

## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2022	Open Interest JUL 2021	% CHG	Open Interest JUN 2022	% CHG
<b>Interest Rate Futures</b>					
10-YR Eris LIBOR	67,740	83,830	-19.2%	66,273	2.2%
10-YR Eris SOFR	1,175	30	3,816.7%	1,372	-14.4%
10-YR MAC LIBOR	14,074	124,548	-88.7%	11,913	18.1%
10-YR NOTE	3,539,224	4,075,330	-13.2%	3,416,296	3.6%
10Y YIELD	3,266	0	-	2,608	25.2%
15-YR Eris LIBOR	0	10,850	-100.0%	0	-
1-MONTH EURODOLLAR	43,471	0	-	47,719	-8.9%
1-YR Eris BSBY	300	0	-	0	-
1-YR Eris SOFR	8,627	700	1,132.4%	6,445	33.9%
20-YR BOND	840	0	-	687	22.3%
20-YR SWAP RATE	0	90	-100.0%	0	-
2-YR Eris LIBOR	103,781	49,051	111.6%	114,359	-9.2%
2-YR Eris SOFR	3,949	3,620	9.1%	4,561	-13.4%
2-YR NOTE	1,992,292	1,989,444	0.1%	2,106,627	-5.4%
2Y YIELD	616	0	-	197	212.7%
30-YR BOND	1,184,018	1,198,413	-1.2%	1,190,570	-0.6%
30-YR Eris LIBOR	2,273	3,413	-33.4%	2,273	0.0%
30-YR SWAP RATE	0	4,500	-100.0%	0	-
30Y YIELD	3,045	0	-	3,036	0.3%
3-YR Eris BSBY	0	0	-	0	-
3-YR Eris LIBOR	30,532	38,391	-20.5%	31,882	-4.2%
3-YR Eris SOFR	6,733	758	788.3%	2,816	139.1%
3-YR NOTE	7,389	11,398	-35.2%	10,118	-27.0%
4-YR Eris LIBOR	9,697	10,019	-3.2%	10,898	-11.0%
4-YR Eris SOFR	575	285	101.8%	576	-0.2%
5-YR Eris LIBOR	16,610	63,366	-73.8%	22,177	-25.1%
5-YR Eris SOFR	1,271	0	-	2,133	-40.4%
5-YR MAC LIBOR	19,146	38,776	-50.6%	18,749	2.1%
5-YR NOTE	3,942,475	3,472,260	13.5%	4,018,780	-1.9%
5Y YIELD	1,092	0	-	286	281.8%
7-YR Eris LIBOR	21,100	22,249	-5.2%	22,123	-4.6%
7-YR Eris SOFR	289	0	-	181	59.7%
BSBY 3-MONTH FUTURES	25,493	0	-	24,907	2.4%
EURODOLLARS	9,490,993	12,079,068	-21.4%	9,557,946	-0.7%
FED FUND	1,896,557	1,106,699	71.4%	1,758,069	7.9%
SOFR	7,298,956	846,923	761.8%	6,371,384	14.6%
SONIA	8,152	14,956	-45.5%	8,209	-0.7%
TIIE	61	70	-12.9%	91	-33.0%
Ultra 10-Year Note	1,166,780	1,462,845	-20.2%	1,190,815	-2.0%
ULTRA T-BOND	1,308,803	1,266,026	3.4%	1,277,346	2.5%

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<b>Interest Rate Options</b>					
10-YR NOTE	2,525,113	2,618,024	-3.5%	2,613,996	-3.4%
2-YR NOTE	71,484	2,160	3,209.4%	29,272	144.2%
30-YR BOND	428,826	574,477	-25.4%	518,282	-17.3%
5-YR NOTE	862,321	940,397	-8.3%	1,009,668	-14.6%
EURODOLLARS	23,648,758	16,841,254	40.4%	23,292,094	1.5%
EURO MIDCURVE	5,590,750	19,961,358	-72.0%	6,222,926	-10.2%
FED FUND	2	0	-	2	0.0%
SOFR	7,434,390	7,582	97,953.2%	6,009,926	23.7%
SOFR MIDCURVE	1,301,033	10	13,010,230.0%	1,231,435	5.7%
Ultra 10-Year Note	0	0	-	0	-
ULTRA T-BOND	778	218	256.9%	650	19.7%

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<b>Equity Index Futures</b>					
BITCOIN	13,806	7,321	88.6%	14,108	-2.1%
DJ US REAL ESTATE	44,894	44,438	1.0%	45,194	-0.7%
E-mini (\$5) Dow	74,121	106,211	-30.2%	67,667	9.5%
E-MINI COM SERVICES SELECT	2,325	1,890	23.0%	2,272	2.3%
E-mini FTSE China 50	18	33	-45.5%	107	-83.2%
E-MINI MIDCAP	53,588	43,900	22.1%	57,286	-6.5%
E-MINI NASDAQ 100	260,662	225,512	15.6%	254,509	2.4%
E-MINI RUSSELL 1000	14,279	8,933	59.8%	12,220	16.8%
E-MINI RUSSELL 1000 GROWTH	4,958	3,403	45.7%	5,090	-2.6%
E-MINI RUSSELL 1000 VALUE	21,000	32,676	-35.7%	26,714	-21.4%
E-MINI RUSSELL 2000	575,953	457,689	25.8%	595,266	-3.2%
E-MINI S&P500	2,339,217	2,677,856	-12.6%	2,279,573	2.6%
E-MINI S&P500 ESG	13,504	12,654	6.7%	13,360	1.1%
E-MINI S&P REAL ESTATE SELE	3,869	9,841	-60.7%	3,374	14.7%
ETHER FUTURES	4,003	3,489	14.7%	4,166	-3.9%
FT-SE 100	0	50	-100.0%	0	-
FTSE Emerging	0	0	-	0	-
IBOVESPA INDEX	32	23	39.1%	32	0.0%
MICRO BITCOIN	23,679	25,778	-8.1%	16,069	47.4%
MICRO E-MINI NASDAQ 100	70,554	76,281	-7.5%	58,793	20.0%
MICRO E-MINI RUSSELL 2000	27,490	32,536	-15.5%	18,824	46.0%
MICRO E-MINI S&P500	144,579	92,083	57.0%	109,423	32.1%
MICRO ETHER	64,677	0	-	36,050	79.4%
MICRO MINI \$5 DOW	16,948	18,138	-6.6%	14,551	16.5%
NASDAQ-100 VOLATILITY	20	1	1,900.0%	20	0.0%
NASDAQ BIOTECH	73	253	-71.1%	84	-13.1%
Nearby BTIC+	100	0	0.0%	100	0.0%
NIKKEI 225 (\$) STOCK	13,627	15,748	-13.5%	13,604	0.2%
NIKKEI 225 (YEN) STOCK	60,842	48,147	26.4%	57,090	6.6%
S&P 500	308,113	274,067	12.4%	302,002	2.0%
S&P 500 ANNUAL DIVIDEND IND	228,713	233,176	-1.9%	228,177	0.2%
S&P 500/GI	0	0	-	0	-
S&P 500 QUARLY DIVIDEND IND	10,532	7,196	46.4%	6,236	68.9%
S&P 600 SMALLCAP EMINI	0	0	-	0	-
S&P CONSUMER DSCRTNRY SE	6,923	3,174	118.1%	8,561	-19.1%
