

## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2020	Open Interest APR 2019	% CHG	Open Interest MAR 2020	% CHG
<b>Interest Rate Futures</b>					
10-YR NOTE	3,317,284	4,007,703	-17.2%	3,258,687	1.8%
10-YR SWAP RATE	137,239	91,536	49.9%	137,610	-0.3%
15-YR SWAP RATE	10,850	10,850	0.0%	10,850	0.0%
1-MONTH EUROSHELL	149	40	272.5%	87	71.3%
20-YR SWAP RATE	90	90	0.0%	90	0.0%
2-YR NOTE	2,428,844	4,061,853	-40.2%	2,854,827	-14.9%
2-YR SWAP RATE	45,719	19,337	136.4%	45,545	0.4%
30-YR BOND	980,822	946,216	3.7%	1,001,257	-2.0%
30-YR SWAP RATE	3,704	2,476	49.6%	3,728	-0.6%
3-YR SWAP RATE	13,740	11,442	20.1%	14,225	-3.4%
4-YR SWAP RATE	6,922	9,718	-28.8%	6,945	-0.3%
5-YR NOTE	3,579,021	4,785,599	-25.2%	3,846,802	-7.0%
5-YR SWAP RATE	83,045	64,631	28.5%	66,907	24.1%
7-YR SWAP RATE	19,332	9,998	93.4%	19,175	0.8%
EUROSHELLS	10,723,715	13,017,858	-17.6%	10,786,035	-0.6%
FED FUND	1,762,270	2,119,605	-16.9%	1,692,857	4.1%
SOFR	534,780	125,581	325.8%	536,780	-0.4%
SONIA	19,802	15,125	30.9%	20,543	-3.6%
Ultra 10-Year Note	866,642	765,344	13.2%	755,530	14.7%
ULTRA T-BOND	1,049,554	1,198,286	-12.4%	1,051,390	-0.2%
<b>Interest Rate Options</b>					
10-YR NOTE	3,151,024	3,307,889	-4.7%	3,649,459	-13.7%
2-YR NOTE	512,968	433,088	18.4%	434,071	18.2%
30-YR BOND	663,232	1,069,574	-38.0%	850,801	-22.0%
5-YR NOTE	2,159,299	2,089,787	3.3%	3,299,562	-34.6%
EUROSHELLS	40,352,964	38,944,546	3.6%	40,839,478	-1.2%
EURO MIDCURVE	9,767,002	16,533,454	-40.9%	9,479,410	3.0%
FED FUND	10,631	1,752	506.8%	10,236	3.9%
SOFR	458	0	-	236	94.1%
Ultra 10-Year Note	11,781	8,284	42.2%	11,781	0.0%
ULTRA T-BOND	7,814	23,098	-66.2%	7,852	-0.5%

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<b>Equity Index Futures</b>					
BITCOIN FUTURES	6,681	4,211	58.7%	3,947	69.3%
DJ US REAL ESTATE	42,432	26,562	59.7%	46,287	-8.3%
E-mini (\$5) Dow	65,504	82,126	-20.2%	56,387	16.2%
E-MINI COM SERVICES SELECT	5,153	3,823	34.8%	4,953	4.0%
E-mini FTSE 100 (USD)	0	0	-	0	-
E-mini FTSE China 50	0	3	-100.0%	0	-
E-MINI MIDCAP	70,886	65,690	7.9%	80,977	-12.5%
E-MINI NASDAQ 100	183,166	222,838	-17.8%	186,519	-1.8%
E-MINI RUSSELL 1000	7,789	9,116	-14.6%	8,297	-6.1%
E-MINI RUSSELL 1000 GROWTH	3,994	2,487	60.6%	3,865	3.3%
E-MINI RUSSELL 1000 VALUE	4,377	6,636	-34.0%	3,906	12.1%
E-MINI RUSSELL 2000	524,134	427,587	22.6%	537,461	-2.5%
E-MINI S&P500	3,242,294	2,644,496	22.6%	3,442,259	-5.8%
E-MINI S&P REAL ESTATE SELE	3,894	2,441	59.5%	3,961	-1.7%
FT-SE 100	0	0	-	0	-
FTSE Emerging	61	30	103.3%	0	-
IBOVESPA INDEX	157	150	4.7%	121	29.8%
MICRO E-MINI NASDAQ 100	37,616	0	-	52,418	-28.2%
MICRO E-MINI RUSSELL 2000	9,615	0	-	7,162	34.3%
MICRO E-MINI S&P500	116,258	0	-	81,361	42.9%
MICRO MINI \$5 DOW	24,441	0	-	18,801	30.0%
NASDAQ BIOTECH	3	93	-96.8%	0	-
Nearby BTIC+	0	0	-	0	-
NIFTY 50	0	0	-	0	-
NIKKEI 225 (\$) STOCK	12,880	25,512	-49.5%	11,428	12.7%
NIKKEI 225 (YEN) STOCK	35,153	63,851	-44.9%	31,807	10.5%
S&P 500	312,009	253,422	23.1%	260,667	19.7%
S&P 500 ANNUAL DIVIDEND IND	145,617	101,653	43.2%	145,118	0.3%
S&P 500/GI	0	10	-100.0%	0	-
S&P 500 QUARLY DIVIDEND IND	2,037	600	239.5%	1,374	48.3%
S&P 600 SMALLCAP EMINI	567	0	-	0	-
S&P CONSUMER DSCRTNRY SE	2,109	4,175	-49.5%	2,346	-10.1%
S&P CONSUMER STAPLES SECT	12,255	13,181	-7.0%	7,545	62.4%
S&P ENERGY SECTOR	10,544	14,197	-25.7%	9,677	9.0%
S&P FINANCIAL SECTOR	10,435	30,897	-66.2%	10,016	4.2%
S&P HEALTH CARE SECTOR	12,233	9,264	32.0%	12,206	0.2%
S&P INDUSTRIAL SECTOR	5,716	7,331	-22.0%	4,387	30.3%
S&P MATERIALS SECTOR	3,696	7,198	-48.7%	3,060	20.8%
S&P TECHNOLOGY SECTOR	8,864	7,570	17.1%	9,383	-5.5%
S&P UTILITIES SECTOR	6,764	16,803	-59.7%	7,419	-8.8%
S&P VALUE INDEX FUTURES	0	12	-100.0%	0	-
YEN DENOMINATED TOPIX	897	771	16.3%	879	2.0%

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<b>Equity Index Options</b>					
BITCOIN FUTURES	202	0	-	124	62.9%
E-mini (\$5) Dow	2,153	3,281	-34.4%	1,973	9.1%
E-MINI NASDAQ 100	99,505	64,002	55.5%	123,131	-19.2%
E-MINI RUSSELL 2000	9,348	17,683	-47.1%	6,526	43.2%
E-MINI S&P500	2,135,775	2,357,074	-9.4%	2,024,149	5.5%
EOM E-MINI RUSSELL 2000 END	1,659	2,732	-39.3%	2,052	-19.2%
EOM EMINI S&P	475,281	532,736	-10.8%	636,874	-25.4%
EOM S&P 500	30,299	57,286	-47.1%	16,353	85.3%
EOW1 E-MINI RUSSELL 2000 WE	686	1,129	-39.2%	691	-0.7%
EOW1 EMINI S&P 500	230,008	208,880	10.1%	212,261	8.4%
EOW1 S&P 500	17,869	31,730	-43.7%	8,987	98.8%
EOW2 E-MINI RUSSELL 2000 WE	561	460	22.0%	42	1,235.7%
EOW2 EMINI S&P 500	116,894	90,241	29.5%	99,973	16.9%
EOW2 S&P 500	3,050	11,763	-74.1%	5,824	-47.6%
EOW3 E-MINI RUSSELL 2000 WE	8,577	6,154	39.4%	17,650	-51.4%
EOW3 EMINI S&P 500	765,225	609,727	25.5%	1,390,557	-45.0%
