



## CME Group Exchange Open Interest Report - Monthly

	Open Interest MAR 2019	Open Interest MAR 2018	% CHG	Open Interest FEB 2019	% CHG
<b>Interest Rate Futures</b>					
10-YR NOTE	3,869,832	3,472,406	11.4%	3,996,442	-3.2%
10-YR SWAP RATE	86,783	29,226	196.9%	109,536	-20.8%
15-YR SWAP RATE	10,850	0	-	10,850	0.0%
1-MONTH EURODOLLAR	50	7,081	-99.3%	61	-18.0%
20-YR SWAP RATE	90	0	-	136	-33.8%
2-YR NOTE	3,194,470	1,946,560	64.1%	2,983,814	7.1%
2-YR SWAP RATE	22,587	0	-	18,446	22.4%
30-YR BOND	972,788	782,340	24.3%	977,956	-0.5%
30-YR SWAP RATE	1,691	122	1,286.1%	1,590	6.4%
3-YR SWAP RATE	12,864	0	-	11,289	14.0%
4-YR SWAP RATE	5,720	0	-	5,560	2.9%
5-YR NOTE	4,279,212	3,428,813	24.8%	4,317,240	-0.9%
5-YR SWAP RATE	65,934	19,504	238.1%	86,917	-24.1%
7-YR SWAP RATE	10,388	0	-	12,879	-19.3%
EURODOLLARS	12,590,552	16,882,213	-25.4%	12,525,461	0.5%
FED FUND	1,912,226	2,474,629	-22.7%	1,903,108	0.5%
SOFR	134,998	0	-	124,633	8.3%
SONIA	13,123	0	-	11,518	13.9%
Ultra 10-Year Note	730,263	560,984	30.2%	665,639	9.7%
ULTRA T-BOND	1,171,406	947,473	23.6%	1,146,729	2.2%
<b>Interest Rate Options</b>					
10-YR NOTE	3,616,074	2,911,922	24.2%	2,856,739	26.6%
2-YR NOTE	448,391	347,957	28.9%	179,473	149.8%
30-YR BOND	1,089,476	632,151	72.3%	807,425	34.9%
5-YR NOTE	2,436,665	1,467,733	66.0%	1,686,450	44.5%
EURODOLLARS	37,071,246	27,302,180	35.8%	35,865,922	3.4%
EURO MIDCURVE	15,256,235	18,926,408	-19.4%	17,933,275	-14.9%
FED FUND	1,952	5,051	-61.4%	1,700	14.8%
Ultra 10-Year Note	9,564	3	318,700.0%	50	19,028.0%
ULTRA T-BOND	19,304	5,667	240.6%	14,486	33.3%

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<b>Equity Index Futures</b>					
BITCOIN FUTURES	3,656	1,710	113.8%	3,205	14.1%
DJ US REAL ESTATE	23,646	23,249	1.7%	31,731	-25.5%
E-mini (\$5) Dow	81,514	99,947	-18.4%	88,157	-7.5%
E-mini FTSE 100 (USD)	0	0	0.0%	5	-100.0%
E-mini FTSE China 50	0	226	-100.0%	140	-100.0%
E-MINI MIDCAP	61,895	79,509	-22.2%	68,292	-9.4%
E-MINI NASDAQ 100	195,756	250,985	-22.0%	228,750	-14.4%
E-MINI RUSSELL 1000	8,899	8,000	11.2%	8,065	10.3%
E-MINI RUSSELL 1000 GROWTH	2,279	1,624	40.3%	2,829	-19.4%
E-MINI RUSSELL 1000 VALUE	6,244	7,628	-18.1%	13,882	-55.0%
E-MINI RUSSELL 2000	448,221	476,241	-5.9%	523,555	-14.4%
E-MINI S&P500	2,507,348	2,988,089	-16.1%	2,690,270	-6.8%
E-MINI S&P REAL ESTATE SELE	4,476	2,988	49.8%	6,989	-36.0%
FT-SE 100	0	19	-100.0%	0	-
FTSE Emerging	89	20	345.0%	17	423.5%
IBOVESPA INDEX	458	676	-32.2%	511	-10.4%
NASDAQ BIOTECH	26	964	-97.3%	31	-16.1%
NIFTY 50	0	1,510	-100.0%	0	-
NIKKEI 225 (\$) STOCK	24,840	43,711	-43.2%	29,013	-14.4%
NIKKEI 225 (YEN) STOCK	56,423	64,692	-12.8%	72,734	-22.4%
S&P 500	215,678	127,436	69.2%	325,225	-33.7%
S&P 500/GI	10	13	-23.1%	10	0.0%
S&P 500/VALUE	92,331	107,521	-14.1%	81,834	12.8%
S&P 600 SMALLCAP EMINI	0	0	-	0	-
S&P CONSUMER DSCRTNRY SE	3,740	6,079	-38.5%	4,707	-20.5%
S&P CONSUMER STAPLES SECT	13,499	25,322	-46.7%	16,930	-20.3%
S&P ENERGY SECTOR	14,246	11,803	20.7%	13,626	4.6%
S&P FINANCIAL SECTOR	31,974	32,163	-0.6%	16,370	95.3%
S&P HEALTH CARE SECTOR	9,652	6,821	41.5%	14,924	-35.3%
S&P INDUSTRIAL SECTOR	6,684	5,120	30.5%	16,021	-58.3%
S&P MATERIALS SECTOR	6,301	4,178	50.8%	6,865	-8.2%
S&P TECHNOLOGY SECTOR	7,249	11,085	-34.6%	9,162	-20.9%
S&P UTILITIES SECTOR	9,921	23,571	-57.9%	18,277	-45.7%
YEN DENOMINATED TOPIX	458	90	408.9%	1,044	-56.1%

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<b>Equity Index Options</b>					
E-mini (\$5) Dow	2,811	8,788	-68.0%	9,392	-70.1%
E-MINI NASDAQ 100	55,492	70,778	-21.6%	62,406	-11.1%
E-MINI RUSSELL 2000	14,117	7,267	94.3%	18,777	-24.8%
E-MINI S&P500	1,654,246	1,639,472	0.9%	2,457,534	-32.7%
EOM E-MINI RUSSELL 2000 END	2,605	481	441.6%	2,380	9.5%
EOM EMINI S&P	521,931	498,323	4.7%	496,517	5.1%
EOM S&P 500	37,763	23,602	60.0%	26,699	41.4%
EOW1 E-MINI RUSSELL 2000 WE	817	1,733	-52.9%	315	159.4%
EOW1 E-MINI RUSSELL 2000 WE	1,203	2,464	-51.2%	580	107.4%
EOW1 EMINI S&P 500	199,640	247,024	-19.2%	208,292	-4.2%
EOW1 S&P 500	22,186	10,013	121.6%	45,900	-51.7%
EOW2 E-MINI RUSSELL 2000 WE	1,030	1,590	-35.2%	664	55.1%
EOW2 EMINI S&P 500	110,263	132,476	-16.8%	177,301	-37.8%
EOW2 S&P 500	2,296	8,609	-73.3%	20,888	-89.0%
EOW3 E-MINI RUSSELL 2000 WE	9,374	26,819	-65.0%	3,088	203.6%
EOW3 EMINI S&P 500	861,514	1,231,223	-30.0%	374,490	130.0%
