

## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2021	Open Interest OCT 2020	% CHG	Open Interest SEP 2021	% CHG
<b>Interest Rate Futures</b>					
10-YR NOTE	3,951,792	3,098,527	27.5%	4,052,709	-2.5%
10-YR SWAP RATE	265,701	208,466	27.5%	244,199	8.8%
15-YR SWAP RATE	10,850	10,850	0.0%	10,850	0.0%
1-MONTH EURODOLLAR	2	0	-	0	-
20-YR SWAP RATE	90	90	0.0%	90	0.0%
2-YR NOTE	2,068,210	1,995,857	3.6%	1,832,808	12.8%
2-YR SWAP RATE	133,117	30,626	334.7%	71,779	85.5%
30-YR BOND	1,158,275	1,223,492	-5.3%	1,238,008	-6.4%
30-YR SWAP RATE	9,133	3,876	135.6%	9,628	-5.1%
3-YR NOTE	22,923	5,424	322.6%	23,675	-3.2%
3-YR SWAP RATE	75,607	10,720	605.3%	44,822	68.7%
4-YR SWAP RATE	11,661	6,008	94.1%	11,659	0.0%
5-YR NOTE	3,617,241	3,177,906	13.8%	3,627,936	-0.3%
5-YR SWAP RATE	142,982	65,939	116.8%	110,288	29.6%
7-YR SWAP RATE	21,622	20,026	8.0%	21,657	-0.2%
EURODOLLARS	12,481,631	9,574,200	30.4%	12,435,271	0.4%
FED FUND	1,286,734	1,294,393	-0.6%	1,191,095	8.0%
SOFR	1,197,121	498,900	140.0%	1,008,709	18.7%
SONIA	12,605	20,853	-39.6%	12,764	-1.2%
TIIE	181	0	-	299	-39.5%
Ultra 10-Year Note	1,557,859	935,854	66.5%	1,440,110	8.2%
ULTRA T-BOND	1,215,523	994,027	22.3%	1,223,680	-0.7%
<b>Interest Rate Options</b>					
10-YR NOTE	2,331,014	2,766,230	-15.7%	2,564,775	-9.1%
2-YR NOTE	19,695	37,734	-47.8%	8,843	122.7%
30-YR BOND	628,932	711,935	-11.7%	613,189	2.6%
5-YR NOTE	1,092,161	532,400	105.1%	815,865	33.9%
EURODOLLARS	17,132,894	23,272,884	-26.4%	15,705,026	9.1%
EURO MIDCURVE	15,377,906	7,969,259	93.0%	16,138,610	-4.7%
FED FUND	0	150	-100.0%	0	-
SOFR	2,916	325	797.2%	2,891	0.9%
Ultra 10-Year Note	0	0	-	0	-
ULTRA T-BOND	734	290	153.1%	552	33.0%

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<b>Equity Index Futures</b>					
BITCOIN FUTURES	77,629	12,373	527.4%	34,339	126.1%
DJ US REAL ESTATE	42,300	32,712	29.3%	43,613	-3.0%
E-mini (\$5) Dow	110,881	94,769	17.0%	97,908	13.3%
E-MINI COM SERVICES SELECT	3,783	4,454	-15.1%	3,287	15.1%
E-mini FTSE 100 (USD)	0	0	-	0	-
E-mini FTSE China 50	12	0	-	41	-70.7%
E-MINI MIDCAP	40,361	56,152	-28.1%	41,706	-3.2%
E-MINI NASDAQ 100	255,936	218,616	17.1%	225,988	13.3%
E-MINI RUSSELL 1000	14,160	8,880	59.5%	13,512	4.8%
E-MINI RUSSELL 1000 GROWTH	3,376	3,236	4.3%	3,249	3.9%
E-MINI RUSSELL 1000 VALUE	26,901	15,507	73.5%	30,689	-12.3%
E-MINI RUSSELL 2000	459,646	524,313	-12.3%	440,225	4.4%
E-MINI S&P500	2,432,923	2,430,689	0.1%	2,453,207	-0.8%
E-MINI S&P500 ESG	13,661	4,503	203.4%	15,566	-12.2%
E-MINI S&P REAL ESTATE SELE	6,535	3,732	75.1%	6,045	8.1%
ETHER FUTURES	5,261	0	-	4,388	19.9%
FT-SE 100	372	0	-	365	1.9%
FTSE Emerging	0	13	-100.0%	0	-
IBOVESPA INDEX	56	70	-20.0%	64	-12.5%
MICRO E-MINI NASDAQ 100	83,278	163,368	-49.0%	58,392	42.6%
MICRO E-MINI RUSSELL 2000	31,561	13,345	136.5%	21,127	49.4%
MICRO E-MINI S&P500	121,402	133,795	-9.3%	106,045	14.5%
MICRO MINI \$5 DOW	27,902	15,517	79.8%	16,915	65.0%
NASDAQ-100 VOLATILITY	2	5	-60.0%	0	-
NASDAQ BIOTECH	279	55	407.3%	253	10.3%
Nearby BTIC+	0	0	-	0	-
NIKKEI 225 (\$) STOCK	17,134	16,951	1.1%	22,821	-24.9%
NIKKEI 225 (YEN) STOCK	53,156	47,030	13.0%	49,443	7.5%
S&P 500	252,917	190,856	32.5%	243,868	3.7%
S&P 500 ANNUAL DIVIDEND IND	239,719	206,440	16.1%	242,495	-1.1%
S&P 500/GI	0	0	-	0	-
S&P 500 QUARLY DIVIDEND IND	11,616	1,169	893.7%	7,821	48.5%
S&P 600 SMALLCAP EMINI	0	0	-	0	-
S&P CONSUMER DSCRTNRY SE	4,592	3,383	35.7%	3,486	31.7%
S&P CONSUMER STAPLES SECT	23,899	8,753	173.0%	25,482	-6.2%
S&P ENERGY SECTOR	31,429	26,053	20.6%	31,410	0.1%
S&P FINANCIAL SECTOR	35,052	11,419	207.0%	26,229	33.6%
S&P HEALTH CARE SECTOR	21,530	9,573	124.9%	25,152	-14.4%
S&P INDUSTRIAL SECTOR	14,112	14,621	-3.5%	14,145	-0.2%
S&P MATERIALS SECTOR	10,408	4,555	128.5%	6,883	51.2%
S&P TECHNOLOGY SECTOR	12,080	7,380	63.7%	12,284	-1.7%
S&P UTILITIES SECTOR	23,522	13,625	72.6%	27,036	-13.0%
S&P VALUE INDEX FUTURES	380	0	-	380	0.0%
WATER INDEX FUTURES	0	0	-	2	-100.0%
YEN DENOMINATED TOPIX	186	481	-61.3%	167	11.4%

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<b>Equity Index Options</b>					
BITCOIN FUTURES	1,593	5,920	-73.1%	811	96.4%
E-mini (\$5) Dow	2,039	1,393	46.4%	1,064	91.6%
E-MINI NASDAQ 100	180,010	93,167	93.2%	159,935	12.6%
E-MINI RUSSELL 2000	24,627	18,156	35.6%	13,097	88.0%
E-MINI S&P500	1,937,686	1,858,022	4.3%	1,314,859	47.4%
EOM E-MINI RUSSELL 2000 END	6,124	1,131	441.5%	5,657	8.3%
EOM EMINI S&P	555,526	354,156	56.9%	525,708	5.7%
EOM S&P 500	40,400	50	80,700.0%	38,600	4.7%
EOW1 E-MINI RUSSELL 2000 WE	4,565	670	581.3%	3,523	29.6%