EOW3 S&P 500	48,718	58,814	-17.2%	52,696	-7.5%
EOW4 E-MINI RUSSELL 2000 WE	50	38	31.6%	6	733.3%
EOW4 EMINI S&P 500	50,862	40,534	25.5%	55,055	-7.6%
S&P 500	74,744	80,110	-6.7%	68,992	8.3%
	92	0	-	35	162.9%
<b>Metals Futures</b>					
ALUMINUM	68,630	57,819	18.7%	63,165	8.7%
COMEX COPPER	162,803	250,220	-34.9%	182,253	-10.7%
COMEX E-Mini GOLD	2,542	2,761	-7.9%	1,767	43.9%
COMEX E-Mini SILVER	339	118	187.3%	560	-39.5%
COMEX GOLD	490,551	431,977	13.6%	495,652	-1.0%
COMEX MINY COPPER	70	138	-49.3%	109	-35.8%
COMEX SILVER	134,672	197,060	-31.7%	139,256	-3.3%
COPPER	11,871	12,996	-8.7%	10,766	10.3%
FERROUS PRODUCTS	5,469	4,225	29.4%	2,894	89.0%
GOLD	343	0	-	215	59.5%
Gold Kilo	0	0	-	0	-
HOT ROLLED COIL STEEL FUTU	525	0	-	50	950.0%
IRON ORE 62 CHINA PLATTS FU	0	0	-	0	-
IRON ORE 62 CHINA TSI FUTURE	4,425	8,786	-49.6%	4,694	-5.7%
LNDN ZINC	0	9	-100.0%	0	-
MICRO GOLD	22,459	12,528	79.3%	25,287	-11.2%
NYMEX HOT ROLLED STEEL	25,063	17,090	46.7%	23,024	8.9%
NYMEX PLATINUM	51,163	75,825	-32.5%	54,148	-5.5%
PALLADIUM	8,105	22,722	-64.3%	7,655	5.9%
SILVER	2,817	1,674	68.3%	3,187	-11.6%
URANIUM	345	3,708	-90.7%	805	-57.1%

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<b>Metals Options</b>					
ALUMINUM	150	0	-	150	0.0%
COMEX COPPER	29,000	37,481	-22.6%	49,305	-41.2%
COMEX GOLD	1,517,795	1,304,335	16.4%	1,576,120	-3.7%
COMEX SILVER	133,572	225,257	-40.7%	159,573	-16.3%
COPPER	97	85	14.1%	0	-
GOLD	16,688	17,309	-3.6%	19,381	-13.9%
HOT ROLLED COIL STEEL CALL	175	700	-75.0%	225	-22.2%
HOT ROLLED COIL STEEL PUT O	100	0	-	150	-33.3%
IRON ORE 62 CHINA TSI CALL O	1,290	1,230	4.9%	1,340	-3.7%
IRON ORE 62 CHINA TSI PUT OP	5,197	645	705.7%	4,990	4.1%
NYMEX PLATINUM	7,440	6,427	15.8%	9,995	-25.6%
PALLADIUM	2,433	2,707	-10.1%	2,657	-8.4%
SILVER	1,312	1,633	-19.7%	687	91.0%
<b>Energy Futures</b>					
3.5% FUEL OIL CID MED SWA	0	46	-100.0%	10	-100.0%
3.5% FUEL OIL CIF BALMO S	0	0	-	0	-
AEP-DAYTON HUB DAILY	84	34	147.1%	84	0.0%
AEP-DAYTON HUB MTHLY	0	0	-	0	-
AEP-DAYTON HUB OFF-PEAK M	0	0	-	0	-
ALGONQUIN CITYGATES BASIS	0	0	-	0	-
ANR OKLAHOMA	0	0	-	0	-
ARGUS LLS VS. WTI (ARG) T	10,687	30,836	-65.3%	10,399	2.8%
ARGUS PROPAN FAR EST INDE	4,502	5,585	-19.4%	4,649	-3.2%
ARGUS PROPAN(SAUDI ARAMC	1,986	2,236	-11.2%	1,858	6.9%
AUSTRIALIAN COKE COAL	0	36	-100.0%	0	-
BRENT BALMO SWAP	0	365	-100.0%	440	-100.0%
BRENT CALENDAR SWAP	20,029	20,213	-0.9%	20,878	-4.1%
BRENT CFD SWAP	0	0	-	0	-
BRENT FINANCIAL FUTURES	45	3,718	-98.8%	50	-10.0%
BRENT OIL LAST DAY	246,233	229,864	7.1%	276,946	-11.1%
CANADIAN LIGHT SWEET OIL	0	0	-	0	-
CENTERPOINT BASIS SWAP	0	796	-100.0%	0	-
CHICAGO ETHANOL SWAP	32,414	50,072	-35.3%	34,003	-4.7%
CHICAGO ULSD PL VS HO SPR	3,377	2,902	16.4%	3,017	11.9%
CHICAGO UNL GAS PL VS RBO	310	690	-55.1%	310	0.0%
CIG BASIS	0	4,482	-100.0%	0	-
CINERGY HUB OFF-PEAK MONT	0	0	-	0	-
CINERGY HUB PEAK MONTH	0	0	-	0	-
CIN HUB 5MW D AH O PK	0	0	-	0	-
CIN HUB 5MW D AH PK	67	1,055	-93.6%	147	-54.4%
CIN HUB 5MW REAL TIME O P	22,008	111,704	-80.3%	24,584	-10.5%
CIN HUB 5MW REAL TIME PK	1,197	13,069	-90.8%	1,351	-11.4%
COAL SWAP	0	0	-	0	-
COLUMB GULF MAINLINE NG B	179	1,009	-82.3%	202	-11.4%
CONWAY NATURAL GASOLINE (	1,234	1,427	-13.5%	1,512	-18.4%
CONWAY NORMAL BUTANE (OPI	597	804	-25.7%	775	-23.0%
CONWAY PROPANE 5 DECIMALS	23,799	19,994	19.0%	20,870	14.0%
CRUDE OIL	9,842	21,311	-53.8%	10,794	-8.8%

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<b>Energy Futures</b>					
CRUDE OIL OUTRIGHTS	207,286	160,994	28.8%	213,906	-3.1%
CRUDE OIL PHY	2,303,849	2,159,489	6.7%	2,341,134	-1.6%
CRUDE OIL SPRDS	127,018	119,790	6.0%	133,371	-4.8%
CRUDE OIL TRADE AT MARKER	0	0	0.0%	0	0.0%
DAILY PJM	72,416	110,947	-34.7%	63,496	14.0%
DATED BRENT (PLATTS) DAILY S	0	0	-	0	-
DATED TO FRONTLINE BRENT	644	2,180	-70.5%	500	28.8%
DIESEL 10P BRG FOB RDM VS	0	0	-	0	-
DOMINION TRAN INC - APP I	0	0	-	0	-
DOMINION TRANSMISSION INC	1,596	8,042	-80.2%	1,776	-10.1%
DUBAI CRUDE OIL BALMO	0	0	-	300	-100.0%
DUBAI CRUDE OIL CALENDAR	10,050	4,307	133.3%	6,354	58.2%
DUTCH TTF NATURAL GAS CAL	18,335	2,076	783.2%	14,664	25.0%
EASTERN RAIL DELIVERY CSX	0	0	-	0	-
EAST/WEST FUEL OIL SPREAD	9	39	-76.9%	10	-10.0%
EIA FLAT TAX ONHWAY DIESE	2,789	1,468	90.0%	2,603	7.1%
ELEC ERCOT DLY OFF PK	0	0	-	0	-
ELEC ERCOT DLY PEAK	0	0	-	0	-
ELEC ERCOT OFF PEAK	0	0	-	0	-
ELEC FINSETTLED	386	898	-57.0%	430	-10.2%
ELEC MISO PEAK	0	0	-	0	-
ELEC NYISO OFF-PEAK	0	0	-	0	-
ELECTRICITY OFF PEAK	7,026	71,782	-90.2%	7,808	-10.0%
ERCOT HOUSTON Z MCPE 5MW	0	0	-	0	-
ERCOT NORTH ZMCPE 5MW OF	0	0	-	0	-
ERCOT NORTH ZMCPE 5MW OF	0	0	-	0	-
ERCOT NORTH ZMCPE 5MW PE	0	0	-	0	-
ETHANOL	512	1,515	-66.2%	536	-4.5%