EOW3 S&P 500	56,313	113,937	-50.6%	28,180	99.8%
EOW4 E-MINI RUSSELL 2000 WE	183	1,369	-86.6%	151	21.2%
EOW4 EMINI S&P 500	62,599	55,264	13.3%	64,593	-3.1%
S&P 500	50,931	96,009	-47.0%	93,569	-45.6%
<b>Metals Futures</b>					
ALUMINUM	58,556	72,601	-19.3%	60,039	-2.5%
COMEX COPPER	249,843	291,568	-14.3%	255,010	-2.0%
COMEX E-Mini GOLD	775	582	33.2%	578	34.1%
COMEX E-Mini SILVER	171	211	-19.0%	178	-3.9%
COMEX GOLD	448,609	500,119	-10.3%	491,021	-8.6%
COMEX MINY COPPER	209	137	52.6%	176	18.8%
COMEX SILVER	196,044	229,252	-14.5%	196,686	-0.3%
COPPER	12,724	15,567	-18.3%	13,045	-2.5%
E-MICRO GOLD	11,592	7,871	47.3%	12,130	-4.4%
FERROUS PRODUCTS	3,389	4,259	-20.4%	3,751	-9.7%
GOLD	0	0	-	0	-
Gold Kilo	0	57	-100.0%	0	-
IRON ORE 62 CHINA PLATTS FU	0	1,170	-100.0%	0	-
IRON ORE 62 CHINA TSI FUTURE	10,174	10,922	-6.8%	10,103	0.7%
LNDN ZINC	0	3	-100.0%	10	-100.0%
NYMEX HOT ROLLED STEEL	17,003	14,987	13.5%	22,473	-24.3%
NYMEX PLATINUM	68,155	74,770	-8.8%	78,977	-13.7%
PALLADIUM	23,754	23,794	-0.2%	26,608	-10.7%
SILVER	1,507	1,422	6.0%	1,833	-17.8%
URANIUM	3,601	2,964	21.5%	3,073	17.2%

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<b>Metals Options</b>					
COMEX COPPER	48,982	13,999	249.9%	40,337	21.4%
COMEX GOLD	1,257,048	1,019,943	23.2%	1,174,373	7.0%
COMEX SILVER	230,726	151,782	52.0%	217,615	6.0%
COPPER	10	0	-	11	-9.1%
GOLD	19,002	4,237	348.5%	19,753	-3.8%
HOT ROLLED COIL STEEL CALL	750	900	-16.7%	200	275.0%
IRON ORE 62 CHINA TSI CALL O	3,340	3,404	-1.9%	260	1,184.6%
IRON ORE 62 CHINA TSI PUT OP	1,850	1,620	14.2%	55	3,263.6%
NYMEX PLATINUM	4,557	3,230	41.1%	6,854	-33.5%
PALLADIUM	1,902	2,864	-33.6%	899	111.6%
SILVER	859	30	2,763.3%	519	65.5%
<b>Energy Futures</b>					
3.5% FUEL OIL CID MED SWA	50	312	-84.0%	54	-7.4%
3.5% FUEL OIL CIF BALMO S	0	0	-	20	-100.0%
AEP-DAYTON HUB DAILY	34	138	-75.4%	114	-70.2%
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	1,433	-100.0%	62	-100.0%
ARGUS LLS VS. WTI (ARG) T	34,289	51,265	-33.1%	36,638	-6.4%
ARGUS PROPAN FAR EST INDE	5,355	4,806	11.4%	5,009	6.9%
ARGUS PROPAN(SAUDI ARAMC	2,173	1,897	14.5%	2,044	6.3%
AUSTRIALIAN COKE COAL	40	288	-86.1%	44	-9.1%
BRENT BALMO SWAP	223	0	-	125	78.4%
BRENT CALENDAR SWAP	20,338	11,421	78.1%	22,361	-9.0%
BRENT CFD SWAP	0	0	-	0	-
BRENT FINANCIAL FUTURES	218	9,838	-97.8%	158	38.0%
BRENT OIL LAST DAY	206,647	203,573	1.5%	199,736	3.5%
CAISO SP15 EZGNHUB5 MW P	0	0	-	0	-
CAISO SP15 EZGNHUB5 PEAK	0	0	-	0	-
CANADIAN LIGHT SWEET OIL	0	56	-100.0%	0	-
CENTERPOINT BASIS SWAP	906	7,463	-87.9%	1,356	-33.2%
CHICAGO ETHANOL SWAP	45,855	60,982	-24.8%	51,408	-10.8%
CHICAGO ULSD (PLATTS) SWA	0	0	-	0	-
CHICAGO ULSD PL VS HO SPR	2,915	879	231.6%	2,903	0.4%
CHICAGO UNL GAS PL VS RBO	590	525	12.4%	640	-7.8%
CIG BASIS	5,034	19,154	-73.7%	5,597	-10.1%
CIG ROCKIES NG INDEX SWA	0	0	-	0	-
CINERGY HUB OFF-PEAK MONT	0	100	-100.0%	0	-
CINERGY HUB PEAK MONTH	0	240	-100.0%	0	-
CIN HUB 5MW D AH O PK	0	110,600	-100.0%	0	-
CIN HUB 5MW D AH PK	1,385	7,386	-81.2%	1,607	-13.8%
CIN HUB 5MW REAL TIME O P	120,904	397,784	-69.6%	131,104	-7.8%
CIN HUB 5MW REAL TIME PK	14,499	32,952	-56.0%	15,864	-8.6%
COAL SWAP	20	155	-87.1%	20	0.0%
COLUMB GULF MAINLINE NG B	699	2,988	-76.6%	723	-3.3%

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<b>Energy Futures</b>					
COLUMBIA GULF ONSHORE	0	0	-	0	-
CONWAY NATURAL GASOLINE (	1,544	954	61.8%	1,632	-5.4%
CONWAY NORMAL BUTANE (OPI	624	795	-21.5%	600	4.0%
CONWAY PROPANE 5 DECIMALS	18,841	20,282	-7.1%	20,253	-7.0%
CRUDE OIL	25,339	15,362	64.9%	27,622	-8.3%
CRUDE OIL OUTRIGHTS	159,806	135,375	18.0%	145,591	9.8%
CRUDE OIL PHY	1,970,837	2,525,557	-22.0%	2,076,397	-5.1%
CRUDE OIL SPRDS	127,022	167,091	-24.0%	135,757	-6.4%
CRUDE OIL TRADE AT MARKER	0	0	0.0%	0	0.0%
DAILY PJM	150,555	220,442	-31.7%	138,982	8.3%
DATED BRENT (PLATTS) DAILY S	0	0	-	0	-
DATED TO FRONTLINE BRENT	2,225	7,325	-69.6%	2,570	-13.4%
DIESEL 10P BRG FOB RDM VS	0	0	-	0	-
DIESEL 10PPM BARGES FOB B	0	0	-	0	-
DOMINION TRAN INC - APP I	0	2,448	-100.0%	0	-
DOMINION TRANSMISSION INC	8,642	24,141	-64.2%	10,130	-14.7%
DUBAI CRUDE OIL BALMO	0	125	-100.0%	0	-
DUBAI CRUDE OIL CALENDAR	17,433	5,025	246.9%	21,356	-18.4%
DUTCH TTF NATURAL GAS CAL	1,668	90	1,753.3%	1,689	-1.2%
DY EURO 3.5% FUEL OI RDA	0	0	-	0	-
