

## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2018	Open Interest JUL 2017	% CHG	Open Interest JUN 2018	% CHG
<b>Interest Rate Futures</b>					
10-YR NOTE	3,767,808	3,202,411	17.7%	3,515,551	7.2%
10-YR SWAP RATE	32,051	31,201	2.7%	31,012	3.4%
1-MONTH EURODOLLAR	4,224	5,995	-29.5%	7,569	-44.2%
2-YR NOTE	1,957,889	1,375,416	42.3%	1,873,958	4.5%
2-YR SWAP RATE	0	0	-	0	-
30-YR BOND	826,448	732,092	12.9%	792,810	4.2%
30-YR SWAP RATE	0	216	-100.0%	0	-
5-YR NOTE	3,958,437	2,959,255	33.8%	3,811,091	3.9%
5-YR SWAP RATE	15,497	22,641	-31.6%	16,048	-3.4%
7-YR SWAP	0	0	-	0	-
EURODOLLARS	14,050,866	13,172,945	6.7%	13,943,636	0.8%
FED FUND	1,989,864	1,706,604	16.6%	2,078,675	-4.3%
SOFR	23,182	0	-	12,586	84.2%
Ultra 10-Year Note	583,925	406,554	43.6%	541,756	7.8%
ULTRA T-BOND	1,023,011	813,089	25.8%	972,070	5.2%
<b>Interest Rate Options</b>					
10-YR NOTE	2,994,864	2,746,803	9.0%	2,881,970	3.9%
2-YR NOTE	350,960	34,791	908.8%	278,074	26.2%
30-YR BOND	777,742	673,786	15.4%	764,996	1.7%
5-YR NOTE	1,313,332	1,071,797	22.5%	1,600,644	-17.9%
EURODOLLARS	26,934,031	23,388,603	15.2%	23,566,718	14.3%
EURO MIDCURVE	16,469,674	13,646,991	20.7%	15,361,033	7.2%
FED FUND	1,876	901	108.2%	4,776	-60.7%
Ultra 10-Year Note	0	50	-100.0%	0	-
ULTRA T-BOND	12,685	1,479	757.7%	13,096	-3.1%

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<b>Equity Index Futures</b>					
BITCOIN FUTURES	3,435	0	-	2,724	26.1%
DJ US REAL ESTATE	27,768	17,775	56.2%	30,575	-9.2%
E-mini (\$5) Dow	93,319	137,759	-32.3%	85,388	9.3%
E-mini FTSE 100 (USD)	6	0	-	5	20.0%
E-mini FTSE China 50	113	717	-84.2%	141	-19.9%
E-MINI MIDCAP	82,575	92,275	-10.5%	85,579	-3.5%
E-MINI NASDAQ 100	240,305	293,228	-18.0%	236,534	1.6%
E-MINI RUSSELL 1000	10,380	466	2,127.5%	10,391	-0.1%
E-MINI RUSSELL 1000 GROWTH	4,608	885	420.7%	4,207	9.5%
E-MINI RUSSELL 1000 VALUE	7,680	242	3,073.6%	5,607	37.0%
E-MINI RUSSELL 2000	555,727	5,723	9,610.4%	554,152	0.3%
E-MINI S&P500	2,763,140	3,030,405	-8.8%	2,698,986	2.4%
E-MINI S&P REAL ESTATE SELE	6,081	6,701	-9.3%	5,873	3.5%
FT-SE 100	15	73	-79.5%	5	200.0%
FTSE Emerging	51	22	131.8%	0	0.0%
IBOVESPA INDEX	319	208	53.4%	310	2.9%
NASDAQ BIOTECH	656	743	-11.7%	925	-29.1%
NIFTY 50	0	707	-100.0%	0	-
NIKKEI 225 (\$) STOCK	29,561	35,613	-17.0%	30,423	-2.8%
NIKKEI 225 (YEN) STOCK	54,461	54,889	-0.8%	50,394	8.1%
S&P 500	206,178	89,687	129.9%	154,647	33.3%
S&P 500/GI	13	21	-38.1%	13	0.0%
S&P 500/VALUE	114,271	92,908	23.0%	113,058	1.1%
S&P CONSUMER DSCRTNRY SE	6,778	2,401	182.3%	6,813	-0.5%
S&P CONSUMER STAPLES SECT	14,828	13,048	13.6%	7,401	100.4%
S&P ENERGY SECTOR	26,547	8,289	220.3%	26,710	-0.6%
S&P FINANCIAL SECTOR	31,208	25,551	22.1%	27,724	12.6%
S&P HEALTH CARE SECTOR	7,943	15,569	-49.0%	6,294	26.2%
S&P INDUSTRIAL SECTOR	7,099	6,730	5.5%	4,409	61.0%
S&P MATERIALS SECTOR	4,958	6,764	-26.7%	5,050	-1.8%
S&P TECHNOLOGY SECTOR	14,290	7,833	82.4%	11,700	22.1%
S&P UTILITIES SECTOR	28,530	22,457	27.0%	26,354	8.3%
YEN DENOMINATED TOPIX	264	0	-	205	28.8%

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<b>Equity Index Options</b>					
E-mini (\$5) Dow	8,763	5,725	53.1%	6,915	26.7%
E-MINI MIDCAP	0	0	-	0	-
E-MINI NASDAQ 100	76,436	71,986	6.2%	59,670	28.1%
E-MINI RUSSELL 2000	10,953	1,434	663.8%	7,164	52.9%
E-MINI S&P500	1,975,425	1,491,771	32.4%	1,624,809	21.6%
EOM E-MINI RUSSELL 2000 END	1,601	45	3,457.8%	240	567.1%
EOM EMINI S&P	690,423	706,227	-2.2%	529,774	30.3%
EOM S&P 500	34,565	59,252	-41.7%	30,464	13.5%
EOW1 E-MINI RUSSELL 2000 WE	495	239	107.1%	1,502	-67.0%
EOW1 E-MINI RUSSELL 2000 WE	518	605	-14.4%	1,423	-63.6%
EOW1 EMINI S&P 500	291,195	386,643	-24.7%	241,800	20.4%
EOW1 S&P 500	90,776	101,776	-10.8%	34,660	161.9%
EOW2 E-MINI RUSSELL 2000 WE	316	116	172.4%	2,804	-88.7%
EOW2 EMINI S&P 500	179,827	143,175	25.6%	100,302	79.3%
EOW2 S&P 500	9,113	14,194	-35.8%	2,420	276.6%
EOW3 E-MINI RUSSELL 2000 WE	8,432	735	1,047.2%	16,348	-48.4%
EOW3 EMINI S&P 500	860,692	1,118,930	-23.1%	968,784	-11.2%
EOW3 S&P 500	65,574	172,266	-61.9%	80,733	-18.8%
EOW4 E-MINI RUSSELL 2000 WE	254	155	63.9%	895	-71.6%
EOW4 EMINI S&P 500	68,835	51,707	33.1%	48,686	41.4%
S&P 500	92,589	114,002	-18.8%	102,488	-9.7%
<b>Metals Futures</b>					
ALUMINUM	66,674	56,972	17.0%	68,325	-2.4%
COMEX COPPER	301,147	316,003	-4.7%	266,333	13.1%
COMEX E-Mini GOLD	2,676	512	422.7%	861	210.8%
COMEX E-Mini SILVER	464	116	300.0%	298	55.7%
COMEX GOLD	454,891	438,762	3.7%	478,221	-4.9%
COMEX MINY COPPER	63	299	-78.9%	58	8.6%
COMEX SILVER	227,415	208,072	9.3%	209,485	8.6%
COPPER	12,244	767	1,496.3%	13,325	-8.1%
E-MICRO GOLD	9,074	4,502	101.6%	10,337	-12.2%
FERROUS PRODUCTS	2,606	250	942.4%	3,155	-17.4%
