



**CME Group Exchange Open Interest Report - Monthly**

Open Interest DEC 2022	Open Interest DEC 2021	% CHG	Open Interest NOV 2022	% CHG
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<b>Interest Rate Futures</b>					
ULTRA T-BOND	1,413,836	1,244,576	13.6%	1,447,608	-2.3%
<b>Interest Rate Options</b>					
10-YR NOTE	2,634,157	2,103,306	25.2%	2,198,014	19.8%
2-YR NOTE	64,088	39,781	61.1%	23,189	176.4%
30-YR BOND	384,387	427,757	-10.1%	355,488	8.1%
5-YR NOTE	881,685	936,425	-5.8%	869,958	1.3%
EURODOLLARS	10,055,360	18,616,814	-46.0%	17,018,625	-40.9%
EURO MIDCURVE	951,055	10,900,377	-91.3%	2,916,801	-67.4%
FED FUND	1	0	-	4,001	-100.0%
SOFR	16,577,318	2,622	632,139.4%	17,642,652	-6.0%
SOFR MIDCURVE	3,900,883	1	390,088,200.0%	4,215,198	-7.5%
Ultra 10-Year Note	440	0	-	25	1,660.0%
ULTRA T-BOND	952	535	77.9%	668	42.5%
<b>Equity Index Futures</b>					
BITCOIN	15,790	12,050	31.0%	16,402	-3.7%
DJ US REAL ESTATE SECTOR	49,943	46,534	7.3%	51,690	-3.4%
E-mini (\$5) Dow	76,262	98,932	-22.9%	79,187	-3.7%
E-mini FTSE China 50	20	20	0.0%	0	0.0%
E-MINI MIDCAP	42,365	37,703	12.4%	43,314	-2.2%
E-MINI NASDAQ 100	241,661	208,988	15.6%	256,803	-5.9%
E-MINI RUSSELL 1000	6,924	16,107	-57.0%	10,859	-36.2%
E-MINI RUSSELL 1000 GROWTH	3,118	3,830	-18.6%	3,462	-9.9%
E-MINI RUSSELL 1000 VALUE	19,753	22,596	-12.6%	19,076	3.5%
E-MINI RUSSELL 2000	445,587	466,935	-4.6%	483,060	-7.8%
E-MINI S&P500	2,014,429	2,301,346	-12.5%	2,345,292	-14.1%
E-MINI S&P500 ESG	11,064	12,410	-10.8%	14,775	-25.1%
ETHER	0	0	-	0	-
ETHER FUTURES	6,279	4,206	49.3%	5,125	22.5%
FT-SE 100	0	365	-100.0%	0	-
FTSE Emerging	0	0	-	0	-
IBOVESPA INDEX	16	16	0.0%	16	0.0%
MICRO BITCOIN	11,549	41,753	-72.3%	11,733	-1.6%
MICRO E-MINI NASDAQ 100	66,540	57,375	16.0%	121,214	-45.1%
MICRO E-MINI RUSSELL 2000	14,463	18,808	-23.1%	24,794	-41.7%
MICRO E-MINI S&P500	116,334	95,952	21.2%	217,108	-46.4%
MICRO ETHER	25,782	22,314	15.5%	19,300	33.6%
MICRO MINI \$5 DOW	20,737	14,962	38.6%	37,630	-44.9%
NASDAQ-100 VOLATILITY	95	0	-	9	955.6%
NASDAQ BIOTECH SECTOR	369	31	1,090.3%	259	42.5%
Nearby BTIC+	0	350	-100.0%	0	-
NIKKEI 225 (\$) STOCK	11,577	15,419	-24.9%	15,739	-26.4%
NIKKEI 225 (YEN) STOCK	36,820	41,674	-11.6%	48,409	-23.9%
PHLX SEMICONDUCTOR SECTO	119	0	-	237	-49.8%
S&P 500	319,918	226,423	41.3%	365,653	-12.5%
S&P 500 ANNUAL DIVIDEND IND	185,018	187,571	-1.4%	274,800	-32.7%

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<b>Equity Index Futures</b>					
S&P 500/GI	0	0	-	0	-
S&P 500 QUARLY DIVIDEND IND	17,037	11,587	47.0%	16,205	5.1%
S&P 600 SMALLCAP EMINI	0	0	-	0	-
S&P BIOTECHNOLOGY SECTOR	482	0	-	500	-3.6%
S&P COMMUNICATION SERVICE	1,706	2,005	-14.9%	3,503	-51.3%
S&P CONSUMER DISCRETIONAR	3,460	3,988	-13.2%	4,104	-15.7%
S&P CONSUMER STAPLES SECT	18,395	11,930	54.2%	16,544	11.2%
S&P ENERGY SECTOR	26,074	26,871	-3.0%	32,767	-20.4%
S&P FINANCIAL SECTOR	22,844	25,984	-12.1%	25,229	-9.5%
S&P HEALTH CARE SECTOR	12,189	19,813	-38.5%	15,297	-20.3%
S&P INDUSTRIAL SECTOR	13,295	7,668	73.4%	22,702	-41.4%
S&P MATERIALS SECTOR	5,995	9,169	-34.6%	7,644	-21.6%
S&P OIL & GAS EXPLORATION A	50	0	-	112	-55.4%
S&P REAL ESTATE SECTOR	10,793	7,627	41.5%	6,058	78.2%
S&P REGIONAL BANKS SECTOR	18	0	-	50	-64.0%
S&P RETAIL SECTOR	15	0	-	60	-75.0%
S&P TECHNOLOGY SECTOR	11,770	12,665	-7.1%	11,507	2.3%
S&P UTILITIES SECTOR	19,034	13,849	37.4%	17,977	5.9%
S&P VALUE INDEX FUTURES	0	0	-	0	-
TOPIX (USD)	0	0	-	1	-100.0%
TOPIX (YEN)	52	61	-14.8%	155	-66.5%
WATER INDEX FUTURES	4	8	-50.0%	1	300.0%
<b>Equity Index Options</b>					
BITCOIN OPTIONS	8,138	1,967	313.7%	6,263	29.9%
DJIA	0	0	-	0	0.0%
E-mini (\$5) Dow	511	893	-42.8%	2,079	-75.4%
E-MINI NASDAQ 100	120,572	108,637	11.0%	178,747	-32.5%
E-mini Russell 2000	22,088	33,179	-33.4%	13,455	64.2%
E-MINI RUSSELL 2000	5,120	15,267	-66.5%	25,345	-79.8%
E-mini S&P 500	2,163,362	2,073,237	4.3%	2,223,650	-2.7%
E-MINI S&P500	1,733,039	1,553,218	11.6%	2,747,699	-36.9%
EOM S&P 500	0	0	-	0	-
ETHER OPTIONS	684	0	-	409	67.2%
MICRO BITCOIN	3,239	0	-	2,920	10.9%
Micro E-mini Nasdaq-100	2,847	4,899	-41.9%	2,605	9.3%