EASTERN RAIL DELIVERY CSX	0	195	-100.0%	0	-
EAST/WEST FUEL OIL SPREAD	40	142	-71.8%	41	-2.4%
EIA FLAT TAX ONHWAY DIESE	1,655	1,945	-14.9%	1,764	-6.2%
ELEC ERCOT DLY OFF PK	0	0	-	0	-
ELEC ERCOT DLY PEAK	0	140	-100.0%	0	-
ELEC ERCOT OFF PEAK	0	0	-	0	-
ELEC FINSETTLED	940	1,450	-35.2%	980	-4.1%
ELEC MISO PEAK	0	3,195	-100.0%	0	-
ELEC NYISO OFF-PEAK	0	59,040	-100.0%	0	-
ELECTRICITY ERCOT PEAK	0	0	-	0	-
ELECTRICITY OFF PEAK	72,596	26,576	173.2%	73,300	-1.0%
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	2,830	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW OF	0	0	-	0	-
ERCOT NORTH ZMCPE 5MW OF	0	110,880	-100.0%	0	-
ERCOT NORTH ZMCPE 5MW PE	0	7,590	-100.0%	0	-
ETHANOL	1,327	1,812	-26.8%	1,474	-10.0%
ETHANOL SWAP	410	10	4,000.0%	380	7.9%
ETHANOL T2 FOB ROTT INCL DU	4,904	5,382	-8.9%	5,889	-16.7%
EURO 1% FUEL OIL NEW BALM	0	0	-	0	-
EURO 3.5% FUEL OIL RDAM B	105	419	-74.9%	0	-
EURO 3.5% FUEL OIL SPREAD	45	203	-77.8%	0	-
EURO-DENOMINATED PETRO P	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	20	410	-95.1%	40	-50.0%
EUROPE 1% FUEL OIL NWE CA	244	248	-1.6%	254	-3.9%
EUROPE 1% FUEL OIL RDAM C	3	0	-	3	0.0%
EUROPE 3.5% FUEL OIL MED	147	428	-65.7%	150	-2.0%
EUROPE 3.5% FUEL OIL RDAM	7,362	11,899	-38.1%	7,418	-0.8%
EUROPEAN GASOIL (ICE)	111	294	-62.2%	97	14.4%

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<b>Energy Futures</b>					
EUROPEAN NAPHTHA BALMO	268	205	30.7%	168	59.5%
EUROPEAN NAPHTHA CRACK SP	12,982	13,529	-4.0%	13,309	-2.5%
EUROPE DATED BRENT SWAP	640	375	70.7%	1,516	-57.8%
EUROPE JET KERO NWE CALSWP	22	42	-47.6%	23	-4.3%
EUROPE NAPHTHA CALSWAP	2,894	3,429	-15.6%	2,792	3.7%
EURO PROPANE CIF ARA SWA	2,124	1,781	19.3%	2,025	4.9%
FLORIDA GAS ZONE3 BASIS S	0	0	-	0	-
FREIGHT MARKETS	4,162	1,511	175.4%	4,175	-0.3%
FUEL OIL CRACK VS ICE	7,384	16,269	-54.6%	7,635	-3.3%
FUEL OIL NWE CRACK VS ICE	171	156	9.6%	171	0.0%
FUEL OIL (PLATS) CAR CM	0	140	-100.0%	0	-
FUEL OIL (PLATS) CAR CN	0	45	-100.0%	0	-
FUELOIL SWAP:CARGOES VS.B	1,023	810	26.3%	1,023	0.0%
GAS EURO-BOB OXY NWE BARG	6,019	6,368	-5.5%	6,761	-11.0%
GAS EURO-BOB OXY NWE BARG	29,201	32,620	-10.5%	27,192	7.4%
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	0	0	-	0	-
GASOIL 0.1 CIF VS ICE GAS	0	0	-	0	-
GASOIL 0.1 RDAM BRGS VS I	15	180	-91.7%	15	0.0%
GASOIL 0.1 ROTTERDAM BARG	21	30	-30.0%	14	50.0%
GASOIL 10P CRG CIF NW VS	0	0	-	0	-
GASOIL 10PPM VS ICE SWAP	27	492	-94.5%	20	35.0%
GASOIL BULLET SWAP	0	0	-	0	-
GASOIL CALENDAR SWAP	48	12	300.0%	48	0.0%
GASOIL CRACK SPREAD CALEN	13,109	26,211	-50.0%	13,648	-3.9%
GASOIL MINI CALENDAR SWAP	927	611	51.7%	1,012	-8.4%
GERMAN POWER BASELOAD CA	443	60	638.3%	210	111.0%
GROUP THREE ULSD (PLATTS)	45	115	-60.9%	47	-4.3%
GROUP THREE UNLEAD GAS (P	25	0	-	50	-50.0%
GRP THREE ULSD(PLT)VS HEA	7,141	11,682	-38.9%	7,452	-4.2%
GRP THREE UNL GS (PLT) VS	4,344	3,857	12.6%	5,490	-20.9%
GULF COAST 3% FUEL OIL BA	1,099	725	51.6%	72	1,426.4%
GULF COAST JET FUEL CLNDR	793	687	15.4%	852	-6.9%
GULF COAST JET VS NYM 2 H	31,722	35,370	-10.3%	28,910	9.7%
GULF COAST NO.6 FUEL OIL	27,214	53,686	-49.3%	30,931	-12.0%
GULF COAST ULSD CALENDAR	1,816	1,317	37.9%	1,801	0.8%
GULF COAST ULSD CRACK SPR	535	1,095	-51.1%	560	-4.5%
HEATING OIL BALMO CLNDR S	0	0	-	10	-100.0%
HEATING OIL PHY	375,201	413,584	-9.3%	431,432	-13.0%
HENRY HUB BASIS SWAP	10,058	3,172	217.1%	10,058	0.0%
HENRY HUB FINANCIAL LAST	0	6	-100.0%	0	-
HENRY HUB INDEX SWAP FUTU	10,058	2,072	385.4%	10,058	0.0%
HENRY HUB SWAP	1,001,083	1,099,405	-8.9%	1,026,984	-2.5%
HOUSTON SHIP CHANNEL BASI	9,794	16,091	-39.1%	10,321	-5.1%
HTG OIL	128	212	-39.6%	141	-9.2%
HUSTN SHIP CHNL PIPE SWP	0	0	-	0	-
ICE BRENT DUBAI SWAP	33,558	43,901	-23.6%	34,434	-2.5%
ICE GASOIL BALMO SWAP	0	0	-	0	-
IN DELIVERY MONTH EUA	0	3,698	-100.0%	0	-
INDIANA MISO	4,689	28,489	-83.5%	4,130	13.5%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
INDONESIAN COAL	0	0	-	0	-
INDONESIAN COAL ICI4	822	80	927.5%	85	867.1%
ISO NEW ENGLAND OFF-PEAK	0	0	-	0	-
ISO NEW ENGLAND PK LMP	0	0	-	0	-
JAPAN C&F NAPHTHA CRACK S	121	759	-84.1%	121	0.0%
JAPAN C&F NAPHTHA SWAP	1,576	2,366	-33.4%	1,407	12.0%
JAPAN NAPHTHA BALMO SWAP	92	15	513.3%	25	268.0%
JET AV FUEL (P) CAR FM ICE GA	0	20	-100.0%	0	-
JET CIF NWE VS ICE	346	668	-48.2%	365	-5.2%
