



## CME Group Exchange Open Interest Report - Monthly

	Open Interest DEC 2021	Open Interest DEC 2020	% CHG	Open Interest NOV 2021	% CHG
<b>Interest Rate Futures</b>					
10-YR NOTE	3,893,704	3,229,739	20.6%	3,805,378	2.3%
10-YR SWAP RATE	186,141	186,837	-0.4%	276,014	-32.6%
15-YR SWAP RATE	1,500	10,850	-86.2%	10,850	-86.2%
1-MONTH EURODOLLAR	670	0	-	2	33,400.0%
20-YR SWAP RATE	0	90	-100.0%	90	-100.0%
2-YR NOTE	1,960,430	1,921,520	2.0%	1,789,476	9.6%
2-YR SWAP RATE	129,443	34,989	270.0%	122,501	5.7%
30-YR BOND	1,199,037	1,161,812	3.2%	1,219,503	-1.7%
30-YR SWAP RATE	7,213	3,847	87.5%	9,133	-21.0%
3-YR NOTE	24,675	11,809	109.0%	24,853	-0.7%
3-YR SWAP RATE	68,124	13,929	389.1%	66,692	2.1%
4-YR SWAP RATE	11,436	6,498	76.0%	11,622	-1.6%
5-YR NOTE	3,762,255	3,291,189	14.3%	3,486,880	7.9%
5-YR SWAP RATE	112,549	57,522	95.7%	169,899	-33.8%
7-YR SWAP RATE	21,355	20,227	5.6%	21,598	-1.1%
EURODOLLARS	11,253,242	9,148,070	23.0%	12,219,922	-7.9%
FED FUND	1,375,475	1,119,168	22.9%	1,426,038	-3.5%
SOFR	1,848,115	681,246	171.3%	1,607,184	15.0%
SONIA	10,168	20,166	-49.6%	10,999	-7.6%
TIIE	75	0	-	120	-37.5%
Ultra 10-Year Note	1,368,765	1,004,029	36.3%	1,428,740	-4.2%
ULTRA T-BOND	1,244,576	1,044,130	19.2%	1,242,681	0.2%
<b>Interest Rate Options</b>					
10-YR NOTE	2,103,306	2,157,105	-2.5%	2,377,980	-11.6%
2-YR NOTE	39,781	5,965	566.9%	10,002	297.7%
30-YR BOND	427,757	547,051	-21.8%	557,563	-23.3%
5-YR NOTE	936,425	457,281	104.8%	915,912	2.2%
EURODOLLARS	18,616,814	16,852,463	10.5%	19,130,842	-2.7%
EURO MIDCURVE	10,900,377	6,428,856	69.6%	16,944,028	-35.7%
FED FUND	0	152	-100.0%	0	-
SOFR	2,623	8,100	-67.6%	2,901	-9.6%
Ultra 10-Year Note	0	0	-	0	-
ULTRA T-BOND	535	462	15.8%	448	19.4%

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<b>Equity Index Futures</b>					
BITCOIN FUTURES	12,050	10,839	11.2%	13,197	-8.7%
DJ US REAL ESTATE	46,534	29,253	59.1%	39,791	16.9%
E-mini (\$5) Dow	98,932	85,062	16.3%	101,603	-2.6%
E-MINI COM SERVICES SELECT	2,005	2,129	-5.8%	3,853	-48.0%
E-mini FTSE 100 (USD)	0	0	-	0	-
E-mini FTSE China 50	20	0	-	3	566.7%
E-MINI MIDCAP	37,703	52,210	-27.8%	40,778	-7.5%
E-MINI NASDAQ 100	208,988	220,853	-5.4%	258,476	-19.1%
E-MINI RUSSELL 1000	16,107	8,055	100.0%	17,133	-6.0%
E-MINI RUSSELL 1000 GROWTH	3,830	3,114	23.0%	3,234	18.4%
E-MINI RUSSELL 1000 VALUE	22,596	14,829	52.4%	27,065	-16.5%
E-MINI RUSSELL 2000	466,935	536,759	-13.0%	469,680	-0.6%
E-MINI S&P500	2,301,346	2,535,696	-9.2%	2,510,714	-8.3%
E-MINI S&P500 ESG	12,410	5,841	112.5%	13,107	-5.3%
E-MINI S&P REAL ESTATE SELE	7,627	3,791	101.2%	6,401	19.2%
ETHER FUTURES	4,206	0	-	4,981	-15.6%
FT-SE 100	365	0	-	366	-0.3%
FTSE Emerging	0	0	-	0	-
IBOVESPA INDEX	16	49	-67.3%	32	-50.0%
MICRO BITCOIN FUTURES	41,753	0	-	16,817	148.3%
MICRO E-MINI NASDAQ 100	57,375	50,771	13.0%	130,883	-56.2%
MICRO E-MINI RUSSELL 2000	18,808	14,465	30.0%	51,408	-63.4%
MICRO E-MINI S&P500	95,952	63,642	50.8%	191,030	-49.8%
MICRO ETHER FUTURES	22,314	0	-	0	-
MICRO MINI \$5 DOW	14,962	10,652	40.5%	34,151	-56.2%
NASDAQ-100 VOLATILITY	0	0	-	0	-
NASDAQ BIOTECH	31	36	-13.9%	273	-88.6%
Nearby BTIC+	350	0	-	0	-
NIKKEI 225 (\$) STOCK	15,419	15,741	-2.0%	17,463	-11.7%
NIKKEI 225 (YEN) STOCK	41,674	44,650	-6.7%	52,198	-20.2%
S&P 500	226,423	136,655	65.7%	256,916	-11.9%
S&P 500 ANNUAL DIVIDEND IND	187,571	152,193	23.2%	234,974	-20.2%
S&P 500/GI	0	0	-	0	-
S&P 500 QUARLY DIVIDEND IND	11,587	4,092	183.2%	14,926	-22.4%
S&P 600 SMALLCAP EMINI	0	0	-	0	-
S&P CONSUMER DSCRTNRY SE	3,988	6,013	-33.7%	3,396	17.4%
S&P CONSUMER STAPLES SECT	11,930	7,892	51.2%	24,864	-52.0%
S&P ENERGY SECTOR	26,871	14,629	83.7%	31,935	-15.9%
S&P FINANCIAL SECTOR	25,984	25,453	2.1%	32,958	-21.2%
S&P HEALTH CARE SECTOR	19,813	10,250	93.3%	24,928	-20.5%
S&P INDUSTRIAL SECTOR	7,668	22,830	-66.4%	14,897	-48.5%
S&P MATERIALS SECTOR	9,169	6,818	34.5%	15,498	-40.8%
S&P TECHNOLOGY SECTOR	12,665	8,569	47.8%	13,815	-8.3%
S&P UTILITIES SECTOR	13,849	12,255	13.0%	22,701	-39.0%
S&P VALUE INDEX FUTURES	0	0	-	380	-100.0%
WATER INDEX FUTURES	8	22	-63.6%	1	700.0%
YEN DENOMINATED TOPIX	61	54	13.0%	245	-75.1%