S&P CONSUMER STAPLES SECT	16,135	22,163	-27.2%	14,757	9.3%
S&P ENERGY SECTOR	33,540	22,886	46.6%	30,765	9.0%
S&P FINANCIAL SECTOR	21,695	28,631	-24.2%	20,500	5.8%
S&P HEALTH CARE SECTOR	21,142	12,552	68.4%	19,623	7.7%
S&P INDUSTRIAL SECTOR	15,947	16,611	-4.0%	13,994	14.0%
S&P MATERIALS SECTOR	9,241	9,393	-1.6%	5,922	56.0%
S&P TECHNOLOGY SECTOR	10,644	9,885	7.7%	9,255	15.0%
S&P UTILITIES SECTOR	20,299	18,243	11.3%	20,863	-2.7%
S&P VALUE INDEX FUTURES	0	380	-100.0%	0	-
WATER INDEX FUTURES	0	7	-100.0%	4	-100.0%
YEN DENOMINATED TOPIX	202	193	4.7%	168	20.2%

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<b>Equity Index Options</b>					
BITCOIN OPTIONS	5,070	1,271	298.9%	3,227	57.1%
E-mini (\$5) Dow	680	655	3.8%	860	-20.9%
E-MINI NASDAQ 100	197,660	143,224	38.0%	217,768	-9.2%
E-mini Russell 2000	20,874	23,113	-9.7%	29,831	-30.0%
E-MINI RUSSELL 2000	19,931	17,725	12.4%	15,028	32.6%
E-mini S&P 500	2,186,148	1,687,837	29.5%	2,620,807	-16.6%
E-MINI S&P500	2,236,578	1,758,717	27.2%	1,570,948	42.4%
EOM S&P 500	0	9,136	-100.0%	0	-
MICRO BITCOIN	10,013	0	-	6,284	59.3%
Micro E-mini Nasdaq-100	2,617	3,864	-32.3%	3,579	-26.9%
MICRO E-MINI NASDAQ 100	2,130	1,867	14.1%	1,162	83.3%
Micro E-mini S&P 500	44,142	39,215	12.6%	41,870	5.4%
MICRO ETHER	42,149	0	-	3,757	1,021.9%
S&P 500	0	32,899	-100.0%	0	-
<b>Metals Futures</b>					
ALUMINUM	58,328	55,605	4.9%	53,662	8.7%
COBALT METAL FUTURES	5,322	1,750	204.1%	4,553	16.9%
COMEX COPPER	185,926	214,550	-13.3%	182,924	1.6%
COMEX E-Mini GOLD	1,640	2,069	-20.7%	1,695	-3.2%
COMEX E-Mini SILVER	443	571	-22.4%	361	22.7%
COMEX GOLD	466,838	488,404	-4.4%	495,832	-5.8%
COMEX MINY COPPER	444	473	-6.1%	369	20.3%
COMEX SILVER	138,933	144,930	-4.1%	139,925	-0.7%
COPPER	14,202	21,579	-34.2%	15,598	-8.9%
FERROUS PRODUCTS	6,950	4,351	59.7%	6,450	7.8%
GOLD	626	1,129	-44.6%	1,049	-40.3%
HOT ROLLED COIL STEEL FUTU	2,962	2,294	29.1%	2,380	24.5%
IRON ORE 62 CHINA TSI FUTURE	0	0	-	0	-
IRON ORE CHINA	2,999	1,544	94.2%	2,576	16.4%
METALS	375	0	-	232	61.6%
MICRO GOLD	21,220	23,023	-7.8%	24,388	-13.0%
NYMEX HOT ROLLED STEEL	22,522	29,882	-24.6%	29,796	-24.4%
NYMEX PLATINUM	70,945	61,712	15.0%	69,507	2.1%
PALLADIUM	7,156	10,193	-29.8%	7,398	-3.3%
SILVER	6,369	7,672	-17.0%	7,422	-14.2%
URANIUM	800	1,280	-37.5%	800	0.0%

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<b>Metals Options</b>					
ALUMINUM	0	2,250	-100.0%	0	-
COMEX COPPER	79,291	66,499	19.2%	71,576	10.8%
COMEX GOLD	844,167	774,560	9.0%	775,830	8.8%
COMEX SILVER	100,436	107,348	-6.4%	86,196	16.5%
COPPER	323	0	-	581	-44.4%
GOLD	21,369	16,166	32.2%	36,522	-41.5%
HOT ROLLED COIL STEEL CALL	0	0	-	0	-
HOT ROLLED COIL STEEL PUT O	0	0	-	0	-
IRON ORE 62 CHINA TSI CALL O	0	0	-	0	-
IRON ORE 62 CHINA TSI PUT OP	0	0	-	0	-
IRON ORE CHINA	0	2,204	-100.0%	0	-
NYMEX HOT ROLLED STEEL	3,669	955	284.2%	3,259	12.6%
NYMEX PLATINUM	7,588	14,522	-47.7%	6,995	8.5%
PALLADIUM	6	1,586	-99.6%	7	-14.3%
SILVER	1,736	2,990	-41.9%	3,848	-54.9%
<b>Energy Futures</b>					
3.5% FUEL OIL CID MED SWA	0	0	-	0	-
AEP-DAYTON HUB DAILY	10	10	0.0%	10	0.0%
ARGUS LLS VS. WTI (ARG) T	7,308	24,943	-70.7%	7,469	-2.2%
ARGUS PROPAN FAR EST INDE	5,136	5,645	-9.0%	5,429	-5.4%
ARGUS PROPAN(SAUDI ARAMC	1,665	1,703	-2.2%	1,702	-2.2%
AUSTRIALIAN COKE COAL	0	0	-	0	-
BRENT BALMO SWAP	0	139	-100.0%	100	-100.0%
BRENT CALENDAR SWAP	42,912	14,065	205.1%	46,153	-7.0%
BRENT FINANCIAL FUTURES	0	26	-100.0%	0	-
BRENT OIL LAST DAY	183,989	200,398	-8.2%	174,946	5.2%
CAR VINTAGE	18,290	457	3,902.2%	17,555	4.2%
CHICAGO ETHANOL SWAP	30,040	39,974	-24.9%	34,643	-13.3%
CHICAGO ULSD PL VS HO SPR	918	1,422	-35.4%	743	23.6%
CHICAGO UNL GAS PL VS RBO	0	0	-	25	-100.0%
CIG BASIS	0	0	-	0	-
CIN HUB 5MW D AH PK	0	0	-	0	-
CIN HUB 5MW REAL TIME O P	0	0	-	0	-
CIN HUB 5MW REAL TIME PK	0	0	-	0	-
COLUMB GULF MAINLINE NG B	0	0	-	0	-
CONWAY NATURAL GASOLINE (	2,069	1,895	9.2%	2,244	-7.8%
CONWAY NORMAL BUTANE (OPI	1,882	1,265	48.8%	1,499	25.6%
CONWAY PROPANE 5 DECIMALS	27,439	24,421	12.4%	26,453	3.7%
CRUDE OIL	0	8	-100.0%	0	-
CRUDE OIL LAST DAY	0	0	-	0	-
CRUDE OIL OUTRIGHTS	152,199	167,068	-8.9%	151,720	0.3%
CRUDE OIL PHY	1,620,853	2,325,366	-30.3%	1,647,671	-1.6%
CRUDE OIL SPRDS	139,136	98,789	40.8%	143,759	-3.2%
CRUDE OIL TRADE AT MARKER	0	0	0.0%	0	0.0%
DAILY PJM	8,736	33,432	-73.9%	6,336	37.9%