GOLD	0	0	-	0	-
Gold Kilo	0	10	-100.0%	0	-
IRON ORE 62 CHINA PLATTS FU	480	5,652	-91.5%	600	-20.0%
IRON ORE 62 CHINA TSI FUTURE	10,187	18,505	-45.0%	10,264	-0.8%
LNDN ZINC	32	5	540.0%	28	14.3%
METALS	0	0	-	0	-
NYMEX HOT ROLLED STEEL	14,521	12,328	17.8%	12,457	16.6%
NYMEX PLATINUM	82,168	72,357	13.6%	86,498	-5.0%
PALLADIUM	22,231	34,726	-36.0%	22,049	0.8%
SILVER	1,560	1,150	35.7%	1,537	1.5%
URANIUM	2,965	4,412	-32.8%	2,690	10.2%

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<b>Metals Options</b>					
COMEX COPPER	23,551	5,177	354.9%	20,335	15.8%
COMEX GOLD	1,204,727	976,100	23.4%	1,190,505	1.2%
COMEX SILVER	202,544	115,501	75.4%	190,624	6.3%
COPPER	0	0	-	0	-
GOLD	7,934	2,139	270.9%	5,220	52.0%
HOT ROLLED COIL STEEL CALL	500	0	-	600	-16.7%
IRON ORE 62 CHINA TSI CALL O	1,412	8,301	-83.0%	1,650	-14.4%
IRON ORE 62 CHINA TSI PUT OP	580	4,950	-88.3%	640	-9.4%
NIKKEI 225 (YEN) STOCK	6	0	-	0	-
NYMEX PLATINUM	8,238	3,146	161.9%	5,816	41.6%
PALLADIUM	2,886	7,955	-63.7%	2,518	14.6%
SILVER	941	14	6,621.4%	588	60.0%
<b>Energy Futures</b>					
3.5% FUEL OIL CID MED SWA	198	404	-51.0%	248	-20.2%
3.5% FUEL OIL CIF BALMO S	0	0	-	0	-
AEP-DAYTON HUB DAILY	82	170	-51.8%	68	20.6%
AEP-DAYTON HUB MTHLY	0	420	-100.0%	0	-
AEP-DAYTON HUB OFF-PEAK M	0	300	-100.0%	0	-
ALGON CITY GATES NAT GAS	0	984	-100.0%	0	-
ALGONQUIN CITYGATES BASIS	0	1,068	-100.0%	0	-
ANR LOUISIANA BASIS SWAP	0	0	-	0	-
ANR OKLAHOMA	823	2,408	-65.8%	978	-15.8%
APPALACHIAN COAL (PHY)	0	0	-	0	-
ARGUS LLS VS. WTI (ARG) T	45,218	7,934	469.9%	49,839	-9.3%
ARGUS PROPAN FAR EST INDE	5,028	2,409	108.7%	5,034	-0.1%
ARGUS PROPAN(SAUDI ARAMC	1,613	879	83.5%	1,656	-2.6%
AUSTRIALIAN COKE COAL	192	630	-69.5%	216	-11.1%
BRENT BALMO SWAP	135	190	-28.9%	0	-
BRENT CALENDAR SWAP	19,100	17,580	8.6%	20,023	-4.6%
BRENT CFD SWAP	0	0	-	0	-
BRENT FINANCIAL FUTURES	3,593	7,047	-49.0%	3,848	-6.6%
BRENT OIL LAST DAY	197,874	143,699	37.7%	211,992	-6.7%
CAISO SP15 EZGNHUB5 MW P	0	1,250	-100.0%	0	-
CAISO SP15 EZGNHUB5 PEAK	0	1,900	-100.0%	0	-
CANADIAN LIGHT SWEET OIL	28	2,919	-99.0%	35	-20.0%
CENTERPOINT BASIS SWAP	5,251	13,332	-60.6%	5,813	-9.7%
CENTERPOINT EAST INDEX	0	0	-	0	-
CEU ENERGY	330	0	-	764	-56.8%
CHICAGO ETHANOL SWAP	58,446	42,579	37.3%	59,540	-1.8%
CHICAGO ULSD (PLATTS) SWA	0	0	-	0	-
CHICAGO ULSD PL VS HO SPR	1,456	1,179	23.5%	1,116	30.5%
CHICAGO UNL GAS PL VS RBO	550	18	2,955.6%	625	-12.0%
CIG BASIS	13,454	33,113	-59.4%	14,916	-9.8%
CIG ROCKIES NG INDEX SWA	0	0	-	0	-
CINERGY HUB OFF-PEAK MONT	60	120	-50.0%	70	-14.3%
CINERGY HUB PEAK MONTH	144	288	-50.0%	168	-14.3%
CIN HUB 5MW D AH O PK	56,000	322,600	-82.6%	69,160	-19.0%
CIN HUB 5MW D AH PK	6,443	14,059	-54.2%	6,916	-6.8%

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<b>Energy Futures</b>					
CIN HUB 5MW REAL TIME O P	288,024	597,264	-51.8%	316,584	-9.0%
CIN HUB 5MW REAL TIME PK	25,782	45,483	-43.3%	27,640	-6.7%
COAL SWAP	35	95	-63.2%	205	-82.9%
COLUMB GULF MAINLINE NG B	1,665	10,401	-84.0%	2,000	-16.8%
COLUMBIA GULF MAIN NAT G	0	0	-	0	-
COLUMBIA GULF ONSHORE	0	7,439	-100.0%	0	-
CONWAY NATURAL GASOLINE (	1,089	1,068	2.0%	1,146	-5.0%
CONWAY NORMAL BUTANE (OPI	1,808	3,832	-52.8%	1,771	2.1%
CONWAY PROPANE 5 DECIMALS	26,824	18,055	48.6%	24,450	9.7%
CRUDE OIL	22,022	25,831	-14.7%	19,772	11.4%
CRUDE OIL OUTRIGHTS	156,006	53,156	193.5%	150,201	3.9%
CRUDE OIL PHY	2,358,174	2,242,008	5.2%	2,502,159	-5.8%
CRUDE OIL SPRDS	172,611	26,688	546.8%	177,881	-3.0%
CRUDE OIL TRADE AT MARKER	0	0	0.0%	0	0.0%
DAILY PJM	150,020	352,483	-57.4%	162,992	-8.0%
DATED BRENT (PLATTS) DAILY S	0	0	-	0	-
DATED TO FRONTLINE BRENT	4,790	10,685	-55.2%	5,420	-11.6%
DEMARX INDEX FUTURE	0	0	-	0	-
DEMARX SWING SWAP	0	0	-	0	-
DIESEL 10P BRG FOB RDM VS	0	0	-	0	-
DIESEL 10PPM BARGES FOB B	0	3	-100.0%	0	-
DLY GAS EURO-BOB OXY	0	0	-	0	-
DOMINION TRAN INC - APP I	1,472	2,920	-49.6%	1,712	-14.0%
DOMINION TRANSMISSION INC	18,719	46,650	-59.9%	20,083	-6.8%
DUBAI CRUDE OIL BALMO	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	3,675	12,740	-71.2%	2,721	35.1%
DY EURO 3.5% FUEL OI RDA	0	0	-	0	-
EASTERN RAIL DELIVERY CSX	135	593	-77.2%	155	-12.9%
EAST/WEST FUEL OIL SPREAD	107	564	-81.0%	97	10.3%
EIA FLAT TAX ONHWAY DIESE	1,858	3,840	-51.6%	2,005	-7.3%
ELEC ERCOT DLY OFF PK	0	0	-	0	-
ELEC ERCOT DLY PEAK	600	0	-	900	-33.3%
ELEC ERCOT OFF PEAK	0	0	-	0	-
ELEC FINSETTLED	1,278	2,164	-40.9%	1,320	-3.2%
ELEC MISO PEAK	1,905	4,544	-58.1%	2,220	-14.2%
ELEC NYISO OFF-PEAK	35,775	79,804	-55.2%	41,535	-13.9%
ELECTRICITY ERCOT PEAK	0	0	0.0%	0	-
ELECTRICITY OFF PEAK	23,474	40,069	-41.4%	24,242	-3.2%
ELEC WEST POWER OFF-PEAK	0	0	-	0	-