MICRO E-MINI NASDAQ 100	1,171	1,485	-21.1%	3,466	-66.2%
Micro E-mini S&P 500	46,161	49,591	-6.9%	64,457	-28.4%
MICRO ETHER	50,749	0	-	54,039	-6.1%
S&P 500	0	0	-	0	-

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<b>Metals Futures</b>					
ALUMINUM	61,240	56,986	7.5%	60,821	0.7%
COBALT METAL FUTURES	12,773	1,454	778.5%	10,753	18.8%
COMEX COPPER	161,634	181,604	-11.0%	149,642	8.0%
COMEX E-Mini GOLD	1,204	1,558	-22.7%	1,126	6.9%
COMEX E-Mini SILVER	337	655	-48.5%	292	15.4%
COMEX GOLD	442,412	512,591	-13.7%	429,283	3.1%
COMEX MINY COPPER	297	362	-18.0%	303	-2.0%
COMEX SILVER	129,798	140,153	-7.4%	122,380	6.1%
COPPER	16,665	16,214	2.8%	14,795	12.6%
FERROUS PRODUCTS	8,011	3,968	101.9%	8,228	-2.6%
GOLD	1,006	1,057	-4.8%	1,025	-1.9%
HOT ROLLED COIL STEEL FUTU	7,125	2,035	250.1%	6,367	11.9%
IRON ORE 62 CHINA TSI FUTURE	0	0	-	0	-
IRON ORE CHINA	1,419	2,396	-40.8%	2,020	-29.8%
METALS	484	103	369.9%	361	34.1%
MICRO GOLD	20,190	19,798	2.0%	17,503	15.4%
NYMEX HOT ROLLED STEEL	21,916	37,983	-42.3%	25,197	-13.0%
NYMEX PLATINUM	67,817	58,559	15.8%	67,790	0.0%
PALLADIUM	8,314	9,224	-9.9%	7,568	9.9%
SILVER	5,650	6,102	-7.4%	7,872	-28.2%
URANIUM	800	800	0.0%	800	0.0%
<b>Metals Options</b>					
ALUMINUM	240	1,250	-80.8%	214	12.1%
COMEX COPPER	82,599	27,033	205.5%	71,740	15.1%
COMEX GOLD	566,610	688,162	-17.7%	572,864	-1.1%
COMEX SILVER	83,271	85,185	-2.2%	89,174	-6.6%
COPPER	1,214	0	0.0%	756	60.6%
GOLD	28,520	13,202	116.0%	29,824	-4.4%
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	100	508	-80.3%	200	-50.0%
NYMEX HOT ROLLED STEEL	5,550	2,415	129.8%	6,726	-17.5%
NYMEX PLATINUM	1,580	7,721	-79.5%	2,946	-46.4%
PALLADIUM	96	325	-70.5%	3	3,100.0%
SILVER	5,872	1,954	200.5%	4,776	22.9%
<b>Energy Futures</b>					
3.5% FUEL OIL CID MED SWA	0	0	-	0	-
AEP-DAYTON HUB DAILY	10	15	-33.3%	10	0.0%
ARGUS LLS VS. WTI (ARG) T	4,845	10,528	-54.0%	6,200	-21.9%
ARGUS PROPAN FAR EST INDE	5,765	5,080	13.5%	5,478	5.2%
ARGUS PROPAN(SAUDI ARAMC	1,849	1,598	15.7%	2,040	-9.4%
AUSTRIALIAN COKE COAL	0	0	-	0	-
BRENT BALMO SWAP	0	0	-	0	-

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<b>Energy Futures</b>					
BRENT CALENDAR SWAP	35,845	31,145	15.1%	36,409	-1.5%
BRENT FINANCIAL FUTURES	250	0	-	10	2,400.0%
BRENT OIL LAST DAY	146,131	219,175	-33.3%	155,569	-6.1%
CAR VINTAGE	24,943	9,432	164.5%	27,696	-9.9%
CHICAGO ETHANOL SWAP	22,820	34,272	-33.4%	25,765	-11.4%
CHICAGO ULSD PL VS HO SPR	1,107	389	184.6%	1,249	-11.4%
CHICAGO UNL GAS PL VS RBO	0	75	-100.0%	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 (	730	2,194	-66.7%	838	-12.9%
CONWAY NORMAL BUTANE (OPI	1,121	1,484	-24.5%	1,384	-19.0%
CONWAY PROPANE 5 DECIMALS	29,551	22,680	30.3%	29,147	1.4%
CRUDE OIL	0	8	-100.0%	0	-
CRUDE OIL LAST DAY	3,300	0	-	0	-
CRUDE OIL OUTRIGHTS	141,404	122,133	15.8%	140,628	0.6%
CRUDE OIL PHY	1,458,528	1,875,186	-22.2%	1,491,169	-2.2%
CRUDE OIL SPRDS	138,154	99,508	38.8%	135,351	2.1%
CRUDE OIL TRADE AT MARKER	0	0	0.0%	0	0.0%
DAILY PJM	7,200	6,328	13.8%	6,000	20.0%
DATED BRENT (PLATTS) DAILY S	0	0	-	0	-
DATED TO FRONTLINE BRENT	2,245	300	648.3%	2,270	-1.1%
DIESEL 10P BRG FOB RDM VS	0	0	-	0	-
DOMINION TRANSMISSION INC	0	0	-	0	-
DUBAI CRUDE OIL BALMO	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	0	0	-	500	-100.0%
DUTCH TTF NATURAL GAS CAL	3,043	9,768	-68.8%	3,255	-6.5%
EAST/WEST FUEL OIL SPREAD	0	0	-	0	-
EIA FLAT TAX ONHWAY DIESE	1,738	2,054	-15.4%	1,590	9.3%
ELEC FINSETTLED	0	0	-	0	-
ELECTRICITY OFF PEAK	0	0	-	0	-
EMMISSIONS	51	0	-	111	-54.1%
ETHANOL	0	0	-	0	-
ETHANOL SWAP	685	685	0.0%	505	35.6%
ETHANOL T2 FOB ROTT INCL DU	5,772	7,757	-25.6%	6,329	-8.8%
EURO 3.5% FUEL OIL RDAM B	0	0	-	0	-
EURO 3.5% FUEL OIL SPREAD	0	0	-	0	-
EURO GASOIL 10 CAL SWAP	3	0	-	3	0.0%
EURO GASOIL 10PPM VS ICE	401	1,503	-73.3%	442	-9.3%
EUROPE 1% FUEL OIL NWE CA	5	60	-91.7%	10	-50.0%
EUROPE 1% FUEL OIL RDAM C	0	0	-	0	-
EUROPE 3.5% FUEL OIL MED	0	0	-	0	-
EUROPE 3.5% FUEL OIL RDAM	99	246	-59.8%	110	-10.0%
EUROPEAN GASOIL (ICE)	1,572	2,084	-24.6%	1,593	-1.3%
EUROPEAN NAPHTHA BALMO	4	22	-81.8%	30	-86.7%