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<b>Equity Index Options</b>					
BITCOIN OPTIONS	1,967	1,811	8.6%	971	102.6%
E-mini (\$5) Dow	893	846	5.6%	2,947	-69.7%
E-MINI NASDAQ 100	108,637	72,164	50.5%	179,852	-39.6%
E-MINI RUSSELL 2000	15,149	5,336	183.9%	40,826	-62.9%
E-MINI S&P500	1,553,218	1,092,806	42.1%	2,457,773	-36.8%
EOM E-MINI RUSSELL 2000 END	3,567	1,238	188.1%	6,263	-43.0%
EOM EMINI S&P	361,292	245,377	47.2%	512,175	-29.5%
EOM S&P 500	19,000	5,700	233.3%	40,400	-53.0%
EOW1 E-MINI RUSSELL 2000 WE	3,299	39	8,359.0%	4,441	-25.7%
EOW1 EMINI S&P 500	377,636	17,933	2,005.8%	353,974	6.7%
EOW1 S&P 500	0	0	-	0	-
EOW2 E-MINI RUSSELL 2000 WE	1,218	1,491	-18.3%	2,494	-51.2%
EOW2 EMINI S&P 500	155,717	142,061	9.6%	198,487	-21.5%
EOW2 S&P 500	0	5,300	-100.0%	0	-
EOW3 E-MINI RUSSELL 2000 WE	23,835	12,501	90.7%	11,418	108.7%
EOW3 EMINI S&P 500	1,117,253	721,568	54.8%	642,682	73.8%
EOW3 S&P 500	0	20,630	-100.0%	0	-
EOW4 E-MINI RUSSELL 2000 WE	202	995	-79.7%	38	431.6%
EOW4 EMINI S&P 500	42,339	36,561	15.8%	57,420	-26.3%
MICRO E-MINI NASDAQ	1,351	360	275.3%	3,297	-59.0%
MICRO E-MINI NASDAQ 100	1,310	0	-	1,258	4.1%
MICRO E-MINI NASDAQ END OF	733	167	338.9%	1,369	-46.5%
MICRO E-MINI NASDAQ WEEKLY	4,166	844	393.6%	2,477	68.2%
MICRO E-MINI S&P 500	17,668	2,982	492.5%	28,646	-38.3%
MICRO E-MINI S&P 500 END OF	6,882	1,520	352.8%	22,535	-69.5%
MICRO E-MINI S&P 500 WEEKLY	25,041	8,485	195.1%	21,276	17.7%
S&P 500	0	23,640	-100.0%	0	-

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<b>Metals Futures</b>					
ALUMINUM	56,986	58,061	-1.9%	53,265	7.0%
COBALT METAL FUTURES	1,454	3	48,366.7%	1,730	-16.0%
COMEX COPPER	181,604	247,597	-26.7%	184,214	-1.4%
COMEX E-Mini GOLD	1,558	2,762	-43.6%	1,410	10.5%
COMEX E-Mini SILVER	655	723	-9.4%	473	38.5%
COMEX GOLD	512,591	560,059	-8.5%	531,868	-3.6%
COMEX MINY COPPER	362	224	61.6%	351	3.1%
COMEX SILVER	140,153	171,426	-18.2%	138,003	1.6%
COPPER	16,214	17,066	-5.0%	17,244	-6.0%
FERROUS PRODUCTS	3,968	4,827	-17.8%	4,106	-3.4%
GOLD	1,057	652	62.1%	1,225	-13.7%
HOT ROLLED COIL STEEL FUTU	2,035	1,026	98.3%	1,938	5.0%
IRON ORE 62 CHINA PLATTS FU	0	0	-	0	-
IRON ORE 62 CHINA TSI FUTURE	0	0	-	0	-
IRON ORE CHINA	2,396	2,086	14.9%	2,409	-0.5%
LNDN ZINC	0	0	-	0	-
METALS	103	155	-33.5%	100	3.0%
MICRO GOLD	19,798	35,333	-44.0%	21,198	-6.6%
NYMEX HOT ROLLED STEEL	37,983	24,392	55.7%	37,391	1.6%
NYMEX PLATINUM	58,559	58,801	-0.4%	62,385	-6.1%
PALLADIUM	9,224	9,130	1.0%	9,621	-4.1%
SILVER	6,102	6,565	-7.1%	5,973	2.2%
URANIUM	800	303	164.0%	800	0.0%
<b>Metals Options</b>					
ALUMINUM	1,250	20	6,150.0%	1,450	-13.8%
COMEX COPPER	27,033	16,089	68.0%	45,734	-40.9%
COMEX GOLD	688,162	881,118	-21.9%	690,834	-0.4%
COMEX SILVER	85,185	90,724	-6.1%	80,102	6.3%
COPPER	0	0	-	1	-100.0%
GOLD	13,202	15,096	-12.5%	38,616	-65.8%
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	508	1,720	-70.5%	626	-18.8%
NYMEX HOT ROLLED STEEL	2,415	1,275	89.4%	1,985	21.7%
NYMEX PLATINUM	7,721	1,035	646.0%	15,215	-49.3%
PALLADIUM	325	633	-48.7%	221	47.1%
SILVER	1,954	563	247.1%	3,734	-47.7%
<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	15	84	-82.1%	10	50.0%
ANR OKLAHOMA	0	0	-	0	-
ARGUS LLS VS. WTI (ARG) T	10,528	13,400	-21.4%	11,876	-11.4%

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<b>Energy Futures</b>					
ARGUS PROPAN FAR EST INDE	5,080	4,916	3.3%	5,764	-11.9%
ARGUS PROPAN(SAUDI ARAMC	1,598	1,885	-15.2%	1,658	-3.6%
AUSTRIALIAN COKE COAL	0	0	-	0	-
BRENT BALMO SWAP	0	200	-100.0%	0	-
BRENT CALENDAR SWAP	31,145	11,560	169.4%	16,874	84.6%
BRENT FINANCIAL FUTURES	0	85	-100.0%	0	-
BRENT OIL LAST DAY	219,175	160,086	36.9%	217,781	0.6%
CAR VINTAGE	9,432	0	-	13,603	-30.7%
CENTERPOINT BASIS SWAP	0	0	-	0	-
CHICAGO ETHANOL SWAP	34,272	34,626	-1.0%	39,090	-12.3%
CHICAGO ULSD PL VS HO SPR	389	937	-58.5%	592	-34.3%
CHICAGO UNL GAS PL VS RBO	75	1,440	-94.8%	75	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	0	-	0	-
CIN HUB 5MW REAL TIME PK	0	0	-	0	-
COAL SWAP	0	0	-	0	-
COLUMB GULF MAINLINE NG B	0	0	-	0	-
CONWAY NATURAL GASOLINE (	2,194	756	190.2%	2,208	-0.6%
CONWAY NORMAL BUTANE (OPI	1,484	1,700	-12.7%	1,619	-8.3%
CONWAY PROPANE 5 DECIMALS	22,680	20,742	9.3%	24,104	-5.9%
CRUDE OIL	8	550	-98.5%	8	0.0%
CRUDE OIL LAST DAY	0	0	-	0	-
CRUDE OIL OUTRIGHTS	122,133	143,897	-15.1%	128,734	-5.1%
CRUDE OIL PHY	1,875,186	2,155,297	-13.0%	2,064,763	-9.2%
CRUDE OIL SPRDS	99,508	99,711	-0.2%	102,233	-2.7%
CRUDE OIL TRADE AT MARKER	0	0	0.0%	0	0.0%
DAILY PJM	6,328	30,540	-79.3%	17,864	-64.6%
DATED BRENT (PLATTS) DAILY S	0	0	-	0	-
DATED TO FRONTLINE BRENT	300	50	500.0%	900	-66.7%
DIESEL 10P BRG FOB RDM VS	0	0	-	0	-
DOMINION TRAN INC - APP I	0	0	-	0	-
DOMINION TRANSMISSION INC	0	126	-100.0%	0	-
DUBAI CRUDE OIL BALMO	0	0	-	0	-
DUBAI CRUDE OIL CALENDAR	0	100	-100.0%	0	-
DUTCH TTF NATURAL GAS CAL	9,768	21,962	-55.5%	11,109	-12.1%
EAST/WEST FUEL OIL SPREAD	0	1	-100.0%	0	-
EIA FLAT TAX ONHWAY DIESE	2,054	4,544	-54.8%	1,892	8.6%
ELEC FINSETTLED	0	44	-100.0%	0	-
ELEC MISO PEAK	0	0	-	0	-
ELEC NYISO OFF-PEAK	0	0	-	0	-
ELECTRICITY OFF PEAK	0	784	-100.0%	0	-
ETHANOL	0	126	-100.0%	0	-
ETHANOL SWAP	685	855	-19.9%	810	-15.4%
ETHANOL T2 FOB ROTT INCL DU	7,757	8,263	-6.1%	8,572	-9.5%
EURO 1% FUEL OIL NEW BALM	0	0	-	0	-
EURO 3.5% FUEL OIL RDAM B	0	0	-	35	-100.0%
EURO 3.5% FUEL OIL SPREAD	0	0	-	0	-