ELEC WEST POWER PEAK	0	0	-	0	-
EL PASO PERMIAN INDEX SWA	0	0	-	0	-
ERCOT DAILY 5MW PEAK	0	690	-100.0%	0	-
ERCOT HOUSTON Z MCPE 5MW	1,150	1,680	-31.5%	2,200	-47.7%
ERCOT NORTH ZMCPE 5MW OF	6,720	0	-	8,400	-20.0%
ERCOT NORTH ZMCPE 5MW OF	55,440	0	-	84,000	-34.0%
ERCOT NORTH ZMCPE 5MW PE	2,100	1,680	25.0%	3,150	-33.3%
ETHANOL	1,630	1,901	-14.3%	1,922	-15.2%
ETHANOL FWD	0	26	-100.0%	0	-
ETHANOL SWAP	110	0	-	100	10.0%
ETHANOL T2 FOB ROTT INCL DU	4,859	4,984	-2.5%	4,788	1.5%
EURO 1% FUEL OIL NEW BALM	0	0	-	3	-100.0%

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<b>Energy Futures</b>					
EURO 3.5% FUEL OIL RDAM B	678	141	380.9%	651	4.1%
EURO 3.5% FUEL OIL SPREAD	189	1,330	-85.8%	238	-20.6%
EURO-DENOMINATED PETRO P	0	0	-	0	-
EURO GASOIL 10 CAL SWAP	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	281	281	0.0%	324	-13.3%
EUROPE 1% FUEL OIL NWE CA	192	73	163.0%	179	7.3%
EUROPE 1% FUEL OIL RDAM C	3	10	-70.0%	3	0.0%
EUROPE 3.5% FUEL OIL MED	238	428	-44.4%	291	-18.2%
EUROPE 3.5% FUEL OIL RDAM	13,072	9,519	37.3%	13,654	-4.3%
EUROPEAN GASOIL (ICE)	179	1,043	-82.8%	154	16.2%
EUROPEAN NAPHTHA BALMO	400	245	63.3%	249	60.6%
EUROPEAN NAPHTHA CRACK SP	16,025	12,840	24.8%	15,959	0.4%
EUROPE DATED BRENT SWAP	75	1,325	-94.3%	150	-50.0%
EUROPE JET KERO NWE CALSW	24	48	-50.0%	24	0.0%
EUROPE NAPHTHA CALSWAP	3,140	2,910	7.9%	3,101	1.3%
EURO PROPANE CIF ARA SWA	1,673	1,233	35.7%	1,748	-4.3%
FL GAS ZONE 3 NAT GAS IND	0	0	-	0	-
FLORIDA GAS ZONE3 BASIS S	0	0	-	0	-
FREIGHT MARKETS	2,278	814	179.9%	2,344	-2.8%
FUEL OIL CRACK VS ICE	12,448	18,746	-33.6%	12,695	-1.9%
FUEL OIL NWE CRACK VS ICE	171	0	-	171	0.0%
FUEL OIL (PLATS) CAR CM	84	20	320.0%	98	-14.3%
FUEL OIL (PLATS) CAR CN	105	0	-	57	84.2%
FUELOIL SWAP:CARGOES VS.B	779	1,123	-30.6%	730	6.7%
GAS EURO-BOB OXY NWE BARG	6,456	5,143	25.5%	6,851	-5.8%
GAS EURO-BOB OXY NWE BARG	34,315	30,275	13.3%	35,571	-3.5%
GASOIL 0.1 BRGS FOB VS IC	0	0	-	0	-
GASOIL 0.1 CIF MED SWAP	0	0	-	0	-
GASOIL 0.1CIF MED VS ICE	0	30	-100.0%	5	-100.0%
GASOIL 0.1 CIF NWE VS ISE	0	0	-	0	-
GASOIL 0.1 CIF VS ICE GAS	0	0	-	0	-
GASOIL 0.1 CRG CIF NW VS	0	0	-	0	-
GASOIL 0.1 RDAM BRGS VS I	102	150	-32.0%	124	-17.7%
GASOIL 0.1 ROTTERDAM BARG	220	30	633.3%	380	-42.1%
GASOIL 10P CRG CIF NW VS	0	25	-100.0%	0	-
GASOIL 10PPM CARGOES CIF	0	0	-	0	-
GASOIL 10PPM VS ICE SWAP	285	826	-65.5%	332	-14.2%
GASOIL BULLET SWAP	0	30	-100.0%	0	-
GASOIL CALENDAR SWAP	30	61	-50.8%	32	-6.3%
GASOIL CRACK SPREAD CALEN	19,416	22,818	-14.9%	20,488	-5.2%
GASOIL MINI CALENDAR SWAP	744	331	124.8%	573	29.8%
GASOLINE UP-DOWN BALMO SW	0	0	-	0	-
GROUP THREE ULSD (PLATTS)	132	150	-12.0%	155	-14.8%
GROUP THREE UNLEAD GAS (P	375	0	-	425	-11.8%
GRP THREE ULSD(PLT)VS HEA	9,176	10,279	-10.7%	10,335	-11.2%
GRP THREE UNL GS (PLT) VS	3,918	2,235	75.3%	3,618	8.3%
GULF COAST 3% FUEL OIL BA	1,671	735	127.3%	919	81.8%
GULF COAST GASOLINE CLNDR	0	0	-	0	-
GULF COAST JET FUEL CLNDR	864	949	-9.0%	905	-4.5%
GULF COAST JET VS NYM 2 H	28,821	38,750	-25.6%	30,122	-4.3%
GULF COAST NO.6 FUEL OIL	59,437	51,038	16.5%	66,376	-10.5%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2018	Open Interest JUL 2017	% CHG	Open Interest JUN 2018	% CHG
<b>Energy Futures</b>					
GULF COAST ULSD CALENDAR	1,546	2,777	-44.3%	1,609	-3.9%
GULF COAST ULSD CRACK SPR	895	2,780	-67.8%	945	-5.3%
HEATING OIL BALMO CLNDR S	0	100	-100.0%	167	-100.0%
HEATING OIL CRCK SPRD BAL	0	0	-	0	-
HEATING OIL PHY	395,920	396,631	-0.2%	390,359	1.4%
HENRY HUB BASIS SWAP	1,348	20,745	-93.5%	2,836	-52.5%
HENRY HUB FINANCIAL LAST	21	27	-22.2%	12	75.0%
HENRY HUB INDEX SWAP FUTU	2,224	10,875	-79.5%	2,464	-9.7%
HENRY HUB SWAP	1,106,868	1,265,165	-12.5%	1,087,984	1.7%
HENRY HUB SWING FUTURE	0	0	-	0	-
HOUSTON SHIP CHANNEL BASI	13,895	21,894	-36.5%	14,453	-3.9%
HOUSTON SHIP CHANNEL INDE	0	0	-	0	-
HTG OIL	220	292	-24.7%	203	8.4%
HUSTN SHIP CHNL PIPE SWP	0	719	-100.0%	0	-
ICE BRENT DUBAI SWAP	49,382	46,008	7.3%	46,975	5.1%
ICE GASOIL BALMO SWAP	0	6	-100.0%	0	-
IN DELIVERY MONTH EUA	3,698	10,598	-65.1%	3,698	0.0%
INDIANA MISO	25,214	33,763	-25.3%	28,769	-12.4%
INDONESIAN COAL	0	0	-	0	-
INDONESIAN COAL ICI4	215	0	-	110	95.5%
ISO NEW ENGLAND OFF-PEAK	0	84	-100.0%	0	-
ISO NEW ENGLAND PK LMP	0	102	-100.0%	0	-
JAPAN C&F NAPHTHA CRACK S	256	1,931	-86.7%	616	-58.4%
JAPAN C&F NAPHTHA SWAP	2,662	1,690	57.5%	2,813	-5.4%
JAPAN NAPHTHA BALMO SWAP	185	90	105.6%	23	704.3%
JET AV FUEL (P) CAR FM ICE GA	12	30	-60.0%	14	-14.3%
JET BARGES VS ICE GASOIL	0	0	-	0	-
JET CIF NWE VS ICE	552	560	-1.4%	472	16.9%
JET FUEL BRG FOB RDM VS I	0	0	-	0	-
JET FUEL CRG CIF NEW VS I	0	42	-100.0%	0	-
JET FUEL UP-DOWN BALMO CL	2,915	4,746	-38.6%	4,263	-31.6%
