

CME Group Exchange ADV Report - Monthly

November 2022

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	ADV NOV 2022	ADV NOV 2021	% CHG	ADV OCT 2022	% CHG	ADV Y.T.D 2022	ADV Y.T.D 2021	% CHG
FX Futures								
AD/CD CROSS RATES	10	0	-	2.52	309.4%	4	1	273.0%
AD/JY CROSS RATES	124	149.48	-17.0%	173.48	-28.5%	218	115	89.8%
AD/NE CROSS RATES	85	24.14	253.3%	582.9	-85.4%	274	16	1609.4%
AUSTRALIAN DOLLAR	101,890	86,906.05	17.2%	103,967.24	-2.0%	101,979	97,732	4.3%
BP/JY CROSS RATES	130	118.95	9.0%	250.76	-48.3%	245	132	85.5%
BP/SF CROSS RATES	59	66.24	-11.5%	150.52	-61.1%	139	52	166.7%
BRAZIL REAL	17,908	10,927.29	63.9%	15,029.71	19.2%	15,616	11,923	31.0%
BRITISH POUND	113,739	97,653.86	16.5%	148,050.52	-23.2%	125,324	94,635	32.4%
CANADIAN DOLLAR	85,305	74,595	14.4%	97,353.29	-12.4%	90,731	79,159	14.6%
CD/JY CROSS RATES	1	28.62	-95.2%	3.38	-59.2%	3	14	-78.2%
CHINESE RENMINBI (CNH)	2,140	774	176.4%	2,185.62	-2.1%	1,495	788	89.8%
CZECK KORUNA (EC)	0	0	-	0	-	0	0	412.4%
CZECK KORUNA (US)	8	0.19	4049.5%	8.33	-5.1%	3	0	5422.2%
EC/AD CROSS RATES	181	179.14	1.1%	176.57	2.6%	272	239	13.6%
EC/CD CROSS RATES	207	207.52	-0.4%	222.81	-7.2%	388	326	18.9%
EC/NOK CROSS RATES	48	9.05	428.9%	20.05	138.7%	107	40	169.9%
EC/SEK CROSS RATES	72	16.9	327.3%	41.48	74.2%	153	29	420.5%
EFX/BP CROSS RATES	3,191	1,796.52	77.6%	3,835.76	-16.8%	4,567	2,704	68.9%
EFX/JY CROSS RATES	1,246	1,877.9	-33.7%	1,454.95	-14.4%	2,656	2,138	24.2%
EFX/SF CROSS RATES	676	1,225.62	-44.9%	1,382.24	-51.1%	1,910	1,219	56.7%
E-MICRO USD/CAD	4	23.33	-84.5%	0.95	280.0%	8	10	-12.8%
E-MICRO USD/CHF	1	2.33	-44.9%	1.52	-15.6%	3	1	480.3%
E-MICRO USD/JPY	57	239.67	-76.2%	39.86	43.4%	662	35	1815.5%
E-MINI EURO FX	8,894	5,191.29	71.3%	7,687.62	15.7%	7,427	5,670	31.0%
E-MINI JAPANESE YEN	474	405	17.1%	764.76	-38.0%	572	440	30.0%
EURO FX	223,204	187,656.62	18.9%	221,560.05	0.7%	240,859	191,638	25.7%
HUNGARIAN FORINT (EC)	0	1.05	-100.0%	0.05	-100.0%	0	0	-17.5%
HUNGARIAN FORINT (US)	0	0.29	0.0%	0	-	0	1	-72.9%
INDIAN RUPEE	1,587	834.52	90.2%	1,880.29	-15.6%	1,319	700	88.4%
JAPANESE YEN	144,688	118,333	22.3%	174,554.48	-17.1%	156,637	107,493	45.7%
KOREAN WON	16	48.76	-67.2%	23.43	-31.7%	24	88	-72.8%
MEXICAN PESO	58,177	53,139.19	9.5%	65,547.29	-11.2%	58,845	52,879	11.3%
MICRO AUD/USD	12,950	14,981.48	-13.6%	13,803.19	-6.2%	12,679	10,352	22.5%
MICRO CAD/USD	3,829	2,637.9	45.1%	4,091.95	-6.4%	3,018	2,689	12.2%
MICRO CHF/USD	754	509.1	48.2%	793.95	-5.0%	826	424	94.8%
MICRO EUR/USD	41,603	27,626.19	50.6%	43,998.33	-5.4%	38,246	23,408	63.4%
MICRO GBP/USD	6,016	6,962.24	-13.6%	11,147.95	-46.0%	5,997	3,984	50.5%
MICRO INR/USD	36	35.14	3.5%	29.57	23.0%	34	79	-57.3%
MICRO JPY/USD	0	4,106.81	-100.0%	0	-	442	1,880	-76.5%
MICRO USD/CNH	0	0	-	0	-	0	0	-94.4%
NEW ZEALND DOLLAR	29,413	23,492.14	25.2%	35,518.05	-17.2%	31,376	28,187	11.3%
NKR/USD CROSS RATE	132	183.86	-28.4%	162.86	-19.2%	170	260	-34.5%
POLISH ZLOTY (EC)	0	1.24	-76.9%	0.1	200.1%	5	6	-14.7%
POLISH ZLOTY (US)	114	38.48	195.7%	86.24	31.9%	78	44	78.9%
RMB USD	0	0	-	0	-	0	0	870.0%
RUSSIAN RUBLE	0	8,291.14	-100.0%	0	-	2,554	5,597	-54.4%
S.AFRICAN RAND	3,352	3,608.86	-7.1%	3,846.9	-12.9%	4,475	2,943	52.1%
SF/JY CROSS RATES	73	2.38	2955.9%	21.29	241.8%	53	3	1967.6%
SHEKEL	0	1.19	-76.0%	0.05	500.2%	1	0	171.2%