EUROPEAN NAPHTHA CRACK SP	2,676	6,638	-59.7%	3,417	-21.7%
EUROPE DATED BRENT SWAP	0	11	-100.0%	0	-
EUROPE JET KERO NWE CALSW	0	0	-	0	-

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<b>Energy Futures</b>					
EUROPE NAPHTHA CALSWAP	864	1,444	-40.2%	695	24.3%
EURO PROPANE CIF ARA SWA	3,129	2,902	7.8%	3,167	-1.2%
FREIGHT MARKETS	1,424	652	118.4%	1,543	-7.7%
FUEL OIL CRACK VS ICE	114	1,371	-91.7%	189	-39.7%
FUEL OIL NWE CRACK VS ICE	15	72	-79.2%	30	-50.0%
FUEL OIL (PLATS) CAR CM	0	0	-	0	-
FUELOIL SWAP:CARGOES VS.B	0	9	-100.0%	0	-
GAS EURO-BOB OXY NWE BARG	244	1,476	-83.5%	294	-17.0%
GAS EURO-BOB OXY NWE BARG	4,971	14,878	-66.6%	5,526	-10.0%
GASOIL 0.1CIF MED VS ICE	5	60	-91.7%	10	-50.0%
GASOIL 0.1 RDAM BRGS VS I	0	3	-100.0%	0	-
GASOIL 0.1 ROTTERDAM BARG	14	106	-86.8%	18	-22.2%
GASOIL 10PPM VS ICE SWAP	12	0	-	12	0.0%
GASOIL CALENDAR SWAP	131	635	-79.4%	140	-6.4%
GASOIL CRACK SPREAD CALEN	579	5,671	-89.8%	1,050	-44.9%
GASOIL MINI CALENDAR SWAP	420	1,125	-62.7%	476	-11.8%
GERMAN POWER BASELOAD CA	18	248	-92.7%	36	-50.0%
GROUP THREE UNLEAD GAS (P	0	0	-	0	-
GRP THREE ULSD(PLT)VS HEA	6,354	5,620	13.1%	5,739	10.7%
GRP THREE UNL GS (PLT) VS	3,395	4,411	-23.0%	2,370	43.2%
GULF COAST 3% FUEL OIL BA	10	0	-	0	-
GULF COAST JET FUEL CLNDR	0	0	-	0	-
GULF COAST JET VS NYM 2 H	8,669	19,109	-54.6%	8,160	6.2%
GULF COAST NO.6 FUEL OIL	17,739	13,599	30.4%	18,762	-5.5%
GULF COAST ULSD CALENDAR	1,790	1,966	-9.0%	1,581	13.2%
GULF COAST ULSD CRACK SPR	0	10	-100.0%	0	-
HEATING OIL BALMO CLNDR S	177	95	86.3%	20	785.0%
HEATING OIL CRCK SPRD BAL	0	0	-	0	-
HEATING OIL PHY	253,361	303,334	-16.5%	270,983	-6.5%
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	441,816	589,479	-25.0%	427,739	3.3%
HOUSTON SHIP CHANNEL BASI	0	0	-	0	-
HTG OIL	99	107	-7.5%	108	-8.3%
ICE BRENT DUBAI SWAP	345	2,175	-84.1%	580	-40.5%
ICE GASOIL BALMO SWAP	0	0	-	0	-
INDIANA MISO	0	0	-	0	-
INDONESIAN COAL ICI4	0	20	-100.0%	0	-
JAPAN C&F NAPHTHA CRACK S	2	6	-66.7%	4	-50.0%
JAPAN C&F NAPHTHA SWAP	352	207	70.0%	312	12.8%
JAPAN NAPHTHA BALMO SWAP	8	0	-	0	-
JET CIF NWE VS ICE	671	640	4.8%	655	2.4%
JET FUEL UP-DOWN BALMO CL	1,205	3,535	-65.9%	125	864.0%
JKM LNG Futures	1,076	2,093	-48.6%	1,141	-5.7%
LA CARB DIESEL (OPIS) SWA	205	450	-54.4%	311	-34.1%
LA CARBOB GASOLINE(OPIS)S	0	0	-	0	-
LA JET (OPIS) SWAP	775	1,260	-38.5%	75	933.3%
LLS (ARGUS) CALENDAR SWAP	0	0	-	0	-
LLS (ARGUS) VS WTI SWAP	1,631	3,299	-50.6%	1,598	2.1%

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<b>Energy Futures</b>					
LOS ANGELES CARB GASOLINE	0	0	-	0	-
LTD NAT GAS	379,835	477,243	-20.4%	360,363	5.4%
MARS (ARGUS) VS WTI SWAP	125	210	-40.5%	250	-50.0%
MARS (ARGUS) VS WTI TRD M	11,142	9,825	13.4%	11,759	-5.2%
MARS BLEND CRUDE OIL	0	0	-	0	-
MCCLOSKEY ARA ARGS COAL	7,567	16,846	-55.1%	8,108	-6.7%
MCCLOSKEY RCH BAY COAL	235	1,670	-85.9%	225	4.4%
MGN1 SWAP FUT	0	0	-	0	-
MICHIGAN BASIS	0	0	-	0	-
MINI GAS EUROBOB OXY NWE A	0	61	-100.0%	0	-
MINI RBOB V. EBOBARG NWE BF	0	0	-	0	-
MINI RBOB V. EBOB(ARGUS) NW	608	538	13.0%	340	78.8%
MINY HTG OIL	0	1	-100.0%	1	-100.0%
MINY NATURAL GAS	9,789	5,295	84.9%	6,932	41.2%
MINY RBOB GAS	0	1	-100.0%	1	-100.0%
MINY WTI CRUDE OIL	4,643	4,187	10.9%	7,233	-35.8%
MJC FUT	0	20	-100.0%	0	-
MNC FUT	2,332	2,388	-2.3%	2,265	3.0%
MONT BELVIEU ETHANE 5 DECI	43,620	48,042	-9.2%	45,580	-4.3%
MONT BELVIEU ETHANE OPIS B	730	2,785	-73.8%	1,176	-37.9%
MONT BELVIEU LDH PROPANE 5	145,524	128,709	13.1%	139,788	4.1%
MONT BELVIEU LDH PROPANE C	2,324	2,275	2.2%	2,184	6.4%
MONT BELVIEU NATURAL GASO	36,293	31,531	15.1%	35,640	1.8%
MONT BELVIEU NATURAL GASO	1,615	610	164.8%	2,163	-25.3%
MONT BELVIEU NORMAL BUTAN	51,783	48,703	6.3%	56,718	-8.7%
MONT BELVIEU NORMAL BUTAN	1,388	1,299	6.9%	1,497	-7.3%
NATURAL GAS	185,771	163,761	13.4%	186,607	-0.4%
NATURAL GAS PEN SWP	169,089	195,105	-13.3%	179,168	-5.6%
NATURAL GAS PHY	1,015,931	1,108,463	-8.3%	990,271	2.6%
NEPOOL INTR HUB 5MW D AH	0	8,703	-100.0%	0	-
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	0	308	-100.0%	0	-
NEW YORK ETHANOL SWAP	885	1,560	-43.3%	985	-10.2%