LA CARB DIESEL (OPIS)	0	0	-	0	-
LA CARB DIESEL (OPIS) SWA	900	200	350.0%	625	44.0%
LA CARBOB GASOLINE(OPIS)S	150	325	-53.8%	575	-73.9%
LA JET FUEL VS NYM NO 2 H	0	0	-	0	-
LA JET (OPIS) SWAP	2,085	2,365	-11.8%	2,395	-12.9%
LLS (ARGUS) VS WTI SWAP	35,012	19,931	75.7%	36,195	-3.3%
LTD NAT GAS	440,270	371,914	18.4%	421,061	4.6%
MARS (ARGUS) VS WTI SWAP	8,715	10,549	-17.4%	10,470	-16.8%
MARS (ARGUS) VS WTI TRD M	17,981	16,349	10.0%	21,543	-16.5%
MARS BLEND CRUDE OIL	0	1,700	-100.0%	200	-100.0%
MCCLOSKEY ARA ARGS COAL	37,668	63,875	-41.0%	39,757	-5.3%
MCCLOSKEY RCH BAY COAL	5,316	9,509	-44.1%	4,997	6.4%
MGF FUT	10	19	-47.4%	20	-50.0%
MGN1 SWAP FUT	447	584	-23.5%	454	-1.5%
MICHCON NG INDEX SWAP	0	0	-	0	-
MICHIGAN BASIS	3,359	8,235	-59.2%	3,582	-6.2%
MICHIGAN MISO	17,577	124,800	-85.9%	20,412	-13.9%
MINI GAS EUROBOB OXY NWE A	552	608	-9.2%	411	34.3%
MINI RBOB V. EBOBARG NWE BF	815	402	102.7%	446	82.7%
MINI RBOB V. EBOB(ARGUS) NW	3,215	4,165	-22.8%	2,760	16.5%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2018	Open Interest JUL 2017	% CHG	Open Interest JUN 2018	% CHG
<b>Energy Futures</b>					
MINY HTG OIL	0	0	-	1	-100.0%
MINY NATURAL GAS	1,130	1,580	-28.5%	1,231	-8.2%
MINY RBOB GAS	0	0	-	0	-
MINY WTI CRUDE OIL	4,690	5,473	-14.3%	4,711	-0.4%
MJC FUT	330	480	-31.3%	390	-15.4%
MNC FUT	4,963	4,859	2.1%	5,111	-2.9%
MONT BELVIEU ETHANE 5 DECI	44,621	75,607	-41.0%	45,725	-2.4%
MONT BELVIEU ETHANE OPIS B	300	0	-	80	275.0%
MONT BELVIEU LDH PROPANE 5	124,863	109,148	14.4%	127,318	-1.9%
MONT BELVIEU LDH PROPANE C	2,422	1,090	122.2%	1,816	33.4%
MONT BELVIEU NATURAL GASO	19,064	9,563	99.4%	19,938	-4.4%
MONT BELVIEU NATURAL GASO	215	145	48.3%	500	-57.0%
MONT BELVIEU NORMAL BUTAN	47,792	42,090	13.5%	44,431	7.6%
MONT BELVIEU NORMAL BUTAN	2,259	275	721.5%	682	231.2%
NAT GAS BASIS SWAP	3,779	9,049	-58.2%	4,027	-6.2%
NATURAL GAS	78,338	118,118	-33.7%	78,684	-0.4%
NATURAL GAS FIXED PRICE SW	0	360	-100.0%	0	-
NATURAL GAS INDEX	0	492	-100.0%	0	-
NATURAL GAS PEN SWP	161,440	228,484	-29.3%	163,518	-1.3%
NATURAL GAS PHY	1,541,421	1,333,496	15.6%	1,489,298	3.5%
NEPOOL CNCTCT 5MW D AH O	0	2,401	-100.0%	0	-
NEPOOL CONECTIC 5MW D AH	0	126	-100.0%	0	-
NEPOOL INTR HUB 5MW D AH	488,778	630,236	-22.4%	502,167	-2.7%
NEPOOL NE MASS 5MW D AH O	14,040	0	-	14,040	0.0%
NEPOOL NE MASS 5MW D AH P	765	0	-	765	0.0%
NEPOOL NEW HAMP 5MW D AH	0	0	-	0	-
NEPOOL RHD ISLD 5MW D AH	0	630	-100.0%	0	-
NEPOOL RHODE IL 5MW D AH	0	12,005	-100.0%	0	-
NEPOOL SE MASS 5MW D AH O	0	0	-	0	-
NEPOOL SE MASS 5MW D AH P	0	0	-	0	-
NEPOOL W CNT MASS 5MW D A	0	4,802	-100.0%	0	-
NEPOOL W CNTR M 5MW D AH	0	252	-100.0%	0	-
NEW ENGLAND HUB PEAK DAIL	2,006	2,236	-10.3%	1,888	6.3%
NEW YORK ETHANOL SWAP	1,855	1,510	22.8%	2,000	-7.3%
NEW YORK HUB ZONE G PEAK	2,958	3,463	-14.6%	2,619	12.9%
NEW YORK HUB ZONE J PEAK	1,360	2,210	-38.5%	1,170	16.2%
NGPL MID-CONTINENT	16,961	26,844	-36.8%	17,922	-5.4%
NGPL MIDCONTINENT INDEX	0	0	-	0	-
NGPL MIDCONTINENT SWING S	0	0	-	0	-
NGPL TEX/OK	20,888	28,980	-27.9%	23,509	-11.1%
NGPL TEXOK INDEX	0	0	-	0	-
N ILLINOIS HUB DAILY	178	294	-39.5%	178	0.0%
N ILLINOIS HUB MTHLY	0	120	-100.0%	0	-
NO 2 UP-DOWN SPREAD CALEN	195	1,890	-89.7%	463	-57.9%
NORTHERN NATURAL GAS DEMA	836	2,470	-66.2%	968	-13.6%
NORTHERN NATURAL GAS VENTL	1,420	3,012	-52.9%	1,432	-0.8%
NORTHERN ILLINOIS OFF-PEA	0	0	-	0	-
NORTHWEST ROCKIES BASIS S	25,910	53,078	-51.2%	27,925	-7.2%
N ROCKIES PIPE SWAP	0	334	-100.0%	0	-
NY1% VS GC SPREAD SWAP	5,113	4,807	6.4%	4,159	22.9%
NY 2.2% FUEL OIL (PLATTS)	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2018	Open Interest JUL 2017	% CHG	Open Interest JUN 2018	% CHG
<b>Energy Futures</b>					
NY 3.0% FUEL OIL (PLATTS	300	575	-47.8%	175	71.4%
NY HARBOR 1% FUEL OIL BAL	0	0	-	0	-
NY HARBOR HEAT OIL SWP	8,256	11,633	-29.0%	7,356	12.2%
NY HARBOR LOW SULPUR GAS	300	910	-67.0%	515	-41.7%
NY HARBOR RESIDUAL FUEL 1	2,212	3,390	-34.7%	2,115	4.6%
NYH NO 2 CRACK SPREAD CAL	4,788	7,180	-33.3%	4,753	0.7%
NY H OIL PLATTS VS NYMEX	0	0	-	0	-
NYISO A	0	0	-	0	-
NYISO A OFF-PEAK	0	0	-	0	-
NYISO CAPACITY	2,002	3,114	-35.7%	2,242	-10.7%
NYISO G	0	0	-	0	-
NYISO G OFF-PEAK	0	0	-	0	-
NYISO J	0	931	-100.0%	0	-
NYISO J OFF-PEAK	0	180	-100.0%	0	-
NYISO ZONE A 5MW D AH O P	31,774	122,910	-74.1%	37,038	-14.2%
NYISO ZONE A 5MW D AH PK	4,554	9,530	-52.2%	4,968	-8.3%
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	639,262	502,461	27.2%	660,694	-3.2%
NYISO ZONE G 5MW D AH PK	28,260	24,626	14.8%	30,261	-6.6%
NYISO ZONE J 5MW D AH O P	194,441	279,421	-30.4%	203,841	-4.6%
NYISO ZONE J 5MW D AH PK	13,901	15,254	-8.9%	14,821	-6.2%
NY JET FUEL (PLATTS) HEAT OIL	0	0	-	0	-