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FX Futures								
SKR/USD CROSS RATES	340	233.81	45.2%	234.57	44.8%	364	276	31.7%
SWISS FRANC	21,545	25,874.43	-16.7%	21,835.95	-1.3%	25,798	23,777	8.5%
TURKISH LIRA	2	0.29	716.7%	1.14	104.2%	2	4	-42.8%
USDZAR	0	57.48	-100.0%	0	-	0	6	-97.6%
FX Options								
AUD/USD MONDAY OPTION WEEK1	4	93.76	-95.5%	0.24	1680.0%	8	29	-72.1%
AUD/USD MONDAY OPTION WEEK2	2	7.14	-71.3%	0.86	138.9%	14	20	-28.6%
AUD/USD MONDAY OPTION WEEK3	20	7.29	172.5%	6.38	211.2%	12	20	-38.8%
AUD/USD MONDAY OPTION WEEK4	16	0.57	2783.5%	4.33	280.2%	16	20	-20.9%
AUD/USD MONDAY OPTION WEEK5	0	46.95	-100.0%	6.9	-100.0%	6	10	-42.1%
AUD/USD MONTHLY OPTIONS	3,077	3,932.38	-21.8%	2,516.9	22.3%	3,912	4,135	-5.4%
AUD/USD WKLY FRIDAY OPTIONS -	43	0	-	0	-	28	31	-11.8%
AUD/USD WKLY FRIDAY OPTIONS -	97	163.05	-40.3%	101.05	-3.7%	78	88	-11.8%
AUD/USD WKLY FRIDAY OPTIONS -	59	118.29	-50.0%	51.05	15.9%	99	131	-24.5%
AUD/USD WKLY FRIDAY OPTIONS -	54	200.62	-73.2%	121	-55.6%	85	148	-42.9%
AUD/USD WKLY FRIDAY OPTIONS -	12	23.62	-49.2%	0	-	26	40	-33.8%
AUD/USD WKLY WED OPTIONS - WK	2	51.57	-95.4%	20.57	-88.4%	28	62	-54.8%
AUD/USD WKLY WED OPTIONS - WK	48	16.38	191.6%	22.71	110.3%	25	37	-33.2%
AUD/USD WKLY WED OPTIONS - WK	2	3.38	-53.5%	4.05	-61.2%	10	14	-30.2%
AUD/USD WKLY WED OPTIONS - WK	40	24.57	64.5%	6.05	568.5%	24	42	-41.7%
AUD/USD WKLY WED OPTIONS - WK	18	0	-	0	-	4	9	-51.7%
BRL/USD MONTHLY OPTIONS	11	33.19	-66.6%	1.05	959.1%	14	17	-17.9%
CAD/USD MONDAY OPTIONS WEEK1	87	68.76	26.0%	32.62	165.5%	19	45	-58.1%
CAD/USD MONDAY OPTIONS WEEK2	38	33.71	12.4%	10.29	268.5%	50	71	-29.9%
CAD/USD MONDAY OPTIONS WEEK3	67	18	271.2%	20.19	230.9%	50	46	7.2%
CAD/USD MONDAY OPTIONS WEEK4	9	18.38	-50.8%	0.52	1627.3%	31	100	-68.5%
CAD/USD MONDAY OPTIONS WEEK5	0	58.29	-100.0%	59.05	-100.0%	12	19	-36.5%
CAD/USD MONTHLY OPTIONS	5,132	3,664.1	40.1%	3,477.24	47.6%	4,435	3,809	16.4%
CAD/USD WKLY FRIDAY OPTIONS -	157	0	-	0	-	73	120	-38.9%
CAD/USD WKLY FRIDAY OPTIONS -	126	416.1	-69.8%	200.95	-37.5%	162	237	-31.5%
CAD/USD WKLY FRIDAY OPTIONS -	191	374.71	-49.0%	142.43	34.1%	258	368	-29.9%
CAD/USD WKLY FRIDAY OPTIONS -	147	228.86	-35.6%	174.48	-15.5%	228	438	-47.8%
CAD/USD WKLY FRIDAY OPTIONS -	0	5.71	-95.0%	0	-	56	124	-54.6%
CAD/USD WKLY WED OPTIONS - WK	36	99.48	-64.3%	47.24	-24.8%	47	101	-53.1%
CAD/USD WKLY WED OPTIONS - WK	37	97.29	-61.7%	38.29	-2.6%	56	89	-37.3%
CAD/USD WKLY WED OPTIONS - WK	22	198.52	-89.0%	50.57	-56.8%	65	121	-46.0%
CAD/USD WKLY WED OPTIONS - WK	39	45	-14.3%	80.05	-51.8%	72	119	-39.1%
CAD/USD WKLY WED OPTIONS - WK	49	0	-	0	-	24	41	-42.2%
CHF/USD MONTHLY OPTIONS	226	261.57	-13.4%	155.57	45.6%	270	265	2.0%
CHF/USD WKLY FRIDAY OPTIONS -	8	0	-	0	-	5	2	181.0%
CHF/USD WKLY FRIDAY OPTIONS -	2	51.95	-96.7%	1.43	20.0%	4	15	-72.3%
CHF/USD WKLY FRIDAY OPTIONS -	12	3.95	200.0%	2.19	441.3%	6	9	-34.0%
CHF/USD WKLY FRIDAY OPTIONS -	8	17.95	-57.0%	1.43	440.0%	6	12	-50.2%
CHF/USD WKLY FRIDAY OPTIONS -	4	0.14	2665.9%	0	-	1	1	-29.8%
EUR/GBP MONTHLY OPTIONS	0	0	-	0	-	16	0	61602.7%
EUR/GBP WKLY FRIDAY OPTIONS -	0	4.76	-100.0%	0	-	0	0	-100.0%

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FX Options								
EURODOLLARS	159	0	-	86.67	83.1%	30	0	-
EUR/USD MONDAY OPTION WEEK1	49	37.38	31.6%	135.76	-63.8%	88	97	-8.7%
EUR/USD MONDAY OPTION WEEK2	144	34	322.5%	121.52	18.2%	131	103	27.1%
EUR/USD MONDAY OPTION WEEK3	93	55.48	68.4%	36.33	157.1%	54	73	-26.1%
EUR/USD MONDAY OPTION WEEK4	30	263.05	-88.5%	70.05	-56.6%	135	146	-7.6%
EUR/USD MONDAY OPTION WEEK5	0	149.95	-100.0%	36.48	-100.0%	22	40	-44.8%
EUR/USD MONTHLY OPTIONS	19,221	10,274.05	87.1%	16,057.38	19.7%	13,755	9,800	40.4%
EUR/USD WKLY FRIDAY OPTIONS -	641	0	-	0.14	448632.1%	294	220	33.3%
EUR/USD WKLY FRIDAY OPTIONS -	419	1,457.76	-71.3%	750.81	-44.2%	652	694	-6.2%
EUR/USD WKLY FRIDAY OPTIONS -	912	1,601.29	-43.0%	733.29	24.4%	801	1,026	-21.9%
EUR/USD WKLY FRIDAY OPTIONS -	591	793.14	-25.4%	756.43	-21.8%	864	895	-3.4%
EUR/USD WKLY FRIDAY OPTIONS -	0	7.76	-94.5%	0	-	257	374	-31.3%
EUR/USD WKLY WED OPTIONS - WK	155	382.24	-59.5%	435.86	-64.4%	310	327	-5.2%
EUR/USD WKLY WED OPTIONS - WK	243	445.38	-45.4%	346.05	-29.7%	267	347	-23.1%
EUR/USD WKLY WED OPTIONS - WK	284	468.29	-39.4%	271.33	4.7%	260	340	-23.7%
EUR/USD WKLY WED OPTIONS - WK	275	516.95	-46.9%	413.24	-33.5%	320	438	-27.0%
EUR/USD WKLY WED OPTIONS - WK	145	0	-	0	-	106	110	-3.6%
GBP/USD MONDAY OPTION WEEK1	33	11.38	187.9%	18.14	80.6%	26	24	9.9%
GBP/USD MONDAY OPTION WEEK2	21	34.71	-38.1%	24.24	-11.4%	49	35	39.9%
GBP/USD MONDAY OPTION WEEK3	31	92.76	-67.0%	13	135.5%	17	26	-36.0%
GBP/USD MONDAY OPTION WEEK4	23	153.95	-85.1%	39.48	-41.7%	27	46	-41.5%
GBP/USD MONDAY OPTION WEEK5	0	27.81	-100.0%	87.67	-100.0%	14	13	9.3%
GBP/USD MONTHLY OPTIONS	3,510	3,444.29	1.9%	5,015.86	-30.0%	4,052	3,549	14.2%
GBP/USD WKLY FRIDAY OPTIONS -	77	0	-	0	-	47	54	-14.1%
GBP/USD WKLY FRIDAY OPTIONS -	165	367.62	-55.0%	211.43	-21.8%	127	144	-11.6%
GBP/USD WKLY FRIDAY OPTIONS -	335	237.81	41.0%	150.76	122.5%	175	157	11.9%
GBP/USD WKLY FRIDAY OPTIONS -	113	178.76	-36.7%	119.81	-5.5%	144	181	-20.3%
GBP/USD WKLY FRIDAY OPTIONS -	23	23.95	-2.2%	0	-	49	50	-3.4%
GBP/USD WKLY WED OPTIONS - WK	31	61.33	-48.7%	104.67	-69.9%	61	59	4.4%
GBP/USD WKLY WED OPTIONS - WK	24	65.86	-63.2%	25.67	-5.6%	23	37	-37.6%
GBP/USD WKLY WED OPTIONS - WK	50	126.48	-60.3%	50.9	-1.4%	50	41	21.1%
GBP/USD WKLY WED OPTIONS - WK	38	179.76	-78.7%	75.52	-49.4%	57	71	-18.8%
GBP/USD WKLY WED OPTIONS - WK	31	0	-	0	-	6	11	-49.1%
JPY/USD MONDAY OPTION WEEK1	4	5.76	-27.3%	7.29	-42.5%	29	19	51.6%
JPY/USD MONDAY OPTION WEEK2	74	6.48	1049.3%	20.86	256.9%	43	27	60.7%
JPY/USD MONDAY OPTION WEEK3	5	9.9	-47.6%	7.43	-30.1%	13	18	-24.8%
JPY/USD MONDAY OPTION WEEK4	14	30.48	-54.8%	303.43	-95.5%	70	21	226.2%
JPY/USD MONDAY OPTION WEEK5	0	9.52	-100.0%	34.29	-100.0%	4	13	-66.6%
JPY/USD MONTHLY OPTIONS	3,884	4,403.76	-11.8%	6,756.52	-42.5%	6,800	4,230	60.8%
JPY/USD WKLY FRIDAY OPTIONS -	296	0	-	0	-	170	126	35.1%
JPY/USD WKLY FRIDAY OPTIONS -	318	840.33	-62.1%	507.81	-37.3%	387	306	26.5%
JPY/USD WKLY FRIDAY OPTIONS -	547	652.71	-16.1%	743.71	-26.4%	566	491	15.3%
JPY/USD WKLY FRIDAY OPTIONS -	186	396.9	-53.1%	607.86	-69.4%	512	440	16.3%
JPY/USD WKLY FRIDAY OPTIONS -	1	14.76	-93.2%	0	-	169	161	4.8%
JPY/USD WKLY WED OPTIONS - WK	82	284.95	-71.1%	464.38	-82.3%	184	149	23.4%
JPY/USD WKLY WED OPTIONS - WK	151	288.24	-47.7%	278.9	-46.0%	176	189	-6.8%
JPY/USD WKLY WED OPTIONS - WK	142	340.1	-58.1%	169.95	-16.2%	154	182	-15.7%
JPY/USD WKLY WED OPTIONS - WK	100	335.67	-70.2%	331.1	-69.8%	212	169	25.2%

