



## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2022	Open Interest OCT 2021	% CHG	Open Interest SEP 2022	% CHG
<b>Interest Rate Futures</b>					
10-YR Eris LIBOR	65,055	81,130	-19.8%	65,660	-0.9%
10-YR Eris SOFR	2,031	100	1,931.0%	2,019	0.6%
10-YR MAC LIBOR	16,286	184,471	-91.2%	14,097	15.5%
10-YR MAC SOFR	0	0	-	0	-
10-YR NOTE	3,972,150	3,950,219	0.6%	3,834,682	3.6%
10Y YIELD	3,380	1,573	114.9%	3,854	-12.3%
15-YR Eris LIBOR	0	10,850	-100.0%	0	-
1-MONTH EURODOLLAR	12,000	2	599,900.0%	20,009	-40.0%
1-YR Eris BSBY	0	0	-	0	-
1-YR Eris SOFR	14,327	6,321	126.7%	13,697	4.6%
20-YR BOND	694	0	-	587	18.2%
20-YR SWAP RATE	0	90	-100.0%	0	-
2-YR Eris LIBOR	87,277	119,991	-27.3%	95,033	-8.2%
2-YR Eris SOFR	5,617	4,408	27.4%	5,123	9.6%
2-YR NOTE	2,237,420	2,068,175	8.2%	1,954,198	14.5%
2Y YIELD	1,071	35	2,960.0%	1,152	-7.0%
30-YR BOND	1,211,620	1,158,187	4.6%	1,205,160	0.5%
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	590	88	570.5%	716	-17.6%
3-YR Eris BSBY	0	0	-	0	-
3-YR Eris LIBOR	29,021	75,607	-61.6%	28,921	0.3%
3-YR Eris SOFR	13,387	1,422	841.4%	9,480	41.2%
3-YR NOTE	9,202	22,923	-59.9%	10,945	-15.9%
4-YR Eris LIBOR	7,518	11,661	-35.5%	7,386	1.8%
4-YR Eris SOFR	1,844	275	570.5%	1,769	4.2%
5-YR Eris LIBOR	17,048	85,464	-80.1%	14,709	15.9%
5-YR Eris SOFR	2,311	700	230.1%	1,716	34.7%
5-YR MAC LIBOR	9,016	57,518	-84.3%	8,094	11.4%
5-YR NOTE	4,125,183	3,617,131	14.0%	3,973,117	3.8%
5Y YIELD	112	110	1.8%	110	1.8%
7-YR Eris LIBOR	20,302	21,622	-6.1%	20,221	0.4%
7-YR Eris SOFR	1,224	0	-	1,293	-5.3%
BSBY 3-MONTH FUTURES	13,316	11,499	15.8%	17,602	-24.3%
EURODOLLARS	7,929,580	12,470,132	-36.4%	8,318,218	-4.7%
FED FUND	1,720,269	1,286,734	33.7%	1,709,738	0.6%
SOFR	8,096,491	1,197,121	576.3%	7,681,151	5.4%
SONIA	7,073	12,605	-43.9%	7,786	-9.2%
TIIE	116	181	-35.9%	123	-5.7%
Ultra 10-Year Note	1,402,316	1,557,859	-10.0%	1,367,547	2.5%
ULTRA T-BOND	1,453,774	1,215,523	19.6%	1,407,885	3.3%

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<b>Interest Rate Options</b>					
10-YR NOTE	2,528,808	2,331,014	8.5%	2,762,129	-8.4%
2-YR NOTE	152,573	19,695	674.7%	65,977	131.3%
30-YR BOND	584,681	628,932	-7.0%	592,232	-1.3%
5-YR NOTE	1,201,029	1,092,161	10.0%	1,310,242	-8.3%
EURODOLLARS	18,140,050	17,132,894	5.9%	18,778,668	-3.4%
EURO MIDCURVE	3,206,246	15,377,906	-79.2%	3,460,879	-7.4%
FED FUND	4,001	0	-	1	400,000.0%
SOFR	13,851,146	2,891	479,012.6%	10,591,812	30.8%
SOFR MIDCURVE	3,906,868	25	15,627,372.0%	3,131,079	24.8%
Ultra 10-Year Note	50	0	-	4	1,150.0%
ULTRA T-BOND	1,297	734	76.7%	1,850	-29.9%
<b>Equity Index Futures</b>					
BITCOIN	13,163	15,207	-13.4%	14,867	-11.5%
DJ US REAL ESTATE SECTOR	49,566	42,300	17.2%	59,355	-16.5%
E-mini (\$5) Dow	76,166	110,881	-31.3%	69,265	10.0%
E-mini FTSE China 50	0	12	-100.0%	40	-100.0%
E-MINI MIDCAP	48,562	40,361	20.3%	54,381	-10.7%
E-MINI NASDAQ 100	283,319	255,936	10.7%	280,910	0.9%
E-MINI RUSSELL 1000	10,857	14,160	-23.3%	7,236	50.0%
E-MINI RUSSELL 1000 GROWTH	6,565	3,376	94.5%	4,079	60.9%
E-MINI RUSSELL 1000 VALUE	15,877	26,901	-41.0%	15,504	2.4%
E-MINI RUSSELL 2000	516,019	459,646	12.3%	571,263	-9.7%
E-MINI S&P500	2,353,982	2,432,923	-3.2%	2,282,435	3.1%
E-MINI S&P500 ESG	14,574	13,661	6.7%	12,330	18.2%
ETHER	0	0	-	5	-100.0%
ETHER FUTURES	4,416	5,261	-16.1%	5,035	-12.3%
FT-SE 100	0	372	-100.0%	0	0.0%
FTSE Emerging	0	0	-	0	-
IBOVESPA INDEX	17	56	-69.6%	47	-63.8%
MICRO BITCOIN	26,326	62,422	-57.8%	32,296	-18.5%
MICRO E-MINI NASDAQ 100	132,854	83,278	59.5%	136,689	-2.8%
MICRO E-MINI RUSSELL 2000	24,582	31,561	-22.1%	21,570	14.0%
MICRO E-MINI S&P500	172,083	121,402	41.7%	125,322	37.3%
MICRO ETHER	51,055	0	-	69,960	-27.0%
MICRO MINI \$5 DOW	29,636	27,902	6.2%	17,965	65.0%
NASDAQ-100 VOLATILITY	21	2	950.0%	0	-
NASDAQ BIOTECH SECTOR	223	279	-20.1%	138	61.6%
Nearby BTIC+	0	0	0.0%	0	-
NIKKEI 225 (\$) STOCK	12,969	17,134	-24.3%	13,882	-6.6%
NIKKEI 225 (YEN) STOCK	50,717	53,156	-4.6%	44,685	13.5%
PHLX SEMICONDUCTOR SECTO	255	0	-	240	6.3%
S&P 500	353,200	252,917	39.7%	343,517	2.8%
S&P 500 ANNUAL DIVIDEND IND	270,946	239,719	13.0%	243,887	11.1%
S&P 500/GI	0	0	-	0	-
S&P 500 QUARLY DIVIDEND IND	12,142	11,616	4.5%	9,654	25.8%