ETHANOL SWAP	476	470	1.3%	623	-23.6%
ETHANOL T2 FOB ROTT INCL DU	6,173	4,646	32.9%	6,844	-9.8%
EURO 1% FUEL OIL NEW BALM	0	0	-	0	-
EURO 3.5% FUEL OIL RDAM B	0	38	-100.0%	0	-
EURO 3.5% FUEL OIL SPREAD	0	85	-100.0%	17	-100.0%
EURO-DENOMINATED PETRO P	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	75	0	-	75	0.0%
EUROPE 1% FUEL OIL NWE CA	0	242	-100.0%	1	-100.0%
EUROPE 1% FUEL OIL RDAM C	0	3	-100.0%	0	-
EUROPE 3.5% FUEL OIL MED	0	125	-100.0%	10	-100.0%
EUROPE 3.5% FUEL OIL RDAM	2,047	6,761	-69.7%	2,369	-13.6%
EUROPEAN GASOIL (ICE)	160	100	60.0%	198	-19.2%
EUROPEAN NAPHTHA BALMO	7	128	-94.5%	0	-
EUROPEAN NAPHTHA CRACK SP	6,574	12,534	-47.6%	6,693	-1.8%
EUROPE DATED BRENT SWAP	0	690	-100.0%	0	-
EUROPE JET KERO NWE CALSW	0	26	-100.0%	0	-
EUROPE NAPHTHA CALSWAP	1,041	2,715	-61.7%	1,043	-0.2%
EURO PROPANE CIF ARA SWA	2,481	2,088	18.8%	2,696	-8.0%
FREIGHT MARKETS	2,652	3,954	-32.9%	2,473	7.2%
FUEL OIL CRACK VS ICE	4,974	7,917	-37.2%	5,421	-8.2%
FUEL OIL NWE CRACK VS ICE	117	171	-31.6%	130	-10.0%
FUEL OIL (PLATS) CAR CM	0	0	-	0	-
FUEL OIL (PLATS) CAR CN	0	0	-	0	-

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FUELOIL SWAP:CARGOES VS.B	305	995	-69.3%	346	-11.8%
GAS EURO-BOB OXY NWE BARG	2,960	5,960	-50.3%	3,373	-12.2%
GAS EURO-BOB OXY NWE BARG	22,381	27,681	-19.1%	17,162	30.4%
GASOIL 0.1CIF MED VS ICE	0	0	-	0	-
GASOIL 0.1 CIF NWE VS ISE	0	5	-100.0%	0	-
GASOIL 0.1 RDAM BRGS VS I	0	15	-100.0%	0	-
GASOIL 0.1 ROTTERDAM BARG	45	67	-32.8%	30	50.0%
GASOIL 10PPM VS ICE SWAP	0	24	-100.0%	0	-
GASOIL CALENDAR SWAP	112	48	133.3%	106	5.7%
GASOIL CRACK SPREAD CALEN	7,584	12,390	-38.8%	8,206	-7.6%
GASOIL MINI CALENDAR SWAP	1,086	752	44.4%	1,377	-21.1%
GERMAN POWER BASELOAD CA	2,065	724	185.2%	2,037	1.4%
GROUP THREE ULSD (PLATTS)	0	45	-100.0%	0	-
GROUP THREE UNLEAD GAS (P	0	0	-	50	-100.0%
GRP THREE ULSD(PLT)VS HEA	10,098	6,998	44.3%	8,882	13.7%
GRP THREE UNL GS (PLT) VS	5,279	4,555	15.9%	4,493	17.5%
GULF COAST 3% FUEL OIL BA	272	665	-59.1%	180	51.1%
GULF COAST JET FUEL CLNDR	942	683	37.9%	525	79.4%
GULF COAST JET VS NYM 2 H	24,717	35,208	-29.8%	24,822	-0.4%
GULF COAST NO.6 FUEL OIL	17,791	27,915	-36.3%	20,576	-13.5%
GULF COAST ULSD CALENDAR	3,705	1,603	131.1%	1,971	88.0%
GULF COAST ULSD CRACK SPR	900	510	76.5%	960	-6.2%
HEATING OIL BALMO CLNDR S	537	35	1,434.3%	300	79.0%
HEATING OIL CRCK SPRD BAL	0	0	-	0	-
HEATING OIL PHY	359,954	399,884	-10.0%	353,331	1.9%
HENRY HUB BASIS SWAP	3,680	12,027	-69.4%	4,280	-14.0%
HENRY HUB FINANCIAL LAST	0	0	-	0	-
HENRY HUB INDEX SWAP FUTU	5,992	13,437	-55.4%	5,992	0.0%
HENRY HUB SWAP	720,724	978,248	-26.3%	724,455	-0.5%
HOUSTON SHIP CHANNEL BASI	4,766	10,020	-52.4%	5,036	-5.4%
HTG OIL	118	163	-27.6%	80	47.5%
ICE BRENT DUBAI SWAP	28,483	34,642	-17.8%	32,904	-13.4%
IN DELIVERY MONTH EUA	0	0	-	0	-
INDIANA MISO	807	3,281	-75.4%	821	-1.7%
INDONESIAN COAL ICI4	518	820	-36.8%	549	-5.6%
ISO NEW ENGLAND OFF-PEAK	0	0	-	0	-
ISO NEW ENGLAND PK LMP	0	0	-	0	-
JAPAN C&F NAPHTHA CRACK S	150	121	24.0%	150	0.0%
JAPAN C&F NAPHTHA SWAP	312	1,700	-81.6%	373	-16.4%
JAPAN NAPHTHA BALMO SWAP	0	5	-100.0%	0	-
JET AV FUEL (P) CAR FM ICE GA	0	0	-	0	-
JET CIF NWE VS ICE	45	327	-86.2%	50	-10.0%
JET FUEL CRG CIF NEW VS I	0	0	-	0	-
JET FUEL UP-DOWN BALMO CL	2,053	4,680	-56.1%	2,027	1.3%
JKM LNG Futures	4,125	5,056	-18.4%	4,425	-6.8%
LA CARB DIESEL (OPIS) SWA	1,433	128	1,019.5%	1,119	28.1%
LA CARBOB GASOLINE(OPIS)S	150	300	-50.0%	250	-40.0%
LA JET (OPIS) SWAP	1,638	1,791	-8.5%	2,239	-26.8%
LLS (ARGUS) CALENDAR SWAP	212	439	-51.7%	230	-7.8%
LLS (ARGUS) VS WTI SWAP	10,303	23,249	-55.7%	7,111	44.9%
LOS ANGELES CARB GASOLINE	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2020	Open Interest APR 2019	% CHG	Open Interest MAR 2020	% CHG
<b>Energy Futures</b>					
LTD NAT GAS	272,077	373,779	-27.2%	271,880	0.1%
MARS (ARGUS) VS WTI SWAP	450	5,460	-91.8%	850	-47.1%
MARS (ARGUS) VS WTI TRD M	15,386	27,792	-44.6%	20,575	-25.2%
MARS BLEND CRUDE OIL	0	0	-	0	-
MCCLOSKEY ARA ARGS COAL	20,325	20,361	-0.2%	22,273	-8.7%
MCCLOSKEY RCH BAY COAL	1,864	3,218	-42.1%	2,084	-10.6%
MGF FUT	0	0	-	0	-
MGN1 SWAP FUT	335	300	11.7%	330	1.5%
MICHIGAN BASIS	736	1,648	-55.3%	856	-14.0%
MICHIGAN MISO	0	0	-	0	-
MINI GAS EUROBOB OXY NWE A	9	67	-86.6%	45	-80.0%
MINI RBOB V. EBOBARG NWE BF	170	1,144	-85.1%	350	-51.4%
MINI RBOB V. EBOB(ARGUS) NW	1,040	3,729	-72.1%	1,246	-16.5%
MINY HTG OIL	0	1	-100.0%	0	0.0%
MINY NATURAL GAS	4,905	3,651	34.3%	3,010	63.0%
MINY RBOB GAS	0	0	0.0%	0	-
MINY WTI CRUDE OIL	9,749	3,597	171.0%	9,883	-1.4%
MJC FUT	45	260	-82.7%	50	-10.0%
MNC FUT	2,267	5,936	-61.8%	2,371	-4.4%
MONT BELVIEU ETHANE 5 DECI	39,114	38,859	0.7%	41,740	-6.3%