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	2,690	8,747	-69.2%	2,265	18.8%
JKM LNG Futures	5,226	1,100	375.1%	4,000	30.7%
LA CARB DIESEL (OPIS)	0	0	-	0	-
LA CARB DIESEL (OPIS) SWA	158	400	-60.5%	188	-16.0%
LA CARBOB GASOLINE(OPIS)S	900	825	9.1%	1,150	-21.7%
LA JET FUEL VS NYM NO 2 H	0	0	-	0	-
LA JET (OPIS) SWAP	1,957	2,990	-34.5%	2,148	-8.9%
LLS (ARGUS) CALENDAR SWAP	459	0	-	479	-4.2%
LLS (ARGUS) VS WTI SWAP	24,728	24,055	2.8%	26,950	-8.2%
LOS ANGELES CARB GASOLINE	0	0	-	0	-
LTD NAT GAS	378,825	366,598	3.3%	411,964	-8.0%
MARS (ARGUS) VS WTI SWAP	5,790	8,635	-32.9%	4,670	24.0%
MARS (ARGUS) VS WTI TRD M	26,585	28,560	-6.9%	28,742	-7.5%
MARS BLEND CRUDE OIL	0	389	-100.0%	0	-
MCCLOSKEY ARA ARGS COAL	22,020	43,276	-49.1%	20,959	5.1%
MCCLOSKEY RCH BAY COAL	3,552	6,024	-41.0%	2,680	32.5%
MGF FUT	0	45	-100.0%	20	-100.0%
MGN1 SWAP FUT	335	448	-25.2%	300	11.7%
MICHIGAN BASIS	1,678	4,245	-60.5%	1,833	-8.5%
MICHIGAN MISO	0	29,043	-100.0%	0	-
MINI GAS EUROBOB OXY NWE A	44	286	-84.6%	135	-67.4%
MINI RBOB V. EBOBARG NWE BF	130	71	83.1%	490	-73.5%
MINI RBOB V. EBOB(ARGUS) NW	3,078	1,945	58.3%	2,873	7.1%
MINY HTG OIL	0	0	-	1	-100.0%
MINY NATURAL GAS	1,996	2,139	-6.7%	2,266	-11.9%
MINY RBOB GAS	0	0	-	0	0.0%
MINY WTI CRUDE OIL	3,351	3,290	1.9%	4,099	-18.2%
MJC FUT	290	620	-53.2%	275	5.5%
MNC FUT	6,710	4,887	37.3%	6,305	6.4%
MONT BELVIEU ETHANE 5 DECI	38,531	47,889	-19.5%	39,129	-1.5%
MONT BELVIEU ETHANE OPIS B	50	15	233.3%	75	-33.3%
MONT BELVIEU LDH PROPANE 5	128,913	111,964	15.1%	117,818	9.4%
MONT BELVIEU LDH PROPANE C	2,020	2,431	-16.9%	1,450	39.3%
MONT BELVIEU NATURAL GASO	16,733	19,168	-12.7%	18,303	-8.6%
MONT BELVIEU NATURAL GASO	715	640	11.7%	278	157.2%
MONT BELVIEU NORMAL BUTAN	41,164	30,422	35.3%	40,583	1.4%
MONT BELVIEU NORMAL BUTAN	1,400	960	45.8%	1,272	10.1%
NAT GAS BASIS SWAP	1,925	4,755	-59.5%	2,142	-10.1%
NATURAL GAS	83,457	80,022	4.3%	89,398	-6.6%
NATURAL GAS FIXED PRICE SW	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
NATURAL GAS INDEX	0	0	-	0	-
NATURAL GAS PEN SWP	130,899	151,352	-13.5%	137,588	-4.9%
NATURAL GAS PHY	1,171,386	1,433,262	-18.3%	1,176,942	-0.5%
NEPOOL CNCTCT 5MW D AH O	0	0	-	0	-
NEPOOL CONECTIC 5MW D AH	0	0	-	0	-
NEPOOL INTR HUB 5MW D AH	407,016	525,270	-22.5%	433,008	-6.0%
NEPOOL NE MASS 5MW D AH O	11,808	14,040	-15.9%	12,864	-8.2%
NEPOOL NE MASS 5MW D AH P	639	765	-16.5%	699	-8.6%
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	1,507	1,971	-23.5%	1,513	-0.4%
NEW YORK ETHANOL SWAP	1,112	2,950	-62.3%	885	25.6%
NEW YORK HUB ZONE G PEAK	1,221	2,556	-52.2%	1,449	-15.7%
NEW YORK HUB ZONE J PEAK	1,155	660	75.0%	1,120	3.1%
NGPL MID-CONTINENT	11,680	20,743	-43.7%	13,757	-15.1%
NGPL TEX/OK	19,891	23,202	-14.3%	22,782	-12.7%
N ILLINOIS HUB DAILY	68	387	-82.4%	108	-37.0%
N ILLINOIS HUB MTHLY	0	0	-	0	-
NO 2 UP-DOWN SPREAD CALEN	475	935	-49.2%	300	58.3%
NORTHERN NATURAL GAS DEMA	428	1,356	-68.4%	428	0.0%
NORTHERN NATURAL GAS VENTL	1,284	1,468	-12.5%	1,304	-1.5%
NORTHERN ILLINOIS OFF-PEA	0	0	-	0	-
NORTHWEST ROCKIES BASIS S	12,709	33,385	-61.9%	14,042	-9.5%
N ROCKIES PIPE SWAP	0	91	-100.0%	0	-
NY1% VS GC SPREAD SWAP	2,075	4,420	-53.1%	2,740	-24.3%
NY 2.2% FUEL OIL (PLATTS	0	0	-	0	-
NY 3.0% FUEL OIL (PLATTS	300	600	-50.0%	275	9.1%
NY HARBOR 1% FUEL OIL BAL	0	0	-	0	-
NY HARBOR HEAT OIL SWP	8,761	7,254	20.8%	9,100	-3.7%
NY HARBOR LOW SULPUR GAS	915	770	18.8%	915	0.0%
NY HARBOR RESIDUAL FUEL 1	1,164	2,250	-48.3%	1,658	-29.8%
NY HARBOR RESIDUAL FUEL C	0	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	3,278	4,578	-28.4%	3,490	-6.1%
NYISO A	0	0	-	0	-
NYISO A OFF-PEAK	0	0	-	0	-
NYISO CAPACITY	1,300	3,043	-57.3%	1,408	-7.7%
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	15,666	53,614	-70.8%	21,186	-26.1%
NYISO ZONE A 5MW D AH PK	2,040	6,120	-66.7%	2,590	-21.2%
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	452,578	575,478	-21.4%	477,602	-5.2%
NYISO ZONE G 5MW D AH PK	17,712	21,540	-17.8%	18,416	-3.8%
NYISO ZONE J 5MW D AH O P	108,846	233,441	-53.4%	119,886	-9.2%
NYISO ZONE J 5MW D AH PK	9,076	16,731	-45.8%	9,846	-7.8%
NYMEX ALUMINUM FUTURES	825	594	38.9%	800	3.1%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest MAR 2019	Open Interest MAR 2018	% CHG	Open Interest FEB 2019	% CHG
<b>Energy Futures</b>					
NYMEX ULSD VS NYMEX HO	1,450	0	-	750	93.3%