EOW1 EMINI S&P 500	312,653	232,031	34.7%	517,741	-39.6%
EOW1 S&P 500	0	7,910	-100.0%	0	-
EOW2 E-MINI RUSSELL 2000 WE	1,485	204	627.9%	2,019	-26.4%
EOW2 EMINI S&P 500	167,300	108,094	54.8%	180,953	-7.5%
EOW2 S&P 500	0	900	-100.0%	0	-
EOW3 E-MINI RUSSELL 2000 WE	13,003	5,506	136.2%	22,213	-41.5%
EOW3 EMINI S&P 500	890,394	647,713	37.5%	1,015,504	-12.3%
EOW3 S&P 500	0	10,600	-100.0%	0	-
EOW4 E-MINI RUSSELL 2000 WE	321	83	286.7%	773	-58.5%
EOW4 EMINI S&P 500	45,421	33,090	37.3%	91,358	-50.3%
MICRO E-MINI NASDAQ	2,102	322	552.8%	1,333	57.7%
MICRO E-MINI NASDAQ 100	472	0	-	0	-
MICRO E-MINI NASDAQ END OF	923	27	3,318.5%	1,208	-23.6%
MICRO E-MINI NASDAQ WEEKLY	2,725	343	694.5%	4,153	-34.4%
MICRO E-MINI S&P 500	17,452	17,364	0.5%	11,287	54.6%
MICRO E-MINI S&P 500 END OF	9,859	6,807	44.8%	7,203	36.9%
MICRO E-MINI S&P 500 WEEKLY	17,879	19,701	-9.2%	23,886	-25.1%
S&P 500	0	41,491	-100.0%	0	-

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<b>Metals Futures</b>					
ALUMINUM	50,448	66,680	-24.3%	52,279	-3.5%
COBALT METAL FUTURES	1,825	0	-	1,837	-0.7%
COMEX COPPER	217,440	232,502	-6.5%	183,473	18.5%
COMEX E-Mini GOLD	2,092	2,982	-29.8%	1,893	10.5%
COMEX E-Mini SILVER	749	825	-9.2%	661	13.3%
COMEX GOLD	504,956	542,015	-6.8%	487,410	3.6%
COMEX MINY COPPER	439	294	49.3%	561	-21.7%
COMEX SILVER	142,022	154,235	-7.9%	140,479	1.1%
COPPER	17,963	17,294	3.9%	19,399	-7.4%
FERROUS PRODUCTS	4,338	3,079	40.9%	4,348	-0.2%
GOLD	1,168	1,048	11.5%	981	19.1%
HOT ROLLED COIL STEEL FUTU	2,073	715	189.9%	1,997	3.8%
IRON ORE 62 CHINA PLATTS FU	0	0	-	0	-
IRON ORE 62 CHINA TSI FUTURE	0	0	-	0	-
IRON ORE CHINA	2,164	2,455	-11.9%	2,392	-9.5%
LNDN ZINC	0	0	-	0	-
METALS	105	10	950.0%	105	0.0%
MICRO GOLD	23,105	80,385	-71.3%	32,027	-27.9%
NYMEX HOT ROLLED STEEL	37,723	20,539	83.7%	41,655	-9.4%
NYMEX PLATINUM	56,053	52,048	7.7%	61,910	-9.5%
PALLADIUM	10,731	10,175	5.5%	9,548	12.4%
SILVER	6,369	5,329	19.5%	6,034	5.6%
URANIUM	800	303	164.0%	960	-16.7%
<b>Metals Options</b>					
ALUMINUM	1,650	60	2,650.0%	1,850	-10.8%
COMEX COPPER	67,189	12,696	429.2%	68,197	-1.5%
COMEX GOLD	874,828	1,161,137	-24.7%	745,900	17.3%
COMEX SILVER	108,285	119,215	-9.2%	104,148	4.0%
COPPER	1	2	-50.0%	3	-66.7%
GOLD	18,833	10,765	74.9%	28,931	-34.9%
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	844	2,420	-65.1%	1,624	-48.0%
NYMEX HOT ROLLED STEEL	1,820	825	120.6%	1,555	17.0%
NYMEX PLATINUM	13,204	2,626	402.8%	11,060	19.4%
PALLADIUM	835	1,713	-51.3%	731	14.2%
SILVER	2,044	765	167.2%	2,881	-29.1%
<b>Energy Futures</b>					
3.5% FUEL OIL CID MED SWA	0	0	-	0	-
3.5% FUEL OIL CIF BALMO S	0	0	-	0	-
AEP-DAYTON HUB DAILY	10	84	-88.1%	10	0.0%
ANR OKLAHOMA	0	0	-	0	-
ARGUS LLS VS. WTI (ARG) T	13,085	8,362	56.5%	14,105	-7.2%

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<b>Energy Futures</b>					
ARGUS PROPAN FAR EST INDE	5,772	4,888	18.1%	5,828	-1.0%
ARGUS PROPAN(SAUDI ARAMC	1,836	2,410	-23.8%	1,696	8.3%
AUSTRIALIAN COKE COAL	0	0	-	0	-
BRENT BALMO SWAP	0	0	-	300	-100.0%
BRENT CALENDAR SWAP	18,413	13,704	34.4%	18,898	-2.6%
BRENT FINANCIAL FUTURES	0	115	-100.0%	4	-100.0%
BRENT OIL LAST DAY	203,684	171,746	18.6%	205,686	-1.0%
CAR VINTAGE	9,866	0	-	9,009	9.5%
CENTERPOINT BASIS SWAP	0	0	-	0	-
CHICAGO ETHANOL SWAP	43,716	31,179	40.2%	36,482	19.8%
CHICAGO ULSD PL VS HO SPR	810	1,432	-43.4%	996	-18.7%
CHICAGO UNL GAS PL VS RBO	0	195	-100.0%	0	-
CIG BASIS	0	0	-	0	-
CINERGY HUB OFF-PEAK MONT	0	0	-	0	-
CINERGY HUB PEAK MONTH	0	0	-	0	-
CIN HUB 5MW D AH PK	0	0	-	0	-
CIN HUB 5MW REAL TIME O P	0	5,544	-100.0%	0	-
CIN HUB 5MW REAL TIME PK	0	294	-100.0%	0	-
COAL SWAP	0	0	-	0	-
COLUMB GULF MAINLINE NG B	0	44	-100.0%	0	-
CONWAY NATURAL GASOLINE (	2,283	833	174.1%	2,328	-1.9%
CONWAY NORMAL BUTANE (OPI	1,879	2,195	-14.4%	1,674	12.2%
CONWAY PROPANE 5 DECIMALS	25,883	26,349	-1.8%	27,075	-4.4%
CRUDE OIL	8	6,936	-99.9%	8	0.0%
CRUDE OIL LAST DAY	0	0	-	0	-
CRUDE OIL OUTRIGHTS	121,094	157,115	-22.9%	143,433	-15.6%
CRUDE OIL PHY	2,132,840	2,023,568	5.4%	2,184,485	-2.4%
CRUDE OIL SPRDS	83,804	98,942	-15.3%	88,825	-5.7%
CRUDE OIL TRADE AT MARKER	0	0	0.0%	0	0.0%
DAILY PJM	23,708	57,607	-58.8%	32,128	-26.2%
DATED BRENT (PLATTS) DAILY S	0	0	-	0	-
DATED TO FRONTLINE BRENT	1,350	150	800.0%	785	72.0%
DIESEL 10P BRG FOB RDM VS	0	0	-	0	-
DOMINION TRAN INC - APP I	0	0	-	0	-
DOMINION TRANSMISSION INC	0	492	-100.0%	18	-100.0%
DUBAI CRUDE OIL BALMO	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	0	100	-100.0%	0	-
DUTCH TTF NATURAL GAS CAL	13,262	27,788	-52.3%	15,243	-13.0%
