



## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2022	Open Interest NOV 2021	% CHG	Open Interest OCT 2022	% CHG
<b>Interest Rate Futures</b>					
10-YR Eris LIBOR	65,968	80,890	-18.4%	65,055	1.4%
10-YR Eris SOFR	1,770	100	1,670.0%	2,031	-12.9%
10-YR MAC LIBOR	15,847	195,024	-91.9%	16,286	-2.7%
10-YR MAC SOFR	0	0	-	0	-
10-YR NOTE	3,826,839	3,803,125	0.6%	3,972,150	-3.7%
10Y YIELD	2,167	2,253	-3.8%	3,380	-35.9%
15-YR Eris LIBOR	0	10,850	-100.0%	0	-
1-MONTH EURODOLLAR	6,004	2	300,100.0%	12,000	-50.0%
1-YR Eris BSBY	0	0	-	0	-
1-YR Eris SOFR	15,417	5,501	180.3%	14,327	7.6%
20-YR BOND	609	0	-	694	-12.2%
20-YR SWAP RATE	0	90	-100.0%	0	-
2-YR Eris LIBOR	86,958	110,691	-21.4%	87,277	-0.4%
2-YR Eris SOFR	8,483	4,001	112.0%	5,617	51.0%
2-YR NOTE	2,120,649	1,789,196	18.5%	2,237,420	-5.2%
2Y YIELD	1,007	280	259.6%	1,071	-6.0%
30-Year UMBS TBA Futures - 2.5%	11	0	-	0	-
30-Year UMBS TBA Futures - 3.0%	11	0	-	0	-
30-Year UMBS TBA Futures - 3.5%	135	0	-	0	-
30-Year UMBS TBA Futures - 4.0%	25	0	-	0	-
30-Year UMBS TBA Futures - 4.5%	44	0	-	0	-
30-Year UMBS TBA Futures - 5.0%	49	0	-	0	-
30-YR BOND	1,199,701	1,219,181	-1.6%	1,211,620	-1.0%
30-YR Eris LIBOR	2,273	2,909	-21.9%	2,273	0.0%
30-YR SWAP RATE	0	6,224	-100.0%	0	-
30Y YIELD	535	322	66.1%	590	-9.3%
3-YR Eris BSBY	0	0	-	0	-
3-YR Eris LIBOR	29,418	66,692	-55.9%	29,021	1.4%
3-YR Eris SOFR	12,154	1,182	928.3%	13,387	-9.2%
3-YR NOTE	5,522	24,853	-77.8%	9,202	-40.0%
4-YR Eris LIBOR	7,785	11,622	-33.0%	7,518	3.6%
4-YR Eris SOFR	2,869	275	943.3%	1,844	55.6%
5-YR Eris LIBOR	16,071	90,104	-82.2%	17,048	-5.7%
5-YR Eris SOFR	3,079	851	261.8%	2,311	33.2%
5-YR MAC LIBOR	8,196	79,795	-89.7%	9,016	-9.1%
5-YR NOTE	4,298,378	3,486,538	23.3%	4,125,183	4.2%
5Y YIELD	110	342	-67.8%	112	-1.8%
7-YR Eris LIBOR	20,395	21,598	-5.6%	20,302	0.5%
7-YR Eris SOFR	916	0	-	1,224	-25.2%
BSBY 3-MONTH FUTURES	15,046	12,381	21.5%	13,316	13.0%
ESTR Basis Spread Futures	328	0	-	9	3,544.4%
ESTR Futures	469	0	-	9	5,111.1%
EURODOLLARS	7,255,847	12,207,541	-40.6%	7,929,580	-8.5%
FED FUND	1,646,700	1,426,038	15.5%	1,720,269	-4.3%
SOFR	8,967,624	1,607,184	458.0%	8,096,473	10.8%
SONIA	7,073	10,999	-35.7%	7,073	0.0%
TIIE	91	120	-24.2%	116	-21.6%
Ultra 10-Year Note	1,395,661	1,428,740	-2.3%	1,402,316	-0.5%
ULTRA T-BOND	1,447,608	1,242,681	16.5%	1,453,774	-0.4%

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<b>Interest Rate Options</b>					
10-YR NOTE	2,198,014	2,377,980	-7.6%	2,528,808	-13.1%
2-YR NOTE	23,189	10,002	131.8%	152,573	-84.8%
30-YR BOND	355,488	557,563	-36.2%	584,681	-39.2%
5-YR NOTE	869,958	915,912	-5.0%	1,201,029	-27.6%
EURODOLLARS	17,018,625	19,130,842	-11.0%	18,140,050	-6.2%
EURO MIDCURVE	2,916,801	16,944,028	-82.8%	3,206,246	-9.0%
FED FUND	4,001	0	-	4,001	0.0%
SOFR	17,642,652	2,891	610,161.2%	13,851,146	27.4%
SOFR MIDCURVE	4,215,198	10	42,151,880.0%	3,906,868	7.9%
Ultra 10-Year Note	25	0	-	50	-50.0%
ULTRA T-BOND	668	448	49.1%	1,297	-48.5%
<b>Equity Index Futures</b>					
BITCOIN	16,402	13,197	24.3%	13,163	24.6%
DJ US REAL ESTATE SECTOR	51,690	39,791	29.9%	49,566	4.3%
E-mini (\$5) Dow	79,187	101,603	-22.1%	76,166	4.0%
E-mini FTSE China 50	0	3	-100.0%	0	0.0%
E-MINI MIDCAP	43,314	40,778	6.2%	48,562	-10.8%
E-MINI NASDAQ 100	256,803	258,476	-0.6%	283,319	-9.4%
E-MINI RUSSELL 1000	10,859	17,133	-36.6%	10,857	0.0%
E-MINI RUSSELL 1000 GROWTH	3,462	3,234	7.1%	6,565	-47.3%
E-MINI RUSSELL 1000 VALUE	19,076	27,065	-29.5%	15,877	20.1%
E-MINI RUSSELL 2000	483,060	469,680	2.8%	516,019	-6.4%
E-MINI S&P500	2,345,292	2,510,714	-6.6%	2,353,982	-0.4%
E-MINI S&P500 ESG	14,775	13,107	12.7%	14,574	1.4%
ETHER	0	0	-	0	-
ETHER FUTURES	5,125	4,981	2.9%	4,416	16.1%
FT-SE 100	0	366	-100.0%	0	-
FTSE Emerging	0	0	-	0	-
IBOVESPA INDEX	16	32	-50.0%	17	-5.9%
MICRO BITCOIN	11,733	16,817	-30.2%	26,326	-55.4%
MICRO E-MINI NASDAQ 100	121,214	130,883	-7.4%	132,854	-8.8%
MICRO E-MINI RUSSELL 2000	24,794	51,408	-51.8%	24,582	0.9%
MICRO E-MINI S&P500	217,108	191,030	13.7%	172,083	26.2%
MICRO ETHER	19,300	0	-	51,055	-62.2%
MICRO MINI \$5 DOW	37,630	34,151	10.2%	29,636	27.0%
NASDAQ-100 VOLATILITY	9	0	-	21	-57.1%
NASDAQ BIOTECH SECTOR	259	273	-5.1%	223	16.1%
Nearby BTIC+	0	0	-	0	0.0%