NY ULSD (ARGUS) VS HEATING	271	257	5.4%	417	-35.0%
ONEOK OKLAHOMA NG BASIS	0	550	-100.0%	0	-
ONTARIO POWER SWAPS	0	0	-	0	-
PANHANDLE BASIS SWAP FUTU	4,123	11,384	-63.8%	4,340	-5.0%
PANHANDLE PIPE SWAP	0	1,989	-100.0%	0	-
PERMIAN BASIS SWAP	4,272	8,296	-48.5%	4,458	-4.2%
PETROCHEMICALS	8,975	10,997	-18.4%	9,148	-1.9%
PETRO CRCKS & SPRDS ASIA	818	1,278	-36.0%	800	2.3%
PETRO CRCKS & SPRDS NA	65,445	83,708	-21.8%	64,782	1.0%
PETRO CRK&SPRD EURO	13,869	20,227	-31.4%	13,981	-0.8%
PETROLEUM PRODUCTS	5,362	12,903	-58.4%	6,384	-16.0%
PETROLEUM PRODUCTS ASIA	2,036	2,618	-22.2%	2,196	-7.3%
PETRO OUTRIGHT EURO	9,869	12,213	-19.2%	9,723	1.5%
PETRO OUTRIGHT NA	7,404	7,819	-5.3%	6,554	13.0%
PJM AD HUB 5MW REAL TIME	205,601	327,235	-37.2%	219,796	-6.5%
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	12,320	-100.0%	0	-
PJM BGE DA OFF-PEAK	0	13,707	-100.0%	0	-
PJM BGE DA PEAK	0	751	-100.0%	0	-
PJM COMED 5MW D AH O PK	0	19,680	-100.0%	0	-
PJM COMED 5MW D AH PK	0	1,065	-100.0%	0	-
PJM DAILY	870	2,499	-65.2%	1,182	-26.4%
PJM DAYTON DA OFF-PEAK	62,525	100,504	-37.8%	64,365	-2.9%
PJM DAYTON DA PEAK	4,270	9,216	-53.7%	4,490	-4.9%
PJM JCPL DA OFF-PEAK	0	0	-	0	-
PJM JCPL DA PEAK	0	0	-	0	-
PJM MONTHLY	400	1,220	-67.2%	440	-9.1%
PJM NI HUB 5MW REAL TIME	74,839	580,919	-87.1%	83,286	-10.1%
PJM NILL DA OFF-PEAK	107,474	342,182	-68.6%	119,986	-10.4%
PJM NILL DA PEAK	6,630	20,506	-67.7%	7,488	-11.5%
PJM OFF-PEAK LMP SWAP FUT	0	412	-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	80,895	46,740	73.1%	84,415	-4.2%
PJM PSEG DA PEAK	4,025	1,300	209.6%	4,125	-2.4%
PJM WESTH DA OFF-PEAK	149,516	349,827	-57.3%	161,292	-7.3%
PJM WESTHDA PEAK	8,074	18,960	-57.4%	8,778	-8.0%
PJM WESTH RT OFF-PEAK	779,914	1,634,862	-52.3%	827,940	-5.8%
PJM WESTH RT PEAK	118,792	118,297	0.4%	117,727	0.9%
PLASTICS	3,635	992	266.4%	3,663	-0.8%
PREMIUM UNLND 10P FOB MED	534	996	-46.4%	708	-24.6%
PREMIUM UNLEAD 10PPM FOB	0	10	-100.0%	18	-100.0%
PREM UNL GAS 10PPM RDAM F	0	0	-	0	-
PREM UNL GAS 10PPM RDAM F	30	0	-	30	0.0%
PROPANE NON-LDH MB (OPIS) B	1,069	1,035	3.3%	2,539	-57.9%
PROPANE NON-LDH MT. BEL (OF	64,203	39,207	63.8%	57,251	12.1%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
RBOB CALENDAR SWAP	12,415	11,776	5.4%	12,426	-0.1%
RBOB CRACK SPREAD	3,915	5,218	-25.0%	4,358	-10.2%
RBOB CRACK SPREAD BALMO S	0	0	-	0	-
RBOB GAS	64	3,935	-98.4%	72	-11.1%
RBOB GASOLINE BALMO CLNDR	511	616	-17.0%	1,532	-66.6%
RBOB PHY	411,923	430,324	-4.3%	393,255	4.7%
RBOB SPREAD (PLATTS) SWAP	0	0	-	0	-
RBOB VS HEATING OIL SWAP	75	1,710	-95.6%	75	0.0%
SAN JUAN BASIS SWAP	7,172	17,066	-58.0%	7,358	-2.5%
SAN JUAN PIPE SWAP	0	0	-	72	-100.0%
SINGAPORE 180CST BALMO	17	25	-32.0%	10	70.0%
SINGAPORE 380CST BALMO	90	133	-32.3%	5	1,700.0%
SINGAPORE 380CST FUEL OIL	5,975	8,683	-31.2%	6,722	-11.1%
SINGAPORE FUEL 180CST CAL	529	1,117	-52.6%	404	30.9%
SINGAPORE FUEL OIL SPREAD	239	1,937	-87.7%	262	-8.8%
SINGAPORE GASOIL	10,850	12,136	-10.6%	11,338	-4.3%
SINGAPORE GASOIL CALENDAR	384	2,108	-81.8%	254	51.2%
SINGAPORE GASOIL SWAP	1,696	8,732	-80.6%	2,748	-38.3%
SINGAPORE GASOIL VS ICE	21,373	43,940	-51.4%	23,956	-10.8%
SINGAPORE JET KERO BALMO	0	0	-	0	-
SINGAPORE JET KERO GASOIL	6,505	10,230	-36.4%	7,105	-8.4%
SINGAPORE JET KEROSENE SW	1,730	2,155	-19.7%	2,130	-18.8%
SINGAPORE JET KERO VS. GAS	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEAD	375	225	66.7%	375	0.0%
SINGAPORE MOGAS 92 UNLEAD	20,257	19,092	6.1%	14,443	40.3%
SINGAPORE NAPHTHA SWAP	0	200	-100.0%	0	-
SING FUEL	0	0	-	0	-
SOCAL PIPE SWAP	0	0	-	0	-
SONAT BASIS SWAP FUTURE	0	0	-	0	-
SOUTH STAR TEX OKLHM KNS	0	90	-100.0%	0	-
Sumas Basis Swap	1,677	4,589	-63.5%	2,018	-16.9%
SUMAS NAT GAS PLATTS FIXED	0	0	-	0	-
TC2 ROTTERDAM TO USAC 37K	500	378	32.3%	320	56.3%
TC5 RAS TANURA TO YOKOHAM	1,415	80	1,668.8%	1,370	3.3%
TCO BASIS SWAP	4,032	7,805	-48.3%	4,342	-7.1%
TCO NG INDEX SWAP	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	12,906	1,812	612.3%	11,926	8.2%
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	550	-100.0%	0	-
TEXAS EASTERN ZONE M-3 BA	1,464	5,053	-71.0%	1,774	-17.5%
TEXAS GAS ZONE1 NG BASIS	0	4,324	-100.0%	0	-
Transco Zone 3 Basis	0	2,475	-100.0%	0	-
TRANSCO ZONE 3 NG INDEX S	0	0	-	0	-
TRANSCO ZONE4 BASIS SWAP	2,754	6,625	-58.4%	2,893	-4.8%
TRANSCO ZONE 4 NAT GAS IN	0	0	-	0	-