S&P 600 SMALLCAP EMINI	0	0	-	0	-
S&P BIOTECHNOLOGY SECTOR	134	0	-	23	482.6%

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<b>Equity Index Futures</b>					
S&P COMMUNICATION SERVICE	2,926	3,783	-22.7%	2,757	6.1%
S&P CONSUMER DISCRETIONAR	4,414	4,592	-3.9%	3,417	29.2%
S&P CONSUMER STAPLES SECT	14,149	23,899	-40.8%	15,584	-9.2%
S&P ENERGY SECTOR	31,461	31,429	0.1%	32,532	-3.3%
S&P FINANCIAL SECTOR	24,793	35,052	-29.3%	23,530	5.4%
S&P HEALTH CARE SECTOR	13,883	21,530	-35.5%	13,782	0.7%
S&P INDUSTRIAL SECTOR	13,299	14,112	-5.8%	13,695	-2.9%
S&P MATERIALS SECTOR	7,059	10,408	-32.2%	7,319	-3.6%
S&P OIL & GAS EXPLORATION A	71	0	-	20	255.0%
S&P REAL ESTATE SECTOR	5,761	6,535	-11.8%	5,092	13.1%
S&P REGIONAL BANKS SECTOR	145	0	-	132	9.8%
S&P RETAIL SECTOR	59	0	-	67	-11.9%
S&P TECHNOLOGY SECTOR	10,746	12,080	-11.0%	13,030	-17.5%
S&P UTILITIES SECTOR	12,375	23,522	-47.4%	14,088	-12.2%
S&P VALUE INDEX FUTURES	0	380	-100.0%	0	-
WATER INDEX FUTURES	0	0	-	0	-
YEN DENOMINATED TOPIX	123	186	-33.9%	124	-0.8%
<b>Equity Index Options</b>					
BITCOIN OPTIONS	3,724	1,593	133.8%	5,256	-29.1%
DJIA	0	0	-	0	0.0%
E-mini (\$5) Dow	1,383	2,039	-32.2%	533	159.5%
E-MINI NASDAQ 100	178,440	180,010	-0.9%	177,939	0.3%
E-mini Russell 2000	26,511	25,802	2.7%	21,667	22.4%
E-MINI RUSSELL 2000	19,441	24,643	-21.1%	11,099	75.2%
E-mini S&P 500	2,390,827	2,011,694	18.8%	2,500,686	-4.4%
E-MINI S&P500	2,425,857	1,937,686	25.2%	2,227,250	8.9%
EOM S&P 500	0	0	-	0	-
ETHER OPTIONS	354	0	-	80	342.5%
MICRO BITCOIN	4,044	0	-	9,047	-55.3%
Micro E-mini Nasdaq-100	2,832	3,648	-22.4%	3,399	-16.7%
MICRO E-MINI NASDAQ 100	2,516	2,254	11.6%	1,808	39.2%
Micro E-mini S&P 500	52,402	45,190	16.0%	54,095	-3.1%
MICRO ETHER	74,959	0	-	114,574	-34.6%
S&P 500	0	0	-	0	-

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<b>Metals Futures</b>					
ALUMINUM	62,287	50,448	23.5%	60,190	3.5%
COBALT METAL FUTURES	8,258	1,825	352.5%	5,936	39.1%
COMEX COPPER	180,740	217,440	-16.9%	168,846	7.0%
COMEX E-Mini GOLD	1,937	2,092	-7.4%	1,911	1.4%
COMEX E-Mini SILVER	413	749	-44.9%	396	4.3%
COMEX GOLD	464,625	504,956	-8.0%	432,024	7.5%
COMEX MINY COPPER	483	439	10.0%	427	13.1%
COMEX SILVER	139,157	142,022	-2.0%	127,382	9.2%
COPPER	15,763	17,963	-12.2%	14,855	6.1%
FERROUS PRODUCTS	6,986	4,338	61.0%	6,732	3.8%
GOLD	1,059	1,168	-9.3%	1,178	-10.1%
HOT ROLLED COIL STEEL FUTU	6,137	2,073	196.0%	6,570	-6.6%
IRON ORE 62 CHINA TSI FUTURE	0	0	-	0	-
IRON ORE CHINA	2,570	2,164	18.8%	3,678	-30.1%
METALS	270	105	157.1%	307	-12.1%
MICRO GOLD	23,785	23,105	2.9%	29,614	-19.7%
NYMEX HOT ROLLED STEEL	22,388	37,723	-40.7%	21,095	6.1%
NYMEX PLATINUM	56,940	56,053	1.6%	58,254	-2.3%
PALLADIUM	8,374	10,731	-22.0%	6,480	29.2%
SILVER	6,240	6,369	-2.0%	6,052	3.1%
URANIUM	800	800	0.0%	800	0.0%
<b>Metals Options</b>					
ALUMINUM	309	1,650	-81.3%	12	2,475.0%
COMEX COPPER	79,313	67,189	18.0%	71,606	10.8%
COMEX GOLD	791,784	874,828	-9.5%	795,889	-0.5%
COMEX SILVER	129,245	108,285	19.4%	113,269	14.1%
COPPER	765	1	76,400.0%	704	8.7%
GOLD	27,467	18,833	45.8%	24,616	11.6%
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	300	844	-64.5%	300	0.0%
NYMEX HOT ROLLED STEEL	4,971	1,820	173.1%	3,704	34.2%
NYMEX PLATINUM	2,519	13,204	-80.9%	2,491	1.1%
PALLADIUM	6	835	-99.3%	1	500.0%
SILVER	3,383	2,044	65.5%	2,385	41.8%
<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	8,085	13,085	-38.2%	9,610	-15.9%
ARGUS PROPAN FAR EST INDE	5,299	5,772	-8.2%	5,152	2.9%
ARGUS PROPAN(SAUDI ARAMC	1,802	1,836	-1.9%	1,810	-0.4%
AUSTRIALIAN COKE COAL	0	0	-	0	-
BRENT BALMO SWAP	0	0	-	0	-

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<b>Energy Futures</b>					
BRENT CALENDAR SWAP	39,111	18,413	112.4%	40,519	-3.5%
BRENT FINANCIAL FUTURES	10	0	-	10	0.0%
BRENT OIL LAST DAY	162,859	203,684	-20.0%	172,630	-5.7%
CAR VINTAGE	21,358	9,866	116.5%	17,187	24.3%
CHICAGO ETHANOL SWAP	27,333	43,716	-37.5%	29,627	-7.7%
CHICAGO ULSD PL VS HO SPR	1,432	810	76.8%	1,093	31.0%
CHICAGO UNL GAS PL VS RBO	0	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 (	986	2,283	-56.8%	933	5.7%
CONWAY NORMAL BUTANE (OPI	1,341	1,879	-28.6%	1,448	-7.4%