NIKKEI 225 (\$) STOCK	15,739	17,463	-9.9%	12,969	21.4%
NIKKEI 225 (YEN) STOCK	48,410	52,198	-7.3%	50,717	-4.5%
PHLX SEMICONDUCTOR SECTO	237	0	-	255	-7.1%
S&P 500	365,653	256,916	42.3%	353,200	3.5%
S&P 500 ANNUAL DIVIDEND IND	274,800	234,974	16.9%	270,946	1.4%
S&P 500/GI	0	0	-	0	-
S&P 500 QUARLY DIVIDEND IND	16,205	14,926	8.6%	12,142	33.5%
S&P 600 SMALLCAP EMINI	0	0	-	0	-
S&P BIOTECHNOLOGY SECTOR	500	0	-	134	273.1%

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<b>Equity Index Futures</b>					
S&P COMMUNICATION SERVICE	3,503	3,853	-9.1%	2,926	19.7%
S&P CONSUMER DISCRETIONAR	4,104	3,396	20.8%	4,414	-7.0%
S&P CONSUMER STAPLES SECT	16,544	24,864	-33.5%	14,149	16.9%
S&P ENERGY SECTOR	32,767	31,935	2.6%	31,461	4.2%
S&P FINANCIAL SECTOR	25,229	32,958	-23.5%	24,793	1.8%
S&P HEALTH CARE SECTOR	15,297	24,928	-38.6%	13,883	10.2%
S&P INDUSTRIAL SECTOR	22,702	14,897	52.4%	13,299	70.7%
S&P MATERIALS SECTOR	7,644	15,498	-50.7%	7,059	8.3%
S&P OIL & GAS EXPLORATION A	112	0	-	71	57.7%
S&P REAL ESTATE SECTOR	6,058	6,401	-5.4%	5,761	5.2%
S&P REGIONAL BANKS SECTOR	50	0	-	145	-65.5%
S&P RETAIL SECTOR	60	0	-	59	1.7%
S&P TECHNOLOGY SECTOR	11,507	13,815	-16.7%	10,746	7.1%
S&P UTILITIES SECTOR	17,977	22,701	-20.8%	12,375	45.3%
S&P VALUE INDEX FUTURES	0	380	-100.0%	0	-
WATER INDEX FUTURES	1	1	0.0%	0	-
YEN DENOMINATED TOPIX	155	245	-36.7%	123	26.0%
<b>Equity Index Options</b>					
BITCOIN OPTIONS	6,263	971	545.0%	3,724	68.2%
DJIA	0	0	-	0	0.0%
E-mini (\$5) Dow	2,079	2,947	-29.5%	1,383	50.3%
E-MINI NASDAQ 100	178,747	179,852	-0.6%	178,440	0.2%
E-mini Russell 2000	13,455	25,424	-47.1%	26,511	-49.2%
E-MINI RUSSELL 2000	25,345	40,989	-38.2%	19,441	30.4%
E-mini S&P 500	2,223,650	1,805,138	23.2%	2,390,827	-7.0%
E-MINI S&P500	2,747,699	2,457,773	11.8%	2,425,857	13.3%
EOM S&P 500	0	0	-	0	-
ETHER OPTIONS	409	0	-	354	15.5%
MICRO BITCOIN	2,920	0	-	4,044	-27.8%
Micro E-mini Nasdaq-100	2,605	3,846	-32.3%	2,832	-8.0%
MICRO E-MINI NASDAQ 100	3,466	3,622	-4.3%	2,516	37.8%
Micro E-mini S&P 500	64,457	72,457	-11.0%	52,402	23.0%
MICRO ETHER	54,039	0	-	74,959	-27.9%
S&P 500	0	0	-	0	-

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<b>Metals Futures</b>					
ALUMINUM	60,821	53,265	14.2%	62,287	-2.4%
COBALT METAL FUTURES	10,753	1,730	521.6%	8,258	30.2%
COMEX COPPER	149,642	184,214	-18.8%	180,740	-17.2%
COMEX E-Mini GOLD	1,126	1,410	-20.1%	1,937	-41.9%
COMEX E-Mini SILVER	292	473	-38.3%	413	-29.3%
COMEX GOLD	429,283	531,868	-19.3%	464,625	-7.6%
COMEX MINY COPPER	303	351	-13.7%	483	-37.3%
COMEX SILVER	122,380	138,003	-11.3%	139,157	-12.1%
COPPER	14,795	17,244	-14.2%	15,763	-6.1%
FERROUS PRODUCTS	8,228	4,106	100.4%	6,986	17.8%
GOLD	1,025	1,225	-16.3%	1,059	-3.2%
HOT ROLLED COIL STEEL FUTU	6,367	1,938	228.5%	6,137	3.7%
IRON ORE 62 CHINA TSI FUTURE	0	0	-	0	-
IRON ORE CHINA	2,020	2,409	-16.1%	2,570	-21.4%
METALS	361	100	261.0%	270	33.7%
MICRO GOLD	17,503	21,198	-17.4%	23,785	-26.4%
NYMEX HOT ROLLED STEEL	25,197	37,391	-32.6%	22,388	12.5%
NYMEX PLATINUM	67,790	62,385	8.7%	56,940	19.1%
PALLADIUM	7,568	9,621	-21.3%	8,374	-9.6%
SILVER	7,872	5,973	31.8%	6,240	26.2%
URANIUM	800	800	0.0%	800	0.0%
<b>Metals Options</b>					
ALUMINUM	214	1,450	-85.2%	309	-30.7%
COMEX COPPER	71,740	45,734	56.9%	79,313	-9.5%
COMEX GOLD	572,864	690,834	-17.1%	791,784	-27.6%
COMEX SILVER	89,174	80,102	11.3%	129,245	-31.0%
COPPER	756	1	75,500.0%	765	-1.2%
GOLD	29,824	38,616	-22.8%	27,467	8.6%
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	200	626	-68.1%	300	-33.3%
NYMEX HOT ROLLED STEEL	6,726	1,985	238.8%	4,971	35.3%
NYMEX PLATINUM	2,946	15,215	-80.6%	2,519	17.0%
PALLADIUM	3	221	-98.6%	6	-50.0%
SILVER	4,776	3,734	27.9%	3,383	41.2%
<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	6,200	11,876	-47.8%	8,085	-23.3%
ARGUS PROPAN FAR EST INDE	5,478	5,764	-5.0%	5,299	3.4%
ARGUS PROPAN(SAUDI ARAMC	2,040	1,658	23.0%	1,802	13.2%
AUSTRIALIAN COKE COAL	0	0	-	0	-
BRENT BALMO SWAP	0	0	-	0	-

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<b>Energy Futures</b>					
BRENT CALENDAR SWAP	36,409	16,874	115.8%	39,111	-6.9%
BRENT FINANCIAL FUTURES	10	0	-	10	0.0%
BRENT OIL LAST DAY	155,569	217,781	-28.6%	162,859	-4.5%
CAR VINTAGE	27,696	13,603	103.6%	21,358	29.7%
