876	7.2%
S&P VALUE INDEX FUTURES	12	14	-14.3%	12	0.0%
YEN DENOMINATED TOPIX	650	264	146.2%	251	159.0%

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<b>Equity Index Options</b>					
E-mini (\$5) Dow	2,912	8,763	-66.8%	2,355	23.7%
E-MINI NASDAQ 100	62,173	76,436	-18.7%	56,726	9.6%
E-MINI RUSSELL 2000	11,211	10,953	2.4%	8,828	27.0%
E-MINI S&P500	2,242,110	1,975,425	13.5%	1,973,851	13.6%
EOM E-MINI RUSSELL 2000 END	3,684	1,601	130.1%	2,073	77.7%
EOM EMINI S&P	554,669	690,423	-19.7%	494,033	12.3%
EOM S&P 500	25,008	34,565	-27.6%	32,917	-24.0%
EOW1 E-MINI RUSSELL 2000 WE	378	495	-23.6%	524	-27.9%
EOW1 E-MINI RUSSELL 2000 WE	794	518	53.3%	1,446	-45.1%
EOW1 EMINI S&P 500	282,605	291,195	-2.9%	228,645	23.6%
EOW1 S&P 500	43,976	90,776	-51.6%	42,590	3.3%
EOW2 E-MINI RUSSELL 2000 WE	1,586	316	401.9%	1,116	42.1%
EOW2 EMINI S&P 500	107,867	179,827	-40.0%	105,428	2.3%
EOW2 S&P 500	5,799	9,113	-36.4%	7,890	-26.5%
EOW3 E-MINI RUSSELL 2000 WE	5,836	8,432	-30.8%	8,148	-28.4%
EOW3 EMINI S&P 500	560,756	860,692	-34.8%	717,160	-21.8%
EOW3 S&P 500	48,403	65,574	-26.2%	76,219	-36.5%
EOW4 E-MINI RUSSELL 2000 WE	51	254	-79.9%	224	-77.2%
EOW4 EMINI S&P 500	46,323	68,835	-32.7%	29,610	56.4%
S&P 500	37,533	92,589	-59.5%	63,740	-41.1%
<b>Metals Futures</b>					
ALUMINUM	51,375	66,674	-22.9%	49,466	3.9%
COMEX COPPER	273,459	301,147	-9.2%	247,503	10.5%
COMEX E-Mini GOLD	1,066	2,676	-60.2%	1,476	-27.8%
COMEX E-Mini SILVER	537	464	15.7%	172	212.2%
COMEX GOLD	566,328	454,891	24.5%	580,855	-2.5%
COMEX MINY COPPER	102	63	61.9%	92	10.9%
COMEX SILVER	236,526	227,415	4.0%	218,355	8.3%
COPPER	10,876	12,244	-11.2%	11,632	-6.5%
E-MICRO GOLD	18,124	9,074	99.7%	18,308	-1.0%
FERROUS PRODUCTS	2,845	2,606	9.2%	3,228	-11.9%
GOLD	0	0	-	0	-
Gold Kilo	0	0	-	0	-
IRON ORE 62 CHINA PLATTS FU	0	480	-100.0%	0	-
IRON ORE 62 CHINA TSI FUTURE	6,652	10,187	-34.7%	6,787	-2.0%
LNDN ZINC	3	32	-90.6%	12	-75.0%
NYMEX HOT ROLLED STEEL	19,031	14,521	31.1%	16,661	14.2%
NYMEX PLATINUM	77,167	82,168	-6.1%	84,971	-9.2%
PALLADIUM	25,855	22,231	16.3%	23,352	10.7%
SILVER	2,012	1,560	29.0%	1,885	6.7%
URANIUM	2,824	2,965	-4.8%	2,761	2.3%

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<b>Metals Options</b>					
COMEX COPPER	38,840	23,551	64.9%	38,504	0.9%
COMEX GOLD	1,560,979	1,204,727	29.6%	1,488,083	4.9%
COMEX SILVER	211,306	202,544	4.3%	180,743	16.9%
COPPER	76	6	1,166.7%	0	0.0%
GOLD	36,829	7,934	364.2%	44,640	-17.5%
HOT ROLLED COIL STEEL CALL	900	500	80.0%	600	50.0%
IRON ORE 62 CHINA TSI CALL O	1,200	1,412	-15.0%	1,210	-0.8%
IRON ORE 62 CHINA TSI PUT OP	630	580	8.6%	635	-0.8%
NYMEX PLATINUM	8,041	8,238	-2.4%	9,144	-12.1%
PALLADIUM	1,899	2,886	-34.2%	2,442	-22.2%
SILVER	2,403	941	155.4%	2,146	12.0%
<b>Energy Futures</b>					
3.5% FUEL OIL CID MED SWA	44	198	-77.8%	92	-52.2%
3.5% FUEL OIL CIF BALMO S	0	0	-	0	-
AEP-DAYTON HUB DAILY	38	82	-53.7%	38	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	823	-100.0%	0	-
ARGUS LLS VS. WTI (ARG) T	25,300	45,218	-44.0%	27,008	-6.3%
ARGUS PROPAN FAR EST INDE	5,558	5,028	10.5%	5,390	3.1%
ARGUS PROPAN(SAUDI ARAMC	1,597	1,613	-1.0%	1,596	0.1%
AUSTRIALIAN COKE COAL	24	192	-87.5%	28	-14.3%
BRENT BALMO SWAP	50	135	-63.0%	200	-75.0%
BRENT CALENDAR SWAP	31,206	19,100	63.4%	30,013	4.0%
BRENT CFD SWAP	0	0	-	0	-
BRENT FINANCIAL FUTURES	367	3,593	-89.8%	240	52.9%
BRENT OIL LAST DAY	240,145	197,874	21.4%	246,199	-2.5%
CAISO SP15 EZGNHUB5 MW P	0	0	-	0	-
CAISO SP15 EZGNHUB5 PEAK	0	0	-	0	-
CANADIAN LIGHT SWEET OIL	0	28	-100.0%	0	-
CENTERPOINT BASIS SWAP	468	5,251	-91.1%	577	-18.9%
CHICAGO ETHANOL SWAP	46,077	58,446	-21.2%	50,653	-9.0%
CHICAGO ULSD (PLATTS) SWA	0	0	-	0	-
CHICAGO ULSD PL VS HO SPR	3,241	1,456	122.6%	3,409	-4.9%
CHICAGO UNL GAS PL VS RBO	489	550	-11.1%	466	4.9%
CIG BASIS	2,790	13,454	-79.3%	3,360	-17.0%
CIG ROCKIES NG INDEX SWA	0	0	-	0	-
CINERGY HUB OFF-PEAK MONT	0	60	-100.0%	0	-
CINERGY HUB PEAK MONTH	0	144	-100.0%	0	-