CONWAY PROPANE 5 DECIMALS	29,582	25,883	14.3%	29,001	2.0%
CRUDE OIL	0	8	-100.0%	0	-
CRUDE OIL LAST DAY	0	0	-	0	-
CRUDE OIL OUTRIGHTS	147,621	121,094	21.9%	153,222	-3.7%
CRUDE OIL PHY	1,512,147	2,132,840	-29.1%	1,618,105	-6.5%
CRUDE OIL SPRDS	150,852	83,804	80.0%	154,120	-2.1%
CRUDE OIL TRADE AT MARKER	0	0	0.0%	0	0.0%
DAILY PJM	5,064	23,708	-78.6%	6,288	-19.5%
DATED BRENT (PLATTS) DAILY S	0	0	-	0	-
DATED TO FRONTLINE BRENT	2,295	1,350	70.0%	2,320	-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	3,524	13,262	-73.4%	3,793	-7.1%
EAST/WEST FUEL OIL SPREAD	0	0	-	0	-
EIA FLAT TAX ONHWAY DIESE	568	2,343	-75.8%	692	-17.9%
ELEC FINSETTLED	0	0	-	0	-
ELECTRICITY OFF PEAK	0	0	-	0	-
EMMISSIONS	161	0	-	196	-17.9%
ETHANOL	0	0	-	0	-
ETHANOL SWAP	590	790	-25.3%	560	5.4%
ETHANOL T2 FOB ROTT INCL DU	7,443	8,844	-15.8%	8,034	-7.4%
EURO 3.5% FUEL OIL RDAM B	0	30	-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	483	1,768	-72.7%	532	-9.2%
EUROPE 1% FUEL OIL NWE CA	15	66	-77.3%	20	-25.0%
EUROPE 1% FUEL OIL RDAM C	0	0	-	0	-
EUROPE 3.5% FUEL OIL MED	0	0	-	0	-
EUROPE 3.5% FUEL OIL RDAM	124	261	-52.5%	118	5.1%
EUROPEAN GASOIL (ICE)	1,916	3,531	-45.7%	2,158	-11.2%
EUROPEAN NAPHTHA BALMO	5	0	-	19	-73.7%
EUROPEAN NAPHTHA CRACK SP	4,366	7,613	-42.7%	5,515	-20.8%
EUROPE DATED BRENT SWAP	1	11	-90.9%	3	-66.7%
EUROPE JET KERO NWE CALSW	0	0	-	0	-

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EUROPE NAPHTHA CALSWAP	576	1,399	-58.8%	639	-9.9%
EURO PROPANE CIF ARA SWA	3,217	2,754	16.8%	3,070	4.8%
FREIGHT MARKETS	1,510	1,071	41.0%	1,533	-1.5%
FUEL OIL CRACK VS ICE	261	1,701	-84.7%	374	-30.2%
FUEL OIL NWE CRACK VS ICE	45	72	-37.5%	51	-11.8%
FUEL OIL (PLATS) CAR CM	0	0	-	0	-
FUELOIL SWAP:CARGOES VS.B	0	27	-100.0%	0	-
GAS EURO-BOB OXY NWE BARG	297	1,783	-83.3%	363	-18.2%
GAS EURO-BOB OXY NWE BARG	6,001	15,870	-62.2%	6,416	-6.5%
GASOIL 0.1CIF MED VS ICE	15	60	-75.0%	20	-25.0%
GASOIL 0.1 RDAM BRGS VS I	0	9	-100.0%	0	-
GASOIL 0.1 ROTTERDAM BARG	12	88	-86.4%	22	-45.5%
GASOIL 10PPM VS ICE SWAP	12	0	-	0	-
GASOIL CALENDAR SWAP	170	496	-65.7%	178	-4.5%
GASOIL CRACK SPREAD CALEN	1,518	6,156	-75.3%	1,925	-21.1%
GASOIL MINI CALENDAR SWAP	369	1,306	-71.7%	418	-11.7%
GERMAN POWER BASELOAD CA	54	321	-83.2%	72	-25.0%
GROUP THREE UNLEAD GAS (P	0	0	-	0	-
GRP THREE ULSD(PLT)VS HEA	5,734	7,125	-19.5%	5,207	10.1%
GRP THREE UNL GS (PLT) VS	2,305	3,972	-42.0%	3,520	-34.5%
GULF COAST 3% FUEL OIL BA	0	0	-	0	-
GULF COAST JET FUEL CLNDR	0	0	-	0	-
GULF COAST JET VS NYM 2 H	9,182	18,761	-51.1%	9,573	-4.1%
GULF COAST NO.6 FUEL OIL	19,037	13,310	43.0%	17,984	5.9%
GULF COAST ULSD CALENDAR	534	2,280	-76.6%	640	-16.6%
GULF COAST ULSD CRACK SPR	0	30	-100.0%	0	-
HEATING OIL BALMO CLNDR S	87	394	-77.9%	0	-
HEATING OIL CRCK SPRD BAL	0	0	-	0	-
HEATING OIL PHY	267,116	425,220	-37.2%	294,856	-9.4%
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	447,654	530,920	-15.7%	468,362	-4.4%
HOUSTON SHIP CHANNEL BASI	0	305	-100.0%	0	-
HTG OIL	117	129	-9.3%	90	30.0%
ICE BRENT DUBAI SWAP	705	2,477	-71.5%	950	-25.8%
ICE GASOIL BALMO SWAP	0	0	-	0	-
INDIANA MISO	0	0	-	0	-
INDONESIAN COAL ICI4	0	60	-100.0%	0	-
JAPAN C&F NAPHTHA CRACK S	6	0	-	6	0.0%
JAPAN C&F NAPHTHA SWAP	336	181	85.6%	274	22.6%
JAPAN NAPHTHA BALMO SWAP	0	0	-	0	-
JET CIF NWE VS ICE	729	736	-1.0%	858	-15.0%
JET FUEL UP-DOWN BALMO CL	245	1,160	-78.9%	230	6.5%
JKM LNG Futures	946	2,559	-63.0%	772	22.5%
LA CARB DIESEL (OPIS) SWA	399	340	17.4%	504	-20.8%
LA CARBOB GASOLINE(OPIS)S	0	0	-	0	-
LA JET (OPIS) SWAP	100	1,205	-91.7%	50	100.0%
LLS (ARGUS) CALENDAR SWAP	0	0	-	0	-
LLS (ARGUS) VS WTI SWAP	1,725	2,772	-37.8%	1,852	-6.9%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2022	Open Interest OCT 2021	% CHG	Open Interest SEP 2022	% CHG
<b>Energy Futures</b>					
LOS ANGELES CARB GASOLINE	0	0	-	0	-
LTD NAT GAS	363,167	539,921	-32.7%	377,776	-3.9%
MARS (ARGUS) VS WTI SWAP	375	530	-29.2%	475	-21.1%
MARS (ARGUS) VS WTI TRD M	9,985	13,450	-25.8%	9,722	2.7%
MARS BLEND CRUDE OIL	0	0	-	0	-
MCCLOSKEY ARA ARGS COAL	9,076	20,996	-56.8%	10,152	-10.6%
MCCLOSKEY RCH BAY COAL	474	1,450	-67.3%	610	-22.3%
MGN1 SWAP FUT	0	0	-	0	-
MICHIGAN BASIS	0	0	-	0	-