CHICAGO ETHANOL SWAP	25,765	39,090	-34.1%	27,333	-5.7%
CHICAGO ULSD PL VS HO SPR	1,249	592	111.0%	1,432	-12.8%
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 (	838	2,208	-62.0%	986	-15.0%
CONWAY NORMAL BUTANE (OPI	1,384	1,619	-14.5%	1,341	3.2%
CONWAY PROPANE 5 DECIMALS	29,147	24,104	20.9%	29,582	-1.5%
CRUDE OIL	0	8	-100.0%	0	-
CRUDE OIL LAST DAY	0	0	-	0	-
CRUDE OIL OUTRIGHTS	140,628	128,734	9.2%	147,621	-4.7%
CRUDE OIL PHY	1,491,169	2,064,763	-27.8%	1,512,147	-1.4%
CRUDE OIL SPRDS	135,351	102,233	32.4%	150,852	-10.3%
CRUDE OIL TRADE AT MARKER	0	0	0.0%	0	0.0%
DAILY PJM	6,000	17,864	-66.4%	5,064	18.5%
DATED BRENT (PLATTS) DAILY S	0	0	-	0	-
DATED TO FRONTLINE BRENT	2,270	900	152.2%	2,295	-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	500	0	-	500	0.0%
DUTCH TTF NATURAL GAS CAL	3,255	11,109	-70.7%	3,524	-7.6%
EAST/WEST FUEL OIL SPREAD	0	0	-	0	-
EIA FLAT TAX ONHWAY DIESE	1,590	1,892	-16.0%	568	179.9%
ELEC FINSETTLED	0	0	-	0	-
ELECTRICITY OFF PEAK	0	0	-	0	-
EMMISSIONS	111	0	-	161	-31.1%
ETHANOL	0	0	-	0	-
ETHANOL SWAP	505	810	-37.7%	590	-14.4%
ETHANOL T2 FOB ROTT INCL DU	6,329	8,572	-26.2%	7,443	-15.0%
EURO 3.5% FUEL OIL RDAM B	0	35	-100.0%	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	442	1,647	-73.2%	483	-8.5%
EUROPE 1% FUEL OIL NWE CA	10	60	-83.3%	15	-33.3%
EUROPE 1% FUEL OIL RDAM C	0	0	-	0	-
EUROPE 3.5% FUEL OIL MED	0	0	-	0	-
EUROPE 3.5% FUEL OIL RDAM	110	269	-59.1%	124	-11.3%
EUROPEAN GASOIL (ICE)	1,593	3,682	-56.7%	1,916	-16.9%
EUROPEAN NAPHTHA BALMO	30	75	-60.0%	5	500.0%
EUROPEAN NAPHTHA CRACK SP	3,417	7,034	-51.4%	4,366	-21.7%
EUROPE DATED BRENT SWAP	0	11	-100.0%	1	-100.0%
EUROPE JET KERO NWE CALSW	0	0	-	0	-

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EURO PROPANE CIF ARA SWA	3,167	2,703	17.2%	3,217	-1.6%
FREIGHT MARKETS	1,543	1,222	26.3%	1,510	2.2%
FUEL OIL CRACK VS ICE	189	1,536	-87.7%	261	-27.6%
FUEL OIL NWE CRACK VS ICE	30	72	-58.3%	45	-33.3%
FUEL OIL (PLATS) CAR CM	0	0	-	0	-
FUELOIL SWAP:CARGOES VS.B	0	18	-100.0%	0	-
GAS EURO-BOB OXY NWE BARG	294	1,562	-81.2%	297	-1.0%
GAS EURO-BOB OXY NWE BARG	5,526	15,080	-63.4%	6,001	-7.9%
GASOIL 0.1CIF MED VS ICE	10	60	-83.3%	15	-33.3%
GASOIL 0.1 RDAM BRGS VS I	0	6	-100.0%	0	-
GASOIL 0.1 ROTTERDAM BARG	18	83	-78.3%	12	50.0%
GASOIL 10PPM VS ICE SWAP	12	0	-	12	0.0%
GASOIL CALENDAR SWAP	140	621	-77.5%	170	-17.6%
GASOIL CRACK SPREAD CALEN	1,050	5,709	-81.6%	1,518	-30.8%
GASOIL MINI CALENDAR SWAP	476	1,289	-63.1%	369	29.0%
GERMAN POWER BASELOAD CA	36	279	-87.1%	54	-33.3%
GROUP THREE UNLEAD GAS (P	0	0	-	0	-
GRP THREE ULSD(PLT)VS HEA	5,739	6,295	-8.8%	5,734	0.1%
GRP THREE UNL GS (PLT) VS	2,370	3,847	-38.4%	2,305	2.8%
GULF COAST 3% FUEL OIL BA	0	28	-100.0%	0	-
GULF COAST JET FUEL CLNDR	0	0	-	0	-
GULF COAST JET VS NYM 2 H	8,160	16,771	-51.3%	9,182	-11.1%
GULF COAST NO.6 FUEL OIL	18,762	13,326	40.8%	19,037	-1.4%
GULF COAST ULSD CALENDAR	1,581	1,784	-11.4%	534	196.1%
GULF COAST ULSD CRACK SPR	0	20	-100.0%	0	-
HEATING OIL BALMO CLNDR S	20	235	-91.5%	87	-77.0%
HEATING OIL CRCK SPRD BAL	0	0	-	0	-
HEATING OIL PHY	270,983	298,300	-9.2%	267,116	1.4%
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	427,739	510,243	-16.2%	447,654	-4.4%
HOUSTON SHIP CHANNEL BASI	0	155	-100.0%	0	-
HTG OIL	108	118	-8.5%	117	-7.7%
ICE BRENT DUBAI SWAP	580	2,740	-78.8%	705	-17.7%
ICE GASOIL BALMO SWAP	0	0	-	0	-
INDIANA MISO	0	0	-	0	-
INDONESIAN COAL ICI4	0	40	-100.0%	0	-
JAPAN C&F NAPHTHA CRACK S	4	6	-33.3%	6	-33.3%
JAPAN C&F NAPHTHA SWAP	312	170	83.5%	336	-7.1%
JAPAN NAPHTHA BALMO SWAP	0	6	-100.0%	0	-
JET CIF NWE VS ICE	655	716	-8.5%	729	-10.2%
JET FUEL UP-DOWN BALMO CL	125	1,175	-89.4%	245	-49.0%
JKM LNG Futures	1,141	3,044	-62.5%	946	20.6%
LA CARB DIESEL (OPIS) SWA	311	225	38.2%	399	-22.1%
LA CARBOB GASOLINE(OPIS)S	0	0	-	0	-
LA JET (OPIS) SWAP	75	1,285	-94.2%	100	-25.0%
LLS (ARGUS) CALENDAR SWAP	0	0	-	0	-
LLS (ARGUS) VS WTI SWAP	1,598	2,963	-46.1%	1,725	-7.4%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2022	Open Interest NOV 2021	% CHG	Open Interest OCT 2022	% CHG
<b>Energy Futures</b>					
LOS ANGELES CARB GASOLINE	0	0	-	0	-
LTD NAT GAS	360,363	512,489	-29.7%	363,167	-0.8%
MARS (ARGUS) VS WTI SWAP	250	420	-40.5%	375	-33.3%