DATED BRENT (PLATTS) DAILY S	0	0	-	0	-
DATED TO FRONTLINE BRENT	2,370	555	327.0%	2,395	-1.0%

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<b>Energy Futures</b>					
DIESEL 10P BRG FOB RDM VS	0	0	-	0	-
DOMINION TRANSMISSION INC	0	54	-100.0%	0	-
DUBAI CRUDE OIL BALMO	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	500	0	-	500	0.0%
DUTCH TTF NATURAL GAS CAL	4,445	20,483	-78.3%	4,636	-4.1%
EAST/WEST FUEL OIL SPREAD	0	0	-	0	-
EIA FLAT TAX ONHWAY DIESE	939	3,652	-74.3%	1,062	-11.6%
ELEC FINSETTLED	0	0	-	0	-
ELECTRICITY OFF PEAK	0	0	-	0	-
EMMISSIONS	214	0	-	209	2.4%
ETHANOL	0	0	0.0%	0	-
ETHANOL SWAP	700	925	-24.3%	565	23.9%
ETHANOL T2 FOB ROTT INCL DU	4,657	7,610	-38.8%	5,509	-15.5%
EURO 3.5% FUEL OIL RDAM B	0	6	-100.0%	0	-
EURO 3.5% FUEL OIL SPREAD	0	0	-	0	-
EURO GASOIL 10PPM VS ICE	630	678	-7.1%	704	-10.5%
EUROPE 1% FUEL OIL NWE CA	30	6	400.0%	35	-14.3%
EUROPE 1% FUEL OIL RDAM C	0	0	-	0	-
EUROPE 3.5% FUEL OIL MED	0	13	-100.0%	0	-
EUROPE 3.5% FUEL OIL RDAM	132	125	5.6%	149	-11.4%
EUROPEAN GASOIL (ICE)	2,356	3,372	-30.1%	2,607	-9.6%
EUROPEAN NAPHTHA BALMO	7	4	75.0%	5	40.0%
EUROPEAN NAPHTHA CRACK SP	7,292	4,078	78.8%	7,687	-5.1%
EUROPE DATED BRENT SWAP	6	15	-60.0%	8	-25.0%
EUROPE JET KERO NWE CALSW	0	10	-100.0%	0	-
EUROPE NAPHTHA CALSWAP	750	1,070	-29.9%	737	1.8%
EURO PROPANE CIF ARA SWA	2,500	2,225	12.4%	2,737	-8.7%
FREIGHT MARKETS	802	955	-16.0%	897	-10.6%
FUEL OIL CRACK VS ICE	600	1,767	-66.0%	639	-6.1%
FUEL OIL NWE CRACK VS ICE	63	72	-12.5%	69	-8.7%
FUEL OIL (PLATS) CAR CM	0	0	-	0	-
FUELOIL SWAP:CARGOES VS.B	0	54	-100.0%	0	-
GAS EURO-BOB OXY NWE BARG	445	1,861	-76.1%	512	-13.1%
GAS EURO-BOB OXY NWE BARG	7,070	13,445	-47.4%	8,109	-12.8%
GASOIL 0.1CIF MED VS ICE	30	60	-50.0%	35	-14.3%
GASOIL 0.1 RDAM BRGS VS I	0	33	-100.0%	0	-
GASOIL 0.1 ROTTERDAM BARG	39	30	30.0%	53	-26.4%
GASOIL 10PPM VS ICE SWAP	0	0	-	0	-
GASOIL CALENDAR SWAP	203	154	31.8%	321	-36.8%
GASOIL CRACK SPREAD CALEN	2,730	5,913	-53.8%	3,026	-9.8%
GASOIL MINI CALENDAR SWAP	612	1,629	-62.4%	805	-24.0%
GERMAN POWER BASELOAD CA	108	642	-83.2%	126	-14.3%
GROUP THREE UNLEAD GAS (P	0	0	-	0	-
GRP THREE ULSD(PLT)VS HEA	5,725	7,826	-26.8%	6,650	-13.9%
GRP THREE UNL GS (PLT) VS	3,385	4,070	-16.8%	4,545	-25.5%
GULF COAST 3% FUEL OIL BA	107	107	0.0%	0	-
GULF COAST JET FUEL CLNDR	0	0	-	0	-
GULF COAST JET VS NYM 2 H	9,988	28,139	-64.5%	10,765	-7.2%
GULF COAST NO.6 FUEL OIL	9,941	6,069	63.8%	10,175	-2.3%
GULF COAST ULSD CALENDAR	776	3,874	-80.0%	917	-15.4%

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	Open Interest JUL 2022	Open Interest JUL 2021	% CHG	Open Interest JUN 2022	% CHG
<b>Energy Futures</b>					
GULF COAST ULSD CRACK SPR	0	60	-100.0%	0	-
HEATING OIL BALMO CLNDR S	265	153	73.2%	100	165.0%
HEATING OIL CRCK SPRD BAL	127	0	-	0	-
HEATING OIL PHY	271,173	399,410	-32.1%	258,624	4.9%
HENRY HUB BASIS SWAP	0	0	-	0	-
HENRY HUB FINANCIAL LAST	0	0	-	0	-
HENRY HUB INDEX SWAP FUTU	0	0	-	0	-
HENRY HUB SWAP	494,556	558,904	-11.5%	512,992	-3.6%
HOUSTON SHIP CHANNEL BASI	0	765	-100.0%	0	-
HTG OIL	108	148	-27.0%	81	33.3%
ICE BRENT DUBAI SWAP	1,440	3,655	-60.6%	1,525	-5.6%
ICE GASOIL BALMO SWAP	0	0	-	0	-
INDIANA MISO	0	0	-	0	-
INDONESIAN COAL ICI4	0	309	-100.0%	0	-
JAPAN C&F NAPHTHA CRACK S	122	0	-	104	17.3%
JAPAN C&F NAPHTHA SWAP	329	190	73.2%	340	-3.2%
JAPAN NAPHTHA BALMO SWAP	0	0	-	0	-
JET CIF NWE VS ICE	1,020	686	48.7%	988	3.2%
JET FUEL UP-DOWN BALMO CL	665	1,475	-54.9%	663	0.3%
JKM LNG Futures	1,334	3,393	-60.7%	1,456	-8.4%
LA CARB DIESEL (OPIS) SWA	661	690	-4.2%	907	-27.1%
LA CARBOB GASOLINE(OPIS)S	0	125	-100.0%	0	-
LA JET (OPIS) SWAP	475	920	-48.4%	675	-29.6%
LLS (ARGUS) CALENDAR SWAP	0	20	-100.0%	0	-
LLS (ARGUS) VS WTI SWAP	2,106	2,968	-29.0%	2,233	-5.7%
LOS ANGELES CARB GASOLINE	0	0	-	0	-
LTD NAT GAS	374,380	469,717	-20.3%	391,943	-4.5%
MARS (ARGUS) VS WTI SWAP	675	360	87.5%	675	0.0%
MARS (ARGUS) VS WTI TRD M	12,435	24,035	-48.3%	18,272	-31.9%
MARS BLEND CRUDE OIL	0	0	-	0	-
MCCLOSKEY ARA ARGS COAL	11,978	16,245	-26.3%	11,083	8.1%
MCCLOSKEY RCH BAY COAL	853	1,052	-18.9%	745	14.5%
MGN1 SWAP FUT	0	10	-100.0%	0	-
MICHIGAN BASIS	0	0	-	0	-
MINI GAS EUROBOB OXY NWE A	10	13	-23.1%	10	0.0%
MINI RBOB V. EBOBARG NWE BF	0	100	-100.0%	50	-100.0%
MINI RBOB V. EBOB(ARGUS) NW	464	966	-52.0%	525	-11.6%