MINI GAS EUROBOB OXY NWE A	0	0	-	20	-100.0%
MINI RBOB V. EBOBARG NWE BF	0	0	-	0	-
MINI RBOB V. EBOB(ARGUS) NW	190	740	-74.3%	190	0.0%
MINY HTG OIL	1	0	-	0	0.0%
MINY NATURAL GAS	5,018	4,249	18.1%	5,245	-4.3%
MINY RBOB GAS	0	0	0.0%	0	-
MINY WTI CRUDE OIL	8,289	4,295	93.0%	5,170	60.3%
MJC FUT	0	40	-100.0%	0	-
MNC FUT	2,484	2,047	21.3%	3,316	-25.1%
MONT BELVIEU ETHANE 5 DECI	42,800	52,443	-18.4%	43,137	-0.8%
MONT BELVIEU ETHANE OPIS B	220	4,571	-95.2%	1,322	-83.4%
MONT BELVIEU LDH PROPANE 5	134,806	136,177	-1.0%	129,386	4.2%
MONT BELVIEU LDH PROPANE C	1,403	2,368	-40.8%	1,881	-25.4%
MONT BELVIEU NATURAL GASO	37,626	34,084	10.4%	36,824	2.2%
MONT BELVIEU NATURAL GASO	2,477	710	248.9%	1,825	35.7%
MONT BELVIEU NORMAL BUTAN	61,340	64,654	-5.1%	59,457	3.2%
MONT BELVIEU NORMAL BUTAN	2,142	1,334	60.6%	1,074	99.4%
NATURAL GAS	198,235	173,454	14.3%	214,074	-7.4%
NATURAL GAS PEN SWP	182,907	200,531	-8.8%	191,429	-4.5%
NATURAL GAS PHY	977,718	1,267,567	-22.9%	947,087	3.2%
NEPOOL INTR HUB 5MW D AH	0	19,875	-100.0%	0	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	33	896	-96.3%	96	-65.6%
NEW YORK ETHANOL SWAP	1,265	480	163.5%	1,730	-26.9%
NEW YORK HUB ZONE G PEAK	800	320	150.0%	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	90	-100.0%	0	-
NY HARBOR 1% FUEL OIL BAL	0	0	-	0	-
NY HARBOR HEAT OIL SWP	8,100	9,650	-16.1%	8,183	-1.0%
NY HARBOR LOW SULPUR GAS	150	905	-83.4%	200	-25.0%
NY HARBOR RESIDUAL FUEL 1	175	725	-75.9%	225	-22.2%
NYH NO 2 CRACK SPREAD CAL	8,522	10,670	-20.1%	8,767	-2.8%
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

	Open Interest OCT 2022	Open Interest OCT 2021	% CHG	Open Interest SEP 2022	% CHG
<b>Energy Futures</b>					
NYISO ZONE G 5MW D AH PK	525	6,605	-92.1%	1,050	-50.0%
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	2,694	429	528.0%	2,564	5.1%
PANHANDLE BASIS SWAP FUTU	0	0	-	0	-
PERMIAN BASIS SWAP	0	0	-	0	-
PETROCHEMICALS	11,740	17,333	-32.3%	12,341	-4.9%
PETRO CRCKS & SPRDS ASIA	0	150	-100.0%	0	-
PETRO CRCKS & SPRDS NA	24,404	38,823	-37.1%	27,683	-11.8%
PETRO CRK&SPRD EURO	2,215	2,600	-14.8%	1,943	14.0%
PETROLEUM PRODUCTS	12,055	4,729	154.9%	10,119	19.1%
PETROLEUM PRODUCTS ASIA	990	839	18.0%	965	2.6%
PETRO OUTRIGHT EURO	15,656	20,757	-24.6%	17,270	-9.3%
PETRO OUTRIGHT NA	4,653	6,080	-23.5%	3,408	36.5%
PJM AD HUB 5MW REAL TIME	4,175	28,700	-85.5%	6,320	-33.9%
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	8,050	-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	35,685	225,820	-84.2%	54,045	-34.0%
PJM WESTH RT PEAK	11,806	23,557	-49.9%	14,788	-20.2%
PLASTICS	4,038	2,596	55.5%	3,800	6.3%
PREMIUM UNLD 10P FOB MED	51	180	-71.7%	66	-22.7%
PROPANE NON-LDH MB (OPIS) B	2,084	890	134.2%	650	220.6%
PROPANE NON-LDH MT. BEL (OF	34,239	49,076	-30.2%	33,938	0.9%
RBOB CALENDAR SWAP	16,935	15,702	7.9%	10,847	56.1%
RBOB CRACK SPREAD	9,758	13,641	-28.5%	10,609	-8.0%
RBOB CRACK SPREAD BALMO S	0	0	-	0	-
RBOB GAS	79	91	-13.2%	62	27.4%
RBOB GASOLINE BALMO CLNDR	647	713	-9.3%	370	74.9%
RBOB PHY	228,385	304,196	-24.9%	239,389	-4.6%
RBOB VS HEATING OIL SWAP	375	360	4.2%	315	19.0%
SAN JUAN BASIS SWAP	0	0	-	0	-
SINGAPORE 180CST BALMO	0	0	-	0	-
SINGAPORE 380CST BALMO	0	13	-100.0%	0	-
SINGAPORE 380CST FUEL OIL	90	356	-74.7%	92	-2.2%
SINGAPORE FUEL 180CST CAL	3	0	-	0	-
SINGAPORE FUEL OIL 180 CS	0	12	-100.0%	0	-
SINGAPORE FUEL OIL SPREAD	102	0	-	57	78.9%
SINGAPORE GASOIL	544	1,372	-60.3%	545	-0.2%
SINGAPORE GASOIL CALENDAR	130	993	-86.9%	95	36.8%
SINGAPORE GASOIL SWAP	500	2,096	-76.1%	782	-36.1%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2022	Open Interest OCT 2021	% CHG	Open Interest SEP 2022	% CHG
<b>Energy Futures</b>					
SINGAPORE GASOIL VS ICE	3,225	5,661	-43.0%	3,435	-6.1%
SINGAPORE JET KERO BALMO	0	0	-	0	-
SINGAPORE JET KERO GASOIL	2,703	1,950	38.6%	2,939	-8.0%
SINGAPORE JET KEROSENE SW	0	870	-100.0%	0	-
SINGAPORE MOGAS 92 UNLEAD	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEAD	0	2,351	-100.0%	0	-
Sumas Basis Swap	0	0	-	0	-
TC2 ROTTERDAM TO USAC 37K	240	210	14.3%	120	100.0%
TC5 RAS TANURA TO YOKOHAM	219	480	-54.4%	244	-10.2%
TCO BASIS SWAP	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	2,420	5,485	-55.9%	2,735	-11.5%