MONT BELVIEU ETHANE OPIS B	193	149	29.5%	90	114.4%
MONT BELVIEU LDH PROPANE 5	138,660	144,006	-3.7%	140,195	-1.1%
MONT BELVIEU LDH PROPANE C	2,742	879	211.9%	2,320	18.2%
MONT BELVIEU NATURAL GASO	41,503	17,011	144.0%	40,402	2.7%
MONT BELVIEU NATURAL GASO	1,014	300	238.0%	982	3.3%
MONT BELVIEU NORMAL BUTAN	62,339	43,180	44.4%	62,246	0.1%
MONT BELVIEU NORMAL BUTAN	2,283	1,197	90.7%	1,233	85.2%
NAT GAS BASIS SWAP	0	1,715	-100.0%	0	-
NATURAL GAS	111,656	80,535	38.6%	106,800	4.5%
NATURAL GAS PEN SWP	151,946	128,032	18.7%	138,202	9.9%
NATURAL GAS PHY	1,206,480	1,244,433	-3.0%	1,224,791	-1.5%
NEPOOL CNCTCT 5MW D AH O	0	0	-	0	-
NEPOOL CONECTIC 5MW D AH	0	0	-	0	-
NEPOOL INTR HUB 5MW D AH	274,503	397,032	-30.9%	290,043	-5.4%
NEPOOL NE MASS 5MW D AH O	0	10,587	-100.0%	0	-
NEPOOL NE MASS 5MW D AH P	0	576	-100.0%	0	-
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	1,195	1,452	-17.7%	1,375	-13.1%
NEW YORK ETHANOL SWAP	1,200	1,005	19.4%	1,508	-20.4%
NEW YORK HUB ZONE G PEAK	1,381	1,056	30.8%	1,353	2.1%
NEW YORK HUB ZONE J PEAK	248	1,155	-78.5%	264	-6.1%
NGPL MID-CONTINENT	520	10,840	-95.2%	520	0.0%
NGPL TEX/OK	120	17,877	-99.3%	120	0.0%
N ILLINOIS HUB DAILY	10	68	-85.3%	10	0.0%
N ILLINOIS HUB MTHLY	0	0	-	0	-
NO 2 UP-DOWN SPREAD CALEN	0	375	-100.0%	0	-
NORTHERN NATURAL GAS DEMA	0	368	-100.0%	0	-
NORTHERN NATURAL GAS VENTL	0	1,104	-100.0%	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2020	Open Interest APR 2019	% CHG	Open Interest MAR 2020	% CHG
<b>Energy Futures</b>					
NORTHWEST ROCKIES BASIS S	490	11,389	-95.7%	550	-10.9%
N ROCKIES PIPE SWAP	0	0	-	0	-
NY1% VS GC SPREAD SWAP	1,714	1,710	0.2%	1,401	22.3%
NY 3.0% FUEL OIL (PLATTS	0	300	-100.0%	0	-
NY HARBOR 1% FUEL OIL BAL	0	0	-	0	-
NY HARBOR HEAT OIL SWP	13,910	8,384	65.9%	14,287	-2.6%
NY HARBOR LOW SULPUR GAS	765	915	-16.4%	790	-3.2%
NY HARBOR RESIDUAL FUEL 1	2,394	1,015	135.9%	2,713	-11.8%
NY HARBOR RESIDUAL FUEL C	0	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	4,383	3,441	27.4%	3,701	18.4%
NYISO CAPACITY	188	1,192	-84.2%	218	-13.8%
NYISO J	0	0	-	0	-
NYISO J OFF-PEAK	0	0	-	0	-
NYISO ZONE A 5MW D AH O P	5,442	14,882	-63.4%	6,290	-13.5%
NYISO ZONE A 5MW D AH PK	0	1,776	-100.0%	0	-
NYISO ZONE G 5MW D AH O P	207,962	439,962	-52.7%	232,130	-10.4%
NYISO ZONE G 5MW D AH PK	14,391	17,008	-15.4%	15,211	-5.4%
NYISO ZONE J 5MW D AH O P	8,163	97,086	-91.6%	9,435	-13.5%
NYISO ZONE J 5MW D AH PK	1,208	8,306	-85.5%	1,368	-11.7%
NYMEX ALUMINUM FUTURES	0	539	-100.0%	0	-
NYMEX ULSD VS NYMEX HO	200	700	-71.4%	300	-33.3%
NY ULSD (ARGUS) VS HEATING	2,057	969	112.3%	1,459	41.0%
ONEOK OKLAHOMA NG BASIS	0	0	-	0	-
ONTARIO POWER SWAPS	0	0	-	0	-
PANHANDLE BASIS SWAP FUTU	1,008	3,763	-73.2%	1,129	-10.7%
PANHANDLE PIPE SWAP	0	0	-	0	-
PERMIAN BASIS SWAP	2,205	4,152	-46.9%	2,475	-10.9%
PETROCHEMICALS	12,002	9,727	23.4%	11,714	2.5%
PETRO CRCKS & SPRDS ASIA	330	910	-63.7%	400	-17.5%
PETRO CRCKS & SPRDS NA	69,439	75,242	-7.7%	67,153	3.4%
PETRO CRK&SPRD EURO	6,645	13,359	-50.3%	7,047	-5.7%
PETROLEUM PRODUCTS	9,217	4,711	95.6%	10,727	-14.1%
PETROLEUM PRODUCTS ASIA	847	1,914	-55.7%	935	-9.4%
PETRO OUTRIGHT EURO	14,412	10,154	41.9%	13,427	7.3%
PETRO OUTRIGHT NA	3,961	7,225	-45.2%	4,466	-11.3%
PJM AD HUB 5MW REAL TIME	103,632	192,715	-46.2%	110,076	-5.9%
PJM ATSI ELEC	0	0	-	0	-
PJM BGE DA OFF-PEAK	0	0	-	0	-
PJM BGE DA PEAK	0	0	-	0	-
PJM COMED 5MW D AH O PK	0	0	-	0	-
PJM COMED 5MW D AH PK	0	0	-	0	-
PJM DAILY	256	904	-71.7%	256	0.0%
PJM DAYTON DA OFF-PEAK	27,210	60,565	-55.1%	31,450	-13.5%
PJM DAYTON DA PEAK	1,510	4,050	-62.7%	1,710	-11.7%
PJM MONTHLY	0	360	-100.0%	0	-
PJM NI HUB 5MW REAL TIME	65,780	67,099	-2.0%	67,730	-2.9%
PJM NILL DA OFF-PEAK	0	94,146	-100.0%	0	-
PJM NILL DA PEAK	0	5,772	-100.0%	0	-
PJM OFF-PEAK LMP SWAP FUT	0	0	-	0	-
PJM PECO ZONE5MW PEAK CAL	0	2,960	-100.0%	0	-
PJM PSEG DA OFF-PEAK	0	76,825	-100.0%	0	-

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
PJM PSEG DA PEAK	0	3,920	-100.0%	0	-
PJM WESTH DA OFF-PEAK	5,442	136,972	-96.0%	14,770	-63.2%
PJM WESTHDA PEAK	302	7,370	-95.9%	742	-59.3%
PJM WESTH RT OFF-PEAK	388,017	736,490	-47.3%	402,001	-3.5%
PJM WESTH RT PEAK	54,998	109,932	-50.0%	57,814	-4.9%
PLASTICS	4,765	3,461	37.7%	4,634	2.8%
PREMIUM UNLD 10P FOB MED	63	426	-85.2%	63	0.0%
PREMIUM UNLEAD 10PPM FOB	0	0	-	0	-
PREM UNL GAS 10PPM RDAM F	0	0	-	0	-
PREM UNL GAS 10PPM RDAM F	0	15	-100.0%	0	-
PROPANE NON-LDH MB (OPIS) B	1,195	937	27.5%	1,329	-10.1%
PROPANE NON-LDH MT. BEL (OF	62,844	66,288	-5.2%	60,479	3.9%
RBOB CALENDAR SWAP	12,454	15,768	-21.0%	9,172	35.8%
RBOB CRACK SPREAD	3,930	4,977	-21.0%	3,655	7.5%
RBOB CRACK SPREAD BALMO S	0	0	-	0	-