EAST/WEST FUEL OIL SPREAD	0	3	-100.0%	0	-
EIA FLAT TAX ONHWAY DIESE	2,343	5,176	-54.7%	2,820	-16.9%
ELEC FINSETTLED	0	128	-100.0%	0	-
ELEC MISO PEAK	0	0	-	0	-
ELEC NYISO OFF-PEAK	0	0	-	0	-
ELECTRICITY OFF PEAK	0	2,370	-100.0%	0	-
ETHANOL	0	68	-100.0%	0	-
ETHANOL SWAP	790	510	54.9%	690	14.5%
ETHANOL T2 FOB ROTT INCL DU	8,844	7,502	17.9%	8,161	8.4%
EURO 1% FUEL OIL NEW BALM	0	0	-	0	-
EURO 3.5% FUEL OIL RDAM B	30	0	-	10	200.0%
EURO 3.5% FUEL OIL SPREAD	0	0	-	0	-

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<b>Energy Futures</b>					
EURO GASOIL 10PPM VS ICE	1,768	0	-	1,082	63.4%
EUROPE 1% FUEL OIL NWE CA	66	0	-	74	-10.8%
EUROPE 1% FUEL OIL RDAM C	0	0	-	0	-
EUROPE 3.5% FUEL OIL MED	0	0	-	0	-
EUROPE 3.5% FUEL OIL RDAM	261	805	-67.6%	227	15.0%
EUROPEAN GASOIL (ICE)	3,531	73	4,737.0%	3,381	4.4%
EUROPEAN NAPHTHA BALMO	0	0	-	23	-100.0%
EUROPEAN NAPHTHA CRACK SP	7,613	3,514	116.6%	7,243	5.1%
EUROPE DATED BRENT SWAP	11	33	-66.7%	12	-8.3%
EUROPE JET KERO NWE CALSW	0	0	-	10	-100.0%
EUROPE NAPHTHA CALSWAP	1,399	823	70.0%	1,280	9.3%
EURO PROPANE CIF ARA SWA	2,754	2,716	1.4%	2,559	7.6%
FREIGHT MARKETS	1,071	2,773	-61.4%	851	25.9%
FUEL OIL CRACK VS ICE	1,701	2,588	-34.3%	1,832	-7.2%
FUEL OIL NWE CRACK VS ICE	72	39	84.6%	72	0.0%
FUEL OIL (PLATS) CAR CM	0	0	-	0	-
FUEL OIL (PLATS) CAR CN	0	0	-	0	-
FUELOIL SWAP:CARGOES VS.B	27	188	-85.6%	36	-25.0%
GAS EURO-BOB OXY NWE BARG	1,783	2,389	-25.4%	1,792	-0.5%
GAS EURO-BOB OXY NWE BARG	15,870	15,993	-0.8%	15,646	1.4%
GASOIL 0.1CIF MED VS ICE	60	0	-	60	0.0%
GASOIL 0.1 CIF NWE VS ISE	0	0	-	0	-
GASOIL 0.1 RDAM BRGS VS I	9	0	-	17	-47.1%
GASOIL 0.1 ROTTERDAM BARG	88	30	193.3%	83	6.0%
GASOIL 10PPM VS ICE SWAP	0	0	-	0	-
GASOIL CALENDAR SWAP	496	68	629.4%	352	40.9%
GASOIL CRACK SPREAD CALEN	6,156	3,147	95.6%	7,269	-15.3%
GASOIL MINI CALENDAR SWAP	1,306	1,154	13.2%	1,452	-10.1%
GERMAN POWER BASELOAD CA	321	1,104	-70.9%	418	-23.2%
GROUP THREE ULSD (PLATTS)	0	0	-	0	-
GROUP THREE UNLEAD GAS (P	0	0	-	0	-
GRP THREE ULSD(PLT)VS HEA	7,125	6,778	5.1%	8,065	-11.7%
GRP THREE UNL GS (PLT) VS	3,972	2,810	41.4%	4,258	-6.7%
GULF COAST 3% FUEL OIL BA	0	375	-100.0%	0	-
GULF COAST JET FUEL CLNDR	0	2,274	-100.0%	0	-
GULF COAST JET VS NYM 2 H	18,761	20,297	-7.6%	19,835	-5.4%
GULF COAST NO.6 FUEL OIL	13,310	10,514	26.6%	8,883	49.8%
GULF COAST ULSD CALENDAR	2,280	6,673	-65.8%	2,859	-20.3%
GULF COAST ULSD CRACK SPR	30	300	-90.0%	40	-25.0%
HEATING OIL BALMO CLNDR S	394	100	294.0%	200	97.0%
HEATING OIL CRCK SPRD BAL	0	0	-	0	-
HEATING OIL PHY	425,220	407,884	4.3%	435,578	-2.4%
HENRY HUB BASIS SWAP	0	0	-	0	-
HENRY HUB FINANCIAL LAST	0	50	-100.0%	0	-
HENRY HUB INDEX SWAP FUTU	0	868	-100.0%	0	-
HENRY HUB SWAP	530,920	697,242	-23.9%	543,173	-2.3%
HOUSTON SHIP CHANNEL BASI	305	2,618	-88.3%	460	-33.7%
HTG OIL	129	118	9.3%	128	0.8%
ICE BRENT DUBAI SWAP	2,477	11,089	-77.7%	2,772	-10.6%
ICE GASOIL BALMO SWAP	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2021	Open Interest OCT 2020	% CHG	Open Interest SEP 2021	% CHG
<b>Energy Futures</b>					
INDIANA MISO	0	901	-100.0%	0	-
INDONESIAN COAL ICI4	60	383	-84.3%	60	0.0%
JAPAN C&F NAPHTHA CRACK S	0	0	-	0	-
JAPAN C&F NAPHTHA SWAP	181	302	-40.1%	207	-12.6%
JAPAN NAPHTHA BALMO SWAP	0	0	-	12	-100.0%
JET AV FUEL (P) CAR FM ICE GA	0	0	-	0	-
JET CIF NWE VS ICE	736	15	4,806.7%	741	-0.7%
JET FUEL CRG CIF NEW VS I	0	0	-	0	-
JET FUEL UP-DOWN BALMO CL	1,160	1,095	5.9%	3,040	-61.8%
JKM LNG Futures	2,559	8,865	-71.1%	2,761	-7.3%
LA CARB DIESEL (OPIS) SWA	340	224	51.8%	620	-45.2%
LA CARBOB GASOLINE(OPIS)S	0	0	-	0	-
LA JET (OPIS) SWAP	1,205	622	93.7%	1,220	-1.2%
LLS (ARGUS) CALENDAR SWAP	0	114	-100.0%	0	-
LLS (ARGUS) VS WTI SWAP	2,772	5,387	-48.5%	2,598	6.7%
LOS ANGELES CARB GASOLINE	0	0	-	0	-
LTD NAT GAS	539,921	384,385	40.5%	563,174	-4.1%
MARS (ARGUS) VS WTI SWAP	530	270	96.3%	340	55.9%
MARS (ARGUS) VS WTI TRD M	13,450	13,416	0.3%	15,090	-10.9%
MARS BLEND CRUDE OIL	0	0	-	0	-
MCCLOSKEY ARA ARGS COAL	20,996	16,616	26.4%	18,164	15.6%
MCCLOSKEY RCH BAY COAL	1,450	1,230	17.9%	1,232	17.7%
MGF FUT	0	0	-	0	-
MGN1 SWAP FUT	0	105	-100.0%	0	-
MICHIGAN BASIS	0	0	-	0	-
MICHIGAN MISO	0	0	-	0	-
MINI GAS EUROBOB OXY NWE A	0	334	-100.0%	17	-100.0%
MINI RBOB V. EBOBARG NWE BF	0	320	-100.0%	0	-
MINI RBOB V. EBOB(ARGUS) NW	740	1,049	-29.5%	1,117	-33.8%
MINY HTG OIL	0	0	-	0	0.0%
MINY NATURAL GAS	4,249	5,701	-25.5%	6,922	-38.6%
MINY RBOB GAS	0	2	-100.0%	1	-100.0%
MINY WTI CRUDE OIL	4,295	3,236	32.7%	5,667	-24.2%
MJC FUT	40	15	166.7%	40	0.0%
MNC FUT	2,047	976	109.7%	2,222	-7.9%