NEW YORK HUB ZONE G PEAK	275	635	-56.7%	800	-65.6%
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	0	30	-100.0%	0	-
NO 2 UP-DOWN SPREAD CALEN	0	0	-	0	-
NORTHWEST ROCKIES BASIS S	0	0	-	0	-
NY1% VS GC SPREAD SWAP	0	30	-100.0%	0	-
NY HARBOR 1% FUEL OIL BAL	0	0	-	0	-
NY HARBOR HEAT OIL SWP	9,716	9,507	2.2%	9,910	-2.0%
NY HARBOR LOW SULPUR GAS	50	685	-92.7%	100	-50.0%
NY HARBOR RESIDUAL FUEL 1	205	700	-70.7%	175	17.1%
NYH NO 2 CRACK SPREAD CAL	6,179	9,826	-37.1%	7,278	-15.1%
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	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
NYISO ZONE G 5MW D AH PK	0	5,850	-100.0%	0	0.0%
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	2,880	759	279.4%	3,364	-14.4%
PANHANDLE BASIS SWAP FUTU	0	0	-	0	-
PERMIAN BASIS SWAP	0	0	-	0	-
PETROCHEMICALS	10,852	15,137	-28.3%	11,326	-4.2%
PETRO CRCKS & SPRDS ASIA	0	50	-100.0%	0	-
PETRO CRCKS & SPRDS NA	23,638	33,103	-28.6%	21,443	10.2%
PETRO CRK&SPRD EURO	1,963	2,907	-32.5%	2,306	-14.9%
PETROLEUM PRODUCTS	9,917	4,329	129.1%	10,435	-5.0%
PETROLEUM PRODUCTS ASIA	779	1,111	-29.9%	995	-21.7%
PETRO OUTRIGHT EURO	14,313	22,481	-36.3%	15,264	-6.2%
PETRO OUTRIGHT NA	4,663	4,673	-0.2%	3,306	41.0%
PJM AD HUB 5MW REAL TIME	0	24,675	-100.0%	2,145	-100.0%
PJM DAILY	284	438	-35.2%	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	0	0	-	0	-
PJM PECO ZONE5MW PEAK CAL	0	0	-	0	-
PJM PSEG DA OFF-PEAK	0	0	-	0	-
PJM PSEG DA PEAK	0	0	-	0	-
PJM WESTH DA OFF-PEAK	0	0	-	0	-
PJM WESTHDA PEAK	0	0	-	0	-
PJM WESTH RT OFF-PEAK	0	210,600	-100.0%	18,360	-100.0%
PJM WESTH RT PEAK	16,002	42,052	-61.9%	8,824	81.3%
PLASTICS	4,064	3,671	10.7%	4,041	0.6%
PREMIUM UNLD 10P FOB MED	17	180	-90.6%	34	-50.0%
PROPANE NON-LDH MB (OPIS) B	1,575	1,570	0.3%	2,000	-21.3%
PROPANE NON-LDH MT. BEL (OF	39,497	46,357	-14.8%	37,868	4.3%
RBOB CALENDAR SWAP	13,531	14,132	-4.3%	17,558	-22.9%
RBOB CRACK SPREAD	6,016	13,086	-54.0%	8,032	-25.1%
RBOB CRACK SPREAD BALMO S	0	0	-	0	-
RBOB GAS	66	77	-14.3%	72	-8.3%
RBOB GASOLINE BALMO CLNDR	302	130	132.3%	9	3,255.6%
RBOB PHY	240,894	294,317	-18.2%	247,782	-2.8%
RBOB VS HEATING OIL SWAP	325	120	170.8%	350	-7.1%
SAN JUAN BASIS SWAP	0	0	-	0	-
SINGAPORE 180CST BALMO	0	0	-	1	-100.0%
SINGAPORE 380CST BALMO	0	0	-	0	-
SINGAPORE 380CST FUEL OIL	106	417	-74.6%	59	79.7%
SINGAPORE FUEL 180CST CAL	9	0	-	3	200.0%
SINGAPORE FUEL OIL 180 CS	0	4	-100.0%	0	-
SINGAPORE FUEL OIL SPREAD	102	0	-	102	0.0%
SINGAPORE GASOIL	588	1,491	-60.6%	471	24.8%
SINGAPORE GASOIL CALENDAR	101	717	-85.9%	131	-22.9%
SINGAPORE GASOIL SWAP	154	1,028	-85.0%	262	-41.2%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest DEC 2022	Open Interest DEC 2021	% CHG	Open Interest NOV 2022	% CHG
<b>Energy Futures</b>					
SINGAPORE GASOIL VS ICE	2,641	4,422	-40.3%	2,933	-10.0%
SINGAPORE JET KERO BALMO	0	0	-	0	-
SINGAPORE JET KERO GASOIL	2,305	2,649	-13.0%	2,504	-7.9%
SINGAPORE JET KEROSENE SW	0	940	-100.0%	0	-
SINGAPORE MOGAS 92 UNLEAD	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEAD	50	1,912	-97.4%	0	-
Sumas Basis Swap	0	0	-	0	-
TC2 ROTTERDAM TO USAC 37K	150	195	-23.1%	210	-28.6%
TC5 RAS TANURA TO YOKOHAM	153	315	-51.4%	186	-17.7%
TCO BASIS SWAP	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	2,040	3,528	-42.2%	2,350	-13.2%
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	-
ULSD UP-DOWN BALMO SWP	4,115	8,840	-53.5%	4,060	1.4%
UP DOWN GC ULSD VS NMX HO	24,924	50,611	-50.8%	24,155	3.2%
WAHA BASIS	0	0	-	0	-
WTI-BRENT BULLET SWAP	0	0	-	0	-
WTI-BRENT CALENDAR SWAP	108,235	99,683	8.6%	120,636	-10.3%
WTI CALENDAR	152,064	154,913	-1.8%	157,311	-3.3%
WTI MIDLAND CRUDE OIL	550	400	37.5%	600	-8.3%
WTS (ARGUS) VS WTI SWAP	17,907	39,632	-54.8%	20,577	-13.0%
WTS (ARGUS) VS WTI TRD MT	2,335	6,670	-65.0%	2,630	-11.2%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest DEC 2022	Open Interest DEC 2021	% CHG	Open Interest NOV 2022	% CHG
<b>Energy Options</b>					
BRENT CALENDAR SWAP	2,433	1,166	108.7%	1,650	47.5%
BRENT CRUDE OIL 1 M CSO	25,750	105,300	-75.5%	18,800	37.0%
BRENT OIL LAST DAY	50,240	113,793	-55.8%	55,553	-9.6%