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FX Options								
JPY/USD WKLY WED OPTIONS - WK	170	0	-	0	-	68	43	57.6%
MXN/USD MONTHLY OPTIONS	45	46.29	-1.9%	16.81	170.3%	73	68	8.1%
MXN/USD WKLY FRIDAY OPTIONS -	0	14.29	-100.0%	0	-	0	4	-98.1%
MXN/USD WKLY FRIDAY OPTIONS -	5	0	-	0	-	0	2	-81.9%
MXN/USD WKLY FRIDAY OPTIONS -	0	0	-	0	-	0	3	-100.0%
NZD/USD MONTHLY OPTIONS	0	27.95	-99.3%	0.48	-60.0%	103	12	796.4%
NZD/USD WKLY FRIDAY OPTIONS -	0	0	-	0	-	0	0	-100.0%
RUB/USD MONTHLY OPTIONS	0	0	-	0	-	0	0	-100.0%
Equity Index Futures								
BITCOIN	13,969	9,698.52	44.0%	13,305.38	5.0%	11,035	10,241	7.8%
DJ US REAL ESTATE SECTOR	1,793	1,286.14	39.4%	2,576.29	-30.4%	3,545	2,651	33.7%
E-mini (\$5) Dow	201,025	167,957.48	19.7%	200,348.52	0.3%	205,034	174,705	17.4%
E-mini FTSE China 50	11	4.48	145.7%	5.52	99.1%	32	3	868.8%
E-MINI MIDCAP	12,609	13,573.95	-7.1%	13,955.1	-9.6%	15,794	12,598	25.4%
E-MINI NASDAQ 100	629,803	563,292.62	11.8%	764,370.52	-17.6%	708,470	548,426	29.2%
E-MINI RUSSELL 1000	65	321.38	-79.8%	487	-86.7%	581	505	15.0%
E-MINI RUSSELL 1000 GROWTH	268	146.57	82.6%	374.19	-28.5%	406	230	76.4%
E-MINI RUSSELL 1000 VALUE	269	703.29	-61.8%	186.24	44.3%	1,038	1,356	-23.5%
E-MINI RUSSELL 2000	193,093	207,516.1	-7.0%	249,119.43	-22.5%	241,460	199,101	21.3%
E-MINI S&P500	1,730,629	1,404,652.62	23.2%	2,292,934.1	-24.5%	2,007,440	1,561,048	28.6%
E-MINI S&P500 ESG	762	696.52	9.5%	1,350.48	-43.5%	1,461	921	58.7%
ETHER	0	0	-	0	-	0	0	-
ETHER FUTURES	8,032	5,825.81	37.9%	6,292.33	27.6%	6,495	3,469	87.2%
FT-SE 100	0	1.24	-84.6%	6.9	-97.2%	7	6	10.8%
FTSE Emerging	0	0	-	0	-	0	0	-100.0%
IBOVESPA INDEX	2	12.67	-83.5%	2.48	-15.4%	3	11	-75.0%
MICRO BITCOIN	16,365	27,613.9	-40.7%	10,426.24	57.0%	15,501	14,383	7.8%
MICRO E-MINI NASDAQ 100	1,241,292	1,015,440.1	22.2%	1,509,736.24	-17.8%	1,486,632	932,611	59.4%
MICRO E-MINI RUSSELL 2000	106,682	178,029.52	-40.1%	139,584.48	-23.6%	135,195	152,507	-11.4%
MICRO E-MINI S&P500	1,294,560	862,098.9	50.2%	1,585,755.9	-18.4%	1,382,169	855,016	61.7%
MICRO ETHER	22,588	0	-	15,695.95	43.9%	20,545	0	-
MICRO MINI \$5 DOW	153,494	139,305.57	10.2%	174,840.43	-12.2%	182,715	130,429	40.1%
NASDAQ-100 VOLATILITY	2	0.67	157.1%	3.33	-48.6%	81	0	16616.5%
NASDAQ BIOTECH SECTOR	3	2.52	18.9%	9.62	-68.8%	10	31	-68.9%
Nearby BTIC+	2	0	-	35.71	-93.3%	33	2	1564.0%
NIKKEI 225 (\$) STOCK	4,614	4,673.9	-1.3%	4,804.48	-4.0%	5,525	6,240	-11.5%
NIKKEI 225 (YEN) STOCK	28,051	31,180.1	-10.0%	36,150.14	-22.4%	37,080	32,083	15.6%
PHLX SEMICONDUCTOR SECTOR	11	0	-	39.48	-72.4%	8	0	-
S&P 500	2,395	973.76	146.0%	1,940.62	23.4%	3,521	4,951	-28.9%
S&P 500 ANNUAL DIVIDEND INDEX F	3,714	1,932.81	92.2%	4,392.48	-15.4%	3,976	2,888	37.6%
S&P 500 QUARLY DIVIDEND INDEX F	313	217.14	44.3%	211.38	48.2%	217	123	75.7%
S&P BIOTECHNOLOGY SECTOR	49	0	-	49.86	-2.3%	40	0	-
S&P COMMUNICATION SERVICES S	121	90.52	33.4%	151.05	-20.1%	193	179	7.7%
S&P CONSUMER DISCRETIONARY S	224	641.48	-65.1%	401.57	-44.2%	617	580	6.3%
S&P CONSUMER STAPLES SECTOR	582	563.29	3.3%	947.9	-38.6%	1,306	1,641	-20.4%