MONT BELVIEU ETHANE 5 DECI	52,443	63,105	-16.9%	53,976	-2.8%
MONT BELVIEU ETHANE OPIS B	4,571	660	592.6%	665	587.4%
MONT BELVIEU LDH PROPANE 5	136,177	143,421	-5.1%	132,814	2.5%
MONT BELVIEU LDH PROPANE C	2,368	3,237	-26.8%	3,363	-29.6%
MONT BELVIEU NATURAL GASO	34,084	32,741	4.1%	32,970	3.4%
MONT BELVIEU NATURAL GASO	710	325	118.5%	1,195	-40.6%
MONT BELVIEU NORMAL BUTAN	64,654	70,165	-7.9%	64,768	-0.2%
MONT BELVIEU NORMAL BUTAN	1,334	1,677	-20.5%	1,448	-7.9%
NAT GAS BASIS SWAP	0	0	-	0	-
NATURAL GAS	173,454	127,883	35.6%	150,044	15.6%
NATURAL GAS PEN SWP	200,531	220,836	-9.2%	204,059	-1.7%
NATURAL GAS PHY	1,267,567	1,172,915	8.1%	1,366,597	-7.2%
NEPOOL INTR HUB 5MW D AH	19,875	188,473	-89.5%	31,243	-36.4%
NEPOOL NE MASS 5MW D AH O	0	0	-	0	-
NEPOOL NE MASS 5MW D AH P	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2021	Open Interest OCT 2020	% CHG	Open Interest SEP 2021	% CHG
<b>Energy Futures</b>					
NEW ENGLAND HUB PEAK DAIL	896	1,085	-17.4%	896	0.0%
NEW YORK ETHANOL SWAP	480	580	-17.2%	345	39.1%
NEW YORK HUB ZONE G PEAK	320	1,071	-70.1%	320	0.0%
NEW YORK HUB ZONE J PEAK	0	248	-100.0%	0	-
NGPL MID-CONTINENT	0	520	-100.0%	0	-
NGPL TEX/OK	0	120	-100.0%	0	-
N ILLINOIS HUB DAILY	20	10	100.0%	20	0.0%
NO 2 UP-DOWN SPREAD CALEN	0	0	-	0	-
NORTHEN NATURAL GAS DEMA	0	0	-	0	-
NORTHEN NATURAL GAS VENTL	0	0	-	0	-
NORTHWEST ROCKIES BASIS S	0	122	-100.0%	0	-
N ROCKIES PIPE SWAP	0	0	-	0	-
NY1% VS GC SPREAD SWAP	90	480	-81.3%	120	-25.0%
NY 3.0% FUEL OIL (PLATTS	0	0	-	0	-
NY HARBOR 1% FUEL OIL BAL	0	0	-	0	-
NY HARBOR HEAT OIL SWP	9,650	11,162	-13.5%	9,257	4.2%
NY HARBOR LOW SULPUR GAS	905	615	47.2%	1,105	-18.1%
NY HARBOR RESIDUAL FUEL 1	725	1,152	-37.1%	675	7.4%
NY HARBOR RESIDUAL FUEL C	0	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	10,670	2,358	352.5%	9,414	13.3%
NYISO CAPACITY	0	62	-100.0%	0	-
NYISO ZONE A 5MW D AH O P	0	784	-100.0%	0	-
NYISO ZONE A 5MW D AH PK	0	0	-	0	-
NYISO ZONE G 5MW D AH O P	0	79,219	-100.0%	0	0.0%
NYISO ZONE G 5MW D AH PK	6,605	9,302	-29.0%	6,815	-3.1%
NYISO ZONE J 5MW D AH O P	0	1,176	-100.0%	0	-
NYISO ZONE J 5MW D AH PK	0	176	-100.0%	0	-
NYMEX ALUMINUM FUTURES	0	0	-	0	-
NYMEX ULSD VS NYMEX HO	0	0	-	0	-
NY ULSD (ARGUS) VS HEATING	429	1,646	-73.9%	41	946.3%
ONEOK OKLAHOMA NG BASIS	0	0	-	0	-
ONTARIO POWER SWAPS	0	0	-	0	-
PANHANDLE BASIS SWAP FUTU	0	330	-100.0%	39	-100.0%
PERMIAN BASIS SWAP	0	549	-100.0%	0	-
PETROCHEMICALS	17,333	13,529	28.1%	14,771	17.3%
PETRO CRCKS & SPRDS ASIA	150	360	-58.3%	175	-14.3%
PETRO CRCKS & SPRDS NA	38,823	42,843	-9.4%	39,519	-1.8%
PETRO CRK&SPRD EURO	2,600	2,880	-9.7%	2,654	-2.0%
PETROLEUM PRODUCTS	4,729	3,084	53.3%	2,724	73.6%
PETROLEUM PRODUCTS ASIA	839	608	38.0%	760	10.4%
PETRO OUTRIGHT EURO	20,757	15,838	31.1%	20,751	0.0%
PETRO OUTRIGHT NA	6,080	4,915	23.7%	4,889	24.4%
PJM AD HUB 5MW REAL TIME	28,700	62,934	-54.4%	30,845	-7.0%
PJM BGE DA OFF-PEAK	0	0	-	0	-
PJM BGE DA PEAK	0	0	-	0	-
PJM COMED 5MW D AH O PK	0	0	-	0	-
PJM COMED 5MW D AH PK	0	0	-	0	-
PJM DAILY	292	286	2.1%	312	-6.4%
PJM DAYTON DA OFF-PEAK	0	3,920	-100.0%	0	-
PJM DAYTON DA PEAK	0	220	-100.0%	0	-

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
PJM MONTHLY	0	0	-	0	-
PJM NI HUB 5MW REAL TIME	8,050	53,375	-84.9%	12,340	-34.8%
PJM NILL DA OFF-PEAK	0	0	-	0	-
PJM NILL DA PEAK	0	0	-	0	-
PJM OFF-PEAK LMP SWAP FUT	0	0	-	0	-
PJM PECO ZONE5MW PEAK CAL	0	0	-	0	-
PJM PSEG DA OFF-PEAK	0	0	-	0	-
PJM PSEG DA PEAK	0	0	-	0	-
PJM WESTH DA OFF-PEAK	0	784	-100.0%	0	-
PJM WESTHDA PEAK	0	44	-100.0%	0	-
PJM WESTH RT OFF-PEAK	225,820	323,705	-30.2%	233,980	-3.5%
PJM WESTH RT PEAK	23,557	28,573	-17.6%	26,455	-11.0%
PLASTICS	2,596	3,283	-20.9%	2,264	14.7%
PREMIUM UNLD 10P FOB MED	180	21	757.1%	0	-
PREMIUM UNLEAD 10PPM FOB	0	0	-	0	-
PREM UNL GAS 10PPM RDAM F	0	0	-	0	-
PREM UNL GAS 10PPM RDAM F	0	0	-	0	-
PROPANE NON-LDH MB (OPIS) B	890	2,375	-62.5%	879	1.3%
PROPANE NON-LDH MT. BEL (OF	49,076	60,165	-18.4%	52,291	-6.1%
RBOB CALENDAR SWAP	15,702	13,382	17.3%	14,588	7.6%
RBOB CRACK SPREAD	13,641	2,635	417.7%	12,042	13.3%
RBOB CRACK SPREAD BALMO S	0	0	-	0	-
RBOB GAS	91	91	0.0%	74	23.0%
RBOB GASOLINE BALMO CLNDR	713	229	211.4%	1,885	-62.2%
RBOB PHY	304,196	368,982	-17.6%	321,248	-5.3%
RBOB VS HEATING OIL SWAP	360	575	-37.4%	430	-16.3%
SAN JUAN BASIS SWAP	0	0	-	0	-
SAN JUAN PIPE SWAP	0	0	-	0	-
SINGAPORE 180CST BALMO	0	0	-	0	-
SINGAPORE 380CST BALMO	13	0	-	10	30.0%
SINGAPORE 380CST FUEL OIL	356	401	-11.2%	321	10.9%
SINGAPORE FUEL 180CST CAL	0	18	-100.0%	0	-
SINGAPORE FUEL OIL 180 CS	12	0	-	12	0.0%