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<b>Energy Futures</b>					
EURO GASOIL 10PPM VS ICE	1,503	0	-	1,647	-8.7%
EUROPE 1% FUEL OIL NWE CA	60	0	-	60	0.0%
EUROPE 1% FUEL OIL RDAM C	0	0	-	0	-
EUROPE 3.5% FUEL OIL MED	0	0	-	0	-
EUROPE 3.5% FUEL OIL RDAM	246	675	-63.6%	269	-8.6%
EUROPEAN GASOIL (ICE)	2,084	77	2,606.5%	3,682	-43.4%
EUROPEAN NAPHTHA BALMO	22	0	-	75	-70.7%
EUROPEAN NAPHTHA CRACK SP	6,638	2,447	171.3%	7,034	-5.6%
EUROPE DATED BRENT SWAP	11	29	-62.1%	11	0.0%
EUROPE JET KERO NWE CALSW	0	0	-	0	-
EUROPE NAPHTHA CALSWAP	1,444	782	84.7%	1,430	1.0%
EURO PROPANE CIF ARA SWA	2,902	2,670	8.7%	2,703	7.4%
FREIGHT MARKETS	652	1,767	-63.1%	1,222	-46.6%
FUEL OIL CRACK VS ICE	1,371	1,752	-21.7%	1,536	-10.7%
FUEL OIL NWE CRACK VS ICE	72	13	453.8%	72	0.0%
FUEL OIL (PLATS) CAR CM	0	0	-	0	-
FUEL OIL (PLATS) CAR CN	0	0	-	0	-
FUELOIL SWAP:CARGOES VS.B	9	134	-93.3%	18	-50.0%
GAS EURO-BOB OXY NWE BARG	1,476	1,900	-22.3%	1,562	-5.5%
GAS EURO-BOB OXY NWE BARG	14,878	13,473	10.4%	15,080	-1.3%
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	3	17	-82.4%	6	-50.0%
GASOIL 0.1 ROTTERDAM BARG	106	27	292.6%	83	27.7%
GASOIL 10PPM VS ICE SWAP	0	0	-	0	-
GASOIL CALENDAR SWAP	635	93	582.8%	621	2.3%
GASOIL CRACK SPREAD CALEN	5,671	1,687	236.2%	5,709	-0.7%
GASOIL MINI CALENDAR SWAP	1,125	1,001	12.4%	1,289	-12.7%
GERMAN POWER BASELOAD CA	248	1,052	-76.4%	279	-11.1%
GROUP THREE ULSD (PLATTS)	0	0	-	0	-
GROUP THREE UNLEAD GAS (P	0	0	-	0	-
GRP THREE ULSD(PLT)VS HEA	5,620	4,108	36.8%	6,295	-10.7%
GRP THREE UNL GS (PLT) VS	4,411	4,840	-8.9%	3,847	14.7%
GULF COAST 3% FUEL OIL BA	0	45	-100.0%	28	-100.0%
GULF COAST JET FUEL CLNDR	0	1,758	-100.0%	0	-
GULF COAST JET VS NYM 2 H	19,109	23,193	-17.6%	16,771	13.9%
GULF COAST NO.6 FUEL OIL	13,599	10,180	33.6%	13,326	2.0%
GULF COAST ULSD CALENDAR	1,966	5,691	-65.5%	1,784	10.2%
GULF COAST ULSD CRACK SPR	10	180	-94.4%	20	-50.0%
HEATING OIL BALMO CLNDR S	95	0	-	235	-59.6%
HEATING OIL CRCK SPRD BAL	0	0	-	0	-
HEATING OIL PHY	303,334	362,667	-16.4%	298,300	1.7%
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	589,479	660,121	-10.7%	510,243	15.5%
HOUSTON SHIP CHANNEL BASI	0	1,825	-100.0%	155	-100.0%
HTG OIL	107	99	8.1%	118	-9.3%
ICE BRENT DUBAI SWAP	2,175	7,733	-71.9%	2,740	-20.6%
ICE GASOIL BALMO SWAP	0	0	-	0	-