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	ADV NOV 2022	ADV NOV 2021	% CHG	ADV OCT 2022	% CHG	ADV Y.T.D 2022	ADV Y.T.D 2021	% CHG
Equity Index Futures								
S&P ENERGY SECTOR	1,399	1,890.9	-26.0%	2,013.62	-30.5%	3,132	2,390	31.0%
S&P FINANCIAL SECTOR	692	1,592.14	-56.5%	940.1	-26.3%	1,680	2,888	-41.8%
S&P HEALTH CARE SECTOR	393	738.62	-46.8%	524.24	-25.1%	1,217	1,169	4.1%
S&P INDUSTRIAL SECTOR	1,564	367.76	325.3%	924.33	69.2%	1,416	1,115	27.0%
S&P MATERIALS SECTOR	660	512.86	28.6%	442.52	49.0%	732	649	12.7%
S&P OIL & GAS EXPLORATION AND	17	0	-	23.52	-25.9%	20	0	-
S&P REAL ESTATE SECTOR	88	110.62	-20.6%	197.62	-55.5%	305	402	-24.1%
S&P REGIONAL BANKS SECTOR	15	0	-	28.05	-45.0%	11	0	-
S&P RETAIL SECTOR	14	0	-	8.57	60.6%	14	0	-
S&P TECHNOLOGY SECTOR	505	538.1	-6.2%	1,403.05	-64.0%	1,221	727	67.9%
S&P UTILITIES SECTOR	1,035	971.86	6.5%	976.05	6.0%	1,673	1,497	11.8%
S&P VALUE INDEX FUTURES	0	0	-	0	-	0	11	-100.0%
WATER INDEX FUTURES	0	0.05	200.2%	0	-	3	4	-37.2%
YEN DENOMINATED TOPIX	7	192.33	-96.4%	1.86	276.9%	87	119	-27.0%

Equity Index Options

BITCOIN OPTIONS	290	77.81	272.6%	230.62	25.7%	151	68	121.7%
DJIA	166	0	-	146.62	13.0%	37	0	-
E-mini (\$5) Dow	158	322.9	-51.1%	124.57	26.8%	110	103	5.8%
E-MINI NASDAQ 100	44,496	30,650.62	45.2%	50,536.19	-12.0%	47,922	27,359	75.2%
E-mini Russell 2000	2,795	5,784.52	-51.7%	4,767.1	-41.4%	4,787	4,502	6.3%
E-MINI RUSSELL 2000	1,714	3,008.14	-43.0%	1,228.57	39.5%	1,530	1,481	3.3%
E-mini S&P 500	525,634	455,155.57	15.5%	681,567.14	-22.9%	567,021	364,487	55.6%
E-MINI S&P500	656,485	452,560.71	45.1%	714,375.24	-8.1%	580,981	314,444	84.8%
EOM S&P 500	0	0	-	0	-	0	87	-100.0%
ETHER OPTIONS	24	0	-	22.19	8.6%	5	0	-
MICRO BITCOIN	163	0	-	336.05	-51.4%	337	0	-
Micro E-mini Nasdaq-100	1,782	1,827.57	-2.5%	1,924.14	-7.4%	2,031	1,372	48.0%
MICRO E-MINI NASDAQ 100	483	532.9	-9.4%	318.29	51.6%	549	294	86.7%
Micro E-mini S&P 500	12,247	11,786.38	3.9%	10,542.19	16.2%	11,272	7,846	43.7%
MICRO ETHER	1,440	0	-	1,884.48	-23.6%	1,511	0	-
S&P 500	0	0	-	0	-	0	5,662	-100.0%

Interest Rate Futures

10-YR Eris LIBOR	221	178.9	23.7%	155.76	42.1%	692	574	20.5%
10-YR Eris SOFR	86	0	-	73.33	17.7%	47	1	3786.0%
10-YR MAC LIBOR	240	1,731.62	-86.1%	242.24	-0.8%	1,231	5,535	-77.8%
10-YR MAC SOFR	0	0	-	0.1	-100.0%	0	0	-
10-YR NOTE	2,174,701	2,355,317	-7.7%	1,657,438.43	31.2%	1,898,452	1,927,403	-1.5%
10Y YIELD	2,482	4,424.29	-43.9%	5,386.14	-53.9%	4,702	2,970	58.3%
15-YR Eris LIBOR	0	0	-	0	-	7	0	-
1-MONTH EURODOLLAR	191	0	-	97.52	95.9%	338	0	3890304.6%
1-YR Eris BSBY	0	0	-	0	-	7	0	-
1-YR Eris SOFR	69	1,387.14	-95.0%	34.81	98.4%	974	3,152	-69.1%