SINGAPORE FUEL OIL SPREAD	0	45	-100.0%	0	-
SINGAPORE GASOIL	1,372	563	143.7%	1,517	-9.6%
SINGAPORE GASOIL CALENDAR	993	1,807	-45.0%	1,652	-39.9%
SINGAPORE GASOIL SWAP	2,096	1,375	52.4%	2,656	-21.1%
SINGAPORE GASOIL VS ICE	5,661	1,710	231.1%	5,111	10.8%
SINGAPORE JET KERO BALMO	0	0	-	0	-
SINGAPORE JET KERO GASOIL	1,950	575	239.1%	2,040	-4.4%
SINGAPORE JET KEROSENE SW	870	765	13.7%	600	45.0%
SINGAPORE MOGAS 92 UNLEAD	0	0	-	300	-100.0%
SINGAPORE MOGAS 92 UNLEAD	2,351	4,898	-52.0%	1,567	50.0%
SING FUEL	0	0	-	0	-
Sumas Basis Swap	0	0	-	0	-
TC2 ROTTERDAM TO USAC 37K	210	45	366.7%	15	1,300.0%
TC5 RAS TANURA TO YOKOHAM	480	225	113.3%	195	146.2%
TCO BASIS SWAP	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	5,485	6,992	-21.6%	5,310	3.3%
TEXAS EASTERN ZONE M-3 BA	0	1,179	-100.0%	0	-

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Futures</b>					
TRANSCO ZONE4 BASIS SWAP	0	250	-100.0%	0	-
TRANSCO ZONE 6 BASIS SWAP	0	0	-	0	-
UCM FUT	0	0	-	0	-
UK NBP NAT GAS CAL MTH FUT	0	120	-100.0%	0	-
ULSD UP-DOWN BALMO SWP	5,740	2,912	97.1%	3,670	56.4%
UP DOWN GC ULSD VS NMX HO	59,222	49,899	18.7%	67,425	-12.2%
WAHA BASIS	0	61	-100.0%	0	-
WTI-BRENT BULLET SWAP	0	0	0.0%	0	-
WTI-BRENT CALENDAR SWAP	94,679	84,354	12.2%	97,990	-3.4%
WTI CALENDAR	155,902	153,627	1.5%	151,765	2.7%
WTI MIDLAND CRUDE OIL	420	50	740.0%	840	-50.0%
WTS (ARGUS) VS WTI SWAP	46,961	70,794	-33.7%	44,430	5.7%
WTS (ARGUS) VS WTI TRD MT	7,588	10,315	-26.4%	8,261	-8.1%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Energy Options</b>					
BRENT CALENDAR SWAP	1,784	1,779	0.3%	2,263	-21.2%
BRENT CRUDE OIL 1 M CSO	145,500	4,800	2,931.3%	155,700	-6.6%
BRENT OIL LAST DAY	75,024	148,706	-49.5%	169,615	-55.8%
COAL API2 INDEX	1,055	0	-	980	7.7%
CRUDE OIL	0	0	-	0	-
CRUDE OIL 1MO	289,510	437,575	-33.8%	306,110	-5.4%
CRUDE OIL APO	227,877	252,780	-9.9%	226,570	0.6%
CRUDE OIL CALNDR STRIP	0	50	-100.0%	0	-
CRUDE OIL OUTRIGHTS	0	0	-	0	-
CRUDE OIL PHY	2,403,362	1,920,603	25.1%	2,233,949	7.6%
ELEC FINSETTLED	43	43	0.0%	43	0.0%
ETHANOL SWAP	8,331	11,839	-29.6%	5,888	41.5%
FREIGHT MARKETS	0	0	-	0	-
HEATING OIL CRK SPD AVG PRI	3,960	0	-	4,215	-6.0%
HEATING OIL PHY	33,228	21,461	54.8%	29,451	12.8%
HENRY HUB FINANCIAL LAST	29,077	37,478	-22.4%	31,157	-6.7%
HO 1 MONTH CLNDR OPTIONS	200	0	-	200	0.0%
LLS CRUDE OIL	100	1,200	-91.7%	200	-50.0%
MCCLOSKEY ARA ARGS COAL	726	4,467	-83.7%	726	0.0%
MCCLOSKEY RCH BAY COAL	0	50	-100.0%	0	-
NATURAL GAS 1 M CSO FIN	155,070	97,325	59.3%	133,275	16.4%
NATURAL GAS 2 M CSO FIN	14,000	1,500	833.3%	16,200	-13.6%
NATURAL GAS 3 M CSO FIN	0	0	-	0	-
NATURAL GAS 5 M CSO FIN	0	1,000	-100.0%	0	-
NATURAL GAS 6 M CSO FIN	31,300	15,400	103.2%	27,200	15.1%
NATURAL GAS OPT	36,285	75,160	-51.7%	45,480	-20.2%
NATURAL GAS OPTION ON CALE	47,384	24,440	93.9%	47,384	0.0%
NATURAL GAS PHY	2,508,003	2,463,456	1.8%	2,578,775	-2.7%
NATURAL GAS SUMMER STRIP	0	400	-100.0%	0	-
NATURAL GAS WINTER STRIP	0	0	-	0	-
N ROCKIES PIPE SWAP	0	0	-	0	-
NY HARBOR HEAT OIL SWP	7,764	7,376	5.3%	7,725	0.5%
PETROCHEMICALS	9,123	1,539	492.8%	9,319	-2.1%
PETRO OUTRIGHT EURO	0	6	-100.0%	0	-
PETRO OUTRIGHT NA	1,080	880	22.7%	1,000	8.0%
PJM WES HUB PEAK CAL MTH	850	1,510	-43.7%	850	0.0%
PJM WES HUB PEAK LMP 50MW	46	512	-91.0%	88	-47.7%
RBOB 1MO CAL SPD OPTIONS	0	0	-	0	-
RBOB CALENDAR SWAP	673	1,518	-55.7%	826	-18.5%
RBOB CRACK	0	0	-	0	-
RBOB PHY	13,382	8,977	49.1%	10,875	23.1%
SAN JUAN PIPE SWAP	0	0	-	0	-
SHORT TERM	0	0	-	0	-
SHORT TERM NATURAL GAS	0	100	-100.0%	0	-
WTI-BRENT BULLET SWAP	170,000	130,995	29.8%	220,575	-22.9%
WTI CRUDE OIL 1 M CSO FI	87,425	235,520	-62.9%	103,700	-15.7%

### FX Futures

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	Open Interest OCT 2021	Open Interest OCT 2020	% CHG	Open Interest SEP 2021	% CHG
<b>FX Futures</b>					
AD/CD CROSS RATES	31	0	-	24	29.2%
AD/JY CROSS RATES	462	232	99.1%	132	250.0%
AD/NE CROSS RATES	91	33	175.8%	67	35.8%
AUSTRALIAN DOLLAR	161,582	136,260	18.6%	189,976	-14.9%
BP/JY CROSS RATES	927	435	113.1%	484	91.5%
BP/SF CROSS RATES	1,101	95	1,058.9%	1,368	-19.5%
BRAZIL REAL	46,623	47,939	-2.7%	31,264	49.1%
BRITISH POUND	161,368	147,689	9.3%	186,375	-13.4%
CANADIAN DOLLAR	154,736	121,141	27.7%	120,866	28.0%
CD/JY CROSS RATES	49	1	4,800.0%	30	63.3%
CHINESE RENMINBI (CNH)	3,111	3,927	-20.8%	3,289	-5.4%
CZECK KORUNA (EC)	0	2	-100.0%	0	-
CZECK KORUNA (US)	0	1	-100.0%	0	-
EC/AD CROSS RATES	3,027	2,486	21.8%	2,511	20.5%
EC/CD CROSS RATES	4,571	2,384	91.7%	4,025	13.6%
EC/NOK CROSS RATES	631	192	228.6%	763	-17.3%