NYMEX ALUMINUM FUTURES	612	680	-10.0%	576	6.2%
NYMEX ULSD VS NYMEX HO	0	0	-	0	-
NY ULSD (ARGUS) VS HEATING	316	1,207	-73.8%	272	16.2%
ONEOK OKLAHOMA NG BASIS	306	1,011	-69.7%	368	-16.8%
ONTARIO POWER SWAPS	0	21,315	-100.0%	0	-
PANHANDLE BASIS SWAP FUTU	8,418	24,856	-66.1%	9,171	-8.2%
PANHANDLE INDEX SWAP FUTU	0	0	-	0	-
PANHANDLE PIPE SWAP	985	792	24.4%	1,182	-16.7%
PERMIAN BASIS SWAP	6,588	14,114	-53.3%	7,022	-6.2%
PETROCHEMICALS	15,520	8,855	75.3%	14,829	4.7%
PETRO CRCKS & SPRDS ASIA	886	1,342	-34.0%	1,101	-19.5%
PETRO CRCKS & SPRDS NA	88,737	75,495	17.5%	103,887	-14.6%
PETRO CRK&SPRD EURO	19,044	16,664	14.3%	20,456	-6.9%
PETROLEUM PRODUCTS	4,860	3,559	36.6%	7,766	-37.4%
PETROLEUM PRODUCTS ASIA	2,466	2,428	1.6%	2,549	-3.3%
PETRO OUTRIGHT EURO	12,823	15,388	-16.7%	13,906	-7.8%
PETRO OUTRIGHT NA	8,783	11,578	-24.1%	9,222	-4.8%
PJM AD HUB 5MW REAL TIME	281,006	566,589	-50.4%	288,967	-2.8%
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	70,720	-100.0%	0	-
PJM BGE DA OFF-PEAK	4,770	30,920	-84.6%	5,538	-13.9%
PJM BGE DA PEAK	254	1,675	-84.8%	296	-14.2%
PJM COMED 5MW D AH O PK	11,925	35,405	-66.3%	13,845	-13.9%
PJM COMED 5MW D AH PK	635	1,905	-66.7%	740	-14.2%
PJM DAILY	990	946	4.7%	728	36.0%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
PJM DAYTON DA OFF-PEAK	82,928	172,428	-51.9%	85,936	-3.5%
PJM DAYTON DA PEAK	7,195	13,743	-47.6%	7,770	-7.4%
PJM JCPL DA OFF-PEAK	0	0	-	0	-
PJM JCPL DA PEAK	0	0	-	0	-
PJM MONTHLY	1,100	2,486	-55.8%	1,130	-2.7%
PJM NI HUB 5MW REAL TIME	373,202	1,193,974	-68.7%	429,743	-13.2%
PJM NILL DA OFF-PEAK	233,974	1,012,349	-76.9%	251,646	-7.0%
PJM NILL DA PEAK	14,491	48,012	-69.8%	15,756	-8.0%
PJM OFF-PEAK LMP SWAP FUT	244	748	-67.4%	286	-14.7%
PJM PECO ZONE5MW PEAK CAL	0	0	-	0	-
PJM PPL DA OFF-PEAK	0	0	-	0	-
PJM PPL DA PEAK	0	0	-	0	-
PJM PSEG DA OFF-PEAK	21,480	109,640	-80.4%	23,400	-8.2%
PJM PSEG DA PEAK	0	4,660	-100.0%	0	-
PJM WES HUB PEAK LMP 50 M	0	0	-	0	-
PJM WESTH DA OFF-PEAK	273,371	629,502	-56.6%	291,043	-6.1%
PJM WESTHDA PEAK	14,695	35,248	-58.3%	15,776	-6.9%
PJM WESTH RT OFF-PEAK	1,345,230	2,506,248	-46.3%	1,447,230	-7.0%
PJM WESTH RT PEAK	87,111	141,417	-38.4%	97,198	-10.4%
PLASTICS	715	1,392	-48.6%	722	-1.0%
PREMIUM UNLND 10P FOB MED	426	67	535.8%	450	-5.3%
PREMIUM UNLEAD 10PPM FOB	31	32	-3.1%	75	-58.7%
PREM UNL GAS 10PPM RDAM F	0	0	-	0	-
PREM UNL GAS 10PPM RDAM F	30	0	-	54	-44.4%
PROPANE NON-LDH MB (OPIS) B	473	100	373.0%	525	-9.9%
PROPANE NON-LDH MT. BEL (OF	52,624	23,482	124.1%	51,360	2.5%
RBOB CALENDAR SWAP	18,636	12,558	48.4%	14,413	29.3%
RBOB CRACK SPREAD	6,399	1,610	297.5%	6,599	-3.0%
RBOB CRACK SPREAD BALMO S	0	0	-	0	-
RBOB GAS	112	3,588	-96.9%	83	34.9%
RBOB GASOLINE BALMO CLNDR	374	785	-52.4%	1,005	-62.8%
RBOB PHY	470,601	391,992	20.1%	436,313	7.9%
RBOB (PLATTS) CAL SWAP	0	0	-	0	-
RBOB SPREAD (PLATTS) SWAP	0	16	-100.0%	0	-
RBOB UP-DOWN CALENDAR SW	0	0	-	0	-
RBOB VS HEATING OIL SWAP	930	3,684	-74.8%	1,240	-25.0%
ROCKIES KERN OPAL - NW IN	0	0	-	0	-
SAN JUAN BASIS SWAP	12,945	26,340	-50.9%	13,972	-7.4%
SAN JUAN PIPE SWAP	360	0	-	360	0.0%
SINGAPORE 180CST BALMO	45	50	-10.0%	40	12.5%
SINGAPORE 380CST BALMO	323	146	121.2%	200	61.5%
SINGAPORE 380CST FUEL OIL	12,908	11,217	15.1%	13,574	-4.9%
SINGAPORE FUEL 180CST CAL	1,213	1,801	-32.6%	1,592	-23.8%
SINGAPORE FUEL OIL SPREAD	1,229	1,516	-18.9%	1,452	-15.4%
SINGAPORE GASOIL	10,014	10,897	-8.1%	10,648	-6.0%
SINGAPORE GASOIL CALENDAR	30	312	-90.4%	120	-75.0%
SINGAPORE GASOIL SWAP	7,910	18,477	-57.2%	7,785	1.6%
SINGAPORE GASOIL VS ICE	45,861	15,594	194.1%	45,890	-0.1%
SINGAPORE JET KERO BALMO	0	100	-100.0%	50	-100.0%
SINGAPORE JET KERO GASOIL	11,710	5,515	112.3%	10,640	10.1%
SINGAPORE JET KEROSENE SW	2,520	3,568	-29.4%	2,795	-9.8%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
SINGAPORE JET KERO VS. GAS	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEAD	570	57	900.0%	200	185.0%
SINGAPORE MOGAS 92 UNLEAD	15,107	11,269	34.1%	16,192	-6.7%
SINGAPORE NAPHTHA BALMO	0	0	-	0	-
SINGAPORE NAPHTHA SWAP	0	0	-	0	-
SING FUEL	15	0	-	15	0.0%
SOCAL PIPE SWAP	0	0	-	0	-
SONAT BASIS SWAP FUTURE	0	306	-100.0%	0	-
SOUTHERN NAT LA NAT GAS	0	0	-	0	-
SOUTH STAR TEX OKLHM KNS	50	200	-75.0%	60	-16.7%
Sumas Basis Swap	3,860	8,299	-53.5%	4,139	-6.7%
SUMAS NAT GAS PLATTS FIXED	0	306	-100.0%	0	-
TC2 ROTTERDAM TO USAC 37K	180	0	-	247	-27.1%
TC5 RAS TANURA TO YOKOHAM	0	0	-	25	-100.0%
TCO BASIS SWAP	6,157	19,818	-68.9%	6,591	-6.6%
TCO NG INDEX SWAP	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	3,250	0	-	2,849	14.1%
TENN 800 LEG NAT GAS INDE	0	0	-	0	-
TENNESSEE 500 LEG BASIS S	0	184	-100.0%	0	-
TENNESSEE 800 LEG NG BASI	0	184	-100.0%	0	-