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Interest Rate Futures								
20-YR BOND	110	0	-	87.9	25.0%	164	0	-
20-YR SWAP RATE	0	0	-	0	-	0	0	-
2-YR Eris LIBOR	221	1,501.62	-85.3%	961.95	-77.0%	3,407	1,060	221.3%
2-YR Eris SOFR	565	773.14	-27.0%	367.05	53.8%	570	245	132.9%
2-YR NOTE	882,992	763,913.29	15.6%	507,564.05	74.0%	702,369	471,641	48.9%
2Y YIELD	429	812.52	-47.2%	458.24	-6.4%	386	148	159.9%
30-Year UMBS TBA Futures - 2.5% Co	3	0	-	0	-	0	0	-
30-Year UMBS TBA Futures - 3.0% Co	6	0	-	0	-	1	0	-
30-Year UMBS TBA Futures - 3.5% Co	31	0	-	0	-	3	0	-
30-Year UMBS TBA Futures - 4.0% Co	14	0	-	0	-	1	0	-
30-Year UMBS TBA Futures - 4.5% Co	9	0	-	0	-	1	0	-
30-Year UMBS TBA Futures - 5.0% Co	20	0	-	0	-	2	0	-
30-YR BOND	452,782	573,984.71	-21.1%	331,379.67	36.6%	399,034	464,288	-14.1%
30-YR Eris LIBOR	0	0	-	0	-	3	6	-50.7%
30-YR SWAP RATE	0	0	-	0	-	19	81	-76.8%
30Y YIELD	201	320.33	-37.2%	533.81	-62.3%	461	99	365.8%
3-YR Eris BSBY	0	0	-	0	-	0	0	-
3-YR Eris LIBOR	93	1,351.48	-93.1%	17.62	429.5%	952	1,016	-6.3%
3-YR Eris SOFR	1,268	202.95	524.9%	1,315.81	-3.6%	444	83	433.7%
3-YR NOTE	8,107	19,613.05	-58.7%	11,247.24	-27.9%	15,363	10,487	46.5%
4-YR Eris LIBOR	24	115.62	-79.6%	8.1	191.2%	274	142	92.7%
4-YR Eris SOFR	122	0	-	158.05	-22.9%	76	26	195.7%
5-YR Eris LIBOR	581	1,637.9	-64.6%	538.9	7.7%	1,780	1,566	13.6%
5-YR Eris SOFR	159	7.19	2114.6%	94.05	69.3%	150	21	609.2%
5-YR MAC LIBOR	1,168	2,495.43	-53.2%	2,562.38	-54.4%	1,672	2,620	-36.2%
5-YR NOTE	1,659,548	1,670,979.9	-0.7%	1,064,364.86	55.9%	1,348,169	1,155,052	16.7%
5Y YIELD	25	623.9	-96.0%	27.52	-10.0%	97	125	-21.9%
7-YR Eris LIBOR	85	59.76	42.2%	78.24	8.6%	192	128	49.3%
7-YR Eris SOFR	100	0	-	88.24	12.9%	48	0	-
BSBY 3-MONTH FUTURES	939	4,524.71	-79.3%	1,234.52	-24.0%	2,434	1,740	39.9%
ESTR Basis Spread Futures	78	0	-	1.95	3897.5%	7	0	-
ESTR Futures	268	0	-	0.52	51119.1%	25	0	-
EURODOLLARS	722,199	2,876,659.71	-74.9%	847,294.43	-14.8%	1,669,247	2,463,829	-32.2%
FED FUND	329,328	220,108	49.6%	310,660.71	6.0%	344,264	107,643	219.8%
SOFR	2,330,987	304,313.95	666.0%	1,980,800.48	17.7%	1,744,200	145,949	1095.1%
SONIA	0	257.29	-100.0%	0	-	6	3,494	-99.8%
TIIE	1	1.86	-35.9%	1.67	-28.6%	5	4	24.2%
Ultra 10-Year Note	490,279	569,807.24	-14.0%	333,690.14	46.9%	390,182	384,426	1.5%
ULTRA T-BOND	379,146	352,936.1	7.4%	180,706.57	109.8%	245,126	237,314	3.3%

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Interest Rate Options								
10-YR NOTE	631,331	713,618.52	-11.5%	664,359.1	-5.0%	659,078	647,394	1.8%
2-YR NOTE	6,983	2,436.57	186.6%	10,621.14	-34.3%	4,288	815	426.2%
30-YR BOND	94,528	160,806.1	-41.2%	114,282.43	-17.3%	117,032	131,878	-11.3%
5-YR NOTE	195,677	231,780.57	-15.6%	232,667.9	-15.9%	248,846	159,085	56.4%
EURODOLLARS	462,432	495,341.1	-6.6%	538,836.67	-14.2%	588,701	235,859	149.6%
EURO MIDCURVE	35,679	940,430.95	-96.2%	52,420.76	-31.9%	284,375	834,197	-65.9%
FED FUND	0	0	-	190.48	-100.0%	18	0	-
SOFR	763,166	0	-	735,424.67	3.8%	317,744	38	844573.8%
SOFR MIDCURVE	199,901	0.717985500.3%		164,795.81	21.3%	85,797	09732466.7%	
Ultra 10-Year Note	1	0	-	3.57	-66.7%	4	0	1750.0%
ULTRA T-BOND	55	27.76	97.4%	80.62	-32.0%	107	32	234.3%

Energy Futures

AEP-DAYTON HUB DAILY	0	0	-	0	-	0	0	-
ARGUS LLS VS. WTI (ARG) T	137	269.57	-49.3%	304.76	-55.2%	275	404	-32.1%
ARGUS PROPAN FAR EST INDE	432	271.57	59.1%	292	48.0%	288	293	-1.8%
ARGUS PROPAN(SAUDI ARAMCO	144	90.52	59.2%	89.19	61.6%	97	88	11.2%
BRENT BALMO SWAP	0	0	-	0	-	7	6	20.8%
BRENT CALENDAR SWAP	283	642.52	-55.9%	397.1	-28.7%	669	490	36.6%
BRENT FINANCIAL FUTURES	0	0	-	0	-	1	18	-93.9%
BRENT OIL LAST DAY	69,822	106,053.67	-34.2%	69,051.86	1.1%	70,508	97,710	-27.8%
CAR VINTAGE	870	638.33	36.2%	664.76	30.8%	736	179	311.8%
CHICAGO ETHANOL SWAP	2,635	3,703.81	-28.9%	2,787.86	-5.5%	2,839	3,533	-19.6%
CHICAGO ULSD PL VS HO SPR	21	1.19	1660.0%	73.33	-71.4%	31	16	91.4%
CHICAGO UNL GAS PL VS RBO	0	3.57	-100.0%	0	-	0	2	-100.0%
CONWAY NATURAL GASOLINE (OPI	1	2.38	-70.0%	17.38	-95.9%	13	14	-10.0%
CONWAY NORMAL BUTANE (OPIS) S	29	10.24	181.4%	15.71	83.3%	18	14	28.6%
CONWAY PROPANE 5 DECIMALS S	948	709.29	33.6%	881.81	7.5%	786	711	10.6%
CRUDE OIL	0	0	-	0	-	4	16	-73.2%
CRUDE OIL LAST DAY	33	21.76	52.5%	18.57	78.7%	21	14	50.8%
CRUDE OIL OUTRIGHTS	4,333	4,675.9	-7.3%	3,186.71	36.0%	3,687	3,386	8.9%
CRUDE OIL PHY	888,077	1,190,386.95	-25.4%	786,580.62	12.9%	954,044	1,033,300	-7.7%
CRUDE OIL SPRDS	2,925	2,059.29	42.0%	2,065.43	41.6%	2,537	1,330	90.7%
CRUDE OIL TRADE AT MARKER SIN	0	0	-	0	-	0	0	-
DAILY PJM	0	0	-	0	-	0	0	-
DATED TO FRONTLINE BRENT	0	0	-	0	-	10	12	-18.2%
DIESEL 10P BRG FOB RDM VS	0	0	-	0	-	0	0	-83.4%
DOMINION TRANSMISSION INC	0	0	-	0	-	0	0	-
DUBAI CRUDE OIL CALENDAR	0	0	-	0	-	9	0	-
DUTCH TTF NATURAL GAS CAL MO	0	81.52	-100.0%	0	-	64	1,884	-96.6%
EAST/WEST FUEL OIL SPREAD	0	0	-	0	-	0	0	-
EIA FLAT TAX ONHWAY DIESE	56	1.33	4089.4%	0	-	9	19	-53.9%
ELEC FINSETTLED	0	0	-	0	-	0	0	-
ELECTRICITY OFF PEAK	0	0	-	0	-	0	0	-
EMMISSIONS	161	0	-	68.43	136.0%	98	0	-
ETHANOL	0	0	-	0	-	0	1	-96.3%