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest DEC 2021	Open Interest DEC 2020	% CHG	Open Interest NOV 2021	% CHG
<b>Energy Futures</b>					
INDIANA MISO	0	889	-100.0%	0	-
INDONESIAN COAL ICI4	20	35	-42.9%	40	-50.0%
JAPAN C&F NAPHTHA CRACK S	6	0	-	6	0.0%
JAPAN C&F NAPHTHA SWAP	207	205	1.0%	170	21.8%
JAPAN NAPHTHA BALMO SWAP	0	0	-	6	-100.0%
JET AV FUEL (P) CAR FM ICE GA	0	0	-	0	-
JET CIF NWE VS ICE	640	5	12,700.0%	716	-10.6%
JET FUEL CRG CIF NEW VS I	0	0	-	0	-
JET FUEL UP-DOWN BALMO CL	3,535	1,405	151.6%	1,175	200.9%
JKM LNG Futures	2,093	6,440	-67.5%	3,044	-31.2%
LA CARB DIESEL (OPIS) SWA	450	100	350.0%	225	100.0%
LA CARBOB GASOLINE(OPIS)S	0	50	-100.0%	0	-
LA JET (OPIS) SWAP	1,260	995	26.6%	1,285	-1.9%
LLS (ARGUS) CALENDAR SWAP	0	92	-100.0%	0	-
LLS (ARGUS) VS WTI SWAP	3,299	4,082	-19.2%	2,963	11.3%
LOS ANGELES CARB GASOLINE	0	0	-	0	-
LTD NAT GAS	477,243	370,197	28.9%	512,489	-6.9%
MARS (ARGUS) VS WTI SWAP	210	170	23.5%	420	-50.0%
MARS (ARGUS) VS WTI TRD M	9,825	18,089	-45.7%	12,260	-19.9%
MARS BLEND CRUDE OIL	0	0	-	0	-
MCCLOSKEY ARA ARGS COAL	16,846	14,970	12.5%	20,405	-17.4%
MCCLOSKEY RCH BAY COAL	1,670	833	100.5%	1,720	-2.9%
MGF FUT	0	0	-	0	-
MGN1 SWAP FUT	0	55	-100.0%	0	-
MICHIGAN BASIS	0	0	-	0	-
MICHIGAN MISO	0	0	-	0	-
MINI GAS EUROBOB OXY NWE A	61	0	-	68	-10.3%
MINI RBOB V. EBOBARG NWE BF	0	50	-100.0%	0	-
MINI RBOB V. EBOB(ARGUS) NW	538	880	-38.9%	747	-28.0%
MINY HTG OIL	1	0	-	2	-50.0%
MINY NATURAL GAS	5,295	5,307	-0.2%	5,068	4.5%
MINY RBOB GAS	1	2	-50.0%	2	-50.0%
MINY WTI CRUDE OIL	4,187	3,103	34.9%	6,535	-35.9%
MJC FUT	20	5	300.0%	30	-33.3%
MNC FUT	2,388	675	253.8%	2,330	2.5%
MONT BELVIEU ETHANE 5 DECI	48,042	59,143	-18.8%	54,481	-11.8%
MONT BELVIEU ETHANE OPIS B	2,785	1,080	157.9%	1,450	92.1%
MONT BELVIEU LDH PROPANE 5	128,709	134,772	-4.5%	132,705	-3.0%
MONT BELVIEU LDH PROPANE C	2,275	1,690	34.6%	1,877	21.2%
MONT BELVIEU NATURAL GASO	31,531	30,917	2.0%	32,001	-1.5%
MONT BELVIEU NATURAL GASO	610	815	-25.2%	207	194.7%
MONT BELVIEU NORMAL BUTAN	48,703	64,984	-25.1%	56,115	-13.2%
MONT BELVIEU NORMAL BUTAN	1,299	773	68.0%	1,058	22.8%
NAT GAS BASIS SWAP	0	0	-	0	-
NATURAL GAS	163,761	129,935	26.0%	170,311	-3.8%
NATURAL GAS PEN SWP	195,105	263,053	-25.8%	200,765	-2.8%
NATURAL GAS PHY	1,108,463	1,169,656	-5.2%	1,269,879	-12.7%
NEPOOL INTR HUB 5MW D AH	8,703	161,551	-94.6%	8,703	0.0%
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 DEC 2021	Open Interest DEC 2020	% CHG	Open Interest NOV 2021	% CHG
<b>Energy Futures</b>					
NEW ENGLAND HUB PEAK DAIL	308	945	-67.4%	952	-67.6%
NEW YORK ETHANOL SWAP	1,560	195	700.0%	545	186.2%
NEW YORK HUB ZONE G PEAK	635	441	44.0%	340	86.8%
NEW YORK HUB ZONE J PEAK	0	88	-100.0%	0	-
NGPL MID-CONTINENT	0	0	-	0	-
NGPL TEX/OK	0	0	-	0	-
N ILLINOIS HUB DAILY	30	10	200.0%	20	50.0%
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	0	-	0	-
N ROCKIES PIPE SWAP	0	0	-	0	-
NY1% VS GC SPREAD SWAP	30	565	-94.7%	60	-50.0%
NY 3.0% FUEL OIL (PLATTS	0	0	-	0	-
NY HARBOR 1% FUEL OIL BAL	0	95	-100.0%	0	-
NY HARBOR HEAT OIL SWP	9,507	11,777	-19.3%	8,831	7.7%
NY HARBOR LOW SULPUR GAS	685	565	21.2%	770	-11.0%
NY HARBOR RESIDUAL FUEL 1	700	1,197	-41.5%	675	3.7%
NY HARBOR RESIDUAL FUEL C	0	0	-	0	-
NYH NO 2 CRACK SPREAD CAL	9,826	2,850	244.8%	10,368	-5.2%
NYISO CAPACITY	0	40	-100.0%	0	-
NYISO ZONE A 5MW D AH O P	0	0	-	0	-
NYISO ZONE A 5MW D AH PK	0	0	-	0	-
NYISO ZONE G 5MW D AH O P	0	58,675	-100.0%	0	-
NYISO ZONE G 5MW D AH PK	5,850	8,520	-31.3%	6,375	-8.2%
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	759	944	-19.6%	419	81.1%
ONEOK OKLAHOMA NG BASIS	0	0	-	0	-
ONTARIO POWER SWAPS	0	0	-	0	-
PANHANDLE BASIS SWAP FUTU	0	270	-100.0%	0	-
PERMIAN BASIS SWAP	0	0	-	0	-
PETROCHEMICALS	15,137	11,950	26.7%	16,379	-7.6%
PETRO CRCKS & SPRDS ASIA	50	270	-81.5%	100	-50.0%
PETRO CRCKS & SPRDS NA	33,103	37,507	-11.7%	33,748	-1.9%
PETRO CRK&SPRD EURO	2,907	2,128	36.6%	2,746	5.9%
PETROLEUM PRODUCTS	4,329	2,028	113.5%	5,101	-15.1%
PETROLEUM PRODUCTS ASIA	1,111	392	183.4%	953	16.6%
PETRO OUTRIGHT EURO	22,481	17,288	30.0%	21,612	4.0%
PETRO OUTRIGHT NA	4,673	2,590	80.4%	4,231	10.4%
PJM AD HUB 5MW REAL TIME	24,675	49,275	-49.9%	26,670	-7.5%
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	438	286	53.1%	292	50.0%
PJM DAYTON DA OFF-PEAK	0	0	-	0	-
PJM DAYTON DA PEAK	0	0	-	0	-