MINY HTG OIL	0	0	-	0	0.0%
MINY NATURAL GAS	8,177	4,575	78.7%	4,525	80.7%
MINY RBOB GAS	1	1	0.0%	1	0.0%
MINY WTI CRUDE OIL	5,202	3,999	30.1%	4,951	5.1%
MJC FUT	0	40	-100.0%	0	-
MNC FUT	2,593	2,140	21.2%	2,610	-0.7%
MONT BELVIEU ETHANE 5 DECI	43,496	48,431	-10.2%	45,959	-5.4%
MONT BELVIEU ETHANE OPIS B	390	610	-36.1%	1,015	-61.6%
MONT BELVIEU LDH PROPANE 5	119,767	129,595	-7.6%	121,681	-1.6%
MONT BELVIEU LDH PROPANE C	2,286	2,497	-8.5%	1,335	71.2%
MONT BELVIEU NATURAL GASO	37,788	34,735	8.8%	38,125	-0.9%
MONT BELVIEU NATURAL GASO	1,845	265	596.2%	1,269	45.4%
MONT BELVIEU NORMAL BUTAN	56,473	57,899	-2.5%	50,730	11.3%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2022	Open Interest JUL 2021	% CHG	Open Interest JUN 2022	% CHG
<b>Energy Futures</b>					
MONT BELVIEU NORMAL BUTAN	729	202	260.9%	1,325	-45.0%
NATURAL GAS	235,372	144,431	63.0%	239,839	-1.9%
NATURAL GAS PEN SWP	206,958	219,397	-5.7%	214,138	-3.4%
NATURAL GAS PHY	983,986	1,434,026	-31.4%	985,101	-0.1%
NEPOOL INTR HUB 5MW D AH	2,502	62,515	-96.0%	3,699	-32.4%
NEPOOL NE MASS 5MW D AH O	0	0	-	0	-
NEPOOL NE MASS 5MW D AH P	0	0	-	0	-
NEW ENGLAND HUB PEAK DAIL	102	924	-89.0%	93	9.7%
NEW YORK ETHANOL SWAP	1,890	130	1,353.8%	2,051	-7.8%
NEW YORK HUB ZONE G PEAK	850	330	157.6%	775	9.7%
NEW YORK HUB ZONE J PEAK	0	0	-	0	-
NGPL MID-CONTINENT	0	0	-	0	-
NGPL TEX/OK	0	0	-	0	-
N ILLINOIS HUB DAILY	20	20	0.0%	0	-
NO 2 UP-DOWN SPREAD CALEN	0	0	-	0	-
NORTHWEST ROCKIES BASIS S	0	0	-	0	-
NY1% VS GC SPREAD SWAP	0	180	-100.0%	0	-
NY HARBOR 1% FUEL OIL BAL	0	0	-	0	-
NY HARBOR HEAT OIL SWP	7,206	9,069	-20.5%	7,176	0.4%
NY HARBOR LOW SULPUR GAS	300	1,505	-80.1%	350	-14.3%
NY HARBOR RESIDUAL FUEL 1	200	475	-57.9%	325	-38.5%
NYH NO 2 CRACK SPREAD CAL	12,044	8,950	34.6%	13,699	-12.1%
NYISO CAPACITY	0	0	-	0	-
NYISO ZONE A 5MW D AH O P	0	0	-	0	-
NYISO ZONE G 5MW D AH O P	0	15,840	-100.0%	0	-
NYISO ZONE G 5MW D AH PK	2,100	7,235	-71.0%	2,675	-21.5%
NYISO ZONE J 5MW D AH O P	0	0	-	0	-
NYISO ZONE J 5MW D AH PK	0	0	-	0	-
NYMEX ALUMINUM FUTURES	0	0	-	0	-
NYMEX ULSD VS NYMEX HO	0	0	-	0	-
NY ULSD (ARGUS) VS HEATING	1,724	65	2,552.3%	542	218.1%
PANHANDLE BASIS SWAP FUTU	0	116	-100.0%	0	-
PERMIAN BASIS SWAP	0	0	-	0	-
PETROCHEMICALS	12,001	14,455	-17.0%	12,708	-5.6%
PETRO CRCKS & SPRDS ASIA	0	225	-100.0%	0	-
PETRO CRCKS & SPRDS NA	34,103	32,678	4.4%	37,007	-7.8%
PETRO CRK&SPRD EURO	2,153	2,263	-4.9%	2,581	-16.6%
PETROLEUM PRODUCTS	9,238	2,424	281.1%	8,856	4.3%
PETROLEUM PRODUCTS ASIA	949	860	10.3%	1,273	-25.5%
PETRO OUTRIGHT EURO	18,527	21,219	-12.7%	19,793	-6.4%
PETRO OUTRIGHT NA	4,087	3,927	4.1%	3,630	12.6%
PJM AD HUB 5MW REAL TIME	10,340	34,940	-70.4%	12,560	-17.7%
PJM DAILY	284	312	-9.0%	284	0.0%
PJM DAYTON DA OFF-PEAK	0	0	-	0	-
PJM DAYTON DA PEAK	0	0	-	0	-
PJM MONTHLY	0	0	-	0	-
PJM NI HUB 5MW REAL TIME	230	20,530	-98.9%	200	15.0%
PJM PECO ZONE5MW PEAK CAL	0	0	-	0	-
PJM PSEG DA OFF-PEAK	0	0	-	0	-
PJM PSEG DA PEAK	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2022	Open Interest JUL 2021	% CHG	Open Interest JUN 2022	% CHG
<b>Energy Futures</b>					
PJM WESTH DA OFF-PEAK	0	0	-	0	-
PJM WESTHDA PEAK	0	0	-	0	-
PJM WESTH RT OFF-PEAK	88,245	249,500	-64.6%	107,325	-17.8%
PJM WESTH RT PEAK	21,036	32,827	-35.9%	23,876	-11.9%
PLASTICS	3,940	1,803	118.5%	4,193	-6.0%
PREMIUM UNLD 10P FOB MED	90	5	1,700.0%	105	-14.3%
PROPANE NON-LDH MB (OPIS) B	1,140	465	145.2%	1,855	-38.5%
PROPANE NON-LDH MT. BEL (OF	38,921	54,167	-28.1%	40,426	-3.7%
RBOB CALENDAR SWAP	10,289	17,870	-42.4%	11,098	-7.3%
RBOB CRACK SPREAD	13,576	13,008	4.4%	15,459	-12.2%
RBOB CRACK SPREAD BALMO S	127	0	-	0	-
RBOB GAS	76	88	-13.6%	59	28.8%
RBOB GASOLINE BALMO CLNDR	794	411	93.2%	792	0.3%
RBOB PHY	259,385	342,141	-24.2%	276,396	-6.2%
RBOB VS HEATING OIL SWAP	315	495	-36.4%	375	-16.0%
SAN JUAN BASIS SWAP	0	0	-	0	-
SINGAPORE 180CST BALMO	0	0	-	0	-
SINGAPORE 380CST BALMO	0	0	-	0	-
SINGAPORE 380CST FUEL OIL	209	445	-53.0%	212	-1.4%
SINGAPORE FUEL 180CST CAL	0	0	-	0	-
SINGAPORE FUEL OIL 180 CS	0	0	-	0	-
SINGAPORE FUEL OIL SPREAD	30	0	-	30	0.0%
SINGAPORE GASOIL	1,270	1,200	5.8%	1,130	12.4%
SINGAPORE GASOIL CALENDAR	102	1,408	-92.8%	168	-39.3%
SINGAPORE GASOIL SWAP	940	3,927	-76.1%	998	-5.8%
SINGAPORE GASOIL VS ICE	3,930	3,936	-0.2%	4,290	-8.4%
SINGAPORE JET KERO BALMO	0	0	-	0	-