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Energy Futures								
ETHANOL SWAP	7	15	-50.8%	14.29	-48.3%	9	9	-0.4%
ETHANOL T2 FOB ROTT INCL DUTY	174	187.1	-7.0%	132.52	31.3%	168	178	-5.7%
EURO 3.5% FUEL OIL RDAM B	0	1.67	-100.0%	0	-	0	0	-100.0%
EURO GASOIL 10 CAL SWAP	0	0	-	0	-	0	0	-
EURO GASOIL 10PPM VS ICE	0	2.14	-100.0%	0	-	5	12	-58.4%
EUROPE 1% FUEL OIL NWE CA	0	0	-	0	-	0	0	-100.0%
EUROPE 3.5% FUEL OIL MED	0	0	-	0	-	0	0	-100.0%
EUROPE 3.5% FUEL OIL RDAM	0	4.71	-99.0%	0.62	-92.3%	2	2	3.5%
EUROPEAN GASOIL (ICE)	6	17.67	-65.2%	9.48	-35.2%	59	36	62.7%
EUROPEAN NAPHTHA BALMO	1	3.57	-60.0%	0.24	500.0%	1	1	78.8%
EUROPEAN NAPHTHA CRACK SPR	14	119.14	-88.3%	61.52	-77.3%	94	82	14.6%
EUROPE DATED BRENT SWAP	0	0	-	0	-	0	3	-100.0%
EUROPE JET KERO NWE CALSW	0	0	-	0	-	0	0	-100.0%
EUROPE NAPHTHA CALSWAP	39	32.43	20.9%	16.33	139.9%	29	29	-0.8%
EURO PROPANE CIF ARA SWA	82	90.81	-9.8%	110.14	-25.6%	85	75	13.2%
FREIGHT MARKETS	15	17.76	-17.2%	4.19	251.1%	13	10	25.0%
FUEL OIL CRACK VS ICE	1	0	-	0	-	5	10	-45.3%
FUEL OIL NWE CRACK VS ICE	0	0	-	0	-	0	0	-8.3%
FUELOIL SWAP:CARGOES VS.B	0	0	-	0	-	0	0	-
GAS EURO-BOB OXY NWE BARGES	7	17.05	-58.9%	1	600.0%	9	31	-70.6%
GAS EURO-BOB OXY NWE BARGES	59	356.1	-83.3%	57.48	3.5%	113	260	-56.5%
GASOIL 0.1CIF MED VS ICE	0	0	-	0	-	0	0	-25.0%
GASOIL 0.1 RDAM BRGS VS I	0	0	-	0	-	0	0	-76.2%
GASOIL 0.1 ROTTERDAM BARG	0	0.71	-33.3%	0	-	0	1	-57.3%
GASOIL 10PPM VS ICE SWAP	0	0	-	0.57	-100.0%	0	0	-
GASOIL CALENDAR SWAP	2	7.81	-78.0%	0.29	500.0%	4	7	-36.1%
GASOIL CRACK SPREAD CALEN	1	223	-99.7%	0	-	48	89	-46.5%
GASOIL MINI CALENDAR SWAP	17	28.9	-40.7%	5.52	210.3%	14	18	-21.7%
GERMAN POWER BASELOAD CAL M	0	0.29	-100.0%	0	-	0	1	-100.0%
GRP THREE ULSD(PLT)VS HEA	145	164.76	-12.3%	229.81	-37.1%	214	206	3.9%
GRP THREE UNL GS (PLT) VS	77	130.48	-40.7%	43.1	79.6%	141	126	11.9%
GULF COAST 3% FUEL OIL BA	0	1.33	-100.0%	0	-	4	3	30.7%
GULF COAST JET FUEL CLNDR	0	0	-	0	-	0	0	-
GULF COAST JET VS NYM 2 H	211	454.05	-53.6%	248.52	-15.3%	439	966	-54.6%
GULF COAST NO.6 FUEL OIL	983	218.81	349.3%	1,099.1	-10.5%	627	207	203.1%
GULF COAST ULSD CALENDAR	57	3.24	1669.1%	0	-	9	18	-52.3%
GULF COAST ULSD CRACK SPR	0	0	-	0	-	0	0	-
HEATING OIL BALMO CLNDR S	1	11.19	-91.5%	4.14	-77.0%	15	14	11.8%
HEATING OIL CRCK SPRD BAL	0	0	-	0	-	1	11	-94.8%
HEATING OIL PHY	127,362	181,774.19	-29.9%	168,817.14	-24.6%	159,758	156,116	2.3%
HENRY HUB SWAP	699	703.57	-0.7%	1,121.24	-37.7%	1,284	1,489	-13.8%
HOUSTON SHIP CHANNEL BASI	0	0	-	0	-	0	0	-
HTG OIL	0	0	-	1.71	-100.0%	0	1	-12.9%
ICE BRENT DUBAI SWAP	10	54.29	-80.7%	0	-	10	29	-64.2%
ICE GASOIL BALMO SWAP	0	0	-	0	-	0	0	-100.0%
INDIANA MISO	0	0	-	0	-	0	0	-
INDONESIAN COAL ICI4	0	0	-	0	-	0	5	-100.0%
JAPAN C&F NAPHTHA CRACK S	0	0.29	-100.0%	0	-	2	0	7029.9%