COAL API2 INDEX	100	140	-28.6%	385	-74.0%
CRUDE OIL	0	0	-	0	-
CRUDE OIL 1MO	124,150	258,325	-51.9%	128,325	-3.3%
CRUDE OIL APO	145,802	269,401	-45.9%	155,367	-6.2%
CRUDE OIL CALNDR STRIP	0	0	-	0	-
CRUDE OIL OUTRIGHTS	0	0	-	0	0.0%
CRUDE OIL PHY	2,363,457	2,011,714	17.5%	2,231,235	5.9%
ELEC FINSETTLED	0	43	-100.0%	0	-
ETHANOL SWAP	2,418	10,417	-76.8%	3,571	-32.3%
FREIGHT MARKETS	0	0	-	20	-100.0%
HEATING OIL CRK SPD AVG PRI	0	3,450	-100.0%	750	-100.0%
HEATING OIL PHY	12,587	28,577	-56.0%	13,493	-6.7%
HENRY HUB FINANCIAL LAST	28,877	29,180	-1.0%	26,172	10.3%
HO 1 MONTH CLNDR OPTIONS	1,725	200	762.5%	600	187.5%
LLS CRUDE OIL	5,225	1,650	216.7%	5,700	-8.3%
MCCLOSKEY ARA ARGS COAL	20	402	-95.0%	20	0.0%
MCCLOSKEY RCH BAY COAL	0	0	-	0	-
NATURAL GAS	0	0	-	150	-100.0%
NATURAL GAS 1 M CSO FIN	99,667	153,807	-35.2%	95,875	4.0%
NATURAL GAS 2 M CSO FIN	0	0	-	0	-
NATURAL GAS 3 M CSO FIN	3,550	0	-	3,250	9.2%
NATURAL GAS 5 M CSO FIN	2,000	5,250	-61.9%	2,000	0.0%
NATURAL GAS 6 M CSO FIN	23,875	39,200	-39.1%	18,375	29.9%
NATURAL GAS OPT	1,000	23,970	-95.8%	1,000	0.0%
NATURAL GAS OPTION ON CALE	224	7,184	-96.9%	7,784	-97.1%
NATURAL GAS PHY	2,911,496	2,243,228	29.8%	2,913,219	-0.1%
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	7,669	7,075	8.4%	9,075	-15.5%
PETROCHEMICALS	3,895	9,231	-57.8%	3,517	10.7%
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT NA	185	1,250	-85.2%	310	-40.3%
PJM WES HUB PEAK CAL MTH	0	180	-100.0%	180	-100.0%
PJM WES HUB PEAK LMP 50MW	0	0	-	0	-
RBOB 1MO CAL SPD OPTIONS	0	0	-	0	-
RBOB CALENDAR SWAP	250	164	52.4%	324	-22.8%
RBOB PHY	3,475	7,223	-51.9%	4,772	-27.2%
SAN JUAN PIPE SWAP	0	0	-	0	-
SHORT TERM	0	0	-	0	-
SHORT TERM NATURAL GAS	0	0	-	0	-
WTI-BRENT BULLET SWAP	146,125	208,315	-29.9%	153,150	-4.6%
WTI CRUDE OIL 1 M CSO FI	150,425	36,300	314.4%	137,000	9.8%

### FX Futures

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest DEC 2022	Open Interest DEC 2021	% CHG	Open Interest NOV 2022	% CHG
<b>FX Futures</b>					
AD/CD CROSS RATES	36	22	63.6%	28	28.6%
AD/JY CROSS RATES	389	624	-37.7%	932	-58.3%
AD/NE CROSS RATES	3,654	106	3,347.2%	8,223	-55.6%
AUSTRALIAN DOLLAR	126,083	179,249	-29.7%	160,181	-21.3%
BP/JY CROSS RATES	1,706	1,029	65.8%	1,685	1.2%
BP/SF CROSS RATES	821	2,376	-65.4%	2,936	-72.0%
BRAZIL REAL	64,732	35,592	81.9%	34,221	89.2%
BRITISH POUND	201,881	202,002	-0.1%	226,793	-11.0%
CANADIAN DOLLAR	135,582	138,737	-2.3%	131,732	2.9%
CD/JY CROSS RATES	2	22	-90.9%	53	-96.2%
CHINESE RENMINBI (CNH)	8,937	3,018	196.1%	8,386	6.6%
CZECK KORUNA (EC)	0	0	-	0	-
CZECK KORUNA (US)	16	2	700.0%	20	-20.0%
EC/AD CROSS RATES	2,182	1,719	26.9%	2,668	-18.2%
EC/CD CROSS RATES	4,097	4,125	-0.7%	3,871	5.8%
EC/NOK CROSS RATES	559	402	39.1%	3,386	-83.5%
EC/SEK CROSS RATES	4,344	688	531.4%	1,527	184.5%
EFX/BP CROSS RATES	31,678	33,033	-4.1%	29,961	5.7%
EFX/JY CROSS RATES	19,822	26,984	-26.5%	19,544	1.4%
EFX/SF CROSS RATES	12,253	23,787	-48.5%	11,430	7.2%
E-MICRO USD/CAD	38	25	52.0%	36	5.6%
E-MICRO USD/CHF	15	1	1,400.0%	13	15.4%
E-MICRO USD/JPY	330	75	340.0%	118	179.7%
E-MINI EURO FX	12,180	17,155	-29.0%	13,916	-12.5%
E-MINI JAPANESE YEN	587	651	-9.8%	4,731	-87.6%
EURO FX	721,958	686,562	5.2%	698,974	3.3%
HUNGARIAN FORINT (EC)	3	0	-	1	200.0%
HUNGARIAN FORINT (US)	0	5	-100.0%	5	-100.0%
INDIAN RUPEE	1,242	1,813	-31.5%	1,222	1.6%
JAPANESE YEN	169,327	211,534	-20.0%	230,493	-26.5%
KOREAN WON	74	574	-87.1%	156	-52.6%
MEXICAN PESO	241,316	113,635	112.4%	305,563	-21.0%
MICRO AUD/USD	4,161	4,204	-1.0%	5,559	-25.1%
MICRO CAD/USD	2,432	2,301	5.7%	4,768	-49.0%
MICRO CHF/USD	1,564	1,170	33.7%	2,172	-28.0%
MICRO EUR/USD	14,533	27,367	-46.9%	26,323	-44.8%
MICRO GBP/USD	3,301	3,285	0.5%	5,978	-44.8%
MICRO INR/USD	20	26	-23.1%	25	-20.0%
MICRO JPY/USD	0	2,257	-100.0%	0	-
MICRO USD/CNH	0	0	-	0	-
NEW ZEALND DOLLAR	30,505	40,495	-24.7%	46,042	-33.7%
NKR/USD CROSS RATE	931	1,304	-28.6%	641	45.2%
POLISH ZLOTY (EC)	85	167	-49.1%	81	4.9%
POLISH ZLOTY (US)	572	573	-0.2%	637	-10.2%
RMB USD	1	0	-	0	-
RUSSIAN RUBLE	0	47,216	-100.0%	3	-100.0%
S.AFRICAN RAND	7,557	9,990	-24.4%	18,726	-59.6%