MARS (ARGUS) VS WTI TRD M	11,759	12,260	-4.1%	9,985	17.8%
MARS BLEND CRUDE OIL	0	0	-	0	-
MCCLOSKEY ARA ARGS COAL	8,108	20,405	-60.3%	9,076	-10.7%
MCCLOSKEY RCH BAY COAL	225	1,720	-86.9%	474	-52.5%
MGN1 SWAP FUT	0	0	-	0	-
MICHIGAN BASIS	0	0	-	0	-
MINI GAS EUROBOB OXY NWE A	0	68	-100.0%	0	-
MINI RBOB V. EBOBARG NWE BF	0	0	-	0	-
MINI RBOB V. EBOB(ARGUS) NW	340	747	-54.5%	190	78.9%
MINY HTG OIL	1	2	-50.0%	1	0.0%
MINY NATURAL GAS	6,932	5,068	36.8%	5,018	38.1%
MINY RBOB GAS	1	2	-50.0%	0	0.0%
MINY WTI CRUDE OIL	7,233	6,535	10.7%	8,289	-12.7%
MJC FUT	0	30	-100.0%	0	-
MNC FUT	2,265	2,330	-2.8%	2,484	-8.8%
MONT BELVIEU ETHANE 5 DECI	45,580	54,481	-16.3%	42,800	6.5%
MONT BELVIEU ETHANE OPIS B	1,176	1,450	-18.9%	220	434.5%
MONT BELVIEU LDH PROPANE 5	139,788	132,705	5.3%	134,806	3.7%
MONT BELVIEU LDH PROPANE C	2,184	1,877	16.4%	1,403	55.7%
MONT BELVIEU NATURAL GASO	35,640	32,001	11.4%	37,626	-5.3%
MONT BELVIEU NATURAL GASO	2,163	207	944.9%	2,477	-12.7%
MONT BELVIEU NORMAL BUTAN	56,718	56,115	1.1%	61,340	-7.5%
MONT BELVIEU NORMAL BUTAN	1,497	1,058	41.5%	2,142	-30.1%
NATURAL GAS	186,607	170,311	9.6%	198,540	-6.0%
NATURAL GAS PEN SWP	179,168	200,765	-10.8%	182,907	-2.0%
NATURAL GAS PHY	990,271	1,269,879	-22.0%	977,718	1.3%
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	952	-100.0%	33	-100.0%
NEW YORK ETHANOL SWAP	985	545	80.7%	1,265	-22.1%
NEW YORK HUB ZONE G PEAK	800	340	135.3%	800	0.0%
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	20	-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	60	-100.0%	0	-
NY HARBOR 1% FUEL OIL BAL	0	0	-	0	-
NY HARBOR HEAT OIL SWP	9,910	8,831	12.2%	8,100	22.3%
NY HARBOR LOW SULPUR GAS	100	770	-87.0%	150	-33.3%
NY HARBOR RESIDUAL FUEL 1	175	675	-74.1%	175	0.0%
NYH NO 2 CRACK SPREAD CAL	7,278	10,368	-29.8%	8,522	-14.6%
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	6,375	-100.0%	525	-100.0%
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	3,364	419	702.9%	2,694	24.9%
PANHANDLE BASIS SWAP FUTU	0	0	-	0	-
PERMIAN BASIS SWAP	0	0	-	0	-
PETROCHEMICALS	11,326	16,379	-30.9%	11,435	-1.0%
PETRO CRCKS & SPRDS ASIA	0	100	-100.0%	0	-
PETRO CRCKS & SPRDS NA	21,443	33,748	-36.5%	24,404	-12.1%
PETRO CRK&SPRD EURO	2,306	2,746	-16.0%	2,215	4.1%
PETROLEUM PRODUCTS	10,435	5,101	104.6%	12,055	-13.4%
PETROLEUM PRODUCTS ASIA	995	953	4.4%	990	0.5%
PETRO OUTRIGHT EURO	15,264	21,612	-29.4%	15,656	-2.5%
PETRO OUTRIGHT NA	3,306	4,231	-21.9%	4,653	-28.9%
PJM AD HUB 5MW REAL TIME	2,145	26,670	-92.0%	4,175	-48.6%
PJM DAILY	284	292	-2.7%	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	3,990	-100.0%	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	18,360	218,120	-91.6%	35,685	-48.5%
PJM WESTH RT PEAK	8,824	20,675	-57.3%	11,806	-25.3%
PLASTICS	4,041	3,486	15.9%	4,038	0.1%
PREMIUM UNLD 10P FOB MED	34	180	-81.1%	51	-33.3%
PROPANE NON-LDH MB (OPIS) B	2,000	1,043	91.8%	2,084	-4.0%
PROPANE NON-LDH MT. BEL (OF	37,868	50,626	-25.2%	34,239	10.6%
RBOB CALENDAR SWAP	17,558	13,920	26.1%	16,935	3.7%
RBOB CRACK SPREAD	8,032	13,221	-39.2%	9,758	-17.7%
RBOB CRACK SPREAD BALMO S	0	0	-	0	-
RBOB GAS	72	84	-14.3%	79	-8.9%
RBOB GASOLINE BALMO CLNDR	9	833	-98.9%	647	-98.6%
RBOB PHY	247,782	285,445	-13.2%	228,385	8.5%
RBOB VS HEATING OIL SWAP	350	240	45.8%	375	-6.7%
SAN JUAN BASIS SWAP	0	0	-	0	-
SINGAPORE 180CST BALMO	1	0	-	0	-
SINGAPORE 380CST BALMO	0	0	-	0	-
SINGAPORE 380CST FUEL OIL	59	386	-84.7%	90	-34.4%
SINGAPORE FUEL 180CST CAL	3	0	-	3	0.0%
SINGAPORE FUEL OIL 180 CS	0	8	-100.0%	0	-
SINGAPORE FUEL OIL SPREAD	102	0	-	102	0.0%
SINGAPORE GASOIL	471	1,488	-68.3%	544	-13.4%
SINGAPORE GASOIL CALENDAR	131	607	-78.4%	130	0.8%
SINGAPORE GASOIL SWAP	262	1,539	-83.0%	500	-47.6%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2022	Open Interest NOV 2021	% CHG	Open Interest OCT 2022	% CHG
<b>Energy Futures</b>					
SINGAPORE GASOIL VS ICE	2,933	5,029	-41.7%	3,225	-9.1%
SINGAPORE JET KERO BALMO	0	0	-	0	-
SINGAPORE JET KERO GASOIL	2,504	2,974	-15.8%	2,703	-7.4%
SINGAPORE JET KEROSENE SW	0	1,090	-100.0%	0	-
SINGAPORE MOGAS 92 UNLEAD	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEAD	0	2,521	-100.0%	0	-
Sumas Basis Swap	0	0	-	0	-
TC2 ROTTERDAM TO USAC 37K	210	205	2.4%	240	-12.5%