TENNESSEE ZONE 0 BASIS SW	0	788	-100.0%	0	-
TETCO M-3 INDEX	0	3,444	-100.0%	0	-
Tetco STX Basis	306	1,189	-74.3%	368	-16.8%
TEXAS EASTERN ZONE M-3 BA	3,833	13,030	-70.6%	4,143	-7.5%
TEXAS GAS ZONE1 NG BASIS	2,404	9,176	-73.8%	2,888	-16.8%
Transco Zone 3 Basis	1,377	5,270	-73.9%	1,656	-16.8%
TRANSCO ZONE 3 NG INDEX S	0	4,182	-100.0%	0	-
TRANSCO ZONE4 BASIS SWAP	5,039	15,535	-67.6%	5,442	-7.4%
TRANSCO ZONE 4 NAT GAS IN	0	0	-	0	-
TRANSCO ZONE 6 BASIS SWAP	1,130	5,073	-77.7%	1,409	-19.8%
TRANSCO ZONE 6 INDEX	0	984	-100.0%	0	-
UCM FUT	10	174	-94.3%	0	-
ULSD 10PPM CIF MED BALMO	0	0	-	0	-
ULSD 10PPM CIF MED SWAP	0	0	-	0	-
ULSD 10PPM CIF MED VS ICE	0	60	-100.0%	8	-100.0%
ULSD 10PPM CIF NW BALMO S	0	6	-100.0%	0	-
ULSD 10PPM CIF VS ICE GAS	0	0	-	0	-
ULSD UP-DOWN BALMO SWP	3,980	2,525	57.6%	4,390	-9.3%
UP DOWN GC ULSD VS NMX HO	38,816	52,234	-25.7%	43,493	-10.8%
USGC UNL 87 CRACK SPREAD	0	0	-	0	-
WAHA BASIS	3,950	7,779	-49.2%	4,271	-7.5%
WAHA INDEX SWAP FUTURE	0	0	-	0	-
WESTERN RAIL DELIVERY PRB	175	525	-66.7%	290	-39.7%
WTI-BRENT BULLET SWAP	6,704	904	641.6%	7,054	-5.0%
WTI-BRENT CALENDAR SWAP	122,393	39,124	212.8%	129,674	-5.6%
WTI CALENDAR	177,213	122,858	44.2%	178,756	-0.9%
WTS (ARGUS) VS WTI SWAP	59,822	49,383	21.1%	58,863	1.6%
WTS (ARGUS) VS WTI TRD MT	4,608	2,084	121.1%	3,528	30.6%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2018	Open Interest JUL 2017	% CHG	Open Interest JUN 2018	% CHG
<b>Energy Options</b>					
12 MO GASOIL CAL SWAP SPR	0	230	-100.0%	0	-
1 MO GASOIL CAL SWAP SPR	0	0	-	0	-
BRENT 1 MONTH CAL	0	0	-	1,000	-100.0%
BRENT CALENDAR SWAP	6,460	10,460	-38.2%	6,191	4.3%
BRENT CRUDE OIL 12 M CSO	0	0	-	0	-
BRENT CRUDE OIL 1 M CSO	118,556	0	-	157,658	-24.8%
BRENT CRUDE OIL 6 M CSO	0	0	-	0	-
BRENT OIL LAST DAY	278,091	87,544	217.7%	306,228	-9.2%
COAL API2 INDEX	4,875	5,463	-10.8%	4,545	7.3%
COAL API4 INDEX	25	0	-	25	0.0%
COAL SWAP	135	335	-59.7%	135	0.0%
CRUDE OIL 1MO	442,700	665,923	-33.5%	470,050	-5.8%
CRUDE OIL APO	416,857	293,611	42.0%	454,774	-8.3%
CRUDE OIL CALNDR STRIP	170	0	-	170	0.0%
CRUDE OIL OUTRIGHTS	2,680	150	1,686.7%	3,400	-21.2%
CRUDE OIL PHY	3,026,481	3,059,097	-1.1%	2,941,114	2.9%
ELEC FINSETTLED	0	0	-	0	-
ELEC MISO PEAK	0	0	-	0	-
ETHANOL	150	300	-50.0%	150	0.0%
ETHANOL SWAP	13,629	12,550	8.6%	16,985	-19.8%
EURO-DENOMINATED PETRO P	0	0	-	0	-
EUROPEAN JET KEROSENE NW	0	0	-	0	-
GASOLINE	0	0	-	0	-
HEATING OIL CRACK OPTIONS	0	100	-100.0%	0	-
HEATING OIL CRK SPD AVG PRI	0	0	-	0	-
HEATING OIL PHY	42,976	58,054	-26.0%	40,571	5.9%
HENRY HUB FINANCIAL LAST	5,578	8,706	-35.9%	5,406	3.2%
HO 1 MONTH CLNDR OPTIONS	0	0	-	0	-
HUSTN SHIP CHNL PIPE SWP	0	0	-	0	-
LLS CRUDE OIL	1,500	7,375	-79.7%	1,800	-16.7%
MCCLOSKEY ARA ARGS COAL	225	1,305	-82.8%	375	-40.0%
MCCLOSKEY RCH BAY COAL	430	0	-	1,150	-62.6%
NATURAL GAS	0	0	-	0	-
NATURAL GAS 1 M CSO FIN	22,570	126,875	-82.2%	14,991	50.6%
NATURAL GAS 2 M CSO FIN	0	2,150	-100.0%	1,000	-100.0%
NATURAL GAS 3 M CSO FIN	40,720	40,600	0.3%	39,170	4.0%
NATURAL GAS 5 M CSO FIN	0	0	-	0	-
NATURAL GAS 6 M CSO FIN	5,550	2,950	88.1%	5,000	11.0%
NATURAL GAS OPTION ON CALE	12,686	8,238	54.0%	12,486	1.6%
NATURAL GAS PHY	1,776,462	2,309,612	-23.1%	1,761,058	0.9%
NG HH 3 MONTH CAL	0	0	-	0	-
N ROCKIES PIPE SWAP	2,278	5,580	-59.2%	2,166	5.2%
NY HARBOR HEAT OIL SWP	15,711	25,577	-38.6%	17,827	-11.9%
NYISO ZONE G 5MW PEAK OPTI	0	5,880	-100.0%	0	-
NYMEX EUROPEAN GASOIL APO	0	0	-	0	-
NYMEX EUROPEAN GASOIL OPT	0	0	-	0	-
PANHANDLE PIPE SWAP	2,400	2,640	-9.1%	2,880	-16.7%
PETROCHEMICALS	5,248	6,134	-14.4%	3,933	33.4%
PETRO OUTRIGHT EURO	0	300	-100.0%	0	-
PETRO OUTRIGHT NA	36	0	-	42	-14.3%
PJM MONTHLY	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Options</b>					
PJM WES HUB PEAK CAL MTH	1,780	3,180	-44.0%	1,780	0.0%
PJM WES HUB PEAK LMP 50MW	6,803	15,958	-57.4%	8,298	-18.0%
RBOB 1MO CAL SPD OPTIONS	0	1,908	-100.0%	0	-
RBOB CALENDAR SWAP	525	1,539	-65.9%	525	0.0%
RBOB PHY	10,915	26,788	-59.3%	10,837	0.7%
ROTTERDAM 3.5%FUEL OIL CL	0	240	-100.0%	0	-
SAN JUAN PIPE SWAP	2,198	4,640	-52.6%	1,974	11.3%
SHORT TERM	0	0	-	0	-
SHORT TERM NATURAL GAS	0	250	-100.0%	270	-100.0%
SINGAPORE GASOIL CALENDAR	0	150	-100.0%	0	-
SINGAPORE JET FUEL CALEND	0	240	-100.0%	0	-
SOCAL PIPE SWAP	0	0	-	0	-
WTI-BRENT BULLET SWAP	198,561	141,670	40.2%	225,934	-12.1%
WTI CRUDE OIL 1 M CSO FI	136,550	310,718	-56.1%	153,125	-10.8%
<b>FX Futures</b>					
AD/CD CROSS RATES	2	0	-	2	0.0%
AD/JY CROSS RATES	1,278	1,647	-22.4%	1,472	-13.2%
AD/NE CROSS RATES	55	45	22.2%	22	150.0%
AUSTRALIAN DOLLAR	137,318	139,242	-1.4%	141,647	-3.1%
BDI	0	6	-100.0%	0	-
BP/JY CROSS RATES	429	528	-18.8%	351	22.2%