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

	Open Interest DEC 2021	Open Interest DEC 2020	% CHG	Open Interest NOV 2021	% CHG
<b>Energy Futures</b>					
PJM MONTHLY	0	0	-	0	-
PJM NI HUB 5MW REAL TIME	0	49,200	-100.0%	3,990	-100.0%
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	0	-	0	-
PJM WESTHDA PEAK	0	0	-	0	-
PJM WESTH RT OFF-PEAK	210,600	303,880	-30.7%	218,120	-3.4%
PJM WESTH RT PEAK	42,052	54,555	-22.9%	20,675	103.4%
PLASTICS	3,671	3,043	20.6%	3,486	5.3%
PREMIUM UNLD 10P FOB MED	180	0	-	180	0.0%
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	1,570	400	292.5%	1,043	50.5%
PROPANE NON-LDH MT. BEL (OF	46,357	58,851	-21.2%	50,626	-8.4%
RBOB CALENDAR SWAP	14,132	10,016	41.1%	13,920	1.5%
RBOB CRACK SPREAD	13,086	2,455	433.0%	13,221	-1.0%
RBOB CRACK SPREAD BALMO S	0	0	-	0	-
RBOB GAS	77	77	0.0%	84	-8.3%
RBOB GASOLINE BALMO CLNDR	130	331	-60.7%	833	-84.4%
RBOB PHY	294,317	414,673	-29.0%	285,445	3.1%
RBOB VS HEATING OIL SWAP	120	375	-68.0%	240	-50.0%
SAN JUAN BASIS SWAP	0	0	-	0	-
SAN JUAN PIPE SWAP	0	0	-	0	-
SINGAPORE 180CST BALMO	0	0	-	0	-
SINGAPORE 380CST BALMO	0	0	-	0	-
SINGAPORE 380CST FUEL OIL	417	386	8.0%	386	8.0%
SINGAPORE FUEL 180CST CAL	0	0	-	0	-
SINGAPORE FUEL OIL 180 CS	4	0	-	8	-50.0%
SINGAPORE FUEL OIL SPREAD	0	15	-100.0%	0	-
SINGAPORE GASOIL	1,491	614	142.8%	1,488	0.2%
SINGAPORE GASOIL CALENDAR	717	1,337	-46.4%	607	18.1%
SINGAPORE GASOIL SWAP	1,028	6,275	-83.6%	1,539	-33.2%
SINGAPORE GASOIL VS ICE	4,422	570	675.8%	5,029	-12.1%
SINGAPORE JET KERO BALMO	0	0	-	0	-
SINGAPORE JET KERO GASOIL	2,649	500	429.8%	2,974	-10.9%
SINGAPORE JET KEROSENE SW	940	1,095	-14.2%	1,090	-13.8%
SINGAPORE MOGAS 92 UNLEAD	0	0	-	0	-
SINGAPORE MOGAS 92 UNLEAD	1,912	1,913	-0.1%	2,521	-24.2%
SING FUEL	0	0	-	0	-
Sumas Basis Swap	0	0	-	0	-
TC2 ROTTERDAM TO USAC 37K	195	0	0.0%	205	-4.9%
TC5 RAS TANURA TO YOKOHAM	315	75	320.0%	360	-12.5%
TCO BASIS SWAP	0	0	-	0	-
TD3 MEG TO JAPAN 250K MT	3,528	4,296	-17.9%	5,029	-29.8%
TEXAS EASTERN ZONE M-3 BA	0	630	-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	0	-	0	-
TRANSCO ZONE 6 BASIS SWAP	0	0	-	0	-
UCM FUT	0	0	-	0	-
UK NBP NAT GAS CAL MTH FUT	0	310	-100.0%	0	-
ULSD UP-DOWN BALMO SWP	8,840	4,000	121.0%	6,130	44.2%
UP DOWN GC ULSD VS NMX HO	50,611	48,888	3.5%	54,550	-7.2%
WAHA BASIS	0	0	-	0	-
WTI-BRENT BULLET SWAP	0	0	-	0	-
WTI-BRENT CALENDAR SWAP	99,683	85,952	16.0%	100,561	-0.9%
WTI CALENDAR	154,913	170,071	-8.9%	157,460	-1.6%
WTI MIDLAND CRUDE OIL	400	0	-	0	0.0%
WTS (ARGUS) VS WTI SWAP	39,632	63,048	-37.1%	43,164	-8.2%
WTS (ARGUS) VS WTI TRD MT	6,670	10,012	-33.4%	7,215	-7.6%

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

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<b>Energy Options</b>					
BRENT CALENDAR SWAP	1,166	1,550	-24.8%	1,556	-25.1%
BRENT CRUDE OIL 1 M CSO	105,300	5,400	1,850.0%	125,400	-16.0%
BRENT OIL LAST DAY	113,793	168,410	-32.4%	105,889	7.5%
COAL API2 INDEX	140	0	-	1,115	-87.4%
CRUDE OIL	0	50	-100.0%	0	-
CRUDE OIL 1MO	258,325	429,225	-39.8%	249,350	3.6%
CRUDE OIL APO	269,401	282,155	-4.5%	217,160	24.1%
CRUDE OIL CALNDR STRIP	0	0	0.0%	0	-
CRUDE OIL OUTRIGHTS	0	0	-	0	-
CRUDE OIL PHY	2,011,714	1,441,536	39.6%	2,041,482	-1.5%
ELEC FINSETTLED	43	43	0.0%	43	0.0%
ETHANOL SWAP	10,417	5,860	77.8%	9,811	6.2%
FREIGHT MARKETS	0	0	-	0	-
HEATING OIL CRK SPD AVG PRI	3,450	3,000	15.0%	3,705	-6.9%
HEATING OIL PHY	28,577	15,139	88.8%	28,428	0.5%
HENRY HUB FINANCIAL LAST	29,180	34,726	-16.0%	29,665	-1.6%
HO 1 MONTH CLNDR OPTIONS	200	0	-	200	0.0%
LLS CRUDE OIL	1,650	1,100	50.0%	0	-
MCCLOSKEY ARA ARGS COAL	402	1,357	-70.4%	402	0.0%
MCCLOSKEY RCH BAY COAL	0	0	-	0	-
NATURAL GAS 1 M CSO FIN	153,807	49,335	211.8%	162,495	-5.3%
NATURAL GAS 2 M CSO FIN	0	0	-	17,750	-100.0%
NATURAL GAS 3 M CSO FIN	0	5,700	-100.0%	0	-
NATURAL GAS 5 M CSO FIN	5,250	2,000	162.5%	5,250	0.0%
NATURAL GAS 6 M CSO FIN	39,200	15,900	146.5%	34,350	14.1%
NATURAL GAS OPT	23,970	61,240	-60.9%	29,305	-18.2%
NATURAL GAS OPTION ON CALE	7,184	12,628	-43.1%	47,084	-84.7%
NATURAL GAS PHY	2,243,228	2,434,715	-7.9%	2,304,162	-2.6%
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	7,075	5,503	28.6%	7,482	-5.4%
PETROCHEMICALS	9,231	1,468	528.8%	9,141	1.0%
PETRO OUTRIGHT EURO	0	2	-100.0%	0	-
PETRO OUTRIGHT NA	1,250	705	77.3%	1,120	11.6%
PJM WES HUB PEAK CAL MTH	180	850	-78.8%	850	-78.8%
PJM WES HUB PEAK LMP 50MW	0	472	-100.0%	0	0.0%
RBOB 1MO CAL SPD OPTIONS	0	0	-	0	-
RBOB CALENDAR SWAP	164	1,269	-87.1%	401	-59.1%
RBOB CRACK	0	0	-	0	-
RBOB PHY	7,223	7,545	-4.3%	6,918	4.4%
SAN JUAN PIPE SWAP	0	0	-	0	-
SHORT TERM	0	0	-	0	-
SHORT TERM NATURAL GAS	0	0	-	50	-100.0%
WTI-BRENT BULLET SWAP	208,315	164,110	26.9%	190,460	9.4%
WTI CRUDE OIL 1 M CSO FI	36,300	215,675	-83.2%	42,350	-14.3%

**FX Futures**

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## CME Group Exchange Open Interest Report - Monthly