TC5 RAS TANURA TO YOKOHAM	186	360	-48.3%	219	-15.1%
TCO BASIS SWAP	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	2,350	5,029	-53.3%	2,420	-2.9%
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	4,060	6,130	-33.8%	6,442	-37.0%
UP DOWN GC ULSD VS NMX HO	24,155	54,550	-55.7%	26,420	-8.6%
WAHA BASIS	0	0	-	0	-
WTI-BRENT BULLET SWAP	0	0	-	0	-
WTI-BRENT CALENDAR SWAP	120,636	100,561	20.0%	121,409	-0.6%
WTI CALENDAR	157,311	157,460	-0.1%	166,003	-5.2%
WTI MIDLAND CRUDE OIL	600	0	0.0%	750	-20.0%
WTS (ARGUS) VS WTI SWAP	20,577	43,164	-52.3%	23,361	-11.9%
WTS (ARGUS) VS WTI TRD MT	2,630	7,215	-63.5%	3,595	-26.8%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Options</b>					
BRENT CALENDAR SWAP	1,650	1,556	6.0%	1,860	-11.3%
BRENT CRUDE OIL 1 M CSO	18,800	125,400	-85.0%	42,300	-55.6%
BRENT OIL LAST DAY	55,553	105,889	-47.5%	49,432	12.4%
COAL API2 INDEX	385	1,115	-65.5%	365	5.5%
CRUDE OIL	0	0	-	0	-
CRUDE OIL 1MO	128,325	249,350	-48.5%	115,382	11.2%
CRUDE OIL APO	155,367	217,160	-28.5%	178,059	-12.7%
CRUDE OIL CALNDR STRIP	0	0	-	0	-
CRUDE OIL OUTRIGHTS	0	0	-	0	0.0%
CRUDE OIL PHY	2,231,235	2,041,482	9.3%	2,993,514	-25.5%
ELEC FINSETTLED	0	43	-100.0%	0	-
ETHANOL SWAP	3,571	9,811	-63.6%	3,652	-2.2%
FREIGHT MARKETS	20	0	-	30	-33.3%
HEATING OIL CRK SPD AVG PRI	750	3,705	-79.8%	1,000	-25.0%
HEATING OIL PHY	13,493	28,428	-52.5%	22,958	-41.2%
HENRY HUB FINANCIAL LAST	26,172	29,665	-11.8%	22,733	15.1%
HO 1 MONTH CLNDR OPTIONS	600	200	200.0%	950	-36.8%
LLS CRUDE OIL	5,700	0	-	5,850	-2.6%
MCCLOSKEY ARA ARGCS COAL	20	402	-95.0%	60	-66.7%
MCCLOSKEY RCH BAY COAL	0	0	-	0	-
NATURAL GAS	150	0	-	0	-
NATURAL GAS 1 M CSO FIN	95,875	162,495	-41.0%	113,750	-15.7%
NATURAL GAS 2 M CSO FIN	0	17,750	-100.0%	0	-
NATURAL GAS 3 M CSO FIN	3,250	0	-	1,200	170.8%
NATURAL GAS 5 M CSO FIN	2,000	5,250	-61.9%	0	-
NATURAL GAS 6 M CSO FIN	18,375	34,350	-46.5%	8,500	116.2%
NATURAL GAS OPT	1,000	29,305	-96.6%	250	300.0%
NATURAL GAS OPTION ON CALE	7,784	47,084	-83.5%	7,784	0.0%
NATURAL GAS PHY	2,913,219	2,304,162	26.4%	2,903,193	0.3%
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	9,075	7,482	21.3%	8,619	5.3%
PETROCHEMICALS	3,517	9,141	-61.5%	4,038	-12.9%
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT NA	310	1,120	-72.3%	435	-28.7%
PJM WES HUB PEAK CAL MTH	180	850	-78.8%	180	0.0%
PJM WES HUB PEAK LMP 50MW	0	0	0.0%	0	-
RBOB 1MO CAL SPD OPTIONS	0	0	-	0	0.0%
RBOB CALENDAR SWAP	324	401	-19.2%	393	-17.6%
RBOB PHY	4,772	6,918	-31.0%	6,330	-24.6%
SAN JUAN PIPE SWAP	0	0	-	0	-
SHORT TERM	0	0	-	0	-
SHORT TERM NATURAL GAS	0	50	-100.0%	0	-
WTI-BRENT BULLET SWAP	153,150	190,460	-19.6%	153,950	-0.5%
WTI CRUDE OIL 1 M CSO FI	137,000	42,350	223.5%	152,275	-10.0%

### FX Futures

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2022	Open Interest NOV 2021	% CHG	Open Interest OCT 2022	% CHG
<b>FX Futures</b>					
AD/CD CROSS RATES	28	31	-9.7%	46	-39.1%
AD/JY CROSS RATES	932	675	38.1%	977	-4.6%
AD/NE CROSS RATES	8,223	122	6,640.2%	8,740	-5.9%
AUSTRALIAN DOLLAR	160,181	201,981	-20.7%	169,665	-5.6%
BP/JY CROSS RATES	1,685	912	84.8%	2,078	-18.9%
BP/SF CROSS RATES	2,936	577	408.8%	2,840	3.4%
BRAZIL REAL	34,221	41,101	-16.7%	58,851	-41.9%
BRITISH POUND	226,793	230,423	-1.6%	248,614	-8.8%
CANADIAN DOLLAR	131,732	148,375	-11.2%	143,984	-8.5%
CD/JY CROSS RATES	53	74	-28.4%	73	-27.4%
CHINESE RENMINBI (CNH)	8,386	3,599	133.0%	9,497	-11.7%
CZECK KORUNA (EC)	0	0	-	0	-
CZECK KORUNA (US)	20	2	900.0%	4	400.0%
EC/AD CROSS RATES	2,668	2,136	24.9%	2,692	-0.9%
EC/CD CROSS RATES	3,871	4,968	-22.1%	3,984	-2.8%
EC/NOK CROSS RATES	3,386	644	425.8%	3,432	-1.3%
EC/SEK CROSS RATES	1,527	728	109.8%	1,695	-9.9%
EFX/BP CROSS RATES	29,961	32,927	-9.0%	30,477	-1.7%
EFX/JY CROSS RATES	19,544	26,533	-26.3%	20,335	-3.9%
EFX/SF CROSS RATES	11,430	19,568	-41.6%	12,752	-10.4%
E-MICRO USD/CAD	36	504	-92.9%	19	89.5%
E-MICRO USD/CHF	13	5	160.0%	13	0.0%
E-MICRO USD/JPY	118	152	-22.4%	191	-38.2%
E-MINI EURO FX	13,916	20,213	-31.2%	12,286	13.3%
E-MINI JAPANESE YEN	4,731	753	528.3%	4,757	-0.5%
EURO FX	698,974	705,409	-0.9%	669,995	4.3%
HUNGARIAN FORINT (EC)	1	0	-	1	0.0%
HUNGARIAN FORINT (US)	5	5	0.0%	1	400.0%
INDIAN RUPEE	1,222	1,512	-19.2%	1,632	-25.1%