EC/SEK CROSS RATES	639	577	10.7%	505	26.5%
EFX/BP CROSS RATES	32,830	24,766	32.6%	30,160	8.9%
EFX/JY CROSS RATES	23,521	20,882	12.6%	28,205	-16.6%
EFX/SF CROSS RATES	13,741	11,108	23.7%	8,350	64.6%
E-MICRO USD/CAD	552	0	-	7	7,785.7%
E-MICRO USD/CHF	13	0	-	0	-
E-MICRO USD/JPY	212	0	-	34	523.5%
E-MINI EURO FX	19,613	14,814	32.4%	18,160	8.0%
E-MINI JAPANESE YEN	806	515	56.5%	599	34.6%
EURO FX	681,666	632,770	7.7%	686,562	-0.7%
HUNGARIAN FORINT (EC)	0	0	-	0	-
HUNGARIAN FORINT (US)	1	17	-94.1%	0	-
INDIAN RUPEE	1,194	1,492	-20.0%	2,391	-50.1%
JAPANESE YEN	258,190	187,992	37.3%	232,813	10.9%
KOREAN WON	901	613	47.0%	1,084	-16.9%
MEXICAN PESO	167,395	123,737	35.3%	177,676	-5.8%
MICRO AUD/USD	5,723	8,078	-29.2%	4,708	21.6%
MICRO CAD/USD	2,712	2,232	21.5%	2,437	11.3%
MICRO CHF/USD	1,851	936	97.8%	1,173	57.8%
MICRO EUR/USD	21,308	14,769	44.3%	21,719	-1.9%
MICRO GBP/USD	2,193	5,613	-60.9%	2,441	-10.2%
MICRO INR/USD	16	149	-89.3%	148	-89.2%
MICRO JPY/USD	3,411	2,761	23.5%	2,314	47.4%
MICRO USD/CNH	0	0	-	0	-
NEW ZEALND DOLLAR	45,119	38,454	17.3%	35,381	27.5%
NKR/USD CROSS RATE	1,562	1,627	-4.0%	1,620	-3.6%
POLISH ZLOTY (EC)	148	61	142.6%	97	52.6%
POLISH ZLOTY (US)	544	234	132.5%	607	-10.4%
RMB USD	0	1	-100.0%	0	-
RUSSIAN RUBLE	59,725	22,743	162.6%	52,234	14.3%
S.AFRICAN RAND	13,670	14,134	-3.3%	14,517	-5.8%
SF/JY CROSS RATES	24	5	380.0%	9	166.7%
SHEKEL	16	5	220.0%	0	0.0%
SKR/USD CROSS RATES	1,092	1,458	-25.1%	1,197	-8.8%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2021	Open Interest OCT 2020	% CHG	Open Interest SEP 2021	% CHG
<b>FX Futures</b>					
SWISS FRANC	51,525	50,806	1.4%	58,923	-12.6%
TURKISH LIRA	75	1,054	-92.9%	91	-17.6%
USDZAR	1	0	-	0	-
<b>FX Options</b>					
AUD/USD MONDAY OPTION WEE	1,108	119	831.1%	662	67.4%
AUD/USD MONDAY OPTION WEE	474	11	4,209.1%	82	478.0%
AUD/USD MONDAY OPTION WEE	453	210	115.7%	170	166.5%
AUD/USD MONDAY OPTION WEE	0	100	-100.0%	46	-100.0%
AUD/USD MONDAY OPTION WEE	0	0	-	0	-
AUD/USD MONTHLY OPTIONS	193,652	59,084	227.8%	195,324	-0.9%
AUD/USD WKLY FRIDAY OPTION	0	0	-	2,564	-100.0%
AUD/USD WKLY FRIDAY OPTION	1,877	620	202.7%	0	-
AUD/USD WKLY FRIDAY OPTION	595	731	-18.6%	1,544	-61.5%
AUD/USD WKLY FRIDAY OPTION	545	354	54.0%	920	-40.8%
AUD/USD WKLY FRIDAY OPTION	0	0	0.0%	418	-100.0%
AUD/USD WKLY WED OPTIONS -	2,821	1,050	168.7%	147	1,819.0%
AUD/USD WKLY WED OPTIONS -	323	67	382.1%	784	-58.8%
AUD/USD WKLY WED OPTIONS -	0	273	-100.0%	0	-
AUD/USD WKLY WED OPTIONS -	0	0	-	0	-
AUD/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
BRL/USD MONTHLY OPTIONS	501	10	4,910.0%	0	-
CAD/USD MONDAY OPTIONS WE	530	610	-13.1%	1,531	-65.4%
CAD/USD MONDAY OPTIONS WE	336	39	761.5%	3,004	-88.8%
CAD/USD MONDAY OPTIONS WE	380	0	-	585	-35.0%
CAD/USD MONDAY OPTIONS WE	0	150	-100.0%	100	-100.0%
CAD/USD MONDAY OPTIONS WE	0	0	-	0	-
CAD/USD MONTHLY OPTIONS	200,525	50,356	298.2%	226,659	-11.5%
CAD/USD WKLY FRIDAY OPTION	0	0	-	10,074	-100.0%
CAD/USD WKLY FRIDAY OPTION	1,901	1,046	81.7%	0	-
CAD/USD WKLY FRIDAY OPTION	657	1,069	-38.5%	5,198	-87.4%
CAD/USD WKLY FRIDAY OPTION	1,477	518	185.1%	1,568	-5.8%
CAD/USD WKLY FRIDAY OPTION	0	0	0.0%	1,734	-100.0%
CAD/USD WKLY WED OPTIONS -	1,423	1,194	19.2%	4,737	-70.0%
CAD/USD WKLY WED OPTIONS -	1,053	509	106.9%	1,351	-22.1%
CAD/USD WKLY WED OPTIONS -	143	36	297.2%	844	-83.1%
CAD/USD WKLY WED OPTIONS -	0	0	-	100	-100.0%
CAD/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
CHF/USD MONTHLY OPTIONS	22,371	10,357	116.0%	18,068	23.8%
CHF/USD WKLY FRIDAY OPTION	0	0	-	92	-100.0%
CHF/USD WKLY FRIDAY OPTION	51	253	-79.8%	0	-
CHF/USD WKLY FRIDAY OPTION	153	0	-	152	0.7%
CHF/USD WKLY FRIDAY OPTION	0	0	-	19	-100.0%
CHF/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-
EUR/GBP MONTHLY OPTIONS	0	0	-	6	-100.0%
EUR/GBP WKLY FRIDAY OPTION	0	0	-	0	-
EUR/USD MONDAY OPTION WEE	2,615	4,200	-37.7%	896	191.9%
EUR/USD MONDAY OPTION WEE	278	1,276	-78.2%	55	405.5%
EUR/USD MONDAY OPTION WEE	1,167	27	4,222.2%	267	337.1%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2021	Open Interest OCT 2020	% CHG	Open Interest SEP 2021	% CHG
<b>FX Options</b>					
EUR/USD MONDAY OPTION WEE	287	0	-	89	222.5%
EUR/USD MONDAY OPTION WEE	0	0	-	0	-
EUR/USD MONTHLY OPTIONS	197,168	242,167	-18.6%	201,859	-2.3%
EUR/USD WKLY FRIDAY OPTION	0	0	-	14,140	-100.0%
EUR/USD WKLY FRIDAY OPTION	6,258	2,576	142.9%	0	-
EUR/USD WKLY FRIDAY OPTION	937	606	54.6%	5,327	-82.4%
EUR/USD WKLY FRIDAY OPTION	1,067	627	70.2%	2,092	-49.0%
EUR/USD WKLY FRIDAY OPTION	0	0	0.0%	3,342	-100.0%
EUR/USD WKLY WED OPTIONS -	5,633	7,066	-20.3%	3,840	46.7%