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	6,442	5,740	12.2%	1,630	295.2%
UP DOWN GC ULSD VS NMX HO	26,420	59,222	-55.4%	25,716	2.7%
WAHA BASIS	0	0	-	0	-
WTI-BRENT BULLET SWAP	0	0	-	0	-
WTI-BRENT CALENDAR SWAP	121,409	94,679	28.2%	110,969	9.4%
WTI CALENDAR	166,003	155,902	6.5%	169,246	-1.9%
WTI MIDLAND CRUDE OIL	750	420	78.6%	300	150.0%
WTS (ARGUS) VS WTI SWAP	23,361	46,961	-50.3%	26,018	-10.2%
WTS (ARGUS) VS WTI TRD MT	3,595	7,588	-52.6%	4,460	-19.4%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2022	Open Interest OCT 2021	% CHG	Open Interest SEP 2022	% CHG
<b>Energy Options</b>					
BRENT CALENDAR SWAP	1,860	1,784	4.3%	2,076	-10.4%
BRENT CRUDE OIL 1 M CSO	42,300	145,500	-70.9%	12,400	241.1%
BRENT OIL LAST DAY	49,432	75,024	-34.1%	100,506	-50.8%
COAL API2 INDEX	365	1,055	-65.4%	365	0.0%
CRUDE OIL	0	0	-	0	-
CRUDE OIL 1MO	115,382	289,510	-60.1%	124,377	-7.2%
CRUDE OIL APO	178,059	227,877	-21.9%	185,810	-4.2%
CRUDE OIL CALNDR STRIP	0	0	-	0	-
CRUDE OIL OUTRIGHTS	0	0	-	0	0.0%
CRUDE OIL PHY	2,993,514	2,403,362	24.6%	2,486,847	20.4%
ELEC FINSETTLED	0	43	-100.0%	0	-
ETHANOL SWAP	3,652	8,331	-56.2%	3,729	-2.1%
FREIGHT MARKETS	30	0	-	30	0.0%
HEATING OIL CRK SPD AVG PRI	1,000	3,960	-74.7%	1,250	-20.0%
HEATING OIL PHY	22,958	33,228	-30.9%	18,464	24.3%
HENRY HUB FINANCIAL LAST	22,733	29,077	-21.8%	23,522	-3.4%
HO 1 MONTH CLNDR OPTIONS	950	200	375.0%	1,100	-13.6%
LLS CRUDE OIL	5,850	100	5,750.0%	6,000	-2.5%
MCCLOSKEY ARA ARG5 COAL	60	726	-91.7%	80	-25.0%
MCCLOSKEY RCH BAY COAL	0	0	-	0	-
NATURAL GAS	0	0	-	0	-
NATURAL GAS 1 M CSO FIN	113,750	155,070	-26.6%	140,798	-19.2%
NATURAL GAS 2 M CSO FIN	0	14,000	-100.0%	0	-
NATURAL GAS 3 M CSO FIN	1,200	0	-	200	500.0%
NATURAL GAS 5 M CSO FIN	0	0	-	0	-
NATURAL GAS 6 M CSO FIN	8,500	31,300	-72.8%	9,000	-5.6%
NATURAL GAS OPT	250	36,285	-99.3%	100	150.0%
NATURAL GAS OPTION ON CALE	7,784	47,384	-83.6%	7,784	0.0%
NATURAL GAS PHY	2,903,193	2,508,003	15.8%	2,803,595	3.6%
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	8,619	7,764	11.0%	8,961	-3.8%
PETROCHEMICALS	4,038	9,123	-55.7%	4,221	-4.3%
PETRO OUTRIGHT EURO	0	0	-	0	-
PETRO OUTRIGHT NA	435	1,080	-59.7%	560	-22.3%
PJM WES HUB PEAK CAL MTH	180	850	-78.8%	180	0.0%
PJM WES HUB PEAK LMP 50MW	0	46	-100.0%	0	-
RBOB 1MO CAL SPD OPTIONS	0	0	-	0	-
RBOB CALENDAR SWAP	393	673	-41.6%	520	-24.4%
RBOB PHY	6,330	13,382	-52.7%	6,345	-0.2%
SAN JUAN PIPE SWAP	0	0	-	0	-
SHORT TERM	0	0	-	0	-
SHORT TERM NATURAL GAS	0	0	-	0	-
WTI-BRENT BULLET SWAP	153,950	170,000	-9.4%	191,885	-19.8%
WTI CRUDE OIL 1 M CSO FI	152,275	87,425	74.2%	154,050	-1.2%

### FX Futures

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2022	Open Interest OCT 2021	% CHG	Open Interest SEP 2022	% CHG
<b>FX Futures</b>					
AD/CD CROSS RATES	46	31	48.4%	48	-4.2%
AD/JY CROSS RATES	977	462	111.5%	1,049	-6.9%
AD/NE CROSS RATES	8,740	91	9,504.4%	7,885	10.8%
AUSTRALIAN DOLLAR	169,665	161,582	5.0%	143,667	18.1%
BP/JY CROSS RATES	2,078	927	124.2%	1,591	30.6%
BP/SF CROSS RATES	2,840	1,101	157.9%	3,153	-9.9%
BRAZIL REAL	58,851	46,623	26.2%	56,823	3.6%
BRITISH POUND	248,614	161,368	54.1%	265,250	-6.3%
CANADIAN DOLLAR	143,984	154,736	-6.9%	139,832	3.0%
CD/JY CROSS RATES	73	49	49.0%	12	508.3%
CHINESE RENMINBI (CNH)	9,497	3,111	205.3%	7,049	34.7%
CZECK KORUNA (EC)	0	0	-	0	-
CZECK KORUNA (US)	4	0	-	39	-89.7%
EC/AD CROSS RATES	2,692	3,027	-11.1%	2,463	9.3%
EC/CD CROSS RATES	3,984	4,571	-12.8%	4,138	-3.7%
EC/NOK CROSS RATES	3,432	631	443.9%	3,348	2.5%
EC/SEK CROSS RATES	1,695	639	165.3%	1,506	12.5%
EFX/BP CROSS RATES	30,477	32,830	-7.2%	33,699	-9.6%
EFX/JY CROSS RATES	20,335	23,521	-13.5%	20,050	1.4%
EFX/SF CROSS RATES	12,752	13,741	-7.2%	12,642	0.9%
E-MICRO USD/CAD	19	552	-96.6%	20	-5.0%
E-MICRO USD/CHF	13	13	0.0%	10	30.0%
E-MICRO USD/JPY	191	212	-9.9%	129	48.1%
E-MINI EURO FX	12,286	19,613	-37.4%	12,054	1.9%
E-MINI JAPANESE YEN	4,757	806	490.2%	2,228	113.5%
EURO FX	669,995	681,666	-1.7%	645,638	3.8%
HUNGARIAN FORINT (EC)	1	0	-	0	-
HUNGARIAN FORINT (US)	1	1	0.0%	1	0.0%
INDIAN RUPEE	1,632	1,194	36.7%	1,654	-1.3%
JAPANESE YEN	265,851	258,190	3.0%	243,003	9.4%