CIN HUB 5MW D AH O PK	0	56,000	-100.0%	0	-
CIN HUB 5MW D AH PK	566	6,443	-91.2%	816	-30.6%
CIN HUB 5MW REAL TIME O P	82,104	288,024	-71.5%	91,904	-10.7%
CIN HUB 5MW REAL TIME PK	8,689	25,782	-66.3%	10,119	-14.1%
COAL SWAP	0	35	-100.0%	0	-
COLUMB GULF MAINLINE NG B	845	1,665	-49.2%	900	-6.1%

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<b>Energy Futures</b>					
COLUMBIA GULF ONSHORE	0	0	-	0	-
CONWAY NATURAL GASOLINE (	973	1,089	-10.7%	1,135	-14.3%
CONWAY NORMAL BUTANE (OPI	1,285	1,808	-28.9%	1,447	-11.2%
CONWAY PROPANE 5 DECIMALS	25,437	26,824	-5.2%	25,455	-0.1%
CRUDE OIL	19,711	22,022	-10.5%	20,161	-2.2%
CRUDE OIL OUTRIGHTS	174,622	156,006	11.9%	168,731	3.5%
CRUDE OIL PHY	2,058,829	2,358,174	-12.7%	2,024,588	1.7%
CRUDE OIL SPRDS	138,196	172,611	-19.9%	126,316	9.4%
CRUDE OIL TRADE AT MARKER	0	0	0.0%	0	0.0%
DAILY PJM	108,443	150,020	-27.7%	115,451	-6.1%
DATED BRENT (PLATTS) DAILY S	0	0	-	0	-
DATED TO FRONTLINE BRENT	995	4,790	-79.2%	1,690	-41.1%
DIESEL 10P BRG FOB RDM VS	0	0	-	0	-
DIESEL 10PPM BARGES FOB B	0	0	-	0	-
DOMINION TRAN INC - APP I	0	1,472	-100.0%	0	-
DOMINION TRANSMISSION INC	6,202	18,719	-66.9%	6,822	-9.1%
DUBAI CRUDE OIL BALMO	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	2,090	3,675	-43.1%	4,955	-57.8%
DUTCH TTF NATURAL GAS CAL	3,819	133	2,771.4%	3,000	27.3%
DY EURO 3.5% FUEL OI RDA	0	0	-	0	-
EASTERN RAIL DELIVERY CSX	0	135	-100.0%	0	-
EAST/WEST FUEL OIL SPREAD	47	107	-56.1%	41	14.6%
EIA FLAT TAX ONHWAY DIESE	1,798	1,858	-3.2%	1,750	2.7%
ELEC ERCOT DLY OFF PK	0	0	-	0	-
ELEC ERCOT DLY PEAK	0	600	-100.0%	0	-
ELEC ERCOT OFF PEAK	0	0	-	0	-
ELEC FINSETTLED	770	1,278	-39.7%	810	-4.9%
ELEC MISO PEAK	0	1,905	-100.0%	0	-
ELEC NYISO OFF-PEAK	0	35,775	-100.0%	0	-
ELECTRICITY ERCOT PEAK	0	0	-	0	-
ELECTRICITY OFF PEAK	61,462	23,474	161.8%	70,262	-12.5%
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	1,150	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW OF	0	6,720	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW OF	0	55,440	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW PE	0	2,100	-100.0%	0	-
ETHANOL	713	1,630	-56.3%	966	-26.2%
ETHANOL SWAP	220	110	100.0%	395	-44.3%
ETHANOL T2 FOB ROTT INCL DU	4,447	4,859	-8.5%	4,530	-1.8%
EURO 1% FUEL OIL NEW BALM	0	0	-	0	-
EURO 3.5% FUEL OIL RDAM B	77	678	-88.6%	6	1,183.3%
EURO 3.5% FUEL OIL SPREAD	42	189	-77.8%	65	-35.4%
EURO-DENOMINATED PETRO P	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	0	281	-100.0%	0	-
EUROPE 1% FUEL OIL NWE CA	300	192	56.2%	391	-23.3%
EUROPE 1% FUEL OIL RDAM C	3	3	0.0%	3	0.0%
EUROPE 3.5% FUEL OIL MED	55	238	-76.9%	92	-40.2%
EUROPE 3.5% FUEL OIL RDAM	5,186	13,072	-60.3%	5,860	-11.5%
EUROPEAN GASOIL (ICE)	54	179	-69.8%	35	54.3%

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EUROPEAN NAPHTHA BALMO	181	400	-54.8%	133	36.1%
EUROPEAN NAPHTHA CRACK SP	11,038	16,025	-31.1%	11,024	0.1%
EUROPE DATED BRENT SWAP	525	75	600.0%	985	-46.7%
EUROPE JET KERO NWE CALSW	20	24	-16.7%	23	-13.0%
EUROPE NAPHTHA CALSWAP	2,406	3,140	-23.4%	2,705	-11.1%
EURO PROPANE CIF ARA SWA	2,288	1,673	36.8%	2,129	7.5%
FLORIDA GAS ZONE3 BASIS S	0	0	-	0	-
FREIGHT MARKETS	3,535	2,278	55.2%	3,347	5.6%
FUEL OIL CRACK VS ICE	8,577	12,448	-31.1%	8,409	2.0%
FUEL OIL NWE CRACK VS ICE	156	171	-8.8%	161	-3.1%
FUEL OIL (PLATS) CAR CM	6	84	-92.9%	6	0.0%
FUEL OIL (PLATS) CAR CN	0	105	-100.0%	0	-
FUELOIL SWAP:CARGOES VS.B	776	779	-0.4%	923	-15.9%
GAS EURO-BOB OXY NWE BARG	5,317	6,456	-17.6%	5,555	-4.3%
GAS EURO-BOB OXY NWE BARG	24,916	34,315	-27.4%	26,633	-6.4%
GASOIL 0.1 CIF MED SWAP	0	0	-	0	-
GASOIL 0.1CIF MED VS ICE	0	0	-	0	-
GASOIL 0.1 CIF NWE VS ISE	0	0	-	5	-100.0%
GASOIL 0.1 CIF VS ICE GAS	0	0	-	0	-
GASOIL 0.1 RDAM BRGS VS I	6	102	-94.1%	11	-45.5%
GASOIL 0.1 ROTTERDAM BARG	46	220	-79.1%	53	-13.2%
GASOIL 10P CRG CIF NW VS	0	0	-	0	-
GASOIL 10PPM VS ICE SWAP	24	285	-91.6%	25	-4.0%
GASOIL BULLET SWAP	0	0	-	0	-
GASOIL CALENDAR SWAP	54	30	80.0%	50	8.0%