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<b>FX Futures</b>					
AD/CD CROSS RATES	22	0	-	31	-29.0%
AD/JY CROSS RATES	624	232	169.0%	675	-7.6%
AD/NE CROSS RATES	106	80	32.5%	122	-13.1%
AUSTRALIAN DOLLAR	179,249	139,750	28.3%	201,981	-11.3%
BP/JY CROSS RATES	1,029	358	187.4%	912	12.8%
BP/SF CROSS RATES	2,376	164	1,348.8%	577	311.8%
BRAZIL REAL	35,592	38,717	-8.1%	41,101	-13.4%
BRITISH POUND	202,002	141,840	42.4%	230,423	-12.3%
CANADIAN DOLLAR	138,737	152,997	-9.3%	148,375	-6.5%
CD/JY CROSS RATES	22	1	2,100.0%	74	-70.3%
CHINESE RENMINBI (CNH)	3,018	4,713	-36.0%	3,599	-16.1%
CZECK KORUNA (EC)	0	2	-100.0%	0	-
CZECK KORUNA (US)	2	0	-	2	0.0%
EC/AD CROSS RATES	1,719	3,115	-44.8%	2,136	-19.5%
EC/CD CROSS RATES	4,125	2,532	62.9%	4,968	-17.0%
EC/NOK CROSS RATES	402	302	33.1%	644	-37.6%
EC/SEK CROSS RATES	688	546	26.0%	728	-5.5%
EFX/BP CROSS RATES	33,033	25,578	29.1%	32,927	0.3%
EFX/JY CROSS RATES	26,984	16,775	60.9%	26,533	1.7%
EFX/SF CROSS RATES	23,787	8,148	191.9%	19,568	21.6%
E-MICRO USD/CAD	25	0	-	504	-95.0%
E-MICRO USD/CHF	1	0	-	5	-80.0%
E-MICRO USD/JPY	75	0	-	152	-50.7%
E-MINI EURO FX	17,155	13,778	24.5%	20,213	-15.1%
E-MINI JAPANESE YEN	651	319	104.1%	753	-13.5%
EURO FX	686,562	670,426	2.4%	705,409	-2.7%
HUNGARIAN FORINT (EC)	0	0	-	0	-
HUNGARIAN FORINT (US)	5	12	-58.3%	5	0.0%
INDIAN RUPEE	1,813	1,846	-1.8%	1,512	19.9%
JAPANESE YEN	211,534	206,153	2.6%	216,692	-2.4%
KOREAN WON	574	1,286	-55.4%	477	20.3%
MEXICAN PESO	113,635	140,473	-19.1%	195,719	-41.9%
MICRO AUD/USD	4,204	8,131	-48.3%	9,821	-57.2%
MICRO CAD/USD	2,301	1,698	35.5%	2,433	-5.4%
MICRO CHF/USD	1,170	1,272	-8.0%	2,185	-46.5%
MICRO EUR/USD	27,367	12,926	111.7%	30,128	-9.2%
MICRO GBP/USD	3,285	3,000	9.5%	4,608	-28.7%
MICRO INR/USD	26	222	-88.3%	16	62.5%
MICRO JPY/USD	2,257	1,502	50.3%	2,241	0.7%
MICRO USD/CNH	0	0	-	0	-
NEW ZEALND DOLLAR	40,495	47,018	-13.9%	49,483	-18.2%
NKR/USD CROSS RATE	1,304	2,509	-48.0%	1,471	-11.4%
POLISH ZLOTY (EC)	167	51	227.5%	162	3.1%
POLISH ZLOTY (US)	573	278	106.1%	568	0.9%
RMB USD	0	0	-	0	-
RUSSIAN RUBLE	47,216	24,788	90.5%	49,870	-5.3%
S.AFRICAN RAND	9,990	11,720	-14.8%	14,109	-29.2%
SF/JY CROSS RATES	27	1	2,600.0%	30	-10.0%
SHEKEL	2	4	-50.0%	16	-87.5%
SKR/USD CROSS RATES	966	2,102	-54.0%	1,028	-6.0%

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

	Open Interest DEC 2021	Open Interest DEC 2020	% CHG	Open Interest NOV 2021	% CHG
<b>FX Futures</b>					
SWISS FRANC	41,411	48,460	-14.5%	50,543	-18.1%
TURKISH LIRA	40	28	42.9%	69	-42.0%
USDZAR	0	0	-	19	-100.0%
<b>FX Options</b>					
AUD/USD MONDAY OPTION WEE	77	663	-88.4%	1,963	-96.1%
AUD/USD MONDAY OPTION WEE	2	239	-99.2%	92	-97.8%
AUD/USD MONDAY OPTION WEE	0	0	-	106	-100.0%
AUD/USD MONDAY OPTION WEE	0	0	-	0	-
AUD/USD MONDAY OPTION WEE	0	0	-	0	0.0%
AUD/USD MONTHLY OPTIONS	168,619	51,371	228.2%	188,098	-10.4%
AUD/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-
AUD/USD WKLY FRIDAY OPTION	1,096	0	-	1,034	6.0%
AUD/USD WKLY FRIDAY OPTION	319	785	-59.4%	1,218	-73.8%
AUD/USD WKLY FRIDAY OPTION	303	296	2.4%	857	-64.6%
AUD/USD WKLY FRIDAY OPTION	0	271	-100.0%	494	-100.0%
AUD/USD WKLY WED OPTIONS -	296	298	-0.7%	792	-62.6%
AUD/USD WKLY WED OPTIONS -	2	269	-99.3%	167	-98.8%
AUD/USD WKLY WED OPTIONS -	5	188	-97.3%	50	-90.0%
AUD/USD WKLY WED OPTIONS -	47	0	-	191	-75.4%
AUD/USD WKLY WED OPTIONS -	0	0	0.0%	0	-
BRL/USD MONTHLY OPTIONS	1	14	-92.9%	553	-99.8%
CAD/USD MONDAY OPTIONS WE	802	1,774	-54.8%	1,444	-44.5%
CAD/USD MONDAY OPTIONS WE	8	50	-84.0%	250	-96.8%
CAD/USD MONDAY OPTIONS WE	0	0	-	126	-100.0%
CAD/USD MONDAY OPTIONS WE	1	0	-	0	-
CAD/USD MONDAY OPTIONS WE	3	0	-	0	0.0%
CAD/USD MONTHLY OPTIONS	181,904	50,237	262.1%	181,045	0.5%
CAD/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-
CAD/USD WKLY FRIDAY OPTION	414	0	-	3,375	-87.7%
CAD/USD WKLY FRIDAY OPTION	308	802	-61.6%	1,892	-83.7%
CAD/USD WKLY FRIDAY OPTION	447	320	39.7%	682	-34.5%
CAD/USD WKLY FRIDAY OPTION	0	322	-100.0%	120	-100.0%
CAD/USD WKLY WED OPTIONS -	1,374	819	67.8%	1,991	-31.0%
CAD/USD WKLY WED OPTIONS -	282	0	-	1,032	-72.7%
CAD/USD WKLY WED OPTIONS -	1,300	0	-	1,182	10.0%
CAD/USD WKLY WED OPTIONS -	0	0	-	84	-100.0%
CAD/USD WKLY WED OPTIONS -	0	0	0.0%	0	-
CHF/USD MONTHLY OPTIONS	28,745	7,413	287.8%	19,946	44.1%
CHF/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-
CHF/USD WKLY FRIDAY OPTION	256	0	-	1,019	-74.9%
CHF/USD WKLY FRIDAY OPTION	50	51	-2.0%	31	61.3%
CHF/USD WKLY FRIDAY OPTION	30	1	2,900.0%	152	-80.3%
CHF/USD WKLY FRIDAY OPTION	0	0	-	3	-100.0%
EUR/GBP MONTHLY OPTIONS	0	0	-	0	-
EUR/GBP WKLY FRIDAY OPTION	0	0	-	100	-100.0%
EUR/USD MONDAY OPTION WEE	1,088	1,066	2.1%	596	82.6%
EUR/USD MONDAY OPTION WEE	24	197	-87.8%	156	-84.6%
EUR/USD MONDAY OPTION WEE	0	0	-	1	-100.0%