KOREAN WON	118	901	-86.9%	129	-8.5%
MEXICAN PESO	278,046	167,395	66.1%	181,590	53.1%
MICRO AUD/USD	3,581	5,723	-37.4%	4,551	-21.3%
MICRO CAD/USD	3,536	2,712	30.4%	2,919	21.1%
MICRO CHF/USD	1,649	1,851	-10.9%	1,578	4.5%
MICRO EUR/USD	26,080	21,308	22.4%	26,941	-3.2%
MICRO GBP/USD	5,489	2,193	150.3%	5,230	5.0%
MICRO INR/USD	31	16	93.8%	10	210.0%
MICRO JPY/USD	0	3,411	-100.0%	0	-
MICRO USD/CNH	0	0	-	0	-
NEW ZEALND DOLLAR	48,218	45,119	6.9%	46,913	2.8%
NKR/USD CROSS RATE	768	1,562	-50.8%	1,949	-60.6%
POLISH ZLOTY (EC)	75	148	-49.3%	75	0.0%
POLISH ZLOTY (US)	519	544	-4.6%	390	33.1%
RMB USD	0	0	-	0	-
RUSSIAN RUBLE	3	59,725	-100.0%	3	0.0%
S.AFRICAN RAND	21,751	13,670	59.1%	11,686	86.1%
SF/JY CROSS RATES	1,623	24	6,662.5%	1,585	2.4%
SHEKEL	19	16	18.8%	22	-13.6%
SKR/USD CROSS RATES	1,943	1,092	77.9%	2,275	-14.6%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2022	Open Interest OCT 2021	% CHG	Open Interest SEP 2022	% CHG
<b>FX Futures</b>					
SWISS FRANC	49,804	51,525	-3.3%	42,153	18.2%
TURKISH LIRA	75	75	0.0%	77	-2.6%
USDZAR	0	1	-100.0%	0	-
<b>FX Options</b>					
AUD/USD MONDAY OPTION WEE	4	1,108	-99.6%	49	-91.8%
AUD/USD MONDAY OPTION WEE	8	474	-98.3%	1	700.0%
AUD/USD MONDAY OPTION WEE	0	453	-100.0%	3	-100.0%
AUD/USD MONDAY OPTION WEE	0	0	-	0	-
AUD/USD MONDAY OPTION WEE	0	0	-	0	-
AUD/USD MONTHLY OPTIONS	59,497	193,652	-69.3%	70,203	-15.3%
AUD/USD WKLY FRIDAY OPTION	0	0	-	0	-
AUD/USD WKLY FRIDAY OPTION	737	1,877	-60.7%	599	23.0%
AUD/USD WKLY FRIDAY OPTION	324	595	-45.5%	315	2.9%
AUD/USD WKLY FRIDAY OPTION	278	545	-49.0%	291	-4.5%
AUD/USD WKLY FRIDAY OPTION	0	0	0.0%	0	0.0%
AUD/USD WKLY WED OPTIONS -	338	2,821	-88.0%	13	2,500.0%
AUD/USD WKLY WED OPTIONS -	53	323	-83.6%	39	35.9%
AUD/USD WKLY WED OPTIONS -	5	0	-	3	66.7%
AUD/USD WKLY WED OPTIONS -	4	0	-	0	-
AUD/USD WKLY WED OPTIONS -	0	0	-	0	-
BRL/USD MONTHLY OPTIONS	10	501	-98.0%	6	66.7%
CAD/USD MONDAY OPTIONS WE	685	530	29.2%	540	26.9%
CAD/USD MONDAY OPTIONS WE	207	336	-38.4%	727	-71.5%
CAD/USD MONDAY OPTIONS WE	100	380	-73.7%	408	-75.5%
CAD/USD MONDAY OPTIONS WE	0	0	-	0	-
CAD/USD MONDAY OPTIONS WE	0	0	-	0	-
CAD/USD MONTHLY OPTIONS	197,242	200,525	-1.6%	208,463	-5.4%
CAD/USD WKLY FRIDAY OPTION	0	0	-	0	-
CAD/USD WKLY FRIDAY OPTION	1,678	1,901	-11.7%	1,262	33.0%
CAD/USD WKLY FRIDAY OPTION	891	657	35.6%	407	118.9%
CAD/USD WKLY FRIDAY OPTION	354	1,477	-76.0%	2,191	-83.8%
CAD/USD WKLY FRIDAY OPTION	0	0	0.0%	0	0.0%
CAD/USD WKLY WED OPTIONS -	465	1,423	-67.3%	860	-45.9%
CAD/USD WKLY WED OPTIONS -	782	1,053	-25.7%	233	235.6%
CAD/USD WKLY WED OPTIONS -	236	143	65.0%	97	143.3%
CAD/USD WKLY WED OPTIONS -	4	0	-	165	-97.6%
CAD/USD WKLY WED OPTIONS -	0	0	-	0	-
CHF/USD MONTHLY OPTIONS	10,338	22,371	-53.8%	8,355	23.7%
CHF/USD WKLY FRIDAY OPTION	0	0	-	0	-
CHF/USD WKLY FRIDAY OPTION	1	51	-98.0%	7	-85.7%
CHF/USD WKLY FRIDAY OPTION	0	153	-100.0%	11	-100.0%
CHF/USD WKLY FRIDAY OPTION	1	0	-	0	-
CHF/USD WKLY FRIDAY OPTION	0	0	0.0%	0	0.0%
EUR/GBP MONTHLY OPTIONS	0	0	-	0	-
EUR/GBP WKLY FRIDAY OPTION	0	0	-	0	-
EURODOLLARS	0	0	-	0	0.0%
EUR/USD MONDAY OPTION WEE	2,570	2,615	-1.7%	3,721	-30.9%
EUR/USD MONDAY OPTION WEE	686	278	146.8%	164	318.3%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2022	Open Interest OCT 2021	% CHG	Open Interest SEP 2022	% CHG
<b>FX Options</b>					
EUR/USD MONDAY OPTION WEE	2	1,167	-99.8%	184	-98.9%
EUR/USD MONDAY OPTION WEE	0	287	-100.0%	270	-100.0%
EUR/USD MONDAY OPTION WEE	0	0	-	0	-
EUR/USD MONTHLY OPTIONS	380,083	197,168	92.8%	334,389	13.7%
EUR/USD WKLY FRIDAY OPTION	3	0	-	0	-
EUR/USD WKLY FRIDAY OPTION	5,155	6,258	-17.6%	6,016	-14.3%
EUR/USD WKLY FRIDAY OPTION	1,307	937	39.5%	2,246	-41.8%
EUR/USD WKLY FRIDAY OPTION	524	1,067	-50.9%	1,059	-50.5%
EUR/USD WKLY FRIDAY OPTION	0	0	0.0%	0	0.0%
EUR/USD WKLY WED OPTIONS -	6,144	5,633	9.1%	6,719	-8.6%
EUR/USD WKLY WED OPTIONS -	2,372	1,896	25.1%	2,283	3.9%
EUR/USD WKLY WED OPTIONS -	21	287	-92.7%	86	-75.6%
EUR/USD WKLY WED OPTIONS -	63	188	-66.5%	911	-93.1%
EUR/USD WKLY WED OPTIONS -	0	0	-	0	-
GBP/USD MONDAY OPTION WEE	252	977	-74.2%	740	-65.9%
GBP/USD MONDAY OPTION WEE	8	229	-96.5%	157	-94.9%