RBOB GAS	109	116	-6.0%	56	94.6%
RBOB GASOLINE BALMO CLNDR	1,241	1,598	-22.3%	610	103.4%
RBOB PHY	366,526	421,435	-13.0%	362,987	1.0%
RBOB SPREAD (PLATTS) SWAP	0	0	-	0	-
RBOB VS HEATING OIL SWAP	1,165	75	1,453.3%	1,375	-15.3%
SAN JUAN BASIS SWAP	368	6,002	-93.9%	428	-14.0%
SAN JUAN PIPE SWAP	0	0	-	0	-
SINGAPORE 180CST BALMO	0	26	-100.0%	0	-
SINGAPORE 380CST BALMO	1	78	-98.7%	0	-
SINGAPORE 380CST FUEL OIL	996	5,490	-81.9%	1,091	-8.7%
SINGAPORE FUEL 180CST CAL	21	667	-96.9%	39	-46.2%
SINGAPORE FUEL OIL SPREAD	120	190	-36.8%	150	-20.0%
SINGAPORE GASOIL	1,463	10,359	-85.9%	1,558	-6.1%
SINGAPORE GASOIL CALENDAR	1,039	323	221.7%	1,633	-36.4%
SINGAPORE GASOIL SWAP	2,071	2,093	-1.1%	2,211	-6.3%
SINGAPORE GASOIL VS ICE	4,647	17,085	-72.8%	5,019	-7.4%
SINGAPORE JET KERO BALMO	0	0	-	92	-100.0%
SINGAPORE JET KERO GASOIL	0	5,655	-100.0%	0	-
SINGAPORE JET KEROSENE SW	1,310	1,555	-15.8%	2,533	-48.3%
SINGAPORE JET KERO VS. GAS	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEAD	0	450	-100.0%	0	-
SINGAPORE MOGAS 92 UNLEAD	9,108	20,277	-55.1%	11,868	-23.3%
SINGAPORE NAPHTHA SWAP	0	0	-	0	-
SING FUEL	0	0	-	0	-
SOUTH STAR TEX OKLHM KNS	0	0	-	0	-
Sumas Basis Swap	0	1,557	-100.0%	0	-
TC2 ROTTERDAM TO USAC 37K	180	415	-56.6%	195	-7.7%
TC5 RAS TANURA TO YOKOHAM	845	1,445	-41.5%	1,030	-18.0%
TCO BASIS SWAP	736	3,672	-80.0%	856	-14.0%
TD3 MEG TO JAPAN 250K MT	9,488	12,267	-22.7%	10,191	-6.9%
TENNESSEE ZONE 0 BASIS SW	0	0	-	0	-
Tetco STX Basis	0	0	-	0	-
TEXAS EASTERN ZONE M-3 BA	490	1,404	-65.1%	550	-10.9%
TEXAS GAS ZONE1 NG BASIS	0	0	-	0	-
Transco Zone 3 Basis	0	0	-	0	-
TRANSCO ZONE4 BASIS SWAP	1,016	2,616	-61.2%	1,146	-11.3%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
TRANSCO ZONE 6 BASIS SWAP	0	0	-	0	-
UCM FUT	0	0	-	0	-
UK NBP NAT GAS CAL MTH FUT	319	160	99.4%	310	2.9%
ULSD 10PPM CIF MED VS ICE	0	0	-	0	-
ULSD UP-DOWN BALMO SWP	4,420	3,300	33.9%	6,935	-36.3%
UP DOWN GC ULSD VS NMX HO	60,512	42,918	41.0%	51,788	16.8%
WAHA BASIS	423	1,848	-77.1%	489	-13.5%
WESTERN RAIL DELIVERY PRB	0	0	-	0	-
WTI-BRENT BULLET SWAP	402	3,654	-89.0%	419	-4.1%
WTI-BRENT CALENDAR SWAP	128,718	167,910	-23.3%	144,026	-10.6%
WTI CALENDAR	204,240	191,411	6.7%	185,124	10.3%
WTI MIDLAND CRUDE OIL	300	0	-	300	0.0%
WTS (ARGUS) VS WTI SWAP	83,480	52,148	60.1%	80,047	4.3%
WTS (ARGUS) VS WTI TRD MT	9,321	5,843	59.5%	6,755	38.0%
<b>Energy Options</b>					
BRENT 1 MONTH CAL	0	0	-	0	-
BRENT CALENDAR SWAP	5,152	6,627	-22.3%	5,520	-6.7%
BRENT CRUDE OIL 12 M CSO	0	0	-	0	-
BRENT CRUDE OIL 1 M CSO	21,200	27,300	-22.3%	21,300	-0.5%
BRENT CRUDE OIL 6 M CSO	0	0	-	0	-
BRENT OIL LAST DAY	108,965	202,368	-46.2%	162,823	-33.1%
COAL API2 INDEX	0	580	-100.0%	0	-
COAL API4 INDEX	0	0	-	0	-
COAL SWAP	0	0	-	0	-
CRUDE OIL	0	150	-100.0%	0	-
CRUDE OIL 1MO	556,097	596,856	-6.8%	604,213	-8.0%
CRUDE OIL APO	408,026	386,852	5.5%	410,876	-0.7%
CRUDE OIL CALNDR STRIP	0	200	-100.0%	0	-
CRUDE OIL OUTRIGHTS	0	295	-100.0%	0	-
CRUDE OIL PHY	3,006,681	2,810,220	7.0%	2,769,834	8.6%
ETHANOL	0	0	-	0	-
ETHANOL SWAP	7,905	14,864	-46.8%	7,755	1.9%
FREIGHT MARKETS	0	0	-	0	-
HEATING OIL PHY	32,220	53,176	-39.4%	29,288	10.0%
HENRY HUB FINANCIAL LAST	24,754	11,223	120.6%	20,863	18.7%
HO 1 MONTH CLNDR OPTIONS	0	1,000	-100.0%	0	-
LLS CRUDE OIL	0	0	-	0	-
MCCLOSKEY ARA ARGS COAL	1,815	0	-	1,350	34.4%
MCCLOSKEY RCH BAY COAL	50	50	0.0%	0	0.0%
NATURAL GAS 1 M CSO FIN	82,100	9,800	737.8%	53,300	54.0%
NATURAL GAS 2 M CSO FIN	3,500	0	-	3,500	0.0%
NATURAL GAS 3 M CSO FIN	77,910	22,800	241.7%	68,750	13.3%
NATURAL GAS 5 M CSO FIN	0	0	-	4,000	-100.0%
NATURAL GAS 6 M CSO FIN	0	9,500	-100.0%	0	-
NATURAL GAS OPT	2,000	0	-	2,500	-20.0%
NATURAL GAS OPTION ON CALE	19,884	10,284	93.3%	16,864	17.9%
NATURAL GAS PHY	2,486,720	1,528,095	62.7%	2,518,402	-1.3%
NATURAL GAS WINTER STRIP	600	0	-	600	0.0%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2020	Open Interest APR 2019	% CHG	Open Interest MAR 2020	% CHG
<b>Energy Options</b>					
N ROCKIES PIPE SWAP	0	1,332	-100.0%	0	-
NY HARBOR HEAT OIL SWP	13,346	10,659	25.2%	13,970	-4.5%
NYISO ZONE G 5MW PEAK OPTI	0	0	-	0	-
PANHANDLE PIPE SWAP	0	0	-	0	-
PETROCHEMICALS	376	3,059	-87.7%	441	-14.7%
PETRO OUTRIGHT EURO	24	24	0.0%	26	-7.7%
PETRO OUTRIGHT NA	1,295	654	98.0%	1,180	9.7%
PJM WES HUB PEAK CAL MTH	1,540	820	87.8%	1,540	0.0%
PJM WES HUB PEAK LMP 50MW	512	1,567	-67.3%	512	0.0%
RBOB 1MO CAL SPD OPTIONS	0	0	-	0	-
RBOB CALENDAR SWAP	110	213	-48.4%	140	-21.4%
RBOB CRACK	0	0	-	0	-
RBOB PHY	12,070	25,127	-52.0%	9,625	25.4%
ROTTERDAM 3.5%FUEL OIL CL	0	0	-	0	-
SAN JUAN PIPE SWAP	0	455	-100.0%	0	-
SHORT TERM	0	0	-	0	-
SHORT TERM NATURAL GAS	400	0	-	100	300.0%