GASOIL CRACK SPREAD CALEN	12,231	19,416	-37.0%	12,072	1.3%
GASOIL MINI CALENDAR SWAP	823	744	10.6%	647	27.2%
GERMAN POWER BASELOAD CA	1,161	57	1,936.8%	1,238	-6.2%
GROUP THREE ULSD (PLATTS)	27	132	-79.5%	33	-18.2%
GROUP THREE UNLEAD GAS (P	0	375	-100.0%	0	-
GRP THREE ULSD(PLT)VS HEA	9,682	9,176	5.5%	10,013	-3.3%
GRP THREE UNL GS (PLT) VS	2,859	3,918	-27.0%	3,701	-22.8%
GULF COAST 3% FUEL OIL BA	791	1,671	-52.7%	324	144.1%
GULF COAST JET FUEL CLNDR	459	864	-46.9%	535	-14.2%
GULF COAST JET VS NYM 2 H	29,216	28,821	1.4%	32,335	-9.6%
GULF COAST NO.6 FUEL OIL	20,421	59,437	-65.6%	21,811	-6.4%
GULF COAST ULSD CALENDAR	1,602	1,546	3.6%	1,723	-7.0%
GULF COAST ULSD CRACK SPR	390	895	-56.4%	430	-9.3%
HEATING OIL BALMO CLNDR S	40	0	-	480	-91.7%
HEATING OIL CRCK SPRD BAL	0	0	-	0	-
HEATING OIL PHY	425,419	395,920	7.5%	378,052	12.5%
HENRY HUB BASIS SWAP	4,262	1,348	216.2%	6,432	-33.7%
HENRY HUB FINANCIAL LAST	0	21	-100.0%	0	-
HENRY HUB INDEX SWAP FUTU	6,370	2,224	186.4%	11,472	-44.5%
HENRY HUB SWAP	909,867	1,106,868	-17.8%	947,252	-3.9%
HOUSTON SHIP CHANNEL BASI	8,456	13,895	-39.1%	8,983	-5.9%
HTG OIL	172	220	-21.8%	137	25.5%
HUSTN SHIP CHNL PIPE SWP	0	0	-	0	-
ICE BRENT DUBAI SWAP	42,525	49,382	-13.9%	42,420	0.2%
ICE GASOIL BALMO SWAP	0	0	-	0	-
IN DELIVERY MONTH EUA	0	3,698	-100.0%	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2019	Open Interest JUL 2018	% CHG	Open Interest JUN 2019	% CHG
<b>Energy Futures</b>					
INDIANA MISO	3,575	25,214	-85.8%	4,595	-22.2%
INDONESIAN COAL	0	0	-	0	-
INDONESIAN COAL ICI4	764	215	255.3%	874	-12.6%
ISO NEW ENGLAND OFF-PEAK	0	0	-	0	-
ISO NEW ENGLAND PK LMP	0	0	-	0	-
JAPAN C&F NAPHTHA CRACK S	121	256	-52.7%	121	0.0%
JAPAN C&F NAPHTHA SWAP	1,477	2,662	-44.5%	1,539	-4.0%
JAPAN NAPHTHA BALMO SWAP	10	185	-94.6%	3	233.3%
JET AV FUEL (P) CAR FM ICE GA	0	12	-100.0%	0	-
JET CIF NWE VS ICE	201	552	-63.6%	243	-17.3%
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	4,165	2,915	42.9%	4,744	-12.2%
JKM LNG Futures	6,002	2,660	125.6%	5,462	9.9%
LA CARB DIESEL (OPIS)	0	0	-	0	-
LA CARB DIESEL (OPIS) SWA	51	900	-94.3%	82	-37.8%
LA CARBOB GASOLINE(OPIS)S	525	150	250.0%	325	61.5%
LA JET FUEL VS NYM NO 2 H	0	0	-	0	-
LA JET (OPIS) SWAP	1,385	2,085	-33.6%	2,022	-31.5%
LLS (ARGUS) CALENDAR SWAP	379	0	-	399	-5.0%
LLS (ARGUS) VS WTI SWAP	17,559	35,012	-49.8%	19,541	-10.1%
LOS ANGELES CARB GASOLINE	10	0	-	0	-
LTD NAT GAS	334,298	440,270	-24.1%	356,608	-6.3%
MARS (ARGUS) VS WTI SWAP	4,990	8,715	-42.7%	5,915	-15.6%
MARS (ARGUS) VS WTI TRD M	22,369	17,981	24.4%	25,877	-13.6%
MARS BLEND CRUDE OIL	0	0	-	0	-
MCCLOSKEY ARA ARGS COAL	20,839	37,668	-44.7%	22,983	-9.3%
MCCLOSKEY RCH BAY COAL	3,031	5,316	-43.0%	3,867	-21.6%
MGF FUT	0	10	-100.0%	0	-
MGN1 SWAP FUT	390	447	-12.8%	410	-4.9%
MICHIGAN BASIS	1,556	3,359	-53.7%	1,587	-2.0%
MICHIGAN MISO	0	17,577	-100.0%	0	-
MINI GAS EUROBOB OXY NWE A	114	552	-79.3%	223	-48.9%
MINI RBOB V. EBOBARG NWE BF	0	815	-100.0%	560	-100.0%
MINI RBOB V. EBOB(ARGUS) NW	4,135	3,215	28.6%	5,462	-24.3%
MINY HTG OIL	0	0	-	1	-100.0%
MINY NATURAL GAS	5,355	1,130	373.9%	4,262	25.6%
MINY RBOB GAS	0	0	-	1	-100.0%
MINY WTI CRUDE OIL	3,711	4,690	-20.9%	6,046	-38.6%
MJC FUT	210	330	-36.4%	240	-12.5%
MNC FUT	5,911	4,963	19.1%	6,605	-10.5%
MONT BELVIEU ETHANE 5 DECI	39,704	44,621	-11.0%	39,543	0.4%
MONT BELVIEU ETHANE OPIS B	155	300	-48.3%	225	-31.1%
MONT BELVIEU LDH PROPANE 5	138,200	124,863	10.7%	136,034	1.6%
MONT BELVIEU LDH PROPANE C	1,568	2,422	-35.3%	2,957	-47.0%
MONT BELVIEU NATURAL GASO	16,455	19,064	-13.7%	16,063	2.4%
MONT BELVIEU NATURAL GASO	815	215	279.1%	935	-12.8%
MONT BELVIEU NORMAL BUTAN	55,307	47,792	15.7%	53,667	3.1%
MONT BELVIEU NORMAL BUTAN	1,010	2,259	-55.3%	469	115.4%
NAT GAS BASIS SWAP	1,071	3,779	-71.7%	1,288	-16.8%
NATURAL GAS	79,778	78,338	1.8%	84,593	-5.7%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
NATURAL GAS FIXED PRICE SW	0	0	-	0	-
NATURAL GAS INDEX	0	0	-	0	-
