

## 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 ARGS 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	-
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 CUTOFF	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 ICSCO	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.

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