SINGAPORE GASOIL CALENDAR	0	0	-	0	-
SINGAPORE JET FUEL CALEND	0	0	-	0	-
WTI-BRENT BULLET SWAP	191,980	116,000	65.5%	227,685	-15.7%
WTI CRUDE OIL 1 M CSO FI	285,770	149,400	91.3%	223,425	27.9%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2020	Open Interest APR 2019	% CHG	Open Interest MAR 2020	% CHG
<b>FX Futures</b>					
AD/CD CROSS RATES	9	12	-25.0%	3	200.0%
AD/JY CROSS RATES	283	1,397	-79.7%	381	-25.7%
AD/NE CROSS RATES	100	30	233.3%	109	-8.3%
AUSTRALIAN DOLLAR	128,574	159,950	-19.6%	130,982	-1.8%
BP/JY CROSS RATES	1,365	472	189.2%	1,121	21.8%
BP/SF CROSS RATES	292	191	52.9%	333	-12.3%
BRAZIL REAL	26,684	47,479	-43.8%	48,493	-45.0%
BRITISH POUND	159,893	161,784	-1.2%	165,226	-3.2%
CANADIAN DOLLAR	118,053	154,672	-23.7%	122,891	-3.9%
CD/JY CROSS RATES	4	11	-63.6%	1	300.0%
CHINESE RENMINBI (CNH)	1,259	1,464	-14.0%	1,468	-14.2%
CZECK KORUNA (EC)	4	2	100.0%	4	0.0%
CZECK KORUNA (US)	0	0	-	0	-
EC/AD CROSS RATES	1,877	3,181	-41.0%	2,026	-7.4%
EC/CD CROSS RATES	1,916	1,731	10.7%	1,791	7.0%
EC/NOK CROSS RATES	145	547	-73.5%	30	383.3%
EC/SEK CROSS RATES	716	597	19.9%	732	-2.2%
EFX/BP CROSS RATES	22,075	27,493	-19.7%	21,289	3.7%
EFX/JY CROSS RATES	17,410	24,068	-27.7%	16,903	3.0%
EFX/SF CROSS RATES	13,369	11,787	13.4%	13,117	1.9%
E-MINI EURO FX	12,285	15,683	-21.7%	13,173	-6.7%
E-MINI JAPANESE YEN	1,752	519	237.6%	1,616	8.4%
EURO FX	541,602	518,212	4.5%	551,752	-1.8%
HUNGARIAN FORINT (EC)	0	0	-	0	-
HUNGARIAN FORINT (US)	26	2	1,200.0%	26	0.0%
INDIAN RUPEE	2,291	2,214	3.5%	2,224	3.0%
JAPANESE YEN	144,590	202,106	-28.5%	120,270	20.2%
KOREAN WON	400	185	116.2%	231	73.2%
MEXICAN PESO	101,800	258,629	-60.6%	102,712	-0.9%
MICRO AUD/USD	9,995	5,197	92.3%	4,534	120.4%
MICRO CAD/USD	1,363	1,824	-25.3%	1,021	33.5%
MICRO CHF/USD	445	366	21.6%	499	-10.8%
MICRO EUR/USD	8,126	9,303	-12.7%	8,202	-0.9%
MICRO GBP/USD	1,555	1,862	-16.5%	1,381	12.6%
MICRO INR/USD	106	220	-51.8%	109	-2.8%
MICRO JPY/USD	1,108	1,319	-16.0%	819	35.3%
NEW ZEALND DOLLAR	43,595	49,266	-11.5%	39,144	11.4%
NKR/USD CROSS RATE	1,373	2,226	-38.3%	1,252	9.7%
POLISH ZLOTY (EC)	55	4	1,275.0%	44	25.0%
POLISH ZLOTY (US)	237	62	282.3%	235	0.9%
RMB USD	2	0	-	2	0.0%
RUSSIAN RUBLE	23,661	62,630	-62.2%	22,867	3.5%
S.AFRICAN RAND	16,690	14,115	18.2%	12,951	28.9%
SF/JY CROSS RATES	23	0	-	0	-
SHEKEL	20	0	-	20	0.0%
SKR/USD CROSS RATES	1,467	1,533	-4.3%	1,557	-5.8%
SWISS FRANC	36,316	102,753	-64.7%	29,657	22.5%
TURKISH LIRA	1,236	1,893	-34.7%	1,157	6.8%
USDZAR	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2020	Open Interest APR 2019	% CHG	Open Interest MAR 2020	% CHG
<b>FX Options</b>					
AUD/USD MONDAY OPTION WEE	368	0	-	0	-
AUD/USD MONDAY OPTION WEE	362	0	-	0	-
AUD/USD MONDAY OPTION WEE	17	0	-	0	-
AUD/USD MONDAY OPTION WEE	0	0	-	0	-
AUD/USD MONDAY OPTION WEE	0	0	-	0	0.0%
AUD/USD MONTHLY OPTIONS	89,611	52,522	70.6%	94,733	-5.4%
AUD/USD WKLY FRIDAY OPTION	2,258	0	-	73	2,993.2%
AUD/USD WKLY FRIDAY OPTION	0	3,372	-100.0%	2,745	-100.0%
AUD/USD WKLY FRIDAY OPTION	1,407	922	52.6%	1,055	33.4%
AUD/USD WKLY FRIDAY OPTION	661	1,109	-40.4%	1,538	-57.0%
AUD/USD WKLY FRIDAY OPTION	959	2	47,850.0%	0	-
AUD/USD WKLY WED OPTIONS -	974	556	75.2%	1,134	-14.1%
AUD/USD WKLY WED OPTIONS -	315	1,639	-80.8%	24	1,212.5%
AUD/USD WKLY WED OPTIONS -	42	480	-91.3%	2	2,000.0%
AUD/USD WKLY WED OPTIONS -	20	52	-61.5%	0	-
AUD/USD WKLY WED OPTIONS -	0	0	-	0	-
BRITISH POUND (EU)	0	0	-	0	-
BRL/USD MONTHLY OPTIONS	25	0	-	8	212.5%
CAD/USD MONDAY OPTIONS WE	94	0	-	1	9,300.0%
CAD/USD MONDAY OPTIONS WE	0	0	-	0	-
CAD/USD MONDAY OPTIONS WE	259	0	-	0	-
CAD/USD MONDAY OPTIONS WE	0	0	-	0	-
CAD/USD MONDAY OPTIONS WE	0	0	-	0	-
CAD/USD MONTHLY OPTIONS	61,055	54,526	12.0%	63,719	-4.2%
CAD/USD WKLY FRIDAY OPTION	4,565	0	-	121	3,672.7%
CAD/USD WKLY FRIDAY OPTION	0	2,904	-100.0%	2,612	-100.0%
CAD/USD WKLY FRIDAY OPTION	1,498	1,494	0.3%	923	62.3%
CAD/USD WKLY FRIDAY OPTION	1,590	510	211.8%	422	276.8%
CAD/USD WKLY FRIDAY OPTION	781	261	199.2%	0	-
CAD/USD WKLY WED OPTIONS -	400	2,920	-86.3%	1,677	-76.1%
CAD/USD WKLY WED OPTIONS -	361	2,095	-82.8%	1,110	-67.5%
CAD/USD WKLY WED OPTIONS -	533	212	151.4%	151	253.0%
CAD/USD WKLY WED OPTIONS -	0	145	-100.0%	200	-100.0%
CAD/USD WKLY WED OPTIONS -	0	0	-	0	-
CANADIAN DOLLAR (EU)	0	0	-	0	-
CHF/USD MONTHLY OPTIONS	5,861	3,943	48.6%	6,764	-13.4%
CHF/USD WKLY FRIDAY OPTION	35	0	-	2	1,650.0%
CHF/USD WKLY FRIDAY OPTION	0	176	-100.0%	129	-100.0%
CHF/USD WKLY FRIDAY OPTION	9	53	-83.0%	25	-64.0%
CHF/USD WKLY FRIDAY OPTION	2	225	-99.1%	17	-88.2%
CHF/USD WKLY FRIDAY OPTION	1	0	-	0	-
EUR/GBP MONTHLY OPTIONS	0	0	-	0	-
EUR/JPY MONTHLY OPTIONS	0	0	-	0	-
EURO FX (EU)	0	0	-	0	-