NATURAL GAS PEN SWP	134,703	161,440	-16.6%	136,716	-1.5%
NATURAL GAS PHY	1,337,834	1,541,421	-13.2%	1,291,955	3.6%
NEPOOL CNCTCT 5MW D AH O	0	0	-	0	-
NEPOOL CONECTIC 5MW D AH	0	0	-	0	-
NEPOOL INTR HUB 5MW D AH	359,584	488,778	-26.4%	373,268	-3.7%
NEPOOL NE MASS 5MW D AH O	7,107	14,040	-49.4%	8,307	-14.4%
NEPOOL NE MASS 5MW D AH P	384	765	-49.8%	444	-13.5%
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	1,056	2,006	-47.4%	1,232	-14.3%
NEW YORK ETHANOL SWAP	1,592	1,855	-14.2%	1,486	7.1%
NEW YORK HUB ZONE G PEAK	1,254	2,958	-57.6%	1,188	5.6%
NEW YORK HUB ZONE J PEAK	1,705	1,360	25.4%	1,760	-3.1%
NGPL MID-CONTINENT	8,264	16,961	-51.3%	9,132	-9.5%
NGPL TEX/OK	11,597	20,888	-44.5%	13,702	-15.4%
N ILLINOIS HUB DAILY	98	178	-44.9%	98	0.0%
N ILLINOIS HUB MTHLY	0	0	-	0	-
NO 2 UP-DOWN SPREAD CALEN	0	195	-100.0%	125	-100.0%
NORTHERN NATURAL GAS DEMA	184	836	-78.0%	246	-25.2%
NORTHERN NATURAL GAS VENTL	552	1,420	-61.1%	738	-25.2%
NORTHERN ILLINOIS OFF-PEA	0	0	-	0	-
NORTHWEST ROCKIES BASIS S	7,341	25,910	-71.7%	8,705	-15.7%
N ROCKIES PIPE SWAP	0	0	-	0	-
NY1% VS GC SPREAD SWAP	2,108	5,113	-58.8%	2,010	4.9%
NY 2.2% FUEL OIL (PLATTS	0	0	-	0	-
NY 3.0% FUEL OIL (PLATTS	0	300	-100.0%	150	-100.0%
NY HARBOR 1% FUEL OIL BAL	25	0	-	0	-
NY HARBOR HEAT OIL SWP	8,289	8,256	0.4%	13,473	-38.5%
NY HARBOR LOW SULPUR GAS	840	300	180.0%	865	-2.9%
NY HARBOR RESIDUAL FUEL 1	1,124	2,212	-49.2%	1,115	0.8%
NY HARBOR RESIDUAL FUEL C	0	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	2,310	4,788	-51.8%	2,712	-14.8%
NYISO A	0	0	-	0	-
NYISO A OFF-PEAK	0	0	-	0	-
NYISO CAPACITY	862	2,002	-56.9%	972	-11.3%
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	12,514	31,774	-60.6%	13,298	-5.9%
NYISO ZONE A 5MW D AH PK	1,008	4,554	-77.9%	1,272	-20.8%
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	409,914	639,262	-35.9%	430,690	-4.8%
NYISO ZONE G 5MW D AH PK	22,870	28,260	-19.1%	17,331	32.0%
NYISO ZONE J 5MW D AH O P	61,566	194,441	-68.3%	73,326	-16.0%
NYISO ZONE J 5MW D AH PK	4,996	13,901	-64.1%	6,096	-18.0%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2019	Open Interest JUL 2018	% CHG	Open Interest JUN 2019	% CHG
<b>Energy Futures</b>					
NYMEX ALUMINUM FUTURES	396	612	-35.3%	396	0.0%
NYMEX ULSD VS NYMEX HO	0	0	-	0	-
NY ULSD (ARGUS) VS HEATING	634	316	100.6%	888	-28.6%
ONEOK OKLAHOMA NG BASIS	0	306	-100.0%	0	-
ONTARIO POWER SWAPS	0	0	-	30	-100.0%
PANHANDLE BASIS SWAP FUTU	2,659	8,418	-68.4%	3,031	-12.3%
PANHANDLE PIPE SWAP	0	985	-100.0%	0	-
PERMIAN BASIS SWAP	3,784	6,588	-42.6%	3,908	-3.2%
PETROCHEMICALS	10,818	12,860	-15.9%	10,546	2.6%
PETRO CRCKS & SPRDS ASIA	972	886	9.7%	981	-0.9%
PETRO CRCKS & SPRDS NA	71,608	88,737	-19.3%	73,094	-2.0%
PETRO CRK&SPRD EURO	10,676	19,044	-43.9%	11,489	-7.1%
PETROLEUM PRODUCTS	3,560	4,860	-26.7%	4,345	-18.1%
PETROLEUM PRODUCTS ASIA	2,614	2,466	6.0%	2,440	7.1%
PETRO OUTRIGHT EURO	9,112	12,823	-28.9%	9,799	-7.0%
PETRO OUTRIGHT NA	9,350	8,783	6.5%	7,911	18.2%
PJM AD HUB 5MW REAL TIME	199,357	281,006	-29.1%	208,399	-4.3%
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	0	-	0	-
PJM BGE DA OFF-PEAK	0	4,770	-100.0%	0	-
PJM BGE DA PEAK	0	254	-100.0%	0	-
PJM COMED 5MW D AH O PK	0	11,925	-100.0%	0	-
PJM COMED 5MW D AH PK	0	635	-100.0%	0	-
PJM DAILY	918	990	-7.3%	934	-1.7%
PJM DAYTON DA OFF-PEAK	54,645	82,928	-34.1%	56,605	-3.5%
PJM DAYTON DA PEAK	3,410	7,195	-52.6%	3,630	-6.1%
PJM JCPL DA OFF-PEAK	0	0	-	0	-
PJM JCPL DA PEAK	0	0	-	0	-
PJM MONTHLY	240	1,100	-78.2%	280	-14.3%
PJM NI HUB 5MW REAL TIME	66,442	373,202	-82.2%	74,968	-11.4%
PJM NILL DA OFF-PEAK	53,890	233,974	-77.0%	67,218	-19.8%
PJM NILL DA PEAK	3,276	14,491	-77.4%	4,134	-20.8%
PJM OFF-PEAK LMP SWAP FUT	0	244	-100.0%	0	-
PJM PECO ZONE5MW PEAK CAL	2,560	0	-	2,960	-13.5%
PJM PPL DA OFF-PEAK	0	0	-	0	-
PJM PPL DA PEAK	0	0	-	0	-
PJM PSEG DA OFF-PEAK	59,225	21,480	175.7%	69,225	-14.4%
PJM PSEG DA PEAK	3,200	0	-	3,700	-13.5%