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

	Open Interest DEC 2021	Open Interest DEC 2020	% CHG	Open Interest NOV 2021	% CHG
<b>FX Options</b>					
EUR/USD MONDAY OPTION WEE	229	59	288.1%	138	65.9%
EUR/USD MONDAY OPTION WEE	51	0	-	0	0.0%
EUR/USD MONTHLY OPTIONS	183,753	198,920	-7.6%	215,396	-14.7%
EUR/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-
EUR/USD WKLY FRIDAY OPTION	4,645	0	-	7,261	-36.0%
EUR/USD WKLY FRIDAY OPTION	1,133	2,211	-48.8%	8,260	-86.3%
EUR/USD WKLY FRIDAY OPTION	1,255	1,307	-4.0%	917	36.9%
EUR/USD WKLY FRIDAY OPTION	0	517	-100.0%	163	-100.0%
EUR/USD WKLY WED OPTIONS -	1,765	2,910	-39.3%	4,946	-64.3%
EUR/USD WKLY WED OPTIONS -	1,089	755	44.2%	2,246	-51.5%
EUR/USD WKLY WED OPTIONS -	0	223	-100.0%	508	-100.0%
EUR/USD WKLY WED OPTIONS -	0	0	-	58	-100.0%
EUR/USD WKLY WED OPTIONS -	0	0	0.0%	0	-
GBP/USD MONDAY OPTION WEE	1,099	2,007	-45.2%	225	388.4%
GBP/USD MONDAY OPTION WEE	12	0	-	196	-93.9%
GBP/USD MONDAY OPTION WEE	0	0	-	6	-100.0%
GBP/USD MONDAY OPTION WEE	3	222	-98.6%	0	-
GBP/USD MONDAY OPTION WEE	0	0	-	0	0.0%
GBP/USD MONTHLY OPTIONS	89,218	144,607	-38.3%	101,701	-12.3%
GBP/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-
GBP/USD WKLY FRIDAY OPTION	1,066	0	-	4,461	-76.1%
GBP/USD WKLY FRIDAY OPTION	1,314	769	70.9%	2,135	-38.5%
GBP/USD WKLY FRIDAY OPTION	525	86	510.5%	1,108	-52.6%
GBP/USD WKLY FRIDAY OPTION	0	4	-100.0%	503	-100.0%
GBP/USD WKLY WED OPTIONS -	1,650	8	20,525.0%	1,128	46.3%
GBP/USD WKLY WED OPTIONS -	101	0	-	594	-83.0%
GBP/USD WKLY WED OPTIONS -	338	2	16,800.0%	593	-43.0%
GBP/USD WKLY WED OPTIONS -	107	0	-	0	-
GBP/USD WKLY WED OPTIONS -	0	0	0.0%	0	-
JPY/USD MONDAY OPTION WEE	13	747	-98.3%	120	-89.2%
JPY/USD MONDAY OPTION WEE	1,250	54	2,214.8%	94	1,229.8%
JPY/USD MONDAY OPTION WEE	0	0	-	32	-100.0%
JPY/USD MONDAY OPTION WEE	2	0	-	63	-96.8%
JPY/USD MONDAY OPTION WEE	1	0	-	0	0.0%
JPY/USD MONTHLY OPTIONS	87,404	60,617	44.2%	89,298	-2.1%
JPY/USD WKLY FRIDAY OPTION	0	0	0.0%	0	-
JPY/USD WKLY FRIDAY OPTION	2,730	0	-	1,970	38.6%
JPY/USD WKLY FRIDAY OPTION	637	1,392	-54.2%	1,438	-55.7%
JPY/USD WKLY FRIDAY OPTION	572	422	35.5%	923	-38.0%
JPY/USD WKLY FRIDAY OPTION	0	374	-100.0%	310	-100.0%
JPY/USD WKLY WED OPTIONS -	2,156	496	334.7%	5,079	-57.6%
JPY/USD WKLY WED OPTIONS -	141	231	-39.0%	872	-83.8%
JPY/USD WKLY WED OPTIONS -	326	0	-	816	-60.0%
JPY/USD WKLY WED OPTIONS -	0	0	-	0	-
JPY/USD WKLY WED OPTIONS -	0	0	0.0%	0	-
MXN/USD MONTHLY OPTIONS	20,421	1,813	1,026.4%	1,008	1,925.9%
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
MXN/USD WKLY FRIDAY OPTION	0	0	-	300	-100.0%
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 DEC 2021	Open Interest DEC 2020	% CHG	Open Interest NOV 2021	% CHG
<b>FX Options</b>					
MXN/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD MONTHLY OPTIONS	34	76	-55.3%	304	-88.8%
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
NZD/USD WKLY FRIDAY OPTION	0	0	-	0	-
RUB/USD MONTHLY OPTIONS	0	64	-100.0%	0	-
<b>Foreign Exchange Futures</b>					
CHILEAN PESO	0	0	-	0	-
<b>Foreign Exchange Options</b>					
AUD/USD WKLY WED OPTIONS -	0	170	-100.0%	521	-100.0%
<b>Ags Futures</b>					
FERTILIZER PRODUCTS	4,405	3,944	11.7%	4,685	-6.0%

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## CME Group Exchange Open Interest Report - Monthly