EUR/USD MONDAY OPTION WEE	850	0	-	11	7,627.3%
EUR/USD MONDAY OPTION WEE	118	0	-	0	-
EUR/USD MONDAY OPTION WEE	176	0	-	1	17,500.0%
EUR/USD MONDAY OPTION WEE	0	0	-	0	-
EUR/USD MONDAY OPTION WEE	0	0	-	0	0.0%
EUR/USD MONTHLY OPTIONS	249,941	250,109	-0.1%	269,609	-7.3%
EUR/USD WKLY FRIDAY OPTION	6,337	0	-	484	1,209.3%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2020	Open Interest APR 2019	% CHG	Open Interest MAR 2020	% CHG
<b>FX Options</b>					
EUR/USD WKLY FRIDAY OPTION	0	13,522	-100.0%	6,002	-100.0%
EUR/USD WKLY FRIDAY OPTION	1,957	4,387	-55.4%	2,485	-21.2%
EUR/USD WKLY FRIDAY OPTION	2,233	3,897	-42.7%	2,267	-1.5%
EUR/USD WKLY FRIDAY OPTION	847	1,509	-43.9%	0	-
EUR/USD WKLY WED OPTIONS -	1,089	5,491	-80.2%	3,219	-66.2%
EUR/USD WKLY WED OPTIONS -	1,188	6,431	-81.5%	1,313	-9.5%
EUR/USD WKLY WED OPTIONS -	94	1,407	-93.3%	433	-78.3%
EUR/USD WKLY WED OPTIONS -	192	179	7.3%	2	9,500.0%
EUR/USD WKLY WED OPTIONS -	0	0	-	0	-
GBP/USD MONDAY OPTION WEE	139	0	-	0	-
GBP/USD MONDAY OPTION WEE	216	0	-	2	10,700.0%
GBP/USD MONDAY OPTION WEE	160	0	-	0	-
GBP/USD MONDAY OPTION WEE	0	0	-	0	-
GBP/USD MONDAY OPTION WEE	0	0	-	0	0.0%
GBP/USD MONTHLY OPTIONS	99,195	126,254	-21.4%	105,830	-6.3%
GBP/USD WKLY FRIDAY OPTION	2,540	0	-	357	611.5%
GBP/USD WKLY FRIDAY OPTION	0	3,796	-100.0%	1,957	-100.0%
GBP/USD WKLY FRIDAY OPTION	979	1,535	-36.2%	744	31.6%
GBP/USD WKLY FRIDAY OPTION	1,006	713	41.1%	694	45.0%
GBP/USD WKLY FRIDAY OPTION	567	1	56,600.0%	0	-
GBP/USD WKLY WED OPTIONS -	1,559	460	238.9%	964	61.7%
GBP/USD WKLY WED OPTIONS -	108	801	-86.5%	166	-34.9%
GBP/USD WKLY WED OPTIONS -	277	34	714.7%	4	6,825.0%
GBP/USD WKLY WED OPTIONS -	0	0	-	2	-100.0%
GBP/USD WKLY WED OPTIONS -	0	0	-	0	-
JAPANESE YEN (EU)	0	0	-	0	-
JPY/USD MONDAY OPTION WEE	69	0	-	0	-
JPY/USD MONDAY OPTION WEE	273	0	-	0	-
JPY/USD MONDAY OPTION WEE	57	0	-	1	5,600.0%
JPY/USD MONDAY OPTION WEE	0	0	-	0	-
JPY/USD MONDAY OPTION WEE	0	0	-	0	-
JPY/USD MONTHLY OPTIONS	129,384	126,491	2.3%	133,499	-3.1%
JPY/USD WKLY FRIDAY OPTION	4,945	0	-	114	4,237.7%
JPY/USD WKLY FRIDAY OPTION	0	5,304	-100.0%	4,973	-100.0%
JPY/USD WKLY FRIDAY OPTION	1,432	1,259	13.7%	1,128	27.0%
JPY/USD WKLY FRIDAY OPTION	2,100	3,276	-35.9%	1,153	82.1%
JPY/USD WKLY FRIDAY OPTION	795	189	320.6%	0	-
JPY/USD WKLY WED OPTIONS -	1,636	3,487	-53.1%	2,469	-33.7%
JPY/USD WKLY WED OPTIONS -	662	2,102	-68.5%	621	6.6%
JPY/USD WKLY WED OPTIONS -	29	416	-93.0%	154	-81.2%
JPY/USD WKLY WED OPTIONS -	0	59	-100.0%	0	-
JPY/USD WKLY WED OPTIONS -	0	0	-	0	-
MXN/USD MONTHLY OPTIONS	6,381	2,110	202.4%	6,640	-3.9%
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	1	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD MONTHLY OPTIONS	1,204	117	929.1%	1,562	-22.9%
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD WKLY FRIDAY OPTION	0	120	-100.0%	50	-100.0%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2020	Open Interest APR 2019	% CHG	Open Interest MAR 2020	% CHG
<b>FX Options</b>					
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
<b>Foreign Exchange Futures</b>					
CHILEAN PESO	0	0	-	0	-
<b>Foreign Exchange Options</b>					
AUD/USD WKLY WED OPTIONS -	0	323	-100.0%	1	-100.0%
<b>Ags Futures</b>					
FERTILIZER PRODUCTS	4,345	1,100	295.0%	2,520	72.4%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Ag Products Futures</b>					
BUTTER CS	9,821	8,642	13.6%	11,918	-17.6%
CASH-SETTLED CHEESE	24,891	21,364	16.5%	26,944	-7.6%
CAT ASIA WEATHER	3,900	0	-	0	-
CATTLE	272,494	417,852	-34.8%	264,447	3.0%
CAT WEATHER EUROPEAN	0	2,000	-100.0%	0	-
CDD SEASONAL STRIP	750	450	66.7%	750	0.0%
CDD WEATHER	4,200	2,100	100.0%	4,100	2.4%
CHI WHEAT	346,734	471,069	-26.4%	372,589	-6.9%
CLASS IV MILK	5,645	8,923	-36.7%	6,015	-6.2%
COCOA TAS	0	0	-	0	-
COFFEE	0	0	-	0	-
CORN	1,398,355	1,636,755	-14.6%	1,389,346	0.6%
COTTON	0	0	-	2	-100.0%
DJ_UBS ROLL SELECT INDEX FU	1,310	1,909	-31.4%	1,310	0.0%
DOW-UBS COMMOD INDEX	19,544	28,326	-31.0%	16,134	21.1%
DRY WHEY	3,408	3,099	10.0%	3,874	-12.0%
FEEDER CATTLE	33,475	50,025	-33.1%	32,767	2.2%
FERTILIZER PRODUCTS	420	2,345	-82.1%	450	-6.7%
GOLDMAN SACHS	7,098	13,595	-47.8%	7,389	-3.9%
GSCI EXCESS RETURN FUT	38,085	52,554	-27.5%	38,459	-1.0%
HDD EURO SEASONAL STRIP	0	0	-	0	-
HDD SEASONAL STRIP	0	0	-	0	-
HDD WEATHER	250	0	-	1,350	-81.5%
HDD WEATHER EUROPEAN	0	1,000	-100.0%	250	-100.0%
HOGS	208,930	317,740	-34.2%	229,366	-8.9%
HOUSING INDEX	42	59	-28.8%	43	-2.3%
Intercommodity Spread	0	0	-	0	-
KC WHEAT	220,871	325,511	-32.1%	226,797	-2.6%
LUMBER	2,729	3,921	-30.4%	2,824	-3.4%
MALAYSIAN PALM SWAP	22,620	20,304	11.4%	24,110	-6.2%
MILK	23,042	23,901	-3.6%	22,774	1.2%
MINI CORN	5,605	6,793	-17.5%	6,350	-11.7%