PJM WESTH DA OFF-PEAK	99,084	273,371	-63.8%	111,628	-11.2%
PJM WESTHDA PEAK	5,322	14,695	-63.8%	6,026	-11.7%
PJM WESTH RT OFF-PEAK	603,367	1,345,230	-55.1%	653,935	-7.7%
PJM WESTH RT PEAK	87,236	87,111	0.1%	97,480	-10.5%
PLASTICS	3,411	715	377.1%	3,329	2.5%
PREMIUM UNLD 10P FOB MED	238	426	-44.1%	260	-8.5%
PREMIUM UNLEAD 10PPM FOB	10	31	-67.7%	0	-
PREM UNL GAS 10PPM RDAM F	0	0	-	0	-
PREM UNL GAS 10PPM RDAM F	0	30	-100.0%	0	-
PROPANE NON-LDH MB (OPIS) B	1,078	473	127.9%	1,442	-25.2%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
PROPANE NON-LDH MT. BEL (OF	62,405	52,624	18.6%	61,928	0.8%
RBOB CALENDAR SWAP	14,972	18,636	-19.7%	17,307	-13.5%
RBOB CRACK SPREAD	4,173	6,399	-34.8%	4,496	-7.2%
RBOB CRACK SPREAD BALMO S	0	0	-	0	-
RBOB GAS	104	112	-7.1%	100	4.0%
RBOB GASOLINE BALMO CLNDR	821	374	119.5%	1,084	-24.3%
RBOB PHY	401,151	470,601	-14.8%	367,751	9.1%
RBOB SPREAD (PLATTS) SWAP	0	0	-	0	-
RBOB VS HEATING OIL SWAP	75	930	-91.9%	75	0.0%
SAN JUAN BASIS SWAP	2,910	12,945	-77.5%	3,623	-19.7%
SAN JUAN PIPE SWAP	0	360	-100.0%	0	-
SINGAPORE 180CST BALMO	15	45	-66.7%	5	200.0%
SINGAPORE 380CST BALMO	343	323	6.2%	26	1,219.2%
SINGAPORE 380CST FUEL OIL	4,864	12,908	-62.3%	5,287	-8.0%
SINGAPORE FUEL 180CST CAL	416	1,213	-65.7%	481	-13.5%
SINGAPORE FUEL OIL SPREAD	205	1,229	-83.3%	201	2.0%
SINGAPORE GASOIL	9,779	10,014	-2.3%	8,997	8.7%
SINGAPORE GASOIL CALENDAR	676	30	2,153.3%	287	135.5%
SINGAPORE GASOIL SWAP	1,102	7,910	-86.1%	1,327	-17.0%
SINGAPORE GASOIL VS ICE	10,405	45,861	-77.3%	12,515	-16.9%
SINGAPORE JET KERO BALMO	0	0	-	0	-
SINGAPORE JET KERO GASOIL	3,525	11,710	-69.9%	4,235	-16.8%
SINGAPORE JET KEROSENE SW	1,510	2,520	-40.1%	1,685	-10.4%
SINGAPORE JET KERO VS. GAS	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEAD	50	570	-91.2%	50	0.0%
SINGAPORE MOGAS 92 UNLEAD	12,371	15,107	-18.1%	15,664	-21.0%
SINGAPORE NAPHTHA SWAP	0	0	-	0	-
SING FUEL	0	15	-100.0%	0	-
SOCAL PIPE SWAP	0	0	-	0	-
SONAT BASIS SWAP FUTURE	0	0	-	0	-
SOUTH STAR TEX OKLHM KNS	0	50	-100.0%	0	-
Sumas Basis Swap	1,189	3,860	-69.2%	1,313	-9.4%
SUMAS NAT GAS PLATTS FIXED	0	0	-	0	-
TC2 ROTTERDAM TO USAC 37K	630	180	250.0%	354	78.0%
TC5 RAS TANURA TO YOKOHAM	1,184	0	-	1,104	7.2%
TCO BASIS SWAP	2,568	6,157	-58.3%	2,940	-12.7%
TCO NG INDEX SWAP	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	13,213	3,250	306.6%	12,125	9.0%
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	306	-100.0%	0	-
TEXAS EASTERN ZONE M-3 BA	1,220	3,833	-68.2%	1,282	-4.8%
TEXAS GAS ZONE1 NG BASIS	0	2,404	-100.0%	0	-
Transco Zone 3 Basis	0	1,377	-100.0%	0	-
TRANSCO ZONE 3 NG INDEX S	0	0	-	0	-
TRANSCO ZONE4 BASIS SWAP	2,207	5,039	-56.2%	2,343	-5.8%
TRANSCO ZONE 4 NAT GAS IN	0	0	-	0	-
TRANSCO ZONE 6 BASIS SWAP	0	1,130	-100.0%	0	-
TRANSCO ZONE 6 INDEX	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
UCM FUT	0	10	-100.0%	0	-
UK NBP NAT GAS CAL MTH FUT	60	140	-57.1%	80	-25.0%
ULSD 10PPM CIF MED SWAP	0	0	-	0	-
ULSD 10PPM CIF MED VS ICE	0	0	-	0	-
ULSD 10PPM CIF NW BALMO S	0	0	-	0	-
ULSD UP-DOWN BALMO SWP	4,770	3,980	19.8%	4,500	6.0%
UP DOWN GC ULSD VS NMX HO	46,978	38,816	21.0%	47,441	-1.0%
WAHA BASIS	1,205	3,950	-69.5%	1,429	-15.7%
WAHA INDEX SWAP FUTURE	0	0	-	0	-
WESTERN RAIL DELIVERY PRB	0	175	-100.0%	0	-
WTI-BRENT BULLET SWAP	2,119	6,704	-68.4%	2,604	-18.6%
WTI-BRENT CALENDAR SWAP	171,327	122,393	40.0%	185,499	-7.6%
WTI CALENDAR	181,363	177,213	2.3%	185,191	-2.1%
WTS (ARGUS) VS WTI SWAP	65,472	59,822	9.4%	64,027	2.3%
WTS (ARGUS) VS WTI TRD MT	4,845	4,608	5.1%	5,524	-12.3%
<b>Energy Options</b>					
12 MO GASOIL CAL SWAP SPR	0	0	-	0	-
BRENT 1 MONTH CAL	0	0	-	0	-
BRENT CALENDAR SWAP	8,401	6,460	30.0%	8,978	-6.4%
BRENT CRUDE OIL 12 M CSO	0	0	-	0	-
BRENT CRUDE OIL 1 M CSO	18,390	118,556	-84.5%	23,850	-22.9%
BRENT CRUDE OIL 6 M CSO	0	0	-	0	-
BRENT OIL LAST DAY	221,555	278,091	-20.3%	257,457	-13.9%
COAL API2 INDEX	480	4,875	-90.2%	280	71.4%
COAL API4 INDEX	0	25	-100.0%	0	-