SINGAPORE JET KERO GASOIL	3,339	1,050	218.0%	3,494	-4.4%
SINGAPORE JET KEROSENE SW	0	570	-100.0%	0	-
SINGAPORE MOGAS 92 UNLEAD	0	10	-100.0%	600	-100.0%
SINGAPORE MOGAS 92 UNLEAD	0	1,025	-100.0%	400	-100.0%
Sumas Basis Swap	0	0	-	0	-
TC2 ROTTERDAM TO USAC 37K	90	15	500.0%	115	-21.7%
TC5 RAS TANURA TO YOKOHAM	270	90	200.0%	270	0.0%
TCO BASIS SWAP	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	3,345	5,541	-39.6%	3,645	-8.2%
TEXAS EASTERN ZONE M-3 BA	0	0	-	0	-
TRANSCO ZONE4 BASIS SWAP	0	0	-	0	-
UK NBP NAT GAS CAL MTH FUT	0	0	0.0%	0	-
ULSD UP-DOWN BALMO SWP	3,124	2,275	37.3%	3,420	-8.7%
UP DOWN GC ULSD VS NMX HO	26,836	55,288	-51.5%	31,808	-15.6%
WAHA BASIS	0	0	-	0	-
WTI-BRENT BULLET SWAP	0	0	-	0	-
WTI-BRENT CALENDAR SWAP	101,705	95,985	6.0%	104,771	-2.9%
WTI CALENDAR	156,164	158,747	-1.6%	167,221	-6.6%
WTI MIDLAND CRUDE OIL	0	780	-100.0%	0	-
WTS (ARGUS) VS WTI SWAP	23,949	51,296	-53.3%	26,654	-10.1%
WTS (ARGUS) VS WTI TRD MT	6,265	9,384	-33.2%	7,305	-14.2%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2022	Open Interest JUL 2021	% CHG	Open Interest JUN 2022	% CHG
<b>Energy Options</b>					
BRENT CALENDAR SWAP	2,766	3,229	-14.3%	2,974	-7.0%
BRENT CRUDE OIL 1 M CSO	600	47,900	-98.7%	2,200	-72.7%
BRENT OIL LAST DAY	93,760	177,977	-47.3%	113,631	-17.5%
COAL API2 INDEX	365	1,055	-65.4%	365	0.0%
CRUDE OIL	0	0	-	0	-
CRUDE OIL 1MO	139,193	339,015	-58.9%	166,158	-16.2%
CRUDE OIL APO	217,937	241,654	-9.8%	231,488	-5.9%
CRUDE OIL CALNDR STRIP	0	0	-	0	-
CRUDE OIL PHY	2,230,476	2,141,411	4.2%	2,191,283	1.8%
ELEC FINSETTLED	0	43	-100.0%	23	-100.0%
ETHANOL SWAP	4,915	6,416	-23.4%	6,379	-23.0%
FREIGHT MARKETS	30	0	-	30	0.0%
HEATING OIL CRK SPD AVG PRI	1,750	3,875	-54.8%	2,000	-12.5%
HEATING OIL PHY	14,536	12,756	14.0%	13,017	11.7%
HENRY HUB FINANCIAL LAST	27,572	38,333	-28.1%	31,344	-12.0%
HO 1 MONTH CLNDR OPTIONS	1,900	0	-	600	216.7%
LLS CRUDE OIL	2,700	400	575.0%	2,850	-5.3%
MCCLOSKEY ARA ARGS COAL	120	1,023	-88.3%	120	0.0%
MCCLOSKEY RCH BAY COAL	0	0	-	0	-
NATURAL GAS	5	0	-	0	-
NATURAL GAS 1 M CSO FIN	143,246	89,500	60.1%	104,175	37.5%
NATURAL GAS 2 M CSO FIN	0	5,800	-100.0%	2,350	-100.0%
NATURAL GAS 3 M CSO FIN	88,725	47,896	85.2%	85,600	3.7%
NATURAL GAS 5 M CSO FIN	0	2,000	-100.0%	0	-
NATURAL GAS 6 M CSO FIN	7,500	15,350	-51.1%	7,000	7.1%
NATURAL GAS OPT	2,675	71,170	-96.2%	4,525	-40.9%
NATURAL GAS OPTION ON CALE	7,784	42,184	-81.5%	7,784	0.0%
NATURAL GAS PHY	3,059,540	2,420,953	26.4%	3,231,736	-5.3%
NATURAL GAS SUMMER STRIP	0	0	-	0	-
NATURAL GAS WINTER STRIP	0	0	-	0	-
N ROCKIES PIPE SWAP	0	0	-	0	-
NY HARBOR HEAT OIL SWP	7,180	6,093	17.8%	7,023	2.2%
PETROCHEMICALS	4,790	6,339	-24.4%	5,346	-10.4%
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT NA	810	1,080	-25.0%	935	-13.4%
PJM WES HUB PEAK CAL MTH	180	850	-78.8%	180	0.0%
PJM WES HUB PEAK LMP 50MW	0	172	-100.0%	0	-
RBOB 1MO CAL SPD OPTIONS	500	0	-	1,500	-66.7%
RBOB CALENDAR SWAP	1,309	1,244	5.2%	1,534	-14.7%
RBOB PHY	5,591	17,585	-68.2%	5,373	4.1%
SAN JUAN PIPE SWAP	0	0	-	0	-
SHORT TERM	0	0	-	0	-
SHORT TERM NATURAL GAS	0	0	0.0%	0	0.0%
WTI-BRENT BULLET SWAP	197,210	200,465	-1.6%	188,955	4.4%
WTI CRUDE OIL 1 M CSO FI	163,755	147,850	10.8%	176,730	-7.3%

### FX Futures

AD/CD CROSS RATES	42	6	600.0%	37	13.5%
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## CME Group Exchange Open Interest Report - Monthly

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<b>FX Futures</b>					
AD/JY CROSS RATES	877	409	114.4%	373	135.1%
AD/NE CROSS RATES	6,658	87	7,552.9%	6,739	-1.2%
AUSTRALIAN DOLLAR	166,254	166,899	-0.4%	141,348	17.6%
BP/JY CROSS RATES	2,182	813	168.4%	2,241	-2.6%
BP/SF CROSS RATES	1,746	421	314.7%	1,433	21.8%
BRAZIL REAL	47,203	50,520	-6.6%	59,103	-20.1%
BRITISH POUND	227,256	184,205	23.4%	232,208	-2.1%
CANADIAN DOLLAR	146,218	171,630	-14.8%	138,048	5.9%
CD/JY CROSS RATES	2	201	-99.0%	2	0.0%
CHINESE RENMINBI (CNH)	4,999	3,538	41.3%	3,249	53.9%
CZECK KORUNA (EC)	0	0	-	1	-100.0%
CZECK KORUNA (US)	2	1	100.0%	2	0.0%
EC/AD CROSS RATES	2,178	2,813	-22.6%	2,363	-7.8%
EC/CD CROSS RATES	3,431	4,105	-16.4%	3,479	-1.4%
EC/NOK CROSS RATES	1,744	770	126.5%	644	170.8%
EC/SEK CROSS RATES	2,421	535	352.5%	1,530	58.2%
EFX/BP CROSS RATES	31,762	30,220	5.1%	34,560	-8.1%
EFX/JY CROSS RATES	19,237	27,747	-30.7%	18,436	4.3%