BP/SF CROSS RATES	111	25	344.0%	38	192.1%
BRAZIL REAL	41,343	30,532	35.4%	51,608	-19.9%
BRITISH POUND	190,347	213,286	-10.8%	184,417	3.2%
CANADIAN DOLLAR	140,270	190,219	-26.3%	161,883	-13.4%
CD/JY CROSS RATES	6	56	-89.3%	4	50.0%
CHINESE RENMINBI (CNH)	678	768	-11.7%	688	-1.5%
CZECK KORUNA (EC)	2	0	-	0	-
CZECK KORUNA (US)	15	0	-	0	-
EC/AD CROSS RATES	1,723	1,484	16.1%	1,578	9.2%
EC/CD CROSS RATES	1,612	1,751	-7.9%	1,670	-3.5%
EC/NOK CROSS RATES	270	22	1,127.3%	259	4.2%
EC/SEK CROSS RATES	895	819	9.3%	840	6.5%
EFX/BP CROSS RATES	34,384	33,115	3.8%	33,519	2.6%
EFX/JY CROSS RATES	25,698	25,048	2.6%	27,027	-4.9%
EFX/SF CROSS RATES	9,599	12,664	-24.2%	8,344	15.0%
E-MICRO AUD/USD	2,057	4,227	-51.3%	2,032	1.2%
E-MICRO CAD/USD	1,886	2,779	-32.1%	1,846	2.2%
E-MICRO CHF/USD	239	175	36.6%	246	-2.8%
E-MICRO EUR/USD	7,344	8,246	-10.9%	6,482	13.3%
E-MICRO GBP/USD	2,312	2,802	-17.5%	1,780	29.9%
E-MICRO INR/USD	256	248	3.2%	325	-21.2%
E-MICRO JPY/USD	1,081	2,242	-51.8%	1,178	-8.2%
E-MICRO USD/CAD	0	0	-	0	-
E-MICRO USD/CHF	0	0	-	0	-
E-MICRO USD/CNH	0	0	-	0	-
E-MICRO USD/JPY	0	0	-	0	-
E-MINI EURO FX	13,081	14,606	-10.4%	12,632	3.6%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2018	Open Interest JUL 2017	% CHG	Open Interest JUN 2018	% CHG
<b>FX Futures</b>					
E-MINI JAPANESE YEN	871	1,072	-18.8%	561	55.3%
EURO FX	500,522	455,955	9.8%	484,609	3.3%
HUNGARIAN FORINT (EC)	0	0	-	0	-
HUNGARIAN FORINT (US)	31	0	-	0	-
INDIAN RUPEE	814	954	-14.7%	1,234	-34.0%
JAPANESE YEN	197,758	241,605	-18.1%	166,207	19.0%
KOREAN WON	355	27	1,214.8%	335	6.0%
MEXICAN PESO	189,774	214,991	-11.7%	144,154	31.6%
NEW ZEALND DOLLAR	51,817	54,160	-4.3%	50,935	1.7%
NKR/USD CROSS RATE	1,739	602	188.9%	1,420	22.5%
POLISH ZLOTY (EC)	5	11	-54.5%	0	-
POLISH ZLOTY (US)	12	56	-78.6%	9	33.3%
RMB USD	1	43	-97.7%	0	-
RUSSIAN RUBLE	26,664	34,988	-23.8%	20,119	32.5%
S.AFRICAN RAND	10,754	21,427	-49.8%	6,655	61.6%
SF/JY CROSS RATES	0	0	-	0	-
SHEKEL	24	0	-	0	-
SKR/USD CROSS RATES	1,729	1,629	6.1%	1,721	0.5%
SWISS FRANC	91,102	40,080	127.3%	95,328	-4.4%
TURKISH LIRA	1,540	2,577	-40.2%	1,110	38.7%
USDZAR	0	0	-	0	-
<b>FX Options</b>					
AUD/USD PQO 2pm Fix	63,561	86,738	-26.7%	68,308	-6.9%
AUSTRALIAN DLR (EU)	0	0	-	0	-
AUSTRALIAN DOLLAR	0	0	-	0	-
BRITISH POUND	0	0	-	0	-
BRITISH POUND (EU)	104	509	-79.6%	102	2.0%
CAD/USD PQO 2pm Fix	79,746	117,282	-32.0%	94,763	-15.8%
CANADIAN DOLLAR	0	0	-	0	-
CANADIAN DOLLAR (EU)	0	12	-100.0%	0	-
CHF/USD PQO 2pm Fix	6,982	4,357	60.2%	6,543	6.7%
EFX/JY CROSS RATES	0	0	-	0	-
EURO FX	0	0	-	0	-
EURO FX (EU)	17	71	-76.1%	14	21.4%
EUR/USD PQO 2pm Fix	300,417	338,323	-11.2%	321,342	-6.5%
GBP/USD PQO 2pm Fix	137,998	148,658	-7.2%	131,964	4.6%
JAPANESE YEN	0	0	-	0	-
JAPANESE YEN (EU)	0	23	-100.0%	0	-
JPY/USD PQO 2pm Fix	138,387	139,371	-0.7%	115,592	19.7%
MEXICAN PESO	2,715	1,126	141.1%	2,887	-6.0%
RUSSIAN RUBLE	0	0	-	0	-
SWISS FRANC	0	0	-	0	-
SWISS FRANC (EU)	0	2	-100.0%	0	-
<b>Foreign Exchange Futures</b>					
CHILEAN PESO	558	3,403	-83.6%	340	64.1%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Foreign Exchange Options</b>					
AUD/USD PQO 2pm Fix	0	0	-	1	-100.0%
<b>Ags Futures</b>					
FERTILIZER PRODUCTS	1,290	250	416.0%	1,510	-14.6%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2018	Open Interest JUL 2017	% CHG	Open Interest JUN 2018	% CHG
<b>Ag Products Futures</b>					
BUTTER CS	7,512	5,907	27.2%	7,718	-2.7%
CASH-SETTLED CHEESE	26,300	22,373	17.6%	26,376	-0.3%
CAT EURO SEASONAL STRIP	0	0	-	0	-
CATTLE	310,247	356,231	-12.9%	325,351	-4.6%
CDD SEASONAL STRIP	600	1,100	-45.5%	600	0.0%
CDD WEATHER	0	16,000	-100.0%	0	-
CHI WHEAT	490,485	430,128	14.0%	472,611	3.8%
CLASS IV MILK	1,570	3,466	-54.7%	1,570	0.0%
COCOA TAS	0	1	-100.0%	0	-
COFFEE	0	0	-	0	-
CORN	1,852,366	1,420,468	30.4%	1,840,933	0.6%
COTTON	0	2	-100.0%	0	-
DJ_UBS ROLL SELECT INDEX FU	2,951	1,070	175.8%	2,951	0.0%
DOW-UBS COMMOD INDEX	32,728	45,673	-28.3%	55,518	-41.0%
DRY WHEY	4,206	4,338	-3.0%	4,079	3.1%
FEEDER CATTLE	54,748	59,011	-7.2%	46,718	17.2%
FERTILIZER PRODUCTS	2,670	3,120	-14.4%	3,815	-30.0%
GOLDMAN SACHS	15,357	15,121	1.6%	15,113	1.6%
GSCI EXCESS RETURN FUT	55,405	54,405	1.8%	55,372	0.1%
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	240,288	268,508	-10.5%	231,537	3.8%
HOUSING INDEX	44	54	-18.5%	39	12.8%
Intercommodity Spread	0	0	-	0	-
KC WHEAT	284,072	270,817	4.9%	248,658	14.2%
LUMBER	5,194	4,864	6.8%	6,147	-15.5%
MALAYSIAN PALM SWAP	23,016	28,030	-17.9%	22,300	3.2%
MILK	24,840	30,370	-18.2%	23,911	3.9%
MINI CORN	12,693	7,258	74.9%	12,718	-0.2%
MINI SOYBEAN	24,225	21,360	13.4%	26,397	-8.2%
MINI WHEAT	3,201	2,872	11.5%	1,696	88.7%