COAL SWAP	0	135	-100.0%	0	-
CRUDE OIL	150	0	-	150	0.0%
CRUDE OIL 1MO	647,481	442,700	46.3%	564,481	14.7%
CRUDE OIL APO	367,013	416,857	-12.0%	381,202	-3.7%
CRUDE OIL CALNDR STRIP	200	170	17.6%	200	0.0%
CRUDE OIL OUTRIGHTS	0	2,680	-100.0%	0	-
CRUDE OIL PHY	2,418,002	3,026,481	-20.1%	2,453,483	-1.4%
ELEC MISO PEAK	0	0	-	0	-
ETHANOL	0	150	-100.0%	0	-
ETHANOL SWAP	17,820	13,629	30.8%	17,017	4.7%
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	53,529	42,976	24.6%	53,701	-0.3%
HENRY HUB FINANCIAL LAST	9,798	5,578	75.7%	9,840	-0.4%
HO 1 MONTH CLNDR OPTIONS	500	0	-	1,000	-50.0%
LLS CRUDE OIL	0	1,500	-100.0%	0	-
MCCLOSKEY ARA ARGS COAL	0	225	-100.0%	0	-
MCCLOSKEY RCH BAY COAL	450	430	4.7%	450	0.0%
NATURAL GAS	0	0	-	0	-
NATURAL GAS 1 M CSO FIN	68,850	22,570	205.1%	28,000	145.9%
NATURAL GAS 2 M CSO FIN	825	0	-	625	32.0%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Options</b>					
NATURAL GAS 3 M CSO FIN	36,550	40,720	-10.2%	39,050	-6.4%
NATURAL GAS 5 M CSO FIN	1,100	0	-	1,100	0.0%
NATURAL GAS 6 M CSO FIN	12,250	5,550	120.7%	12,100	1.2%
NATURAL GAS OPTION ON CALE	16,164	12,686	27.4%	10,904	48.2%
NATURAL GAS PHY	1,769,426	1,776,462	-0.4%	1,734,992	2.0%
NATURAL GAS WINTER STRIP	1,300	0	-	1,300	0.0%
N ROCKIES PIPE SWAP	3,384	2,278	48.6%	2,424	39.6%
NY HARBOR HEAT OIL SWP	13,445	15,711	-14.4%	14,530	-7.5%
NYISO ZONE G 5MW PEAK OPTI	0	0	-	0	-
NYMEX EUROPEAN GASOIL APO	0	0	-	0	-
PANHANDLE PIPE SWAP	0	2,400	-100.0%	0	-
PETROCHEMICALS	5,494	5,248	4.7%	5,630	-2.4%
PETRO OUTRIGHT EURO	24	0	-	24	0.0%
PETRO OUTRIGHT NA	756	36	2,000.0%	682	10.9%
PJM WES HUB PEAK CAL MTH	1,260	1,780	-29.2%	1,200	5.0%
PJM WES HUB PEAK LMP 50MW	555	6,803	-91.8%	1,061	-47.7%
RBOB 1MO CAL SPD OPTIONS	0	0	-	0	-
RBOB CALENDAR SWAP	172	525	-67.2%	144	19.4%
RBOB CRACK	0	0	-	0	-
RBOB PHY	17,263	10,915	58.2%	18,569	-7.0%
ROTTERDAM 3.5%FUEL OIL CL	0	0	-	0	-
SAN JUAN PIPE SWAP	1,878	2,198	-14.6%	1,274	47.4%
SHORT TERM	0	0	-	0	-
SHORT TERM NATURAL GAS	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	115,935	198,561	-41.6%	113,735	1.9%
WTI CRUDE OIL 1 M CSO FI	148,335	136,550	8.6%	163,460	-9.3%

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## CME Group Exchange Open Interest Report - Monthly

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<b>FX Futures</b>					
AD/CD CROSS RATES	3	2	50.0%	3	0.0%
AD/JY CROSS RATES	426	1,278	-66.7%	751	-43.3%
AD/NE CROSS RATES	165	55	200.0%	85	94.1%
AUSTRALIAN DOLLAR	171,118	137,318	24.6%	160,364	6.7%
BDI	0	0	-	0	-
BP/JY CROSS RATES	1,495	429	248.5%	1,281	16.7%
BP/SF CROSS RATES	101	111	-9.0%	35	188.6%
BRAZIL REAL	31,288	41,343	-24.3%	44,517	-29.7%
BRITISH POUND	289,834	190,347	52.3%	213,684	35.6%
CANADIAN DOLLAR	181,080	140,270	29.1%	154,785	17.0%
CD/JY CROSS RATES	1	6	-83.3%	0	-
CHINESE RENMINBI (CNH)	2,176	678	220.9%	2,813	-22.6%
CZECK KORUNA (EC)	6	2	200.0%	6	0.0%
CZECK KORUNA (US)	0	15	-100.0%	0	-
EC/AD CROSS RATES	2,634	1,723	52.9%	2,640	-0.2%
EC/CD CROSS RATES	1,761	1,612	9.2%	1,816	-3.0%
EC/NOK CROSS RATES	524	270	94.1%	439	19.4%
EC/SEK CROSS RATES	615	895	-31.3%	533	15.4%
EFX/BP CROSS RATES	28,332	34,384	-17.6%	25,575	10.8%
EFX/JY CROSS RATES	27,218	25,698	5.9%	25,412	7.1%
EFX/SF CROSS RATES	16,000	9,599	66.7%	12,913	23.9%
E-MICRO AUD/USD	5,277	2,057	156.5%	3,077	71.5%
E-MICRO CAD/USD	2,584	1,886	37.0%	1,872	38.0%
E-MICRO CHF/USD	405	239	69.5%	289	40.1%
E-MICRO EUR/USD	10,311	7,344	40.4%	6,698	53.9%
E-MICRO GBP/USD	3,677	2,312	59.0%	1,647	123.3%
E-MICRO INR/USD	576	256	125.0%	233	147.2%
E-MICRO JPY/USD	1,982	1,081	83.3%	1,725	14.9%
E-MINI EURO FX	15,831	13,081	21.0%	14,151	11.9%
E-MINI JAPANESE YEN	1,013	871	16.3%	556	82.2%
EURO FX	567,649	500,522	13.4%	520,747	9.0%
HUNGARIAN FORINT (EC)	0	0	-	0	-
HUNGARIAN FORINT (US)	0	31	-100.0%	0	-
INDIAN RUPEE	1,624	814	99.5%	2,031	-20.0%
JAPANESE YEN	136,203	197,758	-31.1%	137,015	-0.6%
KOREAN WON	667	355	87.9%	693	-3.8%
MEXICAN PESO	226,897	189,774	19.6%	223,731	1.4%