MINI SOYBEAN	7,788	9,912	-21.4%	9,500	-18.0%
MINI WHEAT	2,528	2,076	21.8%	2,207	14.5%
MLK MID OPTIONS	0	0	-	0	-
NFD MILK	9,033	9,645	-6.3%	10,842	-16.7%
OATS	2,936	6,214	-52.8%	4,179	-29.7%
ROUGH RICE	12,167	7,786	56.3%	11,591	5.0%
SOYBEAN	802,830	727,286	10.4%	793,202	1.2%
SOYBEAN MEAL	409,374	464,362	-11.8%	400,871	2.1%
SOYBEAN OIL	455,383	487,062	-6.5%	448,165	1.6%
S&P GSCI ENHANCED ER SWAP	3,762	3,762	0.0%	3,940	-4.5%
SUGAR 11	0	0	-	0	-
USD CRUDE PALM OIL	7,257	3,552	104.3%	7,179	1.1%
WHEAT	28,717	20,300	41.5%	28,952	-0.8%

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<b>Ag Products Options</b>					
BUTTER CS	11,707	13,268	-11.8%	12,736	-8.1%
CASH-SETTLED CHEESE	34,559	34,169	1.1%	35,060	-1.4%
CATTLE	199,666	198,584	0.5%	236,669	-15.6%
CAT WEATHER EUROPEAN	0	2,000	-100.0%	0	-
CDD SEASONAL STRIP	2,000	5,000	-60.0%	2,000	0.0%
CHI WHEAT	358,656	334,710	7.2%	387,255	-7.4%
CLASS IV MILK	15,482	14,006	10.5%	14,614	5.9%
CORN	1,064,606	1,227,103	-13.2%	963,187	10.5%
CORN NEARBY+2 CAL SPRD	8,595	7,715	11.4%	11,150	-22.9%
DEC-DEC CORN CAL SPRD	1,427	2,547	-44.0%	250	470.8%
DEC-JULY CORN CAL SPRD	175	5,957	-97.1%	175	0.0%
DEC-JULY WHEAT CAL SPRD	0	0	-	0	-
DRY WHEY	2,418	3,491	-30.7%	2,590	-6.6%
FEEDER CATTLE	33,192	28,182	17.8%	28,327	17.2%
HDD EURO SEASONAL STRIP	0	0	-	0	-
HDD SEASONAL STRIP	0	0	-	0	-
HDD WEATHER	0	0	-	0	-
HOGS	253,397	397,815	-36.3%	315,640	-19.7%
HOUSING INDEX	0	0	-	0	-
Intercommodity Spread	12,865	120	10,620.8%	12,977	-0.9%
JULY-DEC CORN CAL SPRD	25,926	7,695	236.9%	25,926	0.0%
JULY-DEC SOYMEAL CAL SPRD	0	1,200	-100.0%	0	-
JULY-DEC WHEAT CAL SPRD	2,925	1,550	88.7%	2,315	26.3%
JULY-JULY WHEAT CAL SPRD	120	0	-	50	140.0%
JULY-NOV SOYBEAN CAL SPRD	11,798	6,586	79.1%	11,673	1.1%
KC WHEAT	71,145	71,554	-0.6%	84,645	-15.9%
LUMBER	567	1,481	-61.7%	1,177	-51.8%
LV CATL CSO	0	45	-100.0%	0	-
MAR-DEC CORN CAL SPRD	0	0	-	0	-
MAR-JULY CORN CAL SPRD	0	0	-	0	-
MAR-JULY WHEAT CAL SPRD	0	0	-	0	-
MILK	73,822	78,015	-5.4%	73,836	0.0%
MLK MID OPTIONS	33	213	-84.5%	50	-34.0%
NFD MILK	27,086	23,626	14.6%	31,362	-13.6%
NOV-JULY SOYBEAN CAL SPRD	0	800	-100.0%	0	-
NOV-MAR SOYBEAN CSO	850	0	-	730	16.4%
NOV-NOV SOYBEAN CAL SPRD	0	114	-100.0%	0	-
OATS	1,056	1,147	-7.9%	1,059	-0.3%
ROUGH RICE	2,997	970	209.0%	3,513	-14.7%
SEP-DEC SOYBEAN MEAL CSO	0	0	-	0	-
SOYBEAN	609,451	516,582	18.0%	618,071	-1.4%
SOYBEAN CRUSH	640	4	15,900.0%	830	-22.9%
SOYBEAN MEAL	136,786	100,807	35.7%	113,802	20.2%
SOYBEAN OIL	125,060	60,389	107.1%	146,538	-14.7%
SOYBN NEARBY+2 CAL SPRD	350	0	-	610	-42.6%
SOYMEAL NEARBY+2 CAL SPRD	0	450	-100.0%	200	-100.0%
WHEAT	3,100	12,559	-75.3%	2,238	38.5%
WHEAT-CORN IC SO	1,335	1,890	-29.4%	230	480.4%
WHEAT NEARBY+2 CAL SPRD	750	885	-15.3%	725	3.4%

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

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest APR 2020	Open Interest APR 2019	% CHG	Open Interest MAR 2020	% CHG
<b>TOTAL FUTURES GROUP</b>					
Interest Rate Futures	25,583,524	31,263,288	-18.2%	26,109,870	-2.0%
Equity Index Futures	4,930,231	4,054,736	21.6%	5,055,994	-2.5%
Metals Futures	992,192	1,099,656	-9.8%	1,015,487	-2.3%
Energy Futures	8,780,796	10,739,123	-18.2%	8,916,193	-1.5%
FX Futures	1,446,147	1,848,991	-21.8%	1,444,355	0.1%
Foreign Exchange Futures	0	0	-	0	-
Ags Futures	4,345	1,100	295.0%	2,520	72.4%
Ag Products Futures	4,395,994	5,162,194	-14.8%	4,410,986	-0.3%
<b>TOTAL FUTURES</b>	<b>46,133,229</b>	<b>54,169,088</b>	<b>-14.8%</b>	<b>46,955,405</b>	<b>-1.8%</b>
<b>TOTAL OPTIONS GROUP</b>					
Interest Rate Options	56,637,173	62,411,472	-9.3%	58,582,886	-3.3%
Equity Index Options	4,071,558	4,174,374	-2.5%	4,723,951	-13.8%
Metals Options	1,715,249	1,597,809	7.4%	1,824,573	-6.0%
Energy Options	7,353,002	6,001,550	22.5%	7,180,382	2.4%
FX Options	694,799	695,574	-0.1%	728,095	-4.6%
Foreign Exchange Options	0	323	-100.0%	1	-100.0%
Ag Products Options	3,094,542	3,163,229	-2.2%	3,142,210	-1.5%
<b>TOTAL OPTIONS</b>	<b>73,566,323</b>	<b>78,044,331</b>	<b>-5.7%</b>	<b>76,182,098</b>	<b>-3.4%</b>
<b>TOTAL COMBINED</b>					
Interest Rate	82,220,697	93,674,760	-12.2%	84,692,756	-2.9%
Equity Index	9,001,789	8,229,110	9.4%	9,779,945	-8.0%
Metals	2,707,441	2,697,465	0.4%	2,840,060	-4.7%
Energy	16,133,798	16,740,673	-3.6%	16,096,575	0.2%
FX	2,140,946	2,544,565	-15.9%	2,172,450	-1.5%
Foreign Exchange	0	323	-100.0%	1	-100.0%
Ags	4,345	1,100	295.0%	2,520	72.4%
Ag Products	7,490,536	8,325,423	-10.0%	7,553,196	-0.8%
<b>GRAND TOTAL</b>	<b>119,699,552</b>	<b>132,213,419</b>	<b>-9.5%</b>	<b>123,137,503</b>	<b>-2.8%</b>

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