	Open Interest DEC 2021	Open Interest DEC 2020	% CHG	Open Interest NOV 2021	% CHG
<b>Ag Products Futures</b>					
BLOCK CHEESE	2,793	469	495.5%	2,951	-5.4%
BUTTER CS	9,840	7,502	31.2%	8,640	13.9%
CASH-SETTLED CHEESE	20,359	20,175	0.9%	22,325	-8.8%
CAT ASIA WEATHER	0	0	-	0	-
CATTLE	325,912	292,595	11.4%	310,096	5.1%
CAT WEATHER EUROPEAN	0	0	-	0	-
CDD SEASONAL STRIP	0	0	-	0	-
CDD WEATHER	0	0	-	0	-
CHI WHEAT	353,764	402,613	-12.1%	371,575	-4.8%
CLASS IV MILK	13,214	2,419	446.3%	10,685	23.7%
COCOA TAS	0	0	-	0	-
COFFEE	0	0	-	0	-
CORN	1,512,771	1,750,518	-13.6%	1,405,105	7.7%
COTTON	0	0	0.0%	0	-
DJ_UBS ROLL SELECT INDEX FU	8,867	2,287	287.7%	8,391	5.7%
DOW-UBS COMMOD INDEX	40,396	24,906	62.2%	39,298	2.8%
DRY WHEY	3,358	3,089	8.7%	3,464	-3.1%
FEEDER CATTLE	41,337	43,631	-5.3%	39,832	3.8%
FERTILIZER PRODUCTS	0	145	-100.0%	0	-
GOLDMAN SACHS	1,385	5,734	-75.8%	1,539	-10.0%
GSCI EXCESS RETURN FUT	57,146	46,315	23.4%	57,645	-0.9%
HDD EURO SEASONAL STRIP	0	0	-	0	-
HDD SEASONAL STRIP	500	0	-	500	0.0%
HDD WEATHER	9,600	18,050	-46.8%	10,400	-7.7%
HDD WEATHER EUROPEAN	5,500	2,800	96.4%	7,450	-26.2%
HOGS	217,236	193,877	12.0%	228,719	-5.0%
HOUSING INDEX	30	24	25.0%	40	-25.0%
Intercommodity Spread	0	0	-	0	-
KC WHEAT	221,613	217,162	2.0%	227,423	-2.6%
LUMBER	2,344	2,997	-21.8%	1,971	18.9%
MALAYSIAN PALM SWAP	6,560	17,128	-61.7%	12,080	-45.7%
MILK	31,145	18,312	70.1%	27,802	12.0%
MINI CORN	10,605	9,152	15.9%	8,081	31.2%
MINI SOYBEAN	13,801	13,682	0.9%	15,933	-13.4%
MINI WHEAT	3,809	4,654	-18.2%	4,032	-5.5%
MLK MID OPTIONS	0	0	0.0%	0	-
NFD MILK	10,313	5,107	101.9%	9,537	8.1%
OATS	4,330	4,882	-11.3%	4,853	-10.8%
PACIFIC RIM DAT SS WTHR	1,000	0	-	1,000	0.0%
PORK CUTOUT	633	882	-28.2%	699	-9.4%
ROUGH RICE	7,469	9,334	-20.0%	8,664	-13.8%
SOYBEAN	631,627	889,698	-29.0%	672,454	-6.1%
SOYBEAN MEAL	384,529	415,506	-7.5%	395,673	-2.8%
SOYBEAN OIL	372,571	469,214	-20.6%	399,439	-6.7%
S&P GSCI ENHANCED ER SWAP	1,001	1,001	0.0%	1,001	0.0%
SUGAR 11	0	0	-	0	-
USD CRUDE PALM OIL	45,021	6,600	582.1%	42,995	4.7%
WHEAT	22,192	28,080	-21.0%	25,297	-12.3%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Ag Products Options</b>					
AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-
BLOCK CHEESE	666	656	1.5%	1,003	-33.6%
BUTTER CS	9,274	5,547	67.2%	7,552	22.8%
CASH-SETTLED CHEESE	19,564	33,135	-41.0%	17,781	10.0%
CATTLE	166,336	154,810	7.4%	195,837	-15.1%
CAT WEATHER EUROPEAN	0	0	-	0	-
CDD SEASONAL STRIP	0	0	-	0	-
CDD WEATHER	0	0	-	0	-
CHI WHEAT	243,244	270,496	-10.1%	222,554	9.3%
CLASS IV MILK	28,633	6,752	324.1%	25,024	14.4%
CORN	1,045,629	1,363,439	-23.3%	928,063	12.7%
CORN NEARBY+2 CAL SPRD	34,707	1,865	1,761.0%	19,680	76.4%
DEC-DEC CORN CAL SPRD	0	0	-	0	-
DEC-JULY CORN CAL SPRD	0	0	-	0	-
DEC-JULY WHEAT CAL SPRD	0	0	-	0	-
DRY WHEY	647	1,580	-59.1%	976	-33.7%
FEEDER CATTLE	27,946	21,356	30.9%	20,043	39.4%
HDD EURO SEASONAL STRIP	2,000	7,000	-71.4%	2,000	0.0%
HDD SEASONAL STRIP	23,920	6,000	298.7%	23,920	0.0%
HDD WEATHER	0	2,975	-100.0%	1,000	-100.0%
HDD WEATHER EUROPEAN	5,000	500	900.0%	14,500	-65.5%
HOGS	187,476	136,055	37.8%	223,862	-16.3%
HOUSING INDEX	0	0	-	0	-
Intercommodity Spread	0	265	-100.0%	0	-
JAN-MAR SOYBEAN CSO	0	0	-	0	-
JULY-DEC CORN CAL SPRD	10,643	5,732	85.7%	8,225	29.4%
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	30	-100.0%	0	-
JULY-NOV SOYBEAN CAL SPRD	5,825	853	582.9%	2,360	146.8%
KC WHEAT	79,501	43,768	81.6%	75,752	4.9%
LUMBER	337	637	-47.1%	524	-35.7%
LV CATL CSO	0	0	-	0	-
MAR-DEC CORN CAL SPRD	0	10	-100.0%	0	-
MAR-JULY CORN CAL SPRD	4,790	500	858.0%	3,490	37.2%
MAR-JULY SOYBEAN CAL SPRD	0	20	-100.0%	0	-
MAR-JULY WHEAT CAL SPRD	900	430	109.3%	700	28.6%
MILK	100,447	61,009	64.6%	96,780	3.8%
MLK MID OPTIONS	17	12	41.7%	15	13.3%
NFD MILK	11,651	10,666	9.2%	11,763	-1.0%
NOV-JULY SOYBEAN CAL SPRD	0	0	-	0	-
NOV-MAR SOYBEAN CSO	0	0	-	0	-
NOV-NOV SOYBEAN CAL SPRD	0	0	-	0	-
OATS	577	119	384.9%	522	10.5%
PORK CUTOUT	0	158	-100.0%	1	-100.0%
ROUGH RICE	810	792	2.3%	1,359	-40.4%
SOYBEAN	411,054	831,106	-50.5%	404,025	1.7%
SOYBEAN CRUSH	241	1,402	-82.8%	219	10.0%
SOYBEAN MEAL	113,944	173,559	-34.3%	112,026	1.7%

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## CME Group Exchange Open Interest Report - Monthly

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<b>Ag Products Options</b>					
SOYBEAN OIL	133,183	258,451	-48.5%	125,891	5.8%
SOYBN NEARBY+2 CAL SPRD	0	20	-100.0%	260	-100.0%
SOYMEAL NEARBY+2 CAL SPRD	0	0	-	0	-
WHEAT	328	10	3,180.0%	101	224.8%
WHEAT-CORN IC50	20	78	-74.4%	20	0.0%
WHEAT NEARBY+2 CAL SPRD	501	50	902.0%	125	300.8%
<b>TOTAL FUTURES GROUP</b>					
Interest Rate Futures	28,478,948	22,967,667	24.0%	28,950,175	-1.6%
Equity Index Futures	4,107,895	4,116,162	-0.2%	4,697,071	-12.5%
Metals Futures	1,053,602	1,201,191	-12.3%	1,075,704	-2.1%
Energy Futures	6,856,149	7,787,040	-12.0%	7,215,108	-5.0%
FX Futures	1,868,348	1,735,853	7.6%	2,075,617	-10.0%
Foreign Exchange Futures	0	0	-	0	-
Ags Futures	4,405	3,944	11.7%	4,685	-6.0%
Ag Products Futures	4,394,571	4,930,540	-10.9%	4,387,589	0.2%
<b>TOTAL FUTURES</b>	<b>46,763,918</b>	<b>42,742,397</b>	<b>9.4%</b>	<b>48,405,949</b>	<b>-3.4%</b>
<b>TOTAL OPTIONS GROUP</b>					
Interest Rate Options	33,027,618	26,457,435	24.8%	39,939,676	-17.3%
Equity Index Options	3,842,373	2,422,355	58.6%	4,593,019	-16.3%
Metals Options	827,755	1,008,273	-17.9%	878,518	-5.8%
Energy Options	5,576,135	5,369,068	3.9%	5,673,374	-1.7%
FX Options	792,843	538,339	47.3%	866,012	-8.4%
Foreign Exchange Options	0	170	-100.0%	521	-100.0%
Ag Products Options	2,669,811	3,402,372	-21.5%	2,547,953	4.8%
<b>TOTAL OPTIONS</b>	<b>46,736,535</b>	<b>39,198,012</b>	<b>19.2%</b>	<b>54,499,073</b>	<b>-14.2%</b>
<b>TOTAL COMBINED</b>					
Interest Rate	61,506,566	49,425,102	24.4%	68,889,851	-10.7%
Equity Index	7,950,268	6,538,517	21.6%	9,290,090	-14.4%
Metals	1,881,357	2,209,464	-14.9%	1,954,222	-3.7%
Energy	12,432,284	13,156,108	-5.5%	12,888,482	-3.5%
FX	2,661,191	2,274,192	17.0%	2,941,629	-9.5%
Foreign Exchange	0	170	-100.0%	521	-100.0%
Ags	4,405	3,944	11.7%	4,685	-6.0%
Ag Products	7,064,382	8,332,912	-15.2%	6,935,542	1.9%
<b>GRAND TOTAL</b>	<b>93,500,453</b>	<b>81,940,409</b>	<b>14.1%</b>	<b>102,905,022</b>	<b>-9.1%</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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