EUR/USD WKLY WED OPTIONS -	1,896	447	324.2%	1,371	38.3%
EUR/USD WKLY WED OPTIONS -	287	402	-28.6%	164	75.0%
EUR/USD WKLY WED OPTIONS -	188	0	-	146	28.8%
EUR/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
GBP/USD MONDAY OPTION WEE	977	298	227.9%	942	3.7%
GBP/USD MONDAY OPTION WEE	229	533	-57.0%	280	-18.2%
GBP/USD MONDAY OPTION WEE	34	30	13.3%	426	-92.0%
GBP/USD MONDAY OPTION WEE	306	0	-	0	-
GBP/USD MONDAY OPTION WEE	0	0	-	0	-
GBP/USD MONTHLY OPTIONS	97,359	158,350	-38.5%	87,097	11.8%
GBP/USD WKLY FRIDAY OPTION	0	0	-	3,329	-100.0%
GBP/USD WKLY FRIDAY OPTION	2,629	1,814	44.9%	0	-
GBP/USD WKLY FRIDAY OPTION	828	1,496	-44.7%	1,889	-56.2%
GBP/USD WKLY FRIDAY OPTION	866	1,063	-18.5%	1,729	-49.9%
GBP/USD WKLY FRIDAY OPTION	0	0	0.0%	833	-100.0%
GBP/USD WKLY WED OPTIONS -	820	1,191	-31.2%	251	226.7%
GBP/USD WKLY WED OPTIONS -	412	419	-1.7%	239	72.4%
GBP/USD WKLY WED OPTIONS -	470	2	23,400.0%	0	-
GBP/USD WKLY WED OPTIONS -	0	0	-	0	-
GBP/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
JPY/USD MONDAY OPTION WEE	545	1,888	-71.1%	133	309.8%
JPY/USD MONDAY OPTION WEE	374	563	-33.6%	515	-27.4%
JPY/USD MONDAY OPTION WEE	14	81	-82.7%	185	-92.4%
JPY/USD MONDAY OPTION WEE	53	1,217	-95.6%	169	-68.6%
JPY/USD MONDAY OPTION WEE	0	0	-	0	-
JPY/USD MONTHLY OPTIONS	98,518	87,874	12.1%	96,002	2.6%
JPY/USD WKLY FRIDAY OPTION	0	0	-	6,120	-100.0%
JPY/USD WKLY FRIDAY OPTION	1,682	840	100.2%	0	-
JPY/USD WKLY FRIDAY OPTION	1,390	923	50.6%	1,578	-11.9%
JPY/USD WKLY FRIDAY OPTION	1,618	466	247.2%	1,065	51.9%
JPY/USD WKLY FRIDAY OPTION	0	0	0.0%	724	-100.0%
JPY/USD WKLY WED OPTIONS -	5,238	3,907	34.1%	2,441	114.6%
JPY/USD WKLY WED OPTIONS -	1,304	36	3,522.2%	2,105	-38.1%
JPY/USD WKLY WED OPTIONS -	168	583	-71.2%	228	-26.3%
JPY/USD WKLY WED OPTIONS -	0	0	-	100	-100.0%
JPY/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
JPY/USD WKLY WED OPTIONS -	0	0	-	0	0.0%
MXN/USD MONTHLY OPTIONS	3,289	1,872	75.7%	3,523	-6.6%
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2021	Open Interest OCT 2020	% CHG	Open Interest SEP 2021	% CHG
<b>FX Options</b>					
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD MONTHLY OPTIONS	451	159	183.6%	26	1,634.6%
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD WKLY FRIDAY OPTION	50	0	-	0	-
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
RUB/USD MONTHLY OPTIONS	0	61	-100.0%	0	-
<b>Foreign Exchange Futures</b>					
CHILEAN PESO	0	0	-	0	-
<b>Foreign Exchange Options</b>					
AUD/USD WKLY WED OPTIONS -	0	151	-100.0%	1	-100.0%
<b>Ags Futures</b>					
FERTILIZER PRODUCTS	6,015	5,144	16.9%	5,699	5.5%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2021	Open Interest OCT 2020	% CHG	Open Interest SEP 2021	% CHG
<b>Ag Products Futures</b>					
BLOCK CHEESE	3,288	410	702.0%	3,004	9.5%
BUTTER CS	8,211	9,111	-9.9%	6,689	22.8%
CASH-SETTLED CHEESE	19,909	24,615	-19.1%	18,396	8.2%
CAT ASIA WEATHER	0	0	-	0	-
CATTLE	291,921	274,596	6.3%	291,695	0.1%
CAT WEATHER EUROPEAN	0	0	-	0	-
CDD SEASONAL STRIP	0	0	-	1,150	-100.0%
CDD WEATHER	0	0	-	1,650	-100.0%
CHI WHEAT	407,965	455,563	-10.4%	356,654	14.4%
CLASS IV MILK	7,711	4,767	61.8%	4,410	74.9%
COCOA TAS	0	0	-	0	-
COFFEE	0	0	-	0	-
CORN	1,477,556	1,694,701	-12.8%	1,398,058	5.7%
COTTON	0	0	-	0	-
DJ_UBS ROLL SELECT INDEX FU	7,628	2,178	250.2%	6,538	16.7%
DOW-UBS COMMOD INDEX	36,055	20,812	73.2%	32,718	10.2%
DRY WHEY	3,341	3,383	-1.2%	3,036	10.0%
FEEDER CATTLE	43,044	43,000	0.1%	42,569	1.1%
FERTILIZER PRODUCTS	0	190	-100.0%	0	-
GOLDMAN SACHS	1,737	5,574	-68.8%	1,691	2.7%
GSCI EXCESS RETURN FUT	54,423	45,830	18.7%	53,730	1.3%
HDD EURO SEASONAL STRIP	0	0	-	0	-
HDD SEASONAL STRIP	500	0	-	350	42.9%
HDD WEATHER	8,850	25,700	-65.6%	1,300	580.8%
HDD WEATHER EUROPEAN	4,450	1,000	345.0%	3,000	48.3%
HOGS	234,606	217,159	8.0%	255,038	-8.0%
HOUSING INDEX	40	49	-18.4%	41	-2.4%
Intercommodity Spread	0	0	-	0	-
KC WHEAT	234,264	248,100	-5.6%	223,752	4.7%
LUMBER	1,750	2,723	-35.7%	1,766	-0.9%
MALAYSIAN PALM SWAP	17,850	14,957	19.3%	21,630	-17.5%
MILK	26,005	24,615	5.6%	21,774	19.4%
MINI CORN	17,330	11,867	46.0%	14,882	16.4%
MINI SOYBEAN	10,217	12,394	-17.6%	18,476	-44.7%
MINI WHEAT	4,564	3,951	15.5%	3,700	23.4%
MLK MID OPTIONS	0	0	-	0	0.0%
NFD MILK	8,625	7,455	15.7%	6,859	25.7%
OATS	5,480	5,861	-6.5%	4,702	16.5%
PACIFIC RIM DAT SS WTHR	1,000	0	-	1,000	0.0%
PORK CUTOUT	800	0	-	747	7.1%
ROUGH RICE	7,893	9,092	-13.2%	9,098	-13.2%
SOYBEAN	612,195	918,647	-33.4%	695,451	-12.0%
SOYBEAN MEAL	443,861	441,987	0.4%	372,804	19.1%