GBP/USD MONDAY OPTION WEE	1	34	-97.1%	3	-66.7%
GBP/USD MONDAY OPTION WEE	0	306	-100.0%	0	-
GBP/USD MONDAY OPTION WEE	0	0	-	0	-
GBP/USD MONTHLY OPTIONS	119,106	97,359	22.3%	127,255	-6.4%
GBP/USD WKLY FRIDAY OPTION	0	0	-	0	-
GBP/USD WKLY FRIDAY OPTION	1,519	2,629	-42.2%	851	78.5%
GBP/USD WKLY FRIDAY OPTION	508	828	-38.6%	771	-34.1%
GBP/USD WKLY FRIDAY OPTION	529	866	-38.9%	584	-9.4%
GBP/USD WKLY FRIDAY OPTION	0	0	0.0%	0	0.0%
GBP/USD WKLY WED OPTIONS -	1,701	820	107.4%	500	240.2%
GBP/USD WKLY WED OPTIONS -	14	412	-96.6%	159	-91.2%
GBP/USD WKLY WED OPTIONS -	26	470	-94.5%	0	-
GBP/USD WKLY WED OPTIONS -	0	0	-	0	-
GBP/USD WKLY WED OPTIONS -	0	0	-	0	-
JPY/USD MONDAY OPTION WEE	143	545	-73.8%	3,364	-95.7%
JPY/USD MONDAY OPTION WEE	263	374	-29.7%	2	13,050.0%
JPY/USD MONDAY OPTION WEE	0	14	-100.0%	0	-
JPY/USD MONDAY OPTION WEE	0	53	-100.0%	0	-
JPY/USD MONDAY OPTION WEE	0	0	-	0	-
JPY/USD MONTHLY OPTIONS	172,017	98,518	74.6%	181,265	-5.1%
JPY/USD WKLY FRIDAY OPTION	0	0	-	0	-
JPY/USD WKLY FRIDAY OPTION	2,550	1,682	51.6%	2,656	-4.0%
JPY/USD WKLY FRIDAY OPTION	1,631	1,390	17.3%	777	109.9%
JPY/USD WKLY FRIDAY OPTION	814	1,618	-49.7%	443	83.7%
JPY/USD WKLY FRIDAY OPTION	0	0	0.0%	0	0.0%
JPY/USD WKLY WED OPTIONS -	5,555	5,238	6.1%	3,464	60.4%
JPY/USD WKLY WED OPTIONS -	1,894	1,304	45.2%	2,081	-9.0%
JPY/USD WKLY WED OPTIONS -	249	168	48.2%	0	-
JPY/USD WKLY WED OPTIONS -	19	0	-	0	-
JPY/USD WKLY WED OPTIONS -	0	0	-	0	-
JPY/USD WKLY WED OPTIONS -	0	0	-	0	-
MXN/USD MONTHLY OPTIONS	1,388	3,289	-57.8%	1,378	0.7%
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 OCT 2022	Open Interest OCT 2021	% CHG	Open Interest SEP 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	9,765	451	2,065.2%	9,756	0.1%
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD WKLY FRIDAY OPTION	0	50	-100.0%	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 -	4	0	-	92	-95.7%
<b>Ags Futures</b>					
FERTILIZER PRODUCTS	3,901	6,015	-35.1%	4,188	-6.9%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2022	Open Interest OCT 2021	% CHG	Open Interest SEP 2022	% CHG
<b>Ag Products Futures</b>					
BLOCK CHEESE	823	3,288	-75.0%	755	9.0%
BUTTER CS	9,806	8,211	19.4%	9,928	-1.2%
CASH-SETTLED CHEESE	19,072	19,909	-4.2%	19,860	-4.0%
CAT ASIA WEATHER	0	0	-	0	-
CATTLE	293,789	291,921	0.6%	275,704	6.6%
CAT WEATHER EUROPEAN	0	0	-	0	-
CDD SEASONAL STRIP	0	0	-	1,500	-100.0%
CDD WEATHER	0	0	-	2,750	-100.0%
CHI WHEAT	329,100	407,965	-19.3%	295,483	11.4%
CLASS IV MILK	13,321	7,711	72.8%	14,276	-6.7%
COFFEE	0	0	-	0	-
CORN	1,472,993	1,477,556	-0.3%	1,356,615	8.6%
COTTON	0	0	-	0	-
DJ_UBS ROLL SELECT INDEX FU	10,615	7,628	39.2%	10,798	-1.7%
DOW-UBS COMMOD INDEX	57,990	36,055	60.8%	60,870	-4.7%
DRY WHEY	2,940	3,341	-12.0%	3,233	-9.1%
FEEDER CATTLE	46,823	43,044	8.8%	49,691	-5.8%
FERTILIZER PRODUCTS	0	0	-	0	-
GOLDMAN SACHS	1,178	1,737	-32.2%	1,179	-0.1%
GSCI EXCESS RETURN FUT	48,307	54,423	-11.2%	48,307	0.0%
HDD EURO SEASONAL STRIP	2,375	0	-	2,375	0.0%
HDD SEASONAL STRIP	3,900	500	680.0%	3,750	4.0%
HDD WEATHER	9,025	8,850	2.0%	1,675	438.8%
HDD WEATHER EUROPEAN	3,800	4,450	-14.6%	0	-
HOGS	194,600	234,606	-17.1%	205,478	-5.3%
HOUSING INDEX	69	40	72.5%	66	4.5%
Intercommodity Spread	0	0	-	0	-
KC WHEAT	158,598	234,264	-32.3%	153,003	3.7%
LUMBER	2,116	1,750	20.9%	3,041	-30.4%
MALAYSIAN PALM SWAP	0	17,850	-100.0%	0	-
MILK	27,885	26,005	7.2%	28,802	-3.2%
MINI CORN	18,201	17,330	5.0%	16,820	8.2%
MINI SOYBEAN	10,726	10,217	5.0%	25,055	-57.2%
MINI WHEAT	3,710	4,564	-18.7%	3,226	15.0%
MLK MID OPTIONS	0	0	-	0	-
NFD MILK	9,783	8,625	13.4%	8,895	10.0%
OATS	4,311	5,480	-21.3%	3,909	10.3%
PACIFIC RIM DAT SS WTHR	0	1,000	-100.0%	0	-
PORK CUTOUT	773	800	-3.4%	1,026	-24.7%
ROUGH RICE	8,696	7,893	10.2%	8,608	1.0%
SOYBEAN	571,755	612,195	-6.6%	678,453	-15.7%
SOYBEAN MEAL	395,295	443,861	-10.9%	367,048	7.7%
SOYBEAN OIL	431,563	418,545	3.1%	403,384	7.0%
S&P GSCI ENHANCED ER SWAP	0	1,001	-100.0%	0	-
SUGAR 11	0	0	-	0	-
USD CRUDE PALM OIL	47,878	25,922	84.7%	50,913	-6.0%
WHEAT	1,200	22,153	-94.6%	1,412	-15.0%

### Ag Products Options

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2022	Open Interest OCT 2021	% CHG	Open Interest SEP 2022	% CHG