TRANSCO ZONE 6 BASIS SWAP	0	2,228	-100.0%	62	-100.0%
TRANSCO ZONE 6 INDEX	0	0	-	0	-
UCM FUT	20	50	-60.0%	20	0.0%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
UK NBP NAT GAS CAL MTH FUT	245	84	191.7%	165	48.5%
ULSD 10PPM CIF MED SWAP	0	0	-	0	-
ULSD 10PPM CIF MED VS ICE	0	29	-100.0%	0	-
ULSD 10PPM CIF NW BALMO S	0	0	-	0	-
ULSD UP-DOWN BALMO SWP	5,845	3,235	80.7%	4,960	17.8%
UP DOWN GC ULSD VS NMX HO	42,411	31,079	36.5%	43,301	-2.1%
WAHA BASIS	1,968	5,495	-64.2%	2,012	-2.2%
WAHA INDEX SWAP FUTURE	0	0	-	0	-
WESTERN RAIL DELIVERY PRB	0	370	-100.0%	0	-
WTI-BRENT BULLET SWAP	4,179	404	934.4%	4,704	-11.2%
WTI-BRENT CALENDAR SWAP	140,667	136,419	3.1%	139,526	0.8%
WTI CALENDAR	167,832	170,046	-1.3%	161,099	4.2%
WTS (ARGUS) VS WTI SWAP	52,646	66,728	-21.1%	52,464	0.3%
WTS (ARGUS) VS WTI TRD MT	5,486	3,326	64.9%	5,578	-1.6%
<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	6,732	3,241	107.7%	6,858	-1.8%
BRENT CRUDE OIL 12 M CSO	0	0	-	0	-
BRENT CRUDE OIL 1 M CSO	24,800	118,900	-79.1%	30,000	-17.3%
BRENT CRUDE OIL 6 M CSO	0	0	-	0	-
BRENT OIL LAST DAY	262,936	219,868	19.6%	272,308	-3.4%
COAL API2 INDEX	545	2,525	-78.4%	395	38.0%
COAL API4 INDEX	0	25	-100.0%	0	-
COAL SWAP	0	270	-100.0%	0	-
CRUDE OIL	150	0	-	0	-
CRUDE OIL 1MO	526,054	339,700	54.9%	581,575	-9.5%
CRUDE OIL APO	349,364	452,603	-22.8%	297,356	17.5%
CRUDE OIL CALNDR STRIP	200	0	-	0	-
CRUDE OIL OUTRIGHTS	590	5,510	-89.3%	885	-33.3%
CRUDE OIL PHY	2,579,310	2,978,386	-13.4%	2,549,284	1.2%
ELEC MISO PEAK	0	0	-	0	-
ETHANOL	0	100	-100.0%	0	-
ETHANOL SWAP	13,975	15,998	-12.6%	13,602	2.7%
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	51,178	45,709	12.0%	52,959	-3.4%
HENRY HUB FINANCIAL LAST	11,404	5,984	90.6%	8,559	33.2%
HO 1 MONTH CLNDR OPTIONS	0	0	-	0	0.0%
LLS CRUDE OIL	0	2,800	-100.0%	0	-
MCCLOSKEY ARA ARGS COAL	130	590	-78.0%	130	0.0%
MCCLOSKEY RCH BAY COAL	220	1,225	-82.0%	220	0.0%
NATURAL GAS	0	0	-	0	-
NATURAL GAS 1 M CSO FIN	4,300	0	-	3,350	28.4%
NATURAL GAS 2 M CSO FIN	500	0	-	0	-
NATURAL GAS 3 M CSO FIN	4,150	29,185	-85.8%	450	822.2%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Options</b>					
NATURAL GAS 5 M CSO FIN	0	1,250	-100.0%	0	-
NATURAL GAS 6 M CSO FIN	0	500	-100.0%	18,975	-100.0%
NATURAL GAS OPTION ON CALE	10,084	6,802	48.3%	7,684	31.2%
NATURAL GAS PHY	1,449,912	1,503,581	-3.6%	1,519,304	-4.6%
NATURAL GAS WINTER STRIP	0	0	-	0	-
N ROCKIES PIPE SWAP	546	1,624	-66.4%	546	0.0%
NY HARBOR HEAT OIL SWP	12,295	17,513	-29.8%	13,516	-9.0%
NYISO ZONE G 5MW PEAK OPTI	0	0	-	0	-
NYMEX EUROPEAN GASOIL APO	0	0	-	0	-
PANHANDLE PIPE SWAP	0	5,040	-100.0%	0	-
PETROCHEMICALS	3,528	3,234	9.1%	4,668	-24.4%
PETRO OUTRIGHT EURO	24	0	-	24	0.0%
PETRO OUTRIGHT NA	700	60	1,066.7%	746	-6.2%
PJM WES HUB PEAK CAL MTH	780	1,630	-52.1%	680	14.7%
PJM WES HUB PEAK LMP 50MW	1,567	8,979	-82.5%	1,171	33.8%
RBOB 1MO CAL SPD OPTIONS	0	0	-	0	0.0%
RBOB CALENDAR SWAP	235	525	-55.2%	180	30.6%
RBOB CRACK	0	0	-	2	-100.0%
RBOB PHY	16,980	9,529	78.2%	13,473	26.0%
ROTTERDAM 3.5%FUEL OIL CL	0	0	-	0	-
SAN JUAN PIPE SWAP	0	840	-100.0%	180	-100.0%
SHORT TERM	0	0	-	0	-
SHORT TERM NATURAL GAS	0	0	0.0%	25	-100.0%
SINGAPORE GASOIL CALENDAR	0	0	-	0	-
SINGAPORE JET FUEL CALEND	0	0	-	0	-
SOCAL PIPE SWAP	0	0	-	0	-
WTI-BRENT BULLET SWAP	145,520	334,804	-56.5%	150,415	-3.3%
WTI CRUDE OIL 1 M CSO FI	125,750	180,868	-30.5%	147,025	-14.5%

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## CME Group Exchange Open Interest Report - Monthly

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<b>FX Futures</b>					
AD/CD CROSS RATES	2	0	-	3	-33.3%
AD/JY CROSS RATES	908	971	-6.5%	666	36.3%
AD/NE CROSS RATES	58	79	-26.6%	16	262.5%
AUSTRALIAN DOLLAR	145,300	107,983	34.6%	133,018	9.2%
BDI	0	0	-	0	-
BP/JY CROSS RATES	375	479	-21.7%	395	-5.1%
BP/SF CROSS RATES	64	75	-14.7%	77	-16.9%
BRAZIL REAL	40,817	37,248	9.6%	21,441	90.4%
BRITISH POUND	148,906	175,349	-15.1%	201,822	-26.2%
CANADIAN DOLLAR	151,135	125,373	20.5%	150,087	0.7%
CD/JY CROSS RATES	2	100	-98.0%	2	0.0%
CHINESE RENMINBI (CNH)	1,326	1,170	13.3%	1,981	-33.1%
CZECK KORUNA (EC)	2	0	-	2	0.0%
CZECK KORUNA (US)	0	0	-	0	-
EC/AD CROSS RATES	3,003	1,239	142.4%	2,024	48.4%
EC/CD CROSS RATES	1,771	1,564	13.2%	2,167	-18.3%
EC/NOK CROSS RATES	430	89	383.1%	92	367.4%