EFX/SF CROSS RATES	14,194	15,042	-5.6%	10,729	32.3%
E-MICRO USD/CAD	27	3	800.0%	21	28.6%
E-MICRO USD/CHF	35	0	-	21	66.7%
E-MICRO USD/JPY	252	0	-	151	66.9%
E-MINI EURO FX	13,573	18,137	-25.2%	12,791	6.1%
E-MINI JAPANESE YEN	1,273	727	75.1%	832	53.0%
EURO FX	679,641	671,453	1.2%	665,327	2.2%
HUNGARIAN FORINT (EC)	0	0	-	0	-
HUNGARIAN FORINT (US)	1	20	-95.0%	0	-
INDIAN RUPEE	1,581	1,708	-7.4%	2,107	-25.0%
JAPANESE YEN	231,375	192,933	19.9%	217,729	6.3%
KOREAN WON	91	1,208	-92.5%	115	-20.9%
MEXICAN PESO	198,773	158,201	25.6%	199,695	-0.5%
MICRO AUD/USD	4,345	4,558	-4.7%	4,768	-8.9%
MICRO CAD/USD	2,624	2,093	25.4%	2,223	18.0%
MICRO CHF/USD	1,909	1,740	9.7%	1,245	53.3%
MICRO EUR/USD	25,809	22,932	12.5%	23,280	10.9%
MICRO GBP/USD	3,072	2,693	14.1%	3,950	-22.2%
MICRO INR/USD	10	475	-97.9%	100	-90.0%
MICRO JPY/USD	0	2,389	-100.0%	0	-
MICRO USD/CNH	0	0	-	0	-
NEW ZEALND DOLLAR	43,458	42,243	2.9%	41,976	3.5%
NKR/USD CROSS RATE	804	1,682	-52.2%	742	8.4%
POLISH ZLOTY (EC)	102	130	-21.5%	105	-2.9%
POLISH ZLOTY (US)	409	466	-12.2%	416	-1.7%
RMB USD	10	1	900.0%	5	100.0%
RUSSIAN RUBLE	135	54,442	-99.8%	189	-28.6%
S.AFRICAN RAND	31,155	17,737	75.6%	31,344	-0.6%
SF/JY CROSS RATES	1,780	22	7,990.9%	1,041	71.0%
SHEKEL	16	1	1,500.0%	6	166.7%
SKR/USD CROSS RATES	2,326	1,416	64.3%	2,384	-2.4%
SWISS FRANC	45,010	43,676	3.1%	42,022	7.1%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2022	Open Interest JUL 2021	% CHG	Open Interest JUN 2022	% CHG
<b>FX Futures</b>					
TURKISH LIRA	55	30	83.3%	21	161.9%
USDZAR	4	0	-	4	0.0%
<b>FX Options</b>					
AUD/USD MONDAY OPTION WEE	13	90	-85.6%	0	-
AUD/USD MONDAY OPTION WEE	2	186	-98.9%	155	-98.7%
AUD/USD MONDAY OPTION WEE	1	148	-99.3%	86	-98.8%
AUD/USD MONDAY OPTION WEE	0	74	-100.0%	1	-100.0%
AUD/USD MONDAY OPTION WEE	0	0	-	0	-
AUD/USD MONTHLY OPTIONS	90,326	235,528	-61.6%	89,465	1.0%
AUD/USD WKLY FRIDAY OPTION	0	0	-	1,310	-100.0%
AUD/USD WKLY FRIDAY OPTION	536	771	-30.5%	0	-
AUD/USD WKLY FRIDAY OPTION	775	594	30.5%	346	124.0%
AUD/USD WKLY FRIDAY OPTION	653	714	-8.5%	492	32.7%
AUD/USD WKLY FRIDAY OPTION	0	0	0.0%	527	-100.0%
AUD/USD WKLY WED OPTIONS -	15	465	-96.8%	449	-96.7%
AUD/USD WKLY WED OPTIONS -	185	125	48.0%	209	-11.5%
AUD/USD WKLY WED OPTIONS -	51	1	5,000.0%	0	-
AUD/USD WKLY WED OPTIONS -	50	0	-	0	-
AUD/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
BRL/USD MONTHLY OPTIONS	202	436	-53.7%	120	68.3%
CAD/USD MONDAY OPTIONS WE	189	1,463	-87.1%	0	-
CAD/USD MONDAY OPTIONS WE	379	161	135.4%	602	-37.0%
CAD/USD MONDAY OPTIONS WE	5	154	-96.8%	343	-98.5%
CAD/USD MONDAY OPTIONS WE	0	0	-	1	-100.0%
CAD/USD MONDAY OPTIONS WE	0	0	-	0	-
CAD/USD MONTHLY OPTIONS	232,153	146,284	58.7%	207,731	11.8%
CAD/USD WKLY FRIDAY OPTION	0	0	-	1,782	-100.0%
CAD/USD WKLY FRIDAY OPTION	1,852	3,626	-48.9%	0	-
CAD/USD WKLY FRIDAY OPTION	1,604	2,126	-24.6%	2,568	-37.5%
CAD/USD WKLY FRIDAY OPTION	422	823	-48.7%	827	-49.0%
CAD/USD WKLY FRIDAY OPTION	0	0	0.0%	323	-100.0%
CAD/USD WKLY WED OPTIONS -	187	1,698	-89.0%	375	-50.1%
CAD/USD WKLY WED OPTIONS -	689	1,236	-44.3%	445	54.8%
CAD/USD WKLY WED OPTIONS -	2	131	-98.5%	0	-
CAD/USD WKLY WED OPTIONS -	0	0	-	0	-
CAD/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
CHF/USD MONTHLY OPTIONS	6,573	11,384	-42.3%	6,753	-2.7%
CHF/USD WKLY FRIDAY OPTION	0	0	-	14	-100.0%
CHF/USD WKLY FRIDAY OPTION	1	33	-97.0%	0	-
CHF/USD WKLY FRIDAY OPTION	350	0	-	11	3,081.8%
CHF/USD WKLY FRIDAY OPTION	0	6	-100.0%	100	-100.0%
CHF/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-
EUR/GBP MONTHLY OPTIONS	0	0	-	0	-
EUR/GBP WKLY FRIDAY OPTION	0	0	-	0	-
EUR/USD MONDAY OPTION WEE	1,094	7,855	-86.1%	40	2,635.0%
EUR/USD MONDAY OPTION WEE	20	618	-96.8%	812	-97.5%
EUR/USD MONDAY OPTION WEE	50	68	-26.5%	133	-62.4%
EUR/USD MONDAY OPTION WEE	18	246	-92.7%	164	-89.0%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2022	Open Interest JUL 2021	% CHG	Open Interest JUN 2022	% CHG
<b>FX Options</b>					
EUR/USD MONDAY OPTION WEE	0	0	-	0	-
EUR/USD MONTHLY OPTIONS	319,939	242,594	31.9%	269,159	18.9%
EUR/USD WKLY FRIDAY OPTION	0	0	-	9,639	-100.0%
EUR/USD WKLY FRIDAY OPTION	3,916	3,762	4.1%	0	-
EUR/USD WKLY FRIDAY OPTION	963	1,949	-50.6%	858	12.2%
EUR/USD WKLY FRIDAY OPTION	447	1,147	-61.0%	804	-44.4%
EUR/USD WKLY FRIDAY OPTION	0	0	0.0%	435	-100.0%