NEW ZEALND DOLLAR	54,309	51,817	4.8%	56,826	-4.4%
NKR/USD CROSS RATE	2,484	1,739	42.8%	1,860	33.5%
POLISH ZLOTY (EC)	6	5	20.0%	3	100.0%
POLISH ZLOTY (US)	118	12	883.3%	74	59.5%
RMB USD	1	1	0.0%	1	0.0%
RUSSIAN RUBLE	79,241	26,664	197.2%	74,130	6.9%
S.AFRICAN RAND	27,694	10,754	157.5%	16,603	66.8%
SF/JY CROSS RATES	0	0	-	0	-
SHEKEL	0	24	-100.0%	0	-
SKR/USD CROSS RATES	1,501	1,729	-13.2%	1,302	15.3%
SWISS FRANC	59,833	91,102	-34.3%	50,999	17.3%
TURKISH LIRA	1,718	1,540	11.6%	1,773	-3.1%
USDZAR	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

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<b>FX Options</b>					
AUD/USD PQO 2pm Fix	51,599	63,561	-18.8%	57,850	-10.8%
AUSTRALIAN DLR (EU)	0	0	-	0	-
AUSTRALIAN DOLLAR	0	0	-	0	-
BRAZIL REAL	5	0	-	56	-91.1%
BRITISH POUND	0	0	-	0	-
BRITISH POUND (EU)	0	104	-100.0%	0	-
CAD/USD PQO 2pm Fix	52,181	79,746	-34.6%	55,217	-5.5%
CANADIAN DOLLAR	0	0	-	0	-
CANADIAN DOLLAR (EU)	0	0	-	0	-
CHF/USD PQO 2pm Fix	4,684	6,982	-32.9%	4,268	9.7%
EFX/BP CROSS RATES	0	0	-	0	-
EFX/JY CROSS RATES	0	0	-	0	-
EURO FX	0	0	-	0	-
EURO FX (EU)	0	17	-100.0%	0	-
EUR/USD PQO 2pm Fix	277,208	300,417	-7.7%	238,260	16.3%
GBP/USD PQO 2pm Fix	119,284	137,998	-13.6%	85,690	39.2%
JAPANESE YEN	0	0	-	0	-
JAPANESE YEN (EU)	0	0	-	0	-
JPY/USD PQO 2pm Fix	113,024	138,387	-18.3%	120,917	-6.5%
MEXICAN PESO	1,811	2,715	-33.3%	1,602	13.0%
NEW ZEALND DOLLAR	619	0	-	230	169.1%
SWISS FRANC	0	0	-	0	-
SWISS FRANC (EU)	0	0	-	0	-
<b>Foreign Exchange Futures</b>					
CHILEAN PESO	0	558	-100.0%	0	-
<b>Foreign Exchange Options</b>					
AUD/USD PQO 2pm Fix	3	0	-	32	-90.6%
<b>Ags Futures</b>					
FERTILIZER PRODUCS	1,665	1,290	29.1%	2,005	-17.0%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2019	Open Interest JUL 2018	% CHG	Open Interest JUN 2019	% CHG
<b>Ag Products Futures</b>					
BUTTER CS	8,637	7,512	15.0%	8,554	1.0%
CASH-SETTLED CHEESE	22,392	26,300	-14.9%	20,931	7.0%
CATTLE	320,908	310,247	3.4%	349,957	-8.3%
CAT WEATHER EUROPEAN	1,200	0	-	1,200	0.0%
CDD SEASONAL STRIP	450	600	-25.0%	450	0.0%
CDD WEATHER	5,775	0	-	6,925	-16.6%
CHI WHEAT	387,703	490,485	-21.0%	366,960	5.7%
CLASS IV MILK	7,791	1,570	396.2%	8,958	-13.0%
COCOA TAS	0	0	-	0	-
COFFEE	0	0	-	0	-
CORN	1,805,431	1,852,366	-2.5%	1,730,941	4.3%
COTTON	2	0	-	4	-50.0%
DJ_UBS ROLL SELECT INDEX FU	1,807	2,951	-38.8%	1,807	0.0%
DOW-UBS COMMOD INDEX	26,072	32,728	-20.3%	22,713	14.8%
DRY WHEY	2,873	4,206	-31.7%	2,964	-3.1%
FEEDER CATTLE	47,223	54,748	-13.7%	48,783	-3.2%
FERTILIZER PRODUCTS	2,620	2,670	-1.9%	3,990	-34.3%
GOLDMAN SACHS	13,170	15,357	-14.2%	13,388	-1.6%
GSCI EXCESS RETURN FUT	42,620	55,405	-23.1%	45,062	-5.4%
HDD EURO SEASONAL STRIP	0	0	-	0	-
HDD SEASONAL STRIP	0	0	-	0	-
HDD WEATHER	0	0	-	0	-
HDD WEATHER EUROPEAN	0	0	-	0	-
HOGS	282,032	240,288	17.4%	295,022	-4.4%
HOUSING INDEX	50	44	13.6%	45	11.1%
Intercommodity Spread	0	0	-	0	-
KC WHEAT	290,326	284,072	2.2%	259,900	11.7%
LUMBER	2,757	5,194	-46.9%	2,627	4.9%
MALAYSIAN PALM SWAP	27,744	23,016	20.5%	21,724	27.7%
MILK	21,882	24,840	-11.9%	23,635	-7.4%
MINI CORN	11,935	12,693	-6.0%	11,937	0.0%
MINI SOYBEAN	9,005	24,225	-62.8%	9,990	-9.9%
MINI WHEAT	1,435	3,201	-55.2%	1,023	40.3%
MLK MID OPTIONS	7	0	-	0	-
NFD MILK	9,298	7,613	22.1%	10,045	-7.4%
OATS	4,743	5,119	-7.3%	4,776	-0.7%
ROUGH RICE	8,806	8,416	4.6%	6,002	46.7%
SOYBEAN	618,270	804,501	-23.1%	642,446	-3.8%
SOYBEAN MEAL	434,258	514,557	-15.6%	438,060	-0.9%
SOYBEAN OIL	433,605	517,659	-16.2%	416,877	4.0%
S&P GSCI ENHANCED ER SWAP	3,762	3,762	0.0%	3,851	-2.3%
SUGAR 11	0	0	-	0	-
USD CRUDE PALM OIL	3,580	5,320	-32.7%	3,750	-4.5%
WHEAT	26,754	26,600	0.6%	23,501	13.8%
<b>Ag Products Options</b>					
AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-
BUTTER CS	8,965	14,756	-39.2%	12,548	-28.6%
CASH-SETTLED CHEESE	24,479	39,225	-37.6%	28,818	-15.1%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Ag Products Options</b>					