EC/SEK CROSS RATES	517	793	-34.8%	700	-26.1%
EFX/BP CROSS RATES	27,632	36,636	-24.6%	31,149	-11.3%
EFX/JY CROSS RATES	24,325	17,881	36.0%	25,263	-3.7%
EFX/SF CROSS RATES	10,409	10,153	2.5%	8,631	20.6%
E-MICRO AUD/USD	3,362	1,646	104.3%	4,676	-28.1%
E-MICRO CAD/USD	1,598	1,388	15.1%	2,858	-44.1%
E-MICRO CHF/USD	270	151	78.8%	251	7.6%
E-MICRO EUR/USD	6,374	8,606	-25.9%	10,667	-40.2%
E-MICRO GBP/USD	1,822	4,106	-55.6%	2,175	-16.2%
E-MICRO INR/USD	267	163	63.8%	382	-30.1%
E-MICRO JPY/USD	895	1,454	-38.4%	1,410	-36.5%
E-MINI EURO FX	14,290	12,706	12.5%	16,946	-15.7%
E-MINI JAPANESE YEN	506	552	-8.3%	945	-46.5%
EURO FX	490,397	491,007	-0.1%	527,164	-7.0%
HUNGARIAN FORINT (EC)	0	0	-	0	-
HUNGARIAN FORINT (US)	0	0	-	0	-
INDIAN RUPEE	1,410	1,278	10.3%	1,002	40.7%
JAPANESE YEN	154,849	148,556	4.2%	198,363	-21.9%
KOREAN WON	150	59	154.2%	191	-21.5%
MEXICAN PESO	228,851	206,023	11.1%	236,088	-3.1%
NEW ZEALND DOLLAR	39,576	46,812	-15.5%	37,688	5.0%
NKR/USD CROSS RATE	2,086	1,400	49.0%	1,887	10.5%
POLISH ZLOTY (EC)	156	3	5,100.0%	38	310.5%
POLISH ZLOTY (US)	77	59	30.5%	119	-35.3%
RMB USD	1	3	-66.7%	1	0.0%
RUSSIAN RUBLE	58,778	28,651	105.2%	50,013	17.5%
S.AFRICAN RAND	13,122	11,428	14.8%	28,010	-53.2%
SF/JY CROSS RATES	0	0	-	5	-100.0%
SHEKEL	0	805	-100.0%	0	-
SKR/USD CROSS RATES	1,361	1,500	-9.3%	1,524	-10.7%
SWISS FRANC	73,131	46,924	55.8%	76,556	-4.5%
TURKISH LIRA	1,548	8,317	-81.4%	1,425	8.6%
USDZAR	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest MAR 2019	Open Interest MAR 2018	% CHG	Open Interest FEB 2019	% CHG
<b>FX Options</b>					
AUD/USD PQO 2pm Fix	60,394	111,255	-45.7%	67,991	-11.2%
AUSTRALIAN DLR (EU)	0	0	-	0	-
AUSTRALIAN DOLLAR	0	0	-	0	-
BRITISH POUND	0	0	-	0	-
BRITISH POUND (EU)	0	236	-100.0%	0	-
CAD/USD PQO 2pm Fix	68,353	82,047	-16.7%	66,442	2.9%
CANADIAN DOLLAR	0	0	-	0	-
CANADIAN DOLLAR (EU)	0	50	-100.0%	0	-
CHF/USD PQO 2pm Fix	3,309	1,367	142.1%	2,958	11.9%
EFX/BP CROSS RATES	44	0	-	25	76.0%
EFX/JY CROSS RATES	0	0	-	0	-
EURO FX	0	0	-	0	-
EURO FX (EU)	0	15	-100.0%	0	-
EUR/USD PQO 2pm Fix	246,214	310,996	-20.8%	261,689	-5.9%
GBP/USD PQO 2pm Fix	147,515	139,699	5.6%	164,137	-10.1%
JAPANESE YEN	0	0	-	0	-
JAPANESE YEN (EU)	0	0	-	0	-
JPY/USD PQO 2pm Fix	94,580	135,699	-30.3%	120,568	-21.6%
MEXICAN PESO	2,189	2,301	-4.9%	3,625	-39.6%
NEW ZEALND DOLLAR	66	0	-	948	-93.0%
SWISS FRANC	0	0	-	0	-
SWISS FRANC (EU)	0	0	-	0	-
<b>Foreign Exchange Futures</b>					
CHILEAN PESO	0	1,298	-100.0%	0	-
<b>Foreign Exchange Options</b>					
AUD/USD PQO 2pm Fix	349	8	4,262.5%	78	347.4%
<b>Ags Futures</b>					
FERTILIZER PRODUCS	1,700	875	94.3%	2,245	-24.3%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest MAR 2019	Open Interest MAR 2018	% CHG	Open Interest FEB 2019	% CHG
<b>Ag Products Futures</b>					
BUTTER CS	8,676	7,707	12.6%	7,492	15.8%
CASH-SETTLED CHEESE	23,086	27,293	-15.4%	20,574	12.2%
CATTLE	439,675	356,828	23.2%	413,788	6.3%
CDD SEASONAL STRIP	100	0	-	100	0.0%
CDD WEATHER	2,000	0	-	0	-
CHI WHEAT	494,672	509,919	-3.0%	462,480	7.0%
CLASS IV MILK	7,681	1,692	354.0%	6,661	15.3%
COCOA TAS	0	0	-	0	-
COFFEE	0	0	-	0	-
CORN	1,849,567	1,847,620	0.1%	1,650,737	12.0%
COTTON	0	0	-	0	-
DJ_UBS ROLL SELECT INDEX FU	1,909	741	157.6%	1,867	2.2%
DOW-UBS COMMOD INDEX	24,564	45,530	-46.0%	26,711	-8.0%
DRY WHEY	3,379	3,662	-7.7%	3,308	2.1%
FEEDER CATTLE	53,219	55,941	-4.9%	52,340	1.7%
FERTILIZER PRODUCTS	2,550	3,265	-21.9%	3,105	-17.9%
GOLDMAN SACHS	13,212	15,269	-13.5%	13,899	-4.9%
GSCI EXCESS RETURN FUT	53,396	58,318	-8.4%	58,472	-8.7%
HDD EURO SEASONAL STRIP	0	0	-	0	-
HDD SEASONAL STRIP	50	0	-	50	0.0%
HDD WEATHER	1,000	2,750	-63.6%	2,050	-51.2%
HDD WEATHER EUROPEAN	1,000	0	-	2,000	-50.0%
HOGS	283,222	234,184	20.9%	257,728	9.9%
HOUSING INDEX	54	32	68.7%	36	50.0%
Intercommodity Spread	0	0	-	0	-
KC WHEAT	335,941	283,699	18.4%	291,757	15.1%
LUMBER	2,684	6,520	-58.8%	2,929	-8.4%
MALAYSIAN PALM SWAP	18,660	18,398	1.4%	18,516	0.8%
MILK	24,058	24,306	-1.0%	22,669	6.1%
MINI CORN	7,383	11,599	-36.3%	6,421	15.0%
MINI SOYBEAN	12,398	32,149	-61.4%	11,205	10.6%
MINI WHEAT	2,152	2,364	-9.0%	2,243	-4.1%
MLK MID OPTIONS	0	0	-	0	0.0%
NFD MILK	9,235	8,609	7.3%	8,164	13.1%
OATS	5,021	6,577	-23.7%	4,456	12.7%
ROUGH RICE	8,034	8,153	-1.5%	8,333	-3.6%
SOYBEAN	738,963	891,896	-17.1%	651,200	13.5%