JAPANESE YEN	230,493	216,692	6.4%	265,851	-13.3%
KOREAN WON	156	477	-67.3%	118	32.2%
MEXICAN PESO	305,563	195,719	56.1%	278,046	9.9%
MICRO AUD/USD	5,559	9,821	-43.4%	3,581	55.2%
MICRO CAD/USD	4,768	2,433	96.0%	3,536	34.8%
MICRO CHF/USD	2,172	2,185	-0.6%	1,649	31.7%
MICRO EUR/USD	26,323	30,128	-12.6%	26,080	0.9%
MICRO GBP/USD	5,978	4,608	29.7%	5,489	8.9%
MICRO INR/USD	25	16	56.3%	31	-19.4%
MICRO JPY/USD	0	2,241	-100.0%	0	-
MICRO USD/CNH	0	0	-	0	-
NEW ZEALND DOLLAR	46,042	49,483	-7.0%	48,218	-4.5%
NKR/USD CROSS RATE	641	1,471	-56.4%	768	-16.5%
POLISH ZLOTY (EC)	81	162	-50.0%	75	8.0%
POLISH ZLOTY (US)	637	568	12.1%	519	22.7%
RMB USD	0	0	-	0	-
RUSSIAN RUBLE	3	49,870	-100.0%	3	0.0%
S.AFRICAN RAND	18,726	14,109	32.7%	21,751	-13.9%
SF/JY CROSS RATES	1,598	30	5,226.7%	1,623	-1.5%
SHEKEL	17	16	6.3%	19	-10.5%
SKR/USD CROSS RATES	2,622	1,028	155.1%	1,943	34.9%

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

	Open Interest NOV 2022	Open Interest NOV 2021	% CHG	Open Interest OCT 2022	% CHG
<b>FX Futures</b>					
SWISS FRANC	39,879	50,543	-21.1%	49,804	-19.9%
TURKISH LIRA	26	69	-62.3%	75	-65.3%
USDZAR	0	19	-100.0%	0	-
<b>FX Options</b>					
AUD/USD MONDAY OPTION WEE	26	1,963	-98.7%	4	550.0%
AUD/USD MONDAY OPTION WEE	1	92	-98.9%	8	-87.5%
AUD/USD MONDAY OPTION WEE	0	106	-100.0%	0	-
AUD/USD MONDAY OPTION WEE	0	0	-	0	-
AUD/USD MONDAY OPTION WEE	0	0	0.0%	0	0.0%
AUD/USD MONTHLY OPTIONS	62,024	188,098	-67.0%	59,497	4.2%
AUD/USD WKLY FRIDAY OPTION	763	0	-	0	-
AUD/USD WKLY FRIDAY OPTION	0	1,034	-100.0%	737	-100.0%
AUD/USD WKLY FRIDAY OPTION	605	1,218	-50.3%	324	86.7%
AUD/USD WKLY FRIDAY OPTION	323	857	-62.3%	278	16.2%
AUD/USD WKLY FRIDAY OPTION	252	494	-49.0%	0	-
AUD/USD WKLY WED OPTIONS -	14	792	-98.2%	338	-95.9%
AUD/USD WKLY WED OPTIONS -	316	167	89.2%	53	496.2%
AUD/USD WKLY WED OPTIONS -	5	50	-90.0%	5	0.0%
AUD/USD WKLY WED OPTIONS -	0	191	-100.0%	4	-100.0%
AUD/USD WKLY WED OPTIONS -	0	0	-	0	-
BRL/USD MONTHLY OPTIONS	235	553	-57.5%	10	2,250.0%
CAD/USD MONDAY OPTIONS WE	856	1,444	-40.7%	685	25.0%
CAD/USD MONDAY OPTIONS WE	126	250	-49.6%	207	-39.1%
CAD/USD MONDAY OPTIONS WE	0	126	-100.0%	100	-100.0%
CAD/USD MONDAY OPTIONS WE	0	0	-	0	-
CAD/USD MONDAY OPTIONS WE	0	0	0.0%	0	0.0%
CAD/USD MONTHLY OPTIONS	214,745	181,045	18.6%	197,242	8.9%
CAD/USD WKLY FRIDAY OPTION	3,097	0	-	0	-
CAD/USD WKLY FRIDAY OPTION	0	3,375	-100.0%	1,678	-100.0%
CAD/USD WKLY FRIDAY OPTION	1,274	1,892	-32.7%	891	43.0%
CAD/USD WKLY FRIDAY OPTION	260	682	-61.9%	354	-26.6%
CAD/USD WKLY FRIDAY OPTION	4	120	-96.7%	0	-
CAD/USD WKLY WED OPTIONS -	707	1,991	-64.5%	465	52.0%
CAD/USD WKLY WED OPTIONS -	229	1,032	-77.8%	782	-70.7%
CAD/USD WKLY WED OPTIONS -	10	1,182	-99.2%	236	-95.8%
CAD/USD WKLY WED OPTIONS -	0	84	-100.0%	4	-100.0%
CAD/USD WKLY WED OPTIONS -	0	0	-	0	-
CHF/USD MONTHLY OPTIONS	13,131	19,946	-34.2%	10,338	27.0%
CHF/USD WKLY FRIDAY OPTION	164	0	-	0	-
CHF/USD WKLY FRIDAY OPTION	0	1,019	-100.0%	1	-100.0%
CHF/USD WKLY FRIDAY OPTION	187	31	503.2%	0	-
CHF/USD WKLY FRIDAY OPTION	139	152	-8.6%	1	13,800.0%
CHF/USD WKLY FRIDAY OPTION	83	3	2,666.7%	0	-
EUR/GBP MONTHLY OPTIONS	0	0	-	0	-
EUR/GBP WKLY FRIDAY OPTION	0	100	-100.0%	0	-
EURODOLLARS	0	0	-	0	0.0%
EUR/USD MONDAY OPTION WEE	142	596	-76.2%	2,570	-94.5%
EUR/USD MONDAY OPTION WEE	54	156	-65.4%	686	-92.1%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2022	Open Interest NOV 2021	% CHG	Open Interest OCT 2022	% CHG
<b>FX Options</b>					
EUR/USD MONDAY OPTION WEE	225	1	22,400.0%	2	11,150.0%
EUR/USD MONDAY OPTION WEE	0	138	-100.0%	0	-
EUR/USD MONDAY OPTION WEE	0	0	0.0%	0	0.0%
EUR/USD MONTHLY OPTIONS	351,823	215,396	63.3%	380,083	-7.4%
EUR/USD WKLY FRIDAY OPTION	11,400	0	-	3	379,900.0%
EUR/USD WKLY FRIDAY OPTION	0	7,261	-100.0%	5,155	-100.0%
EUR/USD WKLY FRIDAY OPTION	5,228	8,260	-36.7%	1,307	300.0%
EUR/USD WKLY FRIDAY OPTION	1,151	917	25.5%	524	119.7%
EUR/USD WKLY FRIDAY OPTION	7	163	-95.7%	0	-
EUR/USD WKLY WED OPTIONS -	2,810	4,946	-43.2%	6,144	-54.3%
EUR/USD WKLY WED OPTIONS -	1,711	2,246	-23.8%	2,372	-27.9%
EUR/USD WKLY WED OPTIONS -	311	508	-38.8%	21	1,381.0%
EUR/USD WKLY WED OPTIONS -	0	58	-100.0%	63	-100.0%
EUR/USD WKLY WED OPTIONS -	0	0	-	0	-
GBP/USD MONDAY OPTION WEE	0	225	-100.0%	252	-100.0%