MLK MID OPTIONS	0	0	-	0	-
NFD MILK	7,613	6,206	22.7%	6,851	11.1%
OATS	5,119	6,964	-26.5%	4,792	6.8%
PALM OIL	0	0	-	0	-
ROUGH RICE	8,416	10,019	-16.0%	7,453	12.9%
SOYBEAN	804,501	621,496	29.4%	806,184	-0.2%
SOYBEAN MEAL	514,557	340,187	51.3%	504,119	2.1%
SOYBEAN OIL	517,659	406,141	27.5%	490,024	5.6%
S&P GSCI ENHANCED ER SWAP	3,762	17,033	-77.9%	3,851	-2.3%
SUGAR 11	0	1	-100.0%	58	-100.0%
USD CRUDE PALM OIL	5,320	900	491.1%	4,600	15.7%
WHEAT	26,600	971	2,639.4%	24,180	10.0%
<b>Ag Products Options</b>					
AUG-DEC SOYBEAN MEAL CSO	0	0	-	0	-
AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

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<b>Ag Products Options</b>					
BUTTER CS	14,756	6,780	117.6%	15,988	-7.7%
CASH-SETTLED CHEESE	39,225	32,723	19.9%	40,844	-4.0%
CATTLE	189,036	203,419	-7.1%	184,050	2.7%
CDD SEASONAL STRIP	700	2,800	-75.0%	700	0.0%
CDD WEATHER	0	30,000	-100.0%	0	-
CHI WHEAT	425,710	354,410	20.1%	353,773	20.3%
CLASS IV MILK	3,803	7,225	-47.4%	3,913	-2.8%
CORN	1,721,612	1,393,507	23.5%	1,807,412	-4.7%
CORN NEARBY+2 CAL SPRD	7,078	3,165	123.6%	6,178	14.6%
DEC-DEC CORN CAL SPRD	4,508	5,881	-23.3%	3,128	44.1%
DEC-JULY CORN CAL SPRD	7,794	18,250	-57.3%	3,160	146.6%
DEC-JULY WHEAT CAL SPRD	32	0	-	0	-
DRY WHEY	3,013	2,128	41.6%	3,280	-8.1%
FEEDER CATTLE	36,876	47,342	-22.1%	30,206	22.1%
HDD EURO SEASONAL STRIP	0	0	-	0	-
HDD SEASONAL STRIP	3,000	0	-	0	-
HDD WEATHER	0	0	-	0	-
HDD WEATHER EUROPEAN	0	0	-	0	-
HOGS	192,160	184,619	4.1%	156,513	22.8%
HOUSING INDEX	2	0	-	2	0.0%
Intercommodity Spread	900	0	-	900	0.0%
JAN-MAY SOYBEAN CAL SPRD	0	0	-	0	-
JULY-DEC CORN CAL SPRD	0	0	-	0	-
JULY-DEC SOYMEAL CAL SPRD	1,200	0	-	0	-
JULY-DEC SOY OIL CAL SPRD	0	0	-	0	-
JULY-DEC WHEAT CAL SPRD	0	0	-	0	-
JULY-JULY WHEAT CAL SPRD	0	0	-	0	-
JULY-NOV SOYBEAN CAL SPRD	0	0	-	0	-
KC WHEAT	77,460	52,847	46.6%	47,030	64.7%
LUMBER	1,377	1,087	26.7%	1,222	12.7%
LV CATL CSO	43	350	-87.7%	38	13.2%
MAR-JULY CORN CAL SPRD	0	0	-	0	-
MAR-JULY WHEAT CAL SPRD	0	0	-	0	-
MILK	83,809	85,209	-1.6%	85,465	-1.9%
MLK MID OPTIONS	341	501	-31.9%	350	-2.6%
NFD MILK	17,056	10,768	58.4%	18,117	-5.9%
NOV-JULY SOYBEAN CAL SPRD	0	626	-100.0%	0	-
NOV-MAR SOYBEAN CSO	120	0	-	70	71.4%
NOV-NOV SOYBEAN CAL SPRD	5	50	-90.0%	5	0.0%
OATS	688	2,684	-74.4%	585	17.6%
ROUGH RICE	2,160	3,704	-41.7%	1,307	65.3%
SEP-DEC SOYBEAN MEAL CSO	712	0	-	716	-0.6%
SOYBEAN	726,741	717,386	1.3%	699,928	3.8%
SOYBEAN CRUSH	50	165	-69.7%	47	6.4%
SOYBEAN MEAL	189,721	116,180	63.3%	184,926	2.6%
SOYBEAN OIL	71,695	85,572	-16.2%	72,730	-1.4%
SOYBN NEARBY+2 CAL SPRD	10	10	0.0%	10	0.0%
SOYMEAL NEARBY+2 CAL SPRD	250	0	-	100	150.0%
WHEAT	300	100	200.0%	0	-
WHEAT-CORN ICSCO	835	830	0.6%	300	178.3%
WHEAT NEARBY+2 CAL SPRD	1,795	600	199.2%	1,215	47.7%

**\*\*\* 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.**

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2018	Open Interest JUL 2017	% CHG	Open Interest JUN 2018	% CHG
<b>TOTAL FUTURES GROUP</b>					
Interest Rate Futures	28,233,202	24,428,419	15.6%	27,596,762	2.3%
Equity Index Futures	4,343,107	3,969,689	9.4%	4,192,597	3.6%
Metals Futures	1,211,398	1,175,400	3.1%	1,186,521	2.1%
Energy Futures	13,781,224	18,285,800	-24.6%	14,256,806	-3.3%
FX Futures	1,689,803	1,756,759	-3.8%	1,616,287	4.5%
Foreign Exchange Futures	558	3,403	-83.6%	340	64.1%
Ags Futures	1,290	250	416.0%	1,510	-14.6%
Ag Products Futures	5,368,265	4,482,465	19.8%	5,284,240	1.6%
<b>TOTAL FUTURES</b>	<b>54,628,847</b>	<b>54,102,185</b>	<b>1.0%</b>	<b>54,135,063</b>	<b>0.9%</b>
<b>TOTAL OPTIONS GROUP</b>					
Interest Rate Options	48,855,164	41,565,201	17.5%	44,471,307	9.9%
Equity Index Options	4,466,782	4,440,983	0.6%	3,861,881	15.7%
Metals Options	1,453,319	1,123,283	29.4%	1,418,496	2.5%
Energy Options	6,602,511	7,255,020	-9.0%	6,675,023	-1.1%
FX Options	729,927	836,472	-12.7%	741,515	-1.6%
Foreign Exchange Options	0	0	-	1	-100.0%
Ag Products Options	3,826,573	3,370,918	13.5%	3,724,208	2.7%
<b>TOTAL OPTIONS</b>	<b>65,934,276</b>	<b>58,591,877</b>	<b>12.5%</b>	<b>60,892,431</b>	<b>8.3%</b>
<b>TOTAL COMBINED</b>					
Interest Rate	77,088,366	65,993,620	16.8%	72,068,069	7.0%
Equity Index	8,809,889	8,410,672	4.7%	8,054,478	9.4%
Metals	2,664,717	2,298,683	15.9%	2,605,017	2.3%
Energy	20,383,735	25,540,820	-20.2%	20,931,829	-2.6%
FX	2,419,730	2,593,231	-6.7%	2,357,802	2.6%
Foreign Exchange	558	3,403	-83.6%	341	63.6%
Ags	1,290	250	416.0%	1,510	-14.6%
Ag Products	9,194,838	7,853,383	17.1%	9,008,448	2.1%
<b>GRAND TOTAL</b>	<b>120,563,123</b>	<b>112,694,062</b>	<b>7.0%</b>	<b>115,027,494</b>	<b>4.8%</b>

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