SOYBEAN MEAL	456,798	466,094	-2.0%	438,390	4.2%
SOYBEAN OIL	479,711	513,612	-6.6%	488,381	-1.8%
S&P GSCI ENHANCED ER SWAP	3,762	3,762	0.0%	3,762	0.0%
SUGAR 11	0	0	-	0	-
USD CRUDE PALM OIL	4,072	5,190	-21.5%	4,180	-2.6%
WHEAT	22,273	15,000	48.5%	22,830	-2.4%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Ag Products Options</b>					
AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-
BUTTER CS	13,050	10,344	26.2%	11,815	10.5%
CASH-SETTLED CHEESE	35,379	47,327	-25.2%	32,623	8.4%
CATTLE	213,885	207,455	3.1%	175,275	22.0%
CDD SEASONAL STRIP	2,000	0	-	0	-
CDD WEATHER	0	0	-	0	-
CHI WHEAT	406,175	419,677	-3.2%	353,256	15.0%
CLASS IV MILK	12,380	4,458	177.7%	10,489	18.0%
CORN	1,226,167	1,503,998	-18.5%	1,010,569	21.3%
CORN NEARBY+2 CAL SPRD	10,135	6,298	60.9%	10,290	-1.5%
DEC-DEC CORN CAL SPRD	573	988	-42.0%	558	2.7%
DEC-JULY CORN CAL SPRD	3,250	0	-	1,900	71.1%
DEC-JULY WHEAT CAL SPRD	0	0	-	0	-
DRY WHEY	3,087	3,035	1.7%	2,393	29.0%
FEEDER CATTLE	25,971	46,882	-44.6%	29,683	-12.5%
HDD EURO SEASONAL STRIP	0	2,500	-100.0%	500	-100.0%
HDD SEASONAL STRIP	9,000	9,500	-5.3%	9,000	0.0%
HDD WEATHER	0	0	-	0	-
HDD WEATHER EUROPEAN	0	0	-	0	-
HOGS	361,315	180,315	100.4%	232,972	55.1%
HOUSING INDEX	0	2	-100.0%	0	-
Intercommodity Spread	170	4,003	-95.8%	317	-46.4%
JAN-MAY SOYBEAN CAL SPRD	0	0	-	0	-
JULY-DEC CORN CAL SPRD	5,145	5,004	2.8%	4,750	8.3%
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	1,500	475	215.8%	1,500	0.0%
JULY-NOV SOYBEAN CAL SPRD	6,200	14,712	-57.9%	5,823	6.5%
KC WHEAT	97,425	90,085	8.1%	76,763	26.9%
LUMBER	2,012	2,159	-6.8%	1,138	76.8%
LV CATL CSO	369	5	7,280.0%	379	-2.6%
MAR-JULY CORN CAL SPRD	0	0	-	0	-
MAR-JULY WHEAT CAL SPRD	0	0	-	0	-
MILK	74,437	75,103	-0.9%	68,101	9.3%
MLK MID OPTIONS	183	335	-45.4%	169	8.3%
NFD MILK	25,262	15,594	62.0%	22,220	13.7%
NOV-JULY SOYBEAN CAL SPRD	50	0	-	50	0.0%
NOV-MAR SOYBEAN CSO	0	0	-	0	-
NOV-NOV SOYBEAN CAL SPRD	114	9	1,166.7%	114	0.0%
OATS	1,031	773	33.4%	766	34.6%
ROUGH RICE	3,200	1,327	141.1%	2,704	18.3%
SEP-DEC SOYBEAN MEAL CSO	0	0	-	0	-
SOYBEAN	558,068	719,972	-22.5%	469,486	18.9%
SOYBEAN CRUSH	0	112	-100.0%	0	-
SOYBEAN MEAL	109,028	189,098	-42.3%	107,352	1.6%
SOYBEAN OIL	85,108	93,055	-8.5%	72,269	17.8%
SOYBN NEARBY+2 CAL SPRD	0	0	-	0	-
SOYMEAL NEARBY+2 CAL SPRD	450	0	-	450	0.0%
WHEAT	9,694	0	-	4,660	108.0%
WHEAT-CORN ICSO	1,250	90	1,288.9%	0	-
WHEAT NEARBY+2 CAL SPRD	632	5,967	-89.4%	622	1.6%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest MAR 2019	Open Interest MAR 2018	% CHG	Open Interest FEB 2019	% CHG
<b>TOTAL FUTURES GROUP</b>					
Interest Rate Futures	29,085,827	30,551,351	-4.8%	28,909,804	0.6%
Equity Index Futures	3,837,513	4,412,990	-13.0%	4,293,171	-10.6%
Metals Futures	1,106,106	1,252,256	-11.7%	1,175,691	-5.9%
Energy Futures	10,595,875	14,949,316	-29.1%	10,986,836	-3.6%
FX Futures	1,651,859	1,540,779	7.2%	1,779,920	-7.2%
Foreign Exchange Futures	0	1,298	-100.0%	0	-
Ags Futures	1,700	875	94.3%	2,245	-24.3%
Ag Products Futures	5,394,157	5,468,679	-1.4%	4,968,834	8.6%
<b>TOTAL FUTURES</b>	<b>51,673,037</b>	<b>58,177,544</b>	<b>-11.2%</b>	<b>52,116,501</b>	<b>-0.9%</b>
<b>TOTAL OPTIONS GROUP</b>					
Interest Rate Options	59,948,907	51,599,072	16.2%	59,345,520	1.0%
Equity Index Options	3,667,314	4,177,241	-12.2%	4,091,716	-10.4%
Metals Options	1,569,026	1,202,009	30.5%	1,460,876	7.4%
Energy Options	5,604,459	6,302,398	-11.1%	5,696,545	-1.6%
FX Options	622,664	783,665	-20.5%	688,383	-9.5%
Foreign Exchange Options	349	8	4,262.5%	78	347.4%
Ag Products Options	3,304,895	3,660,657	-9.7%	2,722,156	21.4%
<b>TOTAL OPTIONS</b>	<b>74,717,614</b>	<b>67,725,050</b>	<b>10.3%</b>	<b>74,005,274</b>	<b>1.0%</b>
<b>TOTAL COMBINED</b>					
Interest Rate	89,034,734	82,150,423	8.4%	88,255,324	0.9%
Equity Index	7,504,827	8,590,231	-12.6%	8,384,887	-10.5%
Metals	2,675,132	2,454,265	9.0%	2,636,567	1.5%
Energy	16,200,334	21,251,714	-23.8%	16,683,381	-2.9%
FX	2,274,523	2,324,444	-2.1%	2,468,303	-7.9%
Foreign Exchange	349	1,306	-73.3%	78	347.4%
Ags	1,700	875	94.3%	2,245	-24.3%
Ag Products	8,699,052	9,129,336	-4.7%	7,690,990	13.1%
<b>GRAND TOTAL</b>	<b>126,390,651</b>	<b>125,902,594</b>	<b>0.4%</b>	<b>126,121,775</b>	<b>0.2%</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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