EUR/USD WKLY WED OPTIONS -	5,502	5,442	1.1%	3,128	75.9%
EUR/USD WKLY WED OPTIONS -	1,401	2,718	-48.5%	1,009	38.9%
EUR/USD WKLY WED OPTIONS -	2	101	-98.0%	87	-97.7%
EUR/USD WKLY WED OPTIONS -	0	0	-	0	-
EUR/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
GBP/USD MONDAY OPTION WEE	1,317	1,779	-26.0%	199	561.8%
GBP/USD MONDAY OPTION WEE	549	432	27.1%	444	23.6%
GBP/USD MONDAY OPTION WEE	0	4	-100.0%	269	-100.0%
GBP/USD MONDAY OPTION WEE	4	2	100.0%	106	-96.2%
GBP/USD MONDAY OPTION WEE	0	0	-	0	-
GBP/USD MONTHLY OPTIONS	100,174	85,016	17.8%	98,884	1.3%
GBP/USD WKLY FRIDAY OPTION	0	0	-	1,831	-100.0%
GBP/USD WKLY FRIDAY OPTION	1,710	2,473	-30.9%	0	-
GBP/USD WKLY FRIDAY OPTION	1,428	1,461	-2.3%	1,058	35.0%
GBP/USD WKLY FRIDAY OPTION	685	1,080	-36.6%	911	-24.8%
GBP/USD WKLY FRIDAY OPTION	0	0	0.0%	783	-100.0%
GBP/USD WKLY WED OPTIONS -	1,274	905	40.8%	293	334.8%
GBP/USD WKLY WED OPTIONS -	137	538	-74.5%	177	-22.6%
GBP/USD WKLY WED OPTIONS -	133	9	1,377.8%	39	241.0%
GBP/USD WKLY WED OPTIONS -	0	0	-	98	-100.0%
GBP/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
JPY/USD MONDAY OPTION WEE	715	564	26.8%	1	71,400.0%
JPY/USD MONDAY OPTION WEE	38	12	216.7%	403	-90.6%
JPY/USD MONDAY OPTION WEE	5	222	-97.7%	44	-88.6%
JPY/USD MONDAY OPTION WEE	0	0	-	604	-100.0%
JPY/USD MONDAY OPTION WEE	0	0	-	0	-
JPY/USD MONTHLY OPTIONS	189,559	93,225	103.3%	157,510	20.3%
JPY/USD WKLY FRIDAY OPTION	0	0	-	10,798	-100.0%
JPY/USD WKLY FRIDAY OPTION	2,723	1,222	122.8%	0	-
JPY/USD WKLY FRIDAY OPTION	750	1,732	-56.7%	1,703	-56.0%
JPY/USD WKLY FRIDAY OPTION	562	1,666	-66.3%	1,360	-58.7%
JPY/USD WKLY FRIDAY OPTION	0	0	0.0%	608	-100.0%
JPY/USD WKLY WED OPTIONS -	3,380	2,474	36.6%	3,461	-2.3%
JPY/USD WKLY WED OPTIONS -	1,183	1,402	-15.6%	907	30.4%
JPY/USD WKLY WED OPTIONS -	45	0	-	149	-69.8%
JPY/USD WKLY WED OPTIONS -	0	0	-	0	-
JPY/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
MXN/USD MONTHLY OPTIONS	3,319	1,329	149.7%	3,315	0.1%
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2022	Open Interest JUL 2021	% CHG	Open Interest JUN 2022	% CHG
<b>FX Options</b>					
NZD/USD MONTHLY OPTIONS	6,655	639	941.5%	6,652	0.0%
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
RUB/USD MONTHLY OPTIONS	0	0	-	0	-
<b>Foreign Exchange Futures</b>					
CHILEAN PESO	1	0	-	1	0.0%
<b>Foreign Exchange Options</b>					
AUD/USD WKLY WED OPTIONS -	1	0	-	0	-
<b>Ags Futures</b>					
FERTILIZER PRODUCS	3,719	5,224	-28.8%	3,546	4.9%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2022	Open Interest JUL 2021	% CHG	Open Interest JUN 2022	% CHG
<b>Ag Products Futures</b>					
BLOCK CHEESE	836	3,570	-76.6%	537	55.7%
BUTTER CS	10,876	8,943	21.6%	8,912	22.0%
CASH-SETTLED CHEESE	21,318	26,222	-18.7%	17,939	18.8%
CAT ASIA WEATHER	0	0	-	0	-
CATTLE	252,932	299,158	-15.5%	286,510	-11.7%
CAT WEATHER EUROPEAN	0	500	-100.0%	0	-
CDD SEASONAL STRIP	6,400	4,875	31.3%	6,400	0.0%
CDD WEATHER	9,750	2,700	261.1%	16,650	-41.4%
CHI WHEAT	309,976	359,960	-13.9%	290,317	6.8%
CLASS IV MILK	14,597	3,021	383.2%	12,274	18.9%
COFFEE	0	0	-	0	-
CORN	1,325,691	1,475,658	-10.2%	1,319,648	0.5%
COTTON	0	0	-	0	-
DJ_UBS ROLL SELECT INDEX FU	10,654	5,775	84.5%	12,202	-12.7%
DOW-UBS COMMOD INDEX	66,314	37,474	77.0%	65,506	1.2%
DRY WHEY	3,157	5,028	-37.2%	2,728	15.7%
FEEDER CATTLE	39,181	47,759	-18.0%	43,195	-9.3%
FERTILIZER PRODUCTS	0	0	-	0	-
GOLDMAN SACHS	1,582	1,731	-8.6%	1,761	-10.2%
GSCI EXCESS RETURN FUT	60,428	58,130	4.0%	60,428	0.0%
HDD EURO SEASONAL STRIP	1,250	0	-	0	-
HDD SEASONAL STRIP	0	0	-	0	-
HDD WEATHER	0	0	-	0	-
HDD WEATHER EUROPEAN	0	3,000	-100.0%	0	-
HOGS	216,986	277,847	-21.9%	185,945	16.7%
HOUSING INDEX	65	27	140.7%	64	1.6%
Intercommodity Spread	0	0	-	0	-
KC WHEAT	168,580	218,299	-22.8%	153,142	10.1%
LUMBER	2,149	2,248	-4.4%	2,335	-8.0%
MALAYSIAN PALM SWAP	0	28,720	-100.0%	0	-
MILK	32,621	27,958	16.7%	28,394	14.9%
MINI CORN	15,887	15,070	5.4%	15,360	3.4%
MINI SOYBEAN	26,795	24,743	8.3%	27,090	-1.1%
MINI WHEAT	3,176	3,523	-9.8%	2,346	35.4%
MLK MID OPTIONS	0	0	-	0	0.0%
NFD MILK	9,086	7,264	25.1%	7,822	16.2%
OATS	2,583	4,577	-43.6%	2,401	7.6%
PACIFIC RIM DAT SS WTHR	0	0	-	0	-
PORK CUTOUT	1,105	923	19.7%	1,320	-16.3%
ROUGH RICE	8,207	7,801	5.2%	8,338	-1.6%
SOYBEAN	578,190	659,450	-12.3%	641,609	-9.9%
SOYBEAN MEAL	398,628	354,589	12.4%	395,002	0.9%