SF/JY CROSS RATES	747	27	2,666.7%	1,598	-53.3%
SHEKEL	14	2	600.0%	17	-17.6%
SKR/USD CROSS RATES	1,853	966	91.8%	2,622	-29.3%

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## CME Group Exchange Open Interest Report - Monthly

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<b>FX Futures</b>					
SWISS FRANC	31,943	41,411	-22.9%	39,879	-19.9%
TURKISH LIRA	57	40	42.5%	26	119.2%
USDZAR	0	0	-	0	-
<b>FX Options</b>					
AUD/USD MONDAY OPTION WEE	5	77	-93.5%	26	-80.8%
AUD/USD MONDAY OPTION WEE	61	2	2,950.0%	1	6,000.0%
AUD/USD MONDAY OPTION WEE	0	0	-	0	-
AUD/USD MONDAY OPTION WEE	6	0	-	0	-
AUD/USD MONDAY OPTION WEE	1	0	-	0	-
AUD/USD MONTHLY OPTIONS	31,909	168,619	-81.1%	62,024	-48.6%
AUD/USD WKLY FRIDAY OPTION	0	0	-	763	-100.0%
AUD/USD WKLY FRIDAY OPTION	991	1,096	-9.6%	0	-
AUD/USD WKLY FRIDAY OPTION	324	319	1.6%	605	-46.4%
AUD/USD WKLY FRIDAY OPTION	303	303	0.0%	323	-6.2%
AUD/USD WKLY FRIDAY OPTION	0	0	0.0%	252	-100.0%
AUD/USD WKLY WED OPTIONS -	7	296	-97.6%	14	-50.0%
AUD/USD WKLY WED OPTIONS -	0	2	-100.0%	316	-100.0%
AUD/USD WKLY WED OPTIONS -	2	5	-60.0%	5	-60.0%
AUD/USD WKLY WED OPTIONS -	0	47	-100.0%	0	-
AUD/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
BRL/USD MONTHLY OPTIONS	25	1	2,400.0%	235	-89.4%
CAD/USD MONDAY OPTIONS WE	1	802	-99.9%	856	-99.9%
CAD/USD MONDAY OPTIONS WE	99	8	1,137.5%	126	-21.4%
CAD/USD MONDAY OPTIONS WE	0	0	-	0	-
CAD/USD MONDAY OPTIONS WE	8	1	700.0%	0	-
CAD/USD MONTHLY OPTIONS	746	3	24,766.7%	0	-
CAD/USD MONTHLY OPTIONS	202,032	181,904	11.1%	214,745	-5.9%
CAD/USD WKLY FRIDAY OPTION	0	0	-	3,097	-100.0%
CAD/USD WKLY FRIDAY OPTION	1,074	414	159.4%	0	-
CAD/USD WKLY FRIDAY OPTION	325	308	5.5%	1,274	-74.5%
CAD/USD WKLY FRIDAY OPTION	212	447	-52.6%	260	-18.5%
CAD/USD WKLY FRIDAY OPTION	0	0	0.0%	4	-100.0%
CAD/USD WKLY WED OPTIONS -	399	1,374	-71.0%	707	-43.6%
CAD/USD WKLY WED OPTIONS -	149	282	-47.2%	229	-34.9%
CAD/USD WKLY WED OPTIONS -	151	1,300	-88.4%	10	1,410.0%
CAD/USD WKLY WED OPTIONS -	0	0	-	0	-
CAD/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
CHF/USD MONTHLY OPTIONS	7,237	28,745	-74.8%	13,131	-44.9%
CHF/USD WKLY FRIDAY OPTION	0	0	-	164	-100.0%
CHF/USD WKLY FRIDAY OPTION	162	256	-36.7%	0	-
CHF/USD WKLY FRIDAY OPTION	0	50	-100.0%	187	-100.0%
CHF/USD WKLY FRIDAY OPTION	2	30	-93.3%	139	-98.6%
CHF/USD WKLY FRIDAY OPTION	0	0	0.0%	83	-100.0%
EUR/GBP MONTHLY OPTIONS	100	0	-	0	-
EUR/GBP WKLY FRIDAY OPTION	0	0	-	0	-
EURODOLLARS	0	0	-	0	0.0%
EUR/USD MONDAY OPTION WEE	111	1,088	-89.8%	142	-21.8%
EUR/USD MONDAY OPTION WEE	798	24	3,225.0%	54	1,377.8%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest DEC 2022	Open Interest DEC 2021	% CHG	Open Interest NOV 2022	% CHG
<b>FX Options</b>					
EUR/USD MONDAY OPTION WEE	0	0	-	225	-100.0%
EUR/USD MONDAY OPTION WEE	859	229	275.1%	0	-
EUR/USD MONDAY OPTION WEE	668	51	1,209.8%	0	-
EUR/USD MONTHLY OPTIONS	323,477	183,753	76.0%	351,823	-8.1%
EUR/USD WKLY FRIDAY OPTION	0	0	-	11,400	-100.0%
EUR/USD WKLY FRIDAY OPTION	16,276	4,645	250.4%	0	-
EUR/USD WKLY FRIDAY OPTION	276	1,133	-75.6%	5,228	-94.7%
EUR/USD WKLY FRIDAY OPTION	239	1,255	-81.0%	1,151	-79.2%
EUR/USD WKLY FRIDAY OPTION	0	0	0.0%	7	-100.0%
EUR/USD WKLY WED OPTIONS -	3,427	1,765	94.2%	2,810	22.0%
EUR/USD WKLY WED OPTIONS -	2,210	1,089	102.9%	1,711	29.2%
EUR/USD WKLY WED OPTIONS -	726	0	-	311	133.4%
EUR/USD WKLY WED OPTIONS -	0	0	-	0	-
EUR/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
GBP/USD MONDAY OPTION WEE	237	1,099	-78.4%	0	0.0%
GBP/USD MONDAY OPTION WEE	664	12	5,433.3%	5	13,180.0%
GBP/USD MONDAY OPTION WEE	0	0	-	0	-
GBP/USD MONDAY OPTION WEE	448	3	14,833.3%	0	-
GBP/USD MONDAY OPTION WEE	205	0	-	0	-
GBP/USD MONTHLY OPTIONS	84,755	89,218	-5.0%	119,193	-28.9%
GBP/USD WKLY FRIDAY OPTION	0	0	-	1,342	-100.0%
GBP/USD WKLY FRIDAY OPTION	1,604	1,066	50.5%	0	-
GBP/USD WKLY FRIDAY OPTION	376	1,314	-71.4%	1,181	-68.2%
GBP/USD WKLY FRIDAY OPTION	354	525	-32.6%	599	-40.9%
GBP/USD WKLY FRIDAY OPTION	0	0	0.0%	492	-100.0%
GBP/USD WKLY WED OPTIONS -	389	1,650	-76.4%	436	-10.8%
GBP/USD WKLY WED OPTIONS -	172	101	70.3%	10	1,620.0%