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	ADV NOV 2022	ADV NOV 2021	% CHG	ADV OCT 2022	% CHG	ADV Y.T.D 2022	ADV Y.T.D 2021	% CHG
Energy Futures								
JAPAN C&F NAPHTHA SWAP	2	2.19	2.2%	6.71	-66.7%	5	3	81.1%
JAPAN NAPHTHA BALMO SWAP	0	0.29	-100.0%	0	-	0	0	-66.7%
JET CIF NWE VS ICE	0	18.38	-100.0%	1.14	-100.0%	7	8	-12.9%
JET FUEL UP-DOWN BALMO CL	6	60.71	-90.2%	11.67	-49.0%	67	74	-10.2%
JKM LNG Futures	18	39.52	-53.5%	15.95	15.2%	16	28	-43.8%
LA CARB DIESEL (OPIS) SWA	2	1.67	22.9%	0.48	330.0%	10	9	17.9%
LA CARBOB GASOLINE(OPIS)S	0	0	-	0	-	0	1	-100.0%
LA JET (OPIS) SWAP	1	33.57	-96.5%	2.38	-50.0%	15	25	-40.6%
LLS (ARGUS) CALENDAR SWAP	0	0	-	0	-	0	0	-
LLS (ARGUS) VS WTI SWAP	0	16	-100.0%	0	-	0	12	-96.7%
LTD NAT GAS	17,422	16,047.14	8.6%	16,613.95	4.9%	16,960	16,115	5.2%
MARS (ARGUS) VS WTI SWAP	0	0	-	0	-	7	8	-3.7%
MARS (ARGUS) VS WTI TRD M	565	878.86	-35.7%	723.1	-21.8%	731	884	-17.3%
MCCLOSKEY ARA ARGS COAL	102	424.76	-76.1%	44.1	130.2%	243	638	-62.0%
MCCLOSKEY RCH BAY COAL	1	73.43	-99.0%	3.81	-81.2%	18	46	-60.8%
MGN1 SWAP FUT	0	0	-	0	-	0	0	-
MINI GAS EUROBOB OXY NWE ARG	0	3.24	-100.0%	0	-	1	1	36.3%
MINI RBOB V. EBOBARG NWE BRGS	0	0	-	0	-	0	2	-87.2%
MINI RBOB V. EBOB(ARGUS) NWE B	15	15.19	-2.8%	6.19	138.5%	15	27	-45.2%
MINY HTG OIL	1	0.43	44.4%	0.48	30.0%	0	0	41.4%
MINY NATURAL GAS	15,503	15,529.81	-0.2%	9,467.62	63.8%	14,832	9,178	61.6%
MINY RBOB GAS	0	0.38	-37.5%	0.33	-28.6%	0	0	1.1%
MINY WTI CRUDE OIL	20,605	29,460.86	-30.1%	22,087.62	-6.7%	28,496	20,789	37.1%
MJC FUT	0	0	-	0	-	0	0	-100.0%
MNC FUT	79	93.52	-15.6%	73.57	7.3%	81	45	79.8%
MONT BELVIEU ETHANE 5 DECIMAL	1,802	1,401.19	28.6%	1,527.24	18.0%	1,741	1,399	24.5%
MONT BELVIEU ETHANE OPIS BALM	56	69.05	-18.9%	10.48	434.5%	44	43	2.3%
MONT BELVIEU LDH PROPANE 5 DE	9,504	9,315.67	2.0%	9,172.43	3.6%	8,254	9,048	-8.8%
MONT BELVIEU LDH PROPANE OPIS	113	93.19	21.6%	75.86	49.3%	128	147	-13.0%
MONT BELVIEU NATURAL GASOLIN	961	834.57	15.2%	1,291.14	-25.5%	1,161	710	63.5%
MONT BELVIEU NATURAL GASOLIN	114	9.86	1056.0%	134	-15.0%	82	29	181.5%
MONT BELVIEU NORMAL BUTANE 5	2,877	2,628.71	9.5%	2,751.86	4.6%	2,634	2,645	-0.4%
MONT BELVIEU NORMAL BUTANE B	75	56.33	33.3%	107	-29.8%	73	61	19.5%
NATURAL GAS	7,042	6,762.14	4.1%	7,069.38	-0.4%	8,026	7,705	4.2%
NATURAL GAS PEN SWP	1,293	1,985.38	-34.9%	1,573.29	-17.8%	2,081	2,541	-18.1%
NATURAL GAS PHY	331,409	359,778.52	-7.9%	305,303.57	8.6%	341,447	390,951	-12.7%
NEPOOL INTR HUB 5MW D AH	0	0	-	0	-	0	0	-
NEW ENGLAND HUB PEAK DAIL	0	0	-	0	-	0	0	-
NEW YORK ETHANOL SWAP	23	11.67	100.0%	28.81	-19.0%	41	8	422.4%
NEW YORK HUB ZONE G PEAK	0	0	-	0	-	0	0	-
NEW YORK HUB ZONE J PEAK	0	0	-	0	-	0	0	-
N ILLINOIS HUB DAILY	0	0	-	0	-	0	0	-
NY1% VS GC SPREAD SWAP	0	0	-	0	-	0	0	-
NY HARBOR 1% FUEL OIL BAL	0	0	-	0	-	0	0	-
NY HARBOR HEAT OIL SWP	158	120.57	31.4%	49.43	220.5%	69	55	25.2%
NY HARBOR LOW SULPUR GAS 100C	0	0	-	0	-	0	7	-100.0%
NY HARBOR RESIDUAL FUEL 1	4	9.52	-62.5%	3.57	0.0%	6	11	-41.2%
NYH NO 2 CRACK SPREAD CAL	5	26.76	-81.3%	64	-92.2%	74	74	0.1%

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Energy Futures								
NYISO CAPACITY	0	0	-	0	-	0	0	-
NYISO ZONE G 5MW D AH O P	0	0	-	0	-	0	0	-
NYISO ZONE G 5MW D AH PK	0	0	-	0	-	0	0	-
NY ULSD (ARGUS) VS HEATING OIL	48	0	-	40	18.8%	28	3	886.2%
PANHANDLE BASIS SWAP FUTU	0	0	-	0	-	0	0	-
PETROCHEMICALS	181	197.9	-8.5%	200.48	-9.7%	165	184	-10.8%
PETRO CRCKS & SPRDS ASIA	0	0	-	0	-	0	0	-
PETRO CRCKS & SPRDS NA	518	731.9	-29.2%	672.24	-22.9%	900	1,152	-21.8%
PETRO CRK&SPRD EURO	37	63.38	-41.2%	39.29	-5.1%	41	41	-1.1%
PETROLEUM PRODUCTS	10	43.33	-76.2%	139.24	-92.6%	98	45	118.3%
PETROLEUM PRODUCTS ASIA	11	13.33	-14.3%	15.71	-27.3%	32	13	157.1%
PETRO OUTRIGHT EURO	346	470.1	-26.3%	316.14	9.5%	457	374	22.1%
PETRO OUTRIGHT NA	123	153.43	-19.9%	196.52	-37.5%	198	155	27.7%
PJM AD HUB 5MW REAL TIME	0	0	-	0	-	0	0	-
PJM DAILY	0	0	-	0	-	0	0	-
PJM NI HUB 5MW REAL TIME	0	0	-	0	-	0	0	-
PJM WESTH RT OFF-PEAK	0	0	-	0	-	0	0	-
PJM WESTH RT PEAK	0	0	-	0	-	0	0	-
PLASTICS	35	96.48	-64.0%	64.14	-45.9%	46	66	-30.3%
PREMIUM UNLD 10P FOB MED	0	0	-	0	-	0	1	-40.0%
PROPANE NON-LDH MB (OPIS) BAL	95	63.48	50.0%	114.48	-16.8%	81	65	24.4%
PROPANE NON-LDH MT. BEL (OPIS)	1,183	1,055.9	12.0%	675.38	75.1%	664	790	-16.0%
RBOB CALENDAR SWAP	374	217.67	71.9%	400.1	-6.5%	262	319	-18.0%
RBOB CRACK SPREAD	14	27.38	-47.8%	18.81	-24.1%	66	94	-29.9%
RBOB CRACK SPREAD BALMO S	0	0	-	0	-	1	0	-
RBOB GAS	0	0	-	1.14	-100.0%	0	0	-14.3%
RBOB GASOLINE BALMO CLNDR	0	39.67	-98.9%	30.81	-98.6%	54	38	41.8%
RBOB PHY	137,827	196,952.76	-30.0%	145,368.33	-5.2%	166,260	193,587	-14.1%
RBOB VS HEATING OIL SWAP	0	0	-	20	-100.0%	4	5	-11.8%
SINGAPORE 180CST BALMO	0	0	-	0	-	0	0	-
SINGAPORE 380CST BALMO	0	0	-	0	-	0	0	-95.7%
SINGAPORE 380CST FUEL OIL	1	9	-89.4%	0.57	66.7%	6	9	-34.6%
SINGAPORE FUEL 180CST CAL	0	0	-	0.14	-100.0%	0	0	-
SINGAPORE FUEL OIL 180 CS	0	0	-	0	-	0	0	-100.0%
SINGAPORE FUEL OIL SPREAD	0	0	-	2.14	-100.0%	0	0	-
SINGAPORE GASOIL	16	40.33	-59.1%	22.05	-25.3%	36	32	10.6%
SINGAPORE GASOIL CALENDAR	1	11.19	-88.9%	2.9	-57.4%	6	36	-84.8%
SINGAPORE GASOIL SWAP	0	10.71	-100.0%	0.71	-100.0%	14	58	-76.3%
SINGAPORE GASOIL VS ICE	0	51.43	-100.0%	0	-	17	48	-64.6%
SINGAPORE JET KERO GASOIL	0	83.71	-100.0%	0	-	16	16	-0.6%
SINGAPORE JET KEROSENE SW	0	61.9	-100.0%	0	-	2	15	-88.2%
SINGAPORE MOGAS 92 UNLEADED	0	0	-	0	-	4	3	32.8%
SINGAPORE MOGAS 92 UNLEADED	0	34.52	-100.0%	0	-	3	32	-91.8%
TC2 ROTTERDAM TO USAC 37K	1	0	-	6.86	-91.7%	2	1	50.0%
TC5 RAS TANURA TO YOKOHAM	0	0	-	0	-	1	3	-60.8%
TD3 MEG TO JAPAN 250K MT	6	40.24	-85.8%	1.9	200.0%	28	53	-47.7%
TEXAS EASTERN ZONE M-3 BA	0	0	-	0	-	0	0	-
UK NBP NAT GAS CAL MTH FUT	0	0	-	0	-	0	11	-100.0%