GBP/USD MONDAY OPTION WEE	5	196	-97.4%	8	-37.5%
GBP/USD MONDAY OPTION WEE	0	6	-100.0%	1	-100.0%
GBP/USD MONDAY OPTION WEE	0	0	-	0	-
GBP/USD MONDAY OPTION WEE	0	0	0.0%	0	0.0%
GBP/USD MONTHLY OPTIONS	119,193	101,701	17.2%	119,106	0.1%
GBP/USD WKLY FRIDAY OPTION	1,342	0	-	0	-
GBP/USD WKLY FRIDAY OPTION	0	4,461	-100.0%	1,519	-100.0%
GBP/USD WKLY FRIDAY OPTION	1,181	2,135	-44.7%	508	132.5%
GBP/USD WKLY FRIDAY OPTION	599	1,108	-45.9%	529	13.2%
GBP/USD WKLY FRIDAY OPTION	492	503	-2.2%	0	-
GBP/USD WKLY WED OPTIONS -	436	1,128	-61.3%	1,701	-74.4%
GBP/USD WKLY WED OPTIONS -	10	594	-98.3%	14	-28.6%
GBP/USD WKLY WED OPTIONS -	2	593	-99.7%	26	-92.3%
GBP/USD WKLY WED OPTIONS -	0	0	-	0	-
GBP/USD WKLY WED OPTIONS -	0	0	-	0	-
JPY/USD MONDAY OPTION WEE	44	120	-63.3%	143	-69.2%
JPY/USD MONDAY OPTION WEE	510	94	442.6%	263	93.9%
JPY/USD MONDAY OPTION WEE	100	32	212.5%	0	-
JPY/USD MONDAY OPTION WEE	0	63	-100.0%	0	-
JPY/USD MONDAY OPTION WEE	0	0	0.0%	0	0.0%
JPY/USD MONTHLY OPTIONS	134,418	89,298	50.5%	172,017	-21.9%
JPY/USD WKLY FRIDAY OPTION	5,735	0	-	0	-
JPY/USD WKLY FRIDAY OPTION	0	1,970	-100.0%	2,550	-100.0%
JPY/USD WKLY FRIDAY OPTION	4,227	1,438	193.9%	1,631	159.2%
JPY/USD WKLY FRIDAY OPTION	410	923	-55.6%	814	-49.6%
JPY/USD WKLY FRIDAY OPTION	21	310	-93.2%	0	-
JPY/USD WKLY WED OPTIONS -	1,594	5,079	-68.6%	5,555	-71.3%
JPY/USD WKLY WED OPTIONS -	1,194	872	36.9%	1,894	-37.0%
JPY/USD WKLY WED OPTIONS -	0	816	-100.0%	249	-100.0%
JPY/USD WKLY WED OPTIONS -	0	0	-	19	-100.0%
JPY/USD WKLY WED OPTIONS -	0	0	-	0	-
MXN/USD MONTHLY OPTIONS	2,277	1,008	125.9%	1,388	64.0%
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	300	-100.0%	0	-
MXN/USD WKLY FRIDAY OPTION	100	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2022	Open Interest NOV 2021	% CHG	Open Interest OCT 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	9,767	304	3,112.8%	9,765	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	0	0	-	0	-
<b>Foreign Exchange Options</b>					
AUD/USD WKLY WED OPTIONS -	5	521	-99.0%	4	25.0%
<b>Ags Futures</b>					
FERTILIZER PRODUCTS	3,007	4,685	-35.8%	3,901	-22.9%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2022	Open Interest NOV 2021	% CHG	Open Interest OCT 2022	% CHG
<b>Ag Products Futures</b>					
BLOCK CHEESE	819	2,951	-72.2%	823	-0.5%
BUTTER CS	9,896	8,640	14.5%	9,806	0.9%
CASH-SETTLED CHEESE	17,783	22,325	-20.3%	19,072	-6.8%
CAT ASIA WEATHER	0	0	-	0	-
CATTLE	293,182	310,096	-5.5%	293,789	-0.2%
CAT WEATHER EUROPEAN	0	0	-	0	-
CDD SEASONAL STRIP	0	0	-	0	-
CDD WEATHER	0	0	-	0	-
CHI WHEAT	312,768	371,575	-15.8%	329,100	-5.0%
CLASS IV MILK	11,981	10,685	12.1%	13,321	-10.1%
COFFEE	0	0	-	0	-
CORN	1,219,163	1,405,105	-13.2%	1,472,993	-17.2%
COTTON	0	0	-	0	-
DJ_UBS ROLL SELECT INDEX FU	11,140	8,391	32.8%	10,615	4.9%
DOW-UBS COMMOD INDEX	57,673	39,298	46.8%	57,990	-0.5%
DRY WHEY	2,732	3,464	-21.1%	2,940	-7.1%
FEEDER CATTLE	49,320	39,832	23.8%	46,823	5.3%
FERTILIZER PRODUCTS	0	0	-	0	-
GOLDMAN SACHS	1,082	1,539	-29.7%	1,178	-8.1%
GSCI EXCESS RETURN FUT	48,307	57,645	-16.2%	48,307	0.0%
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	12,575	10,400	20.9%	9,025	39.3%
HDD WEATHER EUROPEAN	4,050	7,450	-45.6%	3,800	6.6%
HOGS	192,554	228,719	-15.8%	194,600	-1.1%
HOUSING INDEX	58	40	45.0%	69	-15.9%
Intercommodity Spread	0	0	-	0	-
KC WHEAT	143,450	227,423	-36.9%	158,598	-9.6%
LUMBER	2,967	1,971	50.5%	2,116	40.2%
MALAYSIAN PALM SWAP	0	12,080	-100.0%	0	-
MILK	26,376	27,802	-5.1%	27,885	-5.4%
MINI CORN	7,763	8,081	-3.9%	18,201	-57.3%
MINI SOYBEAN	15,402	15,933	-3.3%	10,726	43.6%
MINI WHEAT	2,326	4,032	-42.3%	3,710	-37.3%
MLK MID OPTIONS	1	0	-	0	-
NFD MILK	10,417	9,537	9.2%	9,783	6.5%
OATS	3,266	4,853	-32.7%	4,311	-24.2%
PACIFIC RIM DAT SS WTHR	0	1,000	-100.0%	0	-
PORK CUTOUT	680	699	-2.7%	773	-12.0%
ROUGH RICE	8,474	8,664	-2.2%	8,696	-2.6%
SOYBEAN	642,175	672,454	-4.5%	571,755	12.3%
SOYBEAN MEAL	377,030	395,673	-4.7%	395,295	-4.6%
SOYBEAN OIL	447,056	399,439	11.9%	431,563	3.6%
S&P GSCI ENHANCED ER SWAP	0	1,001	-100.0%	0	-
SUGAR 11	0	0	-	0	-
USD CRUDE PALM OIL	45,678	42,995	6.2%	47,878	-4.6%
WHEAT	1,300	25,297	-94.9%	1,200	8.3%

### Ag Products Options

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2022	Open Interest NOV 2021	% CHG	Open Interest OCT 2022	% CHG