GBP/USD WKLY WED OPTIONS -	0	338	-100.0%	2	-100.0%
GBP/USD WKLY WED OPTIONS -	0	107	-100.0%	0	-
GBP/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
JPY/USD MONDAY OPTION WEE	5	13	-61.5%	44	-88.6%
JPY/USD MONDAY OPTION WEE	129	1,250	-89.7%	510	-74.7%
JPY/USD MONDAY OPTION WEE	0	0	-	100	-100.0%
JPY/USD MONDAY OPTION WEE	29	2	1,350.0%	0	-
JPY/USD MONDAY OPTION WEE	15	1	1,400.0%	0	-
JPY/USD MONTHLY OPTIONS	86,970	87,404	-0.5%	134,418	-35.3%
JPY/USD WKLY FRIDAY OPTION	0	0	-	5,735	-100.0%
JPY/USD WKLY FRIDAY OPTION	2,396	2,730	-12.2%	0	-
JPY/USD WKLY FRIDAY OPTION	605	637	-5.0%	4,227	-85.7%
JPY/USD WKLY FRIDAY OPTION	388	572	-32.2%	410	-5.4%
JPY/USD WKLY FRIDAY OPTION	0	0	0.0%	21	-100.0%
JPY/USD WKLY WED OPTIONS -	5,805	2,156	169.2%	1,594	264.2%
JPY/USD WKLY WED OPTIONS -	1,523	141	980.1%	1,194	27.6%
JPY/USD WKLY WED OPTIONS -	130	326	-60.1%	0	-
JPY/USD WKLY WED OPTIONS -	0	0	-	0	-
JPY/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
MXN/USD MONTHLY OPTIONS	1,280	20,421	-93.7%	2,277	-43.8%
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	100	-100.0%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest DEC 2022	Open Interest DEC 2021	% CHG	Open Interest NOV 2022	% CHG
<b>FX Options</b>					
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD MONTHLY OPTIONS	7,006	34	20,505.9%	9,767	-28.3%
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	-
ZAR/USD MONTHLY OPTIONS	50	0	-	0	-
<b>Foreign Exchange Futures</b>					
CHILEAN PESO	0	0	-	0	-
<b>Foreign Exchange Options</b>					
AUD/USD WKLY WED OPTIONS -	2	0	-	5	-60.0%
OTC AUDUSD SUB	10	0	-	0	-
OTC EURUSD SUB	724	0	-	0	-
OTC GBPUSD SUB	41	0	-	0	-
OTC USDCAD SUB	11	0	-	0	-
OTC USDJPY SUB	8	0	-	0	-
<b>Ags Futures</b>					
FERTILIZER PRODUCTS	2,823	4,405	-35.9%	3,007	-6.1%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest DEC 2022	Open Interest DEC 2021	% CHG	Open Interest NOV 2022	% CHG
<b>Ag Products Futures</b>					
BLOCK CHEESE	746	2,793	-73.3%	819	-8.9%
BUTTER CS	9,725	9,840	-1.2%	9,896	-1.7%
CASH-SETTLED CHEESE	17,942	20,359	-11.9%	17,783	0.9%
CAT ASIA WEATHER	0	0	-	0	-
CATTLE	328,402	325,912	0.8%	293,182	12.0%
CAT WEATHER EUROPEAN	0	0	-	0	-
CDD SEASONAL STRIP	0	0	-	0	-
CDD WEATHER	0	0	-	0	-
CHI WHEAT	333,740	353,764	-5.7%	312,768	6.7%
CLASS IV MILK	10,051	13,214	-23.9%	11,981	-16.1%
COFFEE	0	0	-	0	-
CORN	1,215,498	1,512,771	-19.7%	1,219,163	-0.3%
COTTON	0	0	-	0	-
DJ_UBS ROLL SELECT INDEX FU	12,211	8,867	37.7%	11,140	9.6%
DOW-UBS COMMOD INDEX	56,013	40,396	38.7%	57,673	-2.9%
DRY WHEY	2,973	3,358	-11.5%	2,732	8.8%
FEEDER CATTLE	43,896	41,337	6.2%	49,320	-11.0%
FERTILIZER PRODUCTS	0	0	-	0	-
GOLDMAN SACHS	1,069	1,385	-22.8%	1,082	-1.2%
GSCI EXCESS RETURN FUT	44,434	57,146	-22.2%	48,307	-8.0%
HDD EURO SEASONAL STRIP	2,375	0	-	2,375	0.0%
HDD SEASONAL STRIP	3,900	500	680.0%	3,900	0.0%
HDD WEATHER	20,679	9,600	115.4%	12,575	64.4%
HDD WEATHER EUROPEAN	2,825	5,500	-48.6%	4,050	-30.2%
HOGS	187,529	217,236	-13.7%	192,554	-2.6%
HOUSING INDEX	64	30	113.3%	58	10.3%
Intercommodity Spread	0	0	-	0	-
KC WHEAT	152,655	221,613	-31.1%	143,450	6.4%
LUMBER	3,387	2,344	44.5%	2,967	14.2%
MALAYSIAN PALM SWAP	0	6,560	-100.0%	0	-
MILK	26,643	31,145	-14.5%	26,376	1.0%
MINI CORN	8,944	10,605	-15.7%	7,763	15.2%
MINI SOYBEAN	14,509	13,801	5.1%	15,402	-5.8%
MINI WHEAT	2,876	3,809	-24.5%	2,326	23.6%
MLK MID OPTIONS	0	0	-	1	-100.0%
NFD MILK	9,958	10,313	-3.4%	10,417	-4.4%
OATS	3,652	4,330	-15.7%	3,266	11.8%
PACIFIC RIM DAT SS WTHR	0	1,000	-100.0%	0	-
PORK CUTOUT	296	633	-53.2%	680	-56.5%
ROUGH RICE	7,325	7,469	-1.9%	8,474	-13.6%
SOYBEAN	590,430	631,627	-6.5%	642,175	-8.1%
SOYBEAN MEAL	400,618	384,529	4.2%	377,030	6.3%
SOYBEAN OIL	375,171	372,571	0.7%	447,056	-16.1%
S&P GSCI ENHANCED ER SWAP	0	1,001	-100.0%	0	-
SUGAR 11	0	0	-	0	-
USD CRUDE PALM OIL	45,733	45,021	1.6%	45,678	0.1%
WHEAT	1,400	22,192	-93.7%	1,300	7.7%

### Ag Products Options

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest DEC 2022	Open Interest DEC 2021	% CHG	Open Interest NOV 2022	% CHG
<b>Ag Products Options</b>					
AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-
BLOCK CHEESE	533	666	-20.0%	409	30.3%
BUTTER CS	6,686	9,274	-27.9%	4,920	35.9%
CASH-SETTLED CHEESE	31,949	19,564	63.3%	29,539	8.2%
CATTLE	239,438	166,336	43.9%	237,572	0.8%
CDD SEASONAL STRIP	0	0	-	0	-
CDD WEATHER	0	0	-	0	-
CHI WHEAT	227,949	243,244	-6.3%	223,809	1.8%
CLASS IV MILK	37,836	28,633	32.1%	35,808	5.7%
CORN	877,467	1,045,629	-16.1%	842,777	4.1%
CORN NEARBY+2 CAL SPRD	38,390	34,707	10.6%	38,197	0.5%
DEC-DEC CORN CAL SPRD	0	0	-	0	-
DEC-JULY CORN CAL SPRD	0	0	-	0	-
DEC-JULY WHEAT CAL SPRD	0	0	-	0	-
DRY WHEY	1,832	647	183.2%	1,810	1.2%
FEEDER CATTLE	39,599	27,946	41.7%	33,402	18.6%
HDD EURO SEASONAL STRIP	6,750	2,000	237.5%	6,750	0.0%
HDD SEASONAL STRIP	4,000	23,920	-83.3%	4,000	0.0%
HDD WEATHER	13,100	0	-	8,100	61.7%
HDD WEATHER EUROPEAN	1,000	5,000	-80.0%	1,000	0.0%
HOGS	214,635	187,476	14.5%	243,532	-11.9%
HOUSING INDEX	0	0	-	0	-
Intercommodity Spread	0	0	-	0	-
JAN-MAR SOYBEAN CSO	0	0	-	0	-
JAN-MAY SOYBEAN CAL SPRD	0	0	-	300	-100.0%
JULY-DEC CORN CAL SPRD	18,196	10,643	71.0%	17,954	1.3%
JULY-DEC SOYMEAL CAL SPRD	0	0	-	0	-
JULY-DEC SOY OIL CAL SPRD	500	0	-	0	-
JULY-DEC WHEAT CAL SPRD	0	0	-	0	-
JULY-JULY WHEAT CAL SPRD	0	0	-	0	-
JULY-NOV SOYBEAN CAL SPRD	7,072	5,825	21.4%	7,258	-2.6%
KC WHEAT	39,578	79,501	-50.2%	37,649	5.1%
LUMBER	10	337	-97.0%	138	-92.8%
LV CATL CSO	0	0	-	0	-
MAR-DEC CORN CAL SPRD	0	0	-	0	-
MAR-JULY CORN CAL SPRD	20,830	4,790	334.9%	22,470	-7.3%
MAR-JULY SOYBEAN CAL SPRD	500	0	-	650	-23.1%
MAR-JULY WHEAT CAL SPRD	0	900	-100.0%	0	-
MILK	110,760	100,447	10.3%	99,995	10.8%
MLK MID OPTIONS	7	17	-58.8%	6	16.7%
NFD MILK	13,183	11,651	13.1%	11,926	10.5%
NOV-JULY SOYBEAN CAL SPRD	0	0	-	0	-
NOV-MAR SOYBEAN CSO	0	0	-	0	-
NOV-NOV SOYBEAN CAL SPRD	0	0	-	0	-
OATS	135	577	-76.6%	76	77.6%
PORK CUTOUT	0	0	-	10	-100.0%
ROUGH RICE	1,964	810	142.5%	1,803	8.9%
SEP-DEC SOYBEAN MEAL CSO	0	0	-	0	-
SOYBEAN	378,946	411,054	-7.8%	365,030	3.8%
SOYBEAN CRUSH	35	241	-85.5%	35	0.0%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Ag Products Options</b>					
SOYBEAN MEAL	123,947	113,944	8.8%	92,151	34.5%
SOYBEAN OIL	102,809	133,183	-22.8%	123,117	-16.5%
SOYBN NEARBY+2 CAL SPRD	0	0	-	5,195	-100.0%
SOYMEAL NEARBY+2 CAL SPRD	0	0	-	0	-
SOY OIL NEARBY+2 CAL SPRD	0	0	-	0	-
WHEAT	76	328	-76.8%	172	-55.8%
WHEAT-CORN ICSSO	20	20	0.0%	20	0.0%
WHEAT NEARBY+2 CAL SPRD	1,167	501	132.9%	750	55.6%
<b>TOTAL FUTURES GROUP</b>					
Interest Rate Futures	31,031,380	28,478,948	9.0%	32,495,842	-4.5%
Equity Index Futures	3,905,745	4,107,895	-4.9%	4,646,362	-15.9%
Metals Futures	969,092	1,053,602	-8.0%	934,126	3.7%
Energy Futures	5,591,228	6,856,149	-18.4%	5,651,053	-1.1%
FX Futures	1,866,120	1,868,348	-0.1%	2,057,902	-9.3%
Foreign Exchange Futures	0	0	-	0	-
Ags Futures	2,823	4,405	-35.9%	3,007	-6.1%
Ag Products Futures	3,937,669	4,394,571	-10.4%	3,985,719	-1.2%
<b>TOTAL FUTURES</b>	<b>47,304,057</b>	<b>46,763,918</b>	<b>1.2%</b>	<b>49,774,011</b>	<b>-5.0%</b>
<b>TOTAL OPTIONS GROUP</b>					
Interest Rate Options	35,450,326	33,027,618	7.3%	45,244,619	-21.6%
Equity Index Options	4,157,681	3,842,373	8.2%	5,325,134	-21.9%
Metals Options	775,652	827,755	-6.3%	779,223	-0.5%
Energy Options	6,116,620	5,576,135	9.7%	5,991,622	2.1%
FX Options	790,933	792,843	-0.2%	958,095	-17.4%
Foreign Exchange Options	796	0	-	5	15,820.0%
Ag Products Options	2,560,899	2,669,811	-4.1%	2,498,330	2.5%
<b>TOTAL OPTIONS</b>	<b>49,852,907</b>	<b>46,736,535</b>	<b>6.7%</b>	<b>60,797,028</b>	<b>-18.0%</b>
<b>TOTAL COMBINED</b>					
Interest Rate	66,481,706	61,506,566	8.1%	77,740,461	-14.5%
Equity Index	8,063,426	7,950,268	1.4%	9,971,496	-19.1%
Metals	1,744,744	1,881,357	-7.3%	1,713,349	1.8%
Energy	11,707,848	12,432,284	-5.8%	11,642,675	0.6%
FX	2,657,053	2,661,191	-0.2%	3,015,997	-11.9%
Foreign Exchange	796	0	-	5	15,820.0%
Ags	2,823	4,405	-35.9%	3,007	-6.1%
Ag Products	6,498,568	7,064,382	-8.0%	6,484,049	0.2%
<b>GRAND TOTAL</b>	<b>97,156,964</b>	<b>93,500,453</b>	<b>3.9%</b>	<b>110,571,039</b>	<b>-12.1%</b>

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