<b>Ag Products Options</b>					
AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-
BLOCK CHEESE	1,124	1,329	-15.4%	1,444	-22.2%
BUTTER CS	7,116	8,188	-13.1%	7,438	-4.3%
CASH-SETTLED CHEESE	35,805	16,987	110.8%	35,663	0.4%
CATTLE	218,324	171,470	27.3%	255,336	-14.5%
CDD SEASONAL STRIP	0	0	-	5,000	-100.0%
CDD WEATHER	0	0	-	0	-
CHI WHEAT	340,786	301,121	13.2%	317,865	7.2%
CLASS IV MILK	43,322	23,814	81.9%	43,812	-1.1%
CORN	1,580,039	1,540,043	2.6%	1,652,304	-4.4%
CORN NEARBY+2 CAL SPRD	44,757	24,613	81.8%	27,558	62.4%
DEC-DEC CORN CAL SPRD	0	1,977	-100.0%	0	-
DEC-JULY CORN CAL SPRD	8,955	10,985	-18.5%	8,855	1.1%
DEC-JULY WHEAT CAL SPRD	0	0	-	0	-
DRY WHEY	2,287	1,066	114.5%	2,570	-11.0%
FEEDER CATTLE	34,316	18,669	83.8%	33,466	2.5%
HDD EURO SEASONAL STRIP	6,750	2,000	237.5%	4,750	42.1%
HDD SEASONAL STRIP	4,000	23,920	-83.3%	2,500	60.0%
HDD WEATHER	8,000	1,000	700.0%	7,500	6.7%
HDD WEATHER EUROPEAN	1,000	18,000	-94.4%	0	-
HOGS	217,390	197,815	9.9%	247,919	-12.3%
HOUSING INDEX	0	0	-	0	-
Intercommodity Spread	0	0	-	0	-
JAN-MAR SOYBEAN CSO	0	0	-	0	-
JULY-DEC CORN CAL SPRD	13,136	8,225	59.7%	12,636	4.0%
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	4,838	650	644.3%	1,450	233.7%
KC WHEAT	62,101	70,045	-11.3%	50,867	22.1%
LUMBER	3	304	-99.0%	307	-99.0%
LV CATL CSO	0	0	-	0	-
MAR-DEC CORN CAL SPRD	0	0	-	0	-
MAR-JULY CORN CAL SPRD	17,900	50	35,700.0%	13,885	28.9%
MAR-JULY SOYBEAN CAL SPRD	650	0	-	600	8.3%
MAR-JULY WHEAT CAL SPRD	0	0	-	0	-
MILK	109,434	96,197	13.8%	113,028	-3.2%
MLK MID OPTIONS	11	5	120.0%	14	-21.4%
NFD MILK	15,515	12,454	24.6%	13,271	16.9%
NOV-JULY SOYBEAN CAL SPRD	0	0	-	3,160	-100.0%
NOV-MAR SOYBEAN CSO	0	0	-	0	-
NOV-NOV SOYBEAN CAL SPRD	0	0	-	0	-
OATS	587	1,480	-60.3%	513	14.4%
PORK CUTOUT	0	1	-100.0%	0	-
ROUGH RICE	2,203	1,131	94.8%	1,367	61.2%
SEP-DEC SOYBEAN MEAL CSO	0	0	-	0	-
SOYBEAN	324,785	362,690	-10.5%	546,060	-40.5%
SOYBEAN CRUSH	30	218	-86.2%	55	-45.5%
SOYBEAN MEAL	158,861	146,709	8.3%	154,170	3.0%

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

	Open Interest OCT 2022	Open Interest OCT 2021	% CHG	Open Interest SEP 2022	% CHG
<b>Ag Products Options</b>					
SOYBEAN OIL	181,685	184,185	-1.4%	151,220	20.1%
SOYBN NEARBY+2 CAL SPRD	2,545	260	878.8%	4,755	-46.5%
SOYMEAL NEARBY+2 CAL SPRD	0	0	-	0	-
SOY OIL NEARBY+2 CAL SPRD	1,250	0	-	1,100	13.6%
WHEAT	145	700	-79.3%	25	480.0%
WHEAT-CORN ICSSO	1,852	570	224.9%	1,732	6.9%
WHEAT NEARBY+2 CAL SPRD	3,495	852	310.2%	1,545	126.2%
<b>TOTAL FUTURES GROUP</b>					
Interest Rate Futures	32,490,894	29,240,860	11.1%	31,806,071	2.2%
Equity Index Futures	4,671,490	4,509,949	3.6%	4,581,749	2.0%
Metals Futures	1,009,212	1,082,563	-6.8%	952,727	5.9%
Energy Futures	5,749,307	7,509,421	-23.4%	5,948,419	-3.3%
FX Futures	2,118,810	1,950,299	8.6%	1,939,057	9.3%
Foreign Exchange Futures	0	0	-	0	-
Ags Futures	3,901	6,015	-35.1%	4,188	-6.9%
Ag Products Futures	4,213,016	4,470,690	-5.8%	4,117,888	2.3%
<b>TOTAL FUTURES</b>	<b>50,256,630</b>	<b>48,769,797</b>	<b>3.0%</b>	<b>49,350,099</b>	<b>1.8%</b>
<b>TOTAL OPTIONS GROUP</b>					
Interest Rate Options	43,576,749	36,586,252	19.1%	40,694,873	7.1%
Equity Index Options	5,183,290	4,234,559	22.4%	5,127,433	1.1%
Metals Options	1,040,062	1,089,533	-4.5%	1,014,977	2.5%
Energy Options	6,799,042	6,302,162	7.9%	6,294,755	8.0%
FX Options	993,124	870,754	14.1%	989,502	0.4%
Foreign Exchange Options	4	0	-	92	-95.7%
Ag Products Options	3,454,997	3,249,723	6.3%	3,725,740	-7.3%
<b>TOTAL OPTIONS</b>	<b>61,047,268</b>	<b>52,332,983</b>	<b>16.7%</b>	<b>57,847,372</b>	<b>5.5%</b>
<b>TOTAL COMBINED</b>					
Interest Rate	76,067,643	65,827,112	15.6%	72,500,944	4.9%
Equity Index	9,854,780	8,744,508	12.7%	9,709,182	1.5%
Metals	2,049,274	2,172,096	-5.7%	1,967,704	4.1%
Energy	12,548,349	13,811,583	-9.1%	12,243,174	2.5%
FX	3,111,934	2,821,053	10.3%	2,928,559	6.3%
Foreign Exchange	4	0	-	92	-95.7%
Ags	3,901	6,015	-35.1%	4,188	-6.9%
Ag Products	7,668,013	7,720,413	-0.7%	7,843,628	-2.2%
<b>GRAND TOTAL</b>	<b>111,303,898</b>	<b>101,102,780</b>	<b>10.1%</b>	<b>107,197,471</b>	<b>3.8%</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.