<b>Ag Products Options</b>					
AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-
BLOCK CHEESE	409	1,003	-59.2%	1,124	-63.6%
BUTTER CS	4,920	7,552	-34.9%	7,116	-30.9%
CASH-SETTLED CHEESE	29,539	17,781	66.1%	35,805	-17.5%
CATTLE	237,572	195,837	21.3%	218,324	8.8%
CDD SEASONAL STRIP	0	0	-	0	-
CDD WEATHER	0	0	-	0	-
CHI WHEAT	223,809	222,554	0.6%	340,786	-34.3%
CLASS IV MILK	35,808	25,024	43.1%	43,322	-17.3%
CORN	842,777	928,063	-9.2%	1,580,039	-46.7%
CORN NEARBY+2 CAL SPRD	38,197	19,680	94.1%	44,757	-14.7%
DEC-DEC CORN CAL SPRD	0	0	-	0	-
DEC-JULY CORN CAL SPRD	0	0	-	8,955	-100.0%
DEC-JULY WHEAT CAL SPRD	0	0	-	0	-
DRY WHEY	1,810	976	85.5%	2,287	-20.9%
FEEDER CATTLE	33,402	20,043	66.7%	34,316	-2.7%
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	8,100	1,000	710.0%	8,000	1.2%
HDD WEATHER EUROPEAN	1,000	14,500	-93.1%	1,000	0.0%
HOGS	243,532	223,862	8.8%	217,390	12.0%
HOUSING INDEX	0	0	-	0	-
Intercommodity Spread	0	0	-	0	-
JAN-MAR SOYBEAN CSO	0	0	-	0	-
JAN-MAY SOYBEAN CAL SPRD	300	0	-	0	-
JULY-DEC CORN CAL SPRD	17,954	8,225	118.3%	13,136	36.7%
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	7,258	2,360	207.5%	4,838	50.0%
KC WHEAT	37,649	75,752	-50.3%	62,101	-39.4%
LUMBER	138	524	-73.7%	3	4,500.0%
LV CATL CSO	0	0	-	0	-
MAR-DEC CORN CAL SPRD	0	0	-	0	-
MAR-JULY CORN CAL SPRD	22,470	3,490	543.8%	17,900	25.5%
MAR-JULY SOYBEAN CAL SPRD	650	0	-	650	0.0%
MAR-JULY WHEAT CAL SPRD	0	700	-100.0%	0	-
MILK	99,995	96,780	3.3%	109,434	-8.6%
MLK MID OPTIONS	6	15	-60.0%	11	-45.5%
NFD MILK	11,926	11,763	1.4%	15,515	-23.1%
NOV-JULY SOYBEAN CAL SPRD	0	0	-	0	-
NOV-MAR SOYBEAN CSO	0	0	-	0	-
NOV-NOV SOYBEAN CAL SPRD	0	0	-	0	-
OATS	76	522	-85.4%	587	-87.1%
PORK CUTOUT	10	1	900.0%	0	-
ROUGH RICE	1,803	1,359	32.7%	2,203	-18.2%
SEP-DEC SOYBEAN MEAL CSO	0	0	-	0	-
SOYBEAN	365,030	404,025	-9.7%	324,785	12.4%
SOYBEAN CRUSH	35	219	-84.0%	30	16.7%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest NOV 2022	Open Interest NOV 2021	% CHG	Open Interest OCT 2022	% CHG
<b>Ag Products Options</b>					
SOYBEAN MEAL	92,151	112,026	-17.7%	158,861	-42.0%
SOYBEAN OIL	123,117	125,891	-2.2%	181,685	-32.2%
SOYBN NEARBY+2 CAL SPRD	5,195	260	1,898.1%	2,545	104.1%
SOYMEAL NEARBY+2 CAL SPRD	0	0	-	0	-
SOY OIL NEARBY+2 CAL SPRD	0	0	-	1,250	-100.0%
WHEAT	172	101	70.3%	145	18.6%
WHEAT-CORN ICSCO	20	20	0.0%	1,852	-98.9%
WHEAT NEARBY+2 CAL SPRD	750	125	500.0%	3,495	-78.5%
<b>TOTAL FUTURES GROUP</b>					
Interest Rate Futures	32,495,842	28,950,175	12.2%	32,490,894	0.0%
Equity Index Futures	4,646,362	4,697,071	-1.1%	4,671,490	-0.5%
Metals Futures	934,126	1,075,704	-13.2%	1,009,212	-7.4%
Energy Futures	5,651,053	7,215,108	-21.7%	5,749,307	-1.7%
FX Futures	2,057,902	2,075,617	-0.9%	2,118,810	-2.9%
Foreign Exchange Futures	0	0	-	0	-
Ags Futures	3,007	4,685	-35.8%	3,901	-22.9%
Ag Products Futures	3,985,719	4,387,589	-9.2%	4,213,016	-5.4%
<b>TOTAL FUTURES</b>	<b>49,774,011</b>	<b>48,405,949</b>	<b>2.8%</b>	<b>50,256,630</b>	<b>-1.0%</b>
<b>TOTAL OPTIONS GROUP</b>					
Interest Rate Options	45,244,619	39,939,676	13.3%	43,576,749	3.8%
Equity Index Options	5,325,134	4,593,019	15.9%	5,183,290	2.7%
Metals Options	779,223	878,518	-11.3%	1,040,062	-25.1%
Energy Options	5,991,622	5,673,374	5.6%	6,799,042	-11.9%
FX Options	958,095	866,012	10.6%	993,124	-3.5%
Foreign Exchange Options	5	521	-99.0%	4	25.0%
Ag Products Options	2,498,330	2,547,953	-1.9%	3,454,997	-27.7%
<b>TOTAL OPTIONS</b>	<b>60,797,028</b>	<b>54,499,073</b>	<b>11.6%</b>	<b>61,047,268</b>	<b>-0.4%</b>
<b>TOTAL COMBINED</b>					
Interest Rate	77,740,461	68,889,851	12.8%	76,067,643	2.2%
Equity Index	9,971,496	9,290,090	7.3%	9,854,780	1.2%
Metals	1,713,349	1,954,222	-12.3%	2,049,274	-16.4%
Energy	11,642,675	12,888,482	-9.7%	12,548,349	-7.2%
FX	3,015,997	2,941,629	2.5%	3,111,934	-3.1%
Foreign Exchange	5	521	-99.0%	4	25.0%
Ags	3,007	4,685	-35.8%	3,901	-22.9%
Ag Products	6,484,049	6,935,542	-6.5%	7,668,013	-15.4%
<b>GRAND TOTAL</b>	<b>110,571,039</b>	<b>102,905,022</b>	<b>7.4%</b>	<b>111,303,898</b>	<b>-0.7%</b>

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

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