CATTLE	193,731	189,036	2.5%	186,025	4.1%
CAT WEATHER EUROPEAN	0	0	-	0	-
CDD SEASONAL STRIP	5,000	700	614.3%	5,000	0.0%
CDD WEATHER	0	0	-	0	-
CHI WHEAT	377,239	425,710	-11.4%	355,638	6.1%
CLASS IV MILK	12,029	3,803	216.3%	13,775	-12.7%
CORN	1,731,981	1,721,612	0.6%	1,776,689	-2.5%
CORN NEARBY+2 CAL SPRD	23,780	7,078	236.0%	20,224	17.6%
DEC-DEC CORN CAL SPRD	7,546	4,508	67.4%	7,085	6.5%
DEC-JULY CORN CAL SPRD	14,460	7,794	85.5%	11,458	26.2%
DEC-JULY WHEAT CAL SPRD	0	32	-100.0%	0	-
DRY WHEY	2,597	3,013	-13.8%	3,502	-25.8%
FEEDER CATTLE	42,210	36,876	14.5%	38,234	10.4%
HDD EURO SEASONAL STRIP	0	0	-	0	-
HDD SEASONAL STRIP	0	3,000	-100.0%	0	-
HDD WEATHER	0	0	-	0	-
HDD WEATHER EUROPEAN	0	0	-	0	-
HOGS	425,291	192,160	121.3%	420,194	1.2%
HOUSING INDEX	7	2	250.0%	7	0.0%
Intercommodity Spread	0	900	-100.0%	0	-
JAN-MAY SOYBEAN CAL SPRD	0	0	-	0	-
JULY-DEC CORN CAL SPRD	2,958	0	-	2,305	28.3%
JULY-DEC SOYMEAL CAL SPRD	0	1,200	-100.0%	0	-
JULY-DEC SOY OIL CAL SPRD	0	0	-	0	-
JULY-DEC WHEAT CAL SPRD	0	0	-	0	-
JULY-NOV SOYBEAN CAL SPRD	0	0	-	0	-
KC WHEAT	68,631	77,460	-11.4%	62,763	9.3%
LUMBER	1,897	1,377	37.8%	1,393	36.2%
LV CATL CSO	40	43	-7.0%	40	0.0%
MAR-JULY CORN CAL SPRD	20	0	-	0	-
MAR-JULY WHEAT CAL SPRD	0	0	-	0	-
MILK	61,466	83,809	-26.7%	74,815	-17.8%
MLK MID OPTIONS	109	341	-68.0%	170	-35.9%
NFD MILK	11,528	17,056	-32.4%	18,932	-39.1%
NOV-JULY SOYBEAN CAL SPRD	3,250	0	-	3,000	8.3%
NOV-MAR SOYBEAN CSO	20	120	-83.3%	20	0.0%
NOV-NOV SOYBEAN CAL SPRD	884	5	17,580.0%	864	2.3%
OATS	623	688	-9.4%	640	-2.7%
ROUGH RICE	2,616	2,160	21.1%	1,560	67.7%
SEP-DEC SOYBEAN MEAL CSO	0	712	-100.0%	0	-
SOYBEAN	526,486	726,741	-27.6%	544,648	-3.3%
SOYBEAN CRUSH	4	50	-92.0%	4	0.0%
SOYBEAN MEAL	101,085	189,721	-46.7%	106,086	-4.7%
SOYBEAN OIL	66,008	71,695	-7.9%	61,588	7.2%
SOYBN NEARBY+2 CAL SPRD	5,500	10	54,900.0%	5,500	0.0%
SOYMEAL NEARBY+2 CAL SPRD	25	250	-90.0%	0	-
WHEAT	15,895	300	5,198.3%	17,089	-7.0%
WHEAT-CORN IC SO	100	835	-88.0%	0	-
WHEAT NEARBY+2 CAL SPRD	650	1,795	-63.8%	450	44.4%

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## CME Group Exchange Open Interest Report - Monthly

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<b>TOTAL FUTURES GROUP</b>					
Interest Rate Futures	31,428,162	28,233,202	11.3%	30,063,806	4.5%
Equity Index Futures	4,139,249	4,343,107	-4.7%	3,888,395	6.5%
Metals Futures	1,294,782	1,211,398	6.9%	1,267,516	2.2%
Energy Futures	10,186,209	13,781,224	-26.1%	10,348,906	-1.6%
FX Futures	1,956,378	1,689,803	15.8%	1,765,688	10.8%
Foreign Exchange Futures	0	558	-100.0%	0	-
Ags Futures	1,665	1,290	29.1%	2,005	-17.0%
Ag Products Futures	4,886,923	5,368,265	-9.0%	4,808,798	1.6%
<b>TOTAL FUTURES</b>	<b>53,893,368</b>	<b>54,628,847</b>	<b>-1.3%</b>	<b>52,145,114</b>	<b>3.4%</b>
<b>TOTAL OPTIONS GROUP</b>					
Interest Rate Options	68,404,592	48,855,164	40.0%	73,034,004	-6.3%
Equity Index Options	4,043,674	4,466,782	-9.5%	3,853,523	4.9%
Metals Options	1,863,103	1,453,319	28.2%	1,768,147	5.4%
Energy Options	5,978,735	6,602,511	-9.4%	5,922,893	0.9%
FX Options	620,415	729,927	-15.0%	564,090	10.0%
Foreign Exchange Options	3	0	-	32	-90.6%
Ag Products Options	3,739,110	3,826,573	-2.3%	3,781,064	-1.1%
<b>TOTAL OPTIONS</b>	<b>84,649,632</b>	<b>65,934,276</b>	<b>28.4%</b>	<b>88,923,753</b>	<b>-4.8%</b>
<b>TOTAL COMBINED</b>					
Interest Rate	99,832,754	77,088,366	29.5%	103,097,810	-3.2%
Equity Index	8,182,923	8,809,889	-7.1%	7,741,918	5.7%
Metals	3,157,885	2,664,717	18.5%	3,035,663	4.0%
Energy	16,164,944	20,383,735	-20.7%	16,271,799	-0.7%
FX	2,576,793	2,419,730	6.5%	2,329,778	10.6%
Foreign Exchange	3	558	-99.5%	32	-90.6%
Ags	1,665	1,290	29.1%	2,005	-17.0%
Ag Products	8,626,033	9,194,838	-6.2%	8,589,862	0.4%
<b>GRAND TOTAL</b>	<b>138,543,000</b>	<b>120,563,123</b>	<b>14.9%</b>	<b>141,068,867</b>	<b>-1.8%</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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