SOYBEAN OIL	362,067	433,852	-16.5%	360,541	0.4%
S&P GSCI ENHANCED ER SWAP	0	1,001	-100.0%	0	-
SUGAR 11	0	0	-	0	-
USD CRUDE PALM OIL	49,899	10,867	359.2%	48,318	3.3%
WHEAT	2,721	31,635	-91.4%	2,721	0.0%

### Ag Products Options

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2022	Open Interest JUL 2021	% CHG	Open Interest JUN 2022	% CHG
<b>Ag Products Options</b>					
AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-
BLOCK CHEESE	2,107	1,201	75.4%	2,041	3.2%
BUTTER CS	7,833	10,750	-27.1%	6,704	16.8%
CASH-SETTLED CHEESE	35,369	27,089	30.6%	29,976	18.0%
CATTLE	214,220	171,991	24.6%	195,392	9.6%
CDD SEASONAL STRIP	20,000	8,450	136.7%	20,000	0.0%
CDD WEATHER	0	2,500	-100.0%	600	-100.0%
CHI WHEAT	355,570	244,883	45.2%	294,598	20.7%
CLASS IV MILK	34,397	17,163	100.4%	29,857	15.2%
CORN	1,807,097	1,626,613	11.1%	1,835,534	-1.5%
CORN NEARBY+2 CAL SPRD	15,242	29,114	-47.6%	6,609	130.6%
DEC-DEC CORN CAL SPRD	0	737	-100.0%	0	-
DEC-JULY CORN CAL SPRD	5,389	2,400	124.5%	5,204	3.6%
DEC-JULY WHEAT CAL SPRD	0	0	-	0	-
DRY WHEY	2,957	1,238	138.9%	2,622	12.8%
FEEDER CATTLE	46,417	26,369	76.0%	38,801	19.6%
HDD EURO SEASONAL STRIP	2,500	0	-	0	-
HDD SEASONAL STRIP	0	0	-	0	-
HDD WEATHER	0	0	-	0	-
HDD WEATHER EUROPEAN	0	0	-	0	-
HOGS	234,250	226,233	3.5%	221,698	5.7%
HOUSING INDEX	0	0	-	0	-
Intercommodity Spread	0	0	-	0	-
JAN-MAR SOYBEAN CSO	0	0	-	0	-
JULY-DEC CORN CAL SPRD	6,350	0	-	0	-
JULY-DEC SOYMEAL CAL SPRD	0	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	56,834	50,216	13.2%	51,949	9.4%
LUMBER	262	826	-68.3%	157	66.9%
LV CATL CSO	0	0	-	0	-
MAR-DEC CORN CAL SPRD	0	0	-	0	-
MAR-JULY CORN CAL SPRD	0	0	-	0	-
MAR-JULY SOYBEAN CAL SPRD	0	0	-	0	-
MAR-JULY WHEAT CAL SPRD	0	0	-	0	-
MILK	105,667	86,898	21.6%	79,915	32.2%
MLK MID OPTIONS	22	6	266.7%	22	0.0%
NFD MILK	12,605	15,137	-16.7%	9,858	27.9%
NOV-JULY SOYBEAN CAL SPRD	300	0	-	300	0.0%
NOV-MAR SOYBEAN CSO	0	0	-	0	-
NOV-NOV SOYBEAN CAL SPRD	0	0	-	0	-
OATS	539	728	-26.0%	450	19.8%
PORK CUTOFF	0	174	-100.0%	0	-
ROUGH RICE	3,284	1,777	84.8%	3,531	-7.0%
SOYBEAN	569,942	738,435	-22.8%	547,025	4.2%
SOYBEAN CRUSH	41	360	-88.6%	41	0.0%
SOYBEAN MEAL	151,273	144,825	4.5%	142,861	5.9%
SOYBEAN OIL	173,890	173,838	0.0%	142,054	22.4%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest JUL 2022	Open Interest JUL 2021	% CHG	Open Interest JUN 2022	% CHG
<b>Ag Products Options</b>					
SOYBN NEARBY+2 CAL SPRD	190	5,660	-96.6%	180	5.6%
SOYMEAL NEARBY+2 CAL SPRD	0	0	-	0	-
WHEAT	400	2,132	-81.2%	400	0.0%
WHEAT-CORN ICSD	2,000	550	263.6%	4,100	-51.2%
WHEAT NEARBY+2 CAL SPRD	4,863	1,719	182.9%	4,791	1.5%
<b>TOTAL FUTURES GROUP</b>					
Interest Rate Futures	32,221,395	27,977,908	15.2%	31,304,422	2.9%
Equity Index Futures	4,551,944	4,603,441	-1.1%	4,386,373	3.8%
Metals Futures	1,015,000	1,073,011	-5.4%	1,046,917	-3.0%
Energy Futures	6,083,325	7,978,758	-23.8%	6,231,008	-2.4%
FX Futures	1,968,061	1,903,078	3.4%	1,911,135	3.0%
Foreign Exchange Futures	1	0	-	1	0.0%
Ags Futures	3,719	5,224	-28.8%	3,546	4.9%
Ag Products Futures	4,013,687	4,453,898	-9.9%	4,027,755	-0.3%
<b>TOTAL FUTURES</b>	<b>49,857,132</b>	<b>47,995,318</b>	<b>3.9%</b>	<b>48,911,157</b>	<b>1.9%</b>
<b>TOTAL OPTIONS GROUP</b>					
Interest Rate Options	41,863,455	40,945,480	2.2%	40,928,251	2.3%
Equity Index Options	4,767,992	3,719,523	28.2%	4,515,121	5.6%
Metals Options	1,058,585	989,080	7.0%	984,814	7.5%
Energy Options	6,429,420	6,091,618	5.5%	6,595,208	-2.5%
FX Options	986,912	872,943	13.1%	893,910	10.4%
Foreign Exchange Options	1	0	-	0	-
Ag Products Options	3,871,810	3,620,012	7.0%	3,677,270	5.3%
<b>TOTAL OPTIONS</b>	<b>58,978,175</b>	<b>56,238,656</b>	<b>4.9%</b>	<b>57,594,574</b>	<b>2.4%</b>
<b>TOTAL COMBINED</b>					
Interest Rate	74,084,850	68,923,388	7.5%	72,232,673	2.6%
Equity Index	9,319,936	8,322,964	12.0%	8,901,494	4.7%
Metals	2,073,585	2,062,091	0.6%	2,031,731	2.1%
Energy	12,512,745	14,070,376	-11.1%	12,826,216	-2.4%
FX	2,954,973	2,776,021	6.4%	2,805,045	5.3%
Foreign Exchange	2	0	-	1	100.0%
Ags	3,719	5,224	-28.8%	3,546	4.9%
Ag Products	7,885,497	8,073,910	-2.3%	7,705,025	2.3%
<b>GRAND TOTAL</b>	<b>108,835,307</b>	<b>104,233,974</b>	<b>4.4%</b>	<b>106,505,731</b>	<b>2.2%</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.

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