SOYBEAN OIL	418,545	474,877	-11.9%	381,205	9.8%
S&P GSCI ENHANCED ER SWAP	1,001	3,762	-73.4%	1,001	0.0%
SUGAR 11	0	0	-	0	-
USD CRUDE PALM OIL	25,922	6,783	282.2%	14,677	76.6%
WHEAT	22,153	30,861	-28.2%	22,750	-2.6%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest OCT 2021	Open Interest OCT 2020	% CHG	Open Interest SEP 2021	% CHG
<b>Ag Products Options</b>					
AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-
BLOCK CHEESE	1,329	1,716	-22.6%	1,287	3.3%
BUTTER CS	8,188	9,028	-9.3%	6,040	35.6%
CASH-SETTLED CHEESE	16,987	38,895	-56.3%	13,626	24.7%
CATTLE	171,470	155,920	10.0%	185,046	-7.3%
CAT WEATHER EUROPEAN	0	0	-	0	-
CDD SEASONAL STRIP	0	0	-	4,200	-100.0%
CDD WEATHER	0	0	-	1,000	-100.0%
CHI WHEAT	301,121	391,547	-23.1%	245,102	22.9%
CLASS IV MILK	23,814	9,262	157.1%	18,638	27.8%
CORN	1,540,043	1,384,295	11.3%	1,484,947	3.7%
CORN NEARBY+2 CAL SPRD	24,613	14,835	65.9%	16,308	50.9%
DEC-DEC CORN CAL SPRD	1,977	2,839	-30.4%	877	125.4%
DEC-JULY CORN CAL SPRD	10,985	2,602	322.2%	7,585	44.8%
DEC-JULY WHEAT CAL SPRD	0	1,335	-100.0%	0	-
DRY WHEY	1,066	2,051	-48.0%	1,056	0.9%
FEEDER CATTLE	18,669	17,038	9.6%	23,940	-22.0%
HDD EURO SEASONAL STRIP	2,000	6,000	-66.7%	1,500	33.3%
HDD SEASONAL STRIP	23,920	1,000	2,292.0%	21,420	11.7%
HDD WEATHER	1,000	4,975	-79.9%	0	-
HDD WEATHER EUROPEAN	18,000	0	-	17,000	5.9%
HOGS	197,815	158,851	24.5%	238,755	-17.1%
HOUSING INDEX	0	0	-	0	-
Intercommodity Spread	0	330	-100.0%	0	-
JAN-MAR SOYBEAN CSO	0	10	-100.0%	0	-
JULY-DEC CORN CAL SPRD	8,225	6,272	31.1%	8,225	0.0%
JULY-DEC SOYMEAL CAL SPRD	0	0	-	0	-
JULY-DEC SOY OIL CAL SPRD	0	29	-100.0%	0	-
JULY-DEC WHEAT CAL SPRD	0	500	-100.0%	0	-
JULY-JULY WHEAT CAL SPRD	0	10	-100.0%	0	-
JULY-NOV SOYBEAN CAL SPRD	650	103	531.1%	0	-
KC WHEAT	70,045	87,082	-19.6%	65,993	6.1%
LUMBER	304	265	14.7%	523	-41.9%
LV CATL CSO	0	0	-	0	-
MAR-DEC CORN CAL SPRD	0	0	-	0	-
MAR-JULY CORN CAL SPRD	50	0	-	0	0.0%
MAR-JULY SOYBEAN CAL SPRD	0	0	-	0	-
MAR-JULY WHEAT CAL SPRD	0	330	-100.0%	0	-
MILK	96,197	75,370	27.6%	77,444	24.2%
MLK MID OPTIONS	5	29	-82.8%	4	25.0%
NFD MILK	12,454	16,718	-25.5%	10,178	22.4%
NOV-JULY SOYBEAN CAL SPRD	0	0	-	0	-
NOV-MAR SOYBEAN CSO	0	0	-	100	-100.0%
NOV-NOV SOYBEAN CAL SPRD	0	0	-	0	-
OATS	1,480	793	86.6%	977	51.5%
PORK CUTOUT	1	0	-	11	-90.9%
ROUGH RICE	1,131	763	48.2%	1,050	7.7%
SOYBEAN	362,690	647,801	-44.0%	686,041	-47.1%
SOYBEAN CRUSH	218	1,222	-82.2%	479	-54.5%
SOYBEAN MEAL	146,709	229,462	-36.1%	131,167	11.8%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Ag Products Options</b>					
SOYBEAN OIL	184,185	190,694	-3.4%	165,059	11.6%
SOYBN NEARBY+2 CAL SPRD	260	4,430	-94.1%	6,071	-95.7%
SOYMEAL NEARBY+2 CAL SPRD	0	0	-	0	-
WHEAT	700	51	1,272.5%	2,122	-67.0%
WHEAT-CORN IC50	570	2,934	-80.6%	550	3.6%
WHEAT NEARBY+2 CAL SPRD	852	2,070	-58.8%	642	32.7%
<b>TOTAL FUTURES GROUP</b>					
Interest Rate Futures	29,240,860	23,176,034	26.2%	28,612,036	2.2%
Equity Index Futures	4,509,949	4,298,393	4.9%	4,356,028	3.5%
Metals Futures	1,082,563	1,192,913	-9.3%	1,049,949	3.1%
Energy Futures	7,509,421	7,851,640	-4.4%	7,761,716	-3.3%
FX Futures	1,950,299	1,647,220	18.4%	1,927,336	1.2%
Foreign Exchange Futures	0	0	-	0	-
Ags Futures	6,015	5,144	16.9%	5,699	5.5%
Ag Products Futures	4,470,690	5,046,570	-11.4%	4,297,991	4.0%
<b>TOTAL FUTURES</b>	<b>48,769,797</b>	<b>43,217,914</b>	<b>12.8%</b>	<b>48,010,755</b>	<b>1.6%</b>
<b>TOTAL OPTIONS GROUP</b>					
Interest Rate Options	36,586,252	35,291,207	3.7%	35,849,751	2.1%
Equity Index Options	4,234,559	3,464,851	22.2%	3,942,885	7.4%
Metals Options	1,089,533	1,312,224	-17.0%	966,880	12.7%
Energy Options	6,302,162	5,910,445	6.6%	6,370,339	-1.1%
FX Options	870,754	653,826	33.2%	924,000	-5.8%
Foreign Exchange Options	0	151	-100.0%	1	-100.0%
Ag Products Options	3,249,723	3,469,457	-6.3%	3,444,963	-5.7%
<b>TOTAL OPTIONS</b>	<b>52,332,983</b>	<b>50,102,161</b>	<b>4.5%</b>	<b>51,498,819</b>	<b>1.6%</b>
<b>TOTAL COMBINED</b>					
Interest Rate	65,827,112	58,467,241	12.6%	64,461,787	2.1%
Equity Index	8,744,508	7,763,244	12.6%	8,298,913	5.4%
Metals	2,172,096	2,505,137	-13.3%	2,016,829	7.7%
Energy	13,811,583	13,762,085	0.4%	14,132,055	-2.3%
FX	2,821,053	2,301,046	22.6%	2,851,336	-1.1%
Foreign Exchange	0	151	-100.0%	1	-100.0%
Ags	6,015	5,144	16.9%	5,699	5.5%
Ag Products	7,720,413	8,516,027	-9.3%	7,742,954	-0.3%
<b>GRAND TOTAL</b>	<b>101,102,780</b>	<b>93,320,075</b>	<b>8.3%</b>	<b>99,509,574</b>	<b>1.6%</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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