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Energy Futures								
ULSD UP-DOWN BALMO SWP	215	297.86	-27.9%	349.29	-38.5%	287	239	19.9%
UP DOWN GC ULSD VS NMX HO	975	1,443.76	-32.5%	1,037.71	-6.0%	1,238	1,644	-24.7%
WTI-BRENT CALENDAR SWAP	2,082	3,830.95	-45.6%	2,121.19	-1.8%	2,430	2,489	-2.4%
WTI CALENDAR	2,086	2,591.24	-19.5%	2,240.33	-6.9%	2,906	2,503	16.1%
WTI MIDLAND CRUDE OIL	0	0	-	28.57	-100.0%	4	12	-66.1%
WTS (ARGUS) VS WTI SWAP	10	0	-	7.14	44.0%	121	167	-27.4%
WTS (ARGUS) VS WTI TRD MT	0	14.29	-100.0%	0	-	31	28	10.4%

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Energy Options								
BRENT CALENDAR SWAP	0	2.14	-100.0%	6.86	-100.0%	14	14	5.3%
BRENT CRUDE OIL 1 M CSO	1,679	0	-	1,428.57	17.5%	724	861	-15.9%
BRENT OIL LAST DAY	1,376	2,753.86	-50.0%	1,308.24	5.2%	1,376	2,273	-39.5%
COAL API2 INDEX	1	11.43	-91.7%	0	-	2	12	-81.0%
CRUDE OIL	0	0	-	0	-	0	0	-
CRUDE OIL 1MO	2,735	2,805.24	-2.5%	900	203.8%	2,768	5,391	-48.7%
CRUDE OIL APO	429	770.1	-44.3%	1,106.95	-61.3%	948	1,457	-35.0%
CRUDE OIL CALNDR STRIP	0	0	-	0	-	0	0	-
CRUDE OIL OUTRIGHTS	342	0	-	198.71	72.2%	56	0	-
CRUDE OIL PHY	140,685	168,582.24	-16.5%	116,529.81	20.7%	126,079	124,602	1.2%
ELEC FINSETTLED	0	0	-	0	-	0	0	-
ETHANOL SWAP	91	293.95	-69.0%	68.1	33.6%	133	159	-15.9%
FREIGHT MARKETS	0	0	-	0	-	0	0	-
HEATING OIL CRK SPD AVG PRICE	0	0	-	0	-	3	9	-62.1%
HEATING OIL PHY	682	574.86	18.6%	524.24	30.1%	541	417	29.8%
HENRY HUB FINANCIAL LAST	512	252.95	102.5%	399.14	28.4%	275	383	-28.3%
HO 1 MONTH CLNDR OPTIONS	71	0	-	52.38	36.4%	35	1	3887.3%
LLS CRUDE OIL	0	0	-	0	-	25	0	-
MCCLOSKEY ARA ARGS COAL	0	0	-	0	-	0	2	-100.0%
NATURAL GAS	7	0	-	0	-	21	0	-
NATURAL GAS 1 M CSO FIN	3,683	3,629.52	1.5%	3,060.9	20.3%	4,239	2,813	50.7%
NATURAL GAS 2 M CSO FIN	0	388.1	-100.0%	0	-	61	132	-53.4%
NATURAL GAS 3 M CSO FIN	155	0	-	47.62	225.0%	1,541	1,078	43.0%
NATURAL GAS 5 M CSO FIN	95	250	-61.9%	0	-	210	81	158.7%
NATURAL GAS 6 M CSO FIN	589	335.71	75.5%	166.67	253.6%	449	500	-10.2%
NATURAL GAS OPT	40	119.05	-66.0%	7.14	466.7%	33	762	-95.7%
NATURAL GAS OPTION ON CALEND	0	100	-100.0%	0	-	3	275	-99.1%
NATURAL GAS PHY	92,477	67,396.14	37.2%	89,500.05	3.3%	99,010	101,891	-2.8%
NATURAL GAS SUMMER STRIP	0	0	-	0	-	0	0	-
NY HARBOR HEAT OIL SWP	121	111.52	8.6%	50.81	138.3%	98	52	87.3%
PETROCHEMICALS	0	18.57	-100.0%	5.71	-100.0%	14	50	-70.9%
PETRO OUTRIGHT EURO	0	0	-	0	-	0	0	-
PETRO OUTRIGHT NA	0	5.71	-100.0%	0	-	2	6	-73.4%
PJM WES HUB PEAK CAL MTH	0	0	-	0	-	0	0	-
PJM WES HUB PEAK LMP 50MW	0	0	-	0	-	0	0	-
RBOB 1MO CAL SPD OPTIONS	12	0	-	14.29	-16.7%	16	0	-
RBOB CALENDAR SWAP	1	0	-	0.57	66.7%	16	6	183.0%
RBOB PHY	102	306.76	-66.7%	59.38	71.9%	187	359	-47.9%
SHORT TERM	5	2.38	100.0%	4.76	0.0%	12	7	73.8%
SHORT TERM NATURAL GAS	31	11.9	160.0%	14.29	116.7%	31	21	48.7%
WTI-BRENT BULLET SWAP	590	2,591.67	-77.2%	1,371.43	-56.9%	1,635	1,461	11.9%
WTI CRUDE OIL 1 M CSO FI	3,540	1,908.81	85.5%	2,295.24	54.3%	2,741	3,247	-15.6%

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Metals Futures								
ALUMINUM	2,873	1,715.81	67.5%	3,492.14	-17.7%	2,293	1,230	86.4%
COBALT METAL FUTURES	142	13	994.1%	129	10.3%	61	14	334.2%
COMEX COPPER	118,981	94,182.9	26.3%	86,724.67	37.2%	88,057	101,836	-13.5%
COMEX E-Mini GOLD	2,286	1,282.71	78.2%	2,170.33	5.3%	1,600	1,102	45.2%
COMEX E-Mini SILVER	218	251.38	-13.5%	208.48	4.3%	187	280	-33.4%
COMEX GOLD	258,056	291,932.86	-11.6%	190,422.24	35.5%	221,769	240,832	-7.9%
COMEX MINY COPPER	218	422.1	-48.3%	134.14	62.6%	172	243	-29.2%
COMEX SILVER	88,049	89,562.76	-1.7%	64,129.29	37.3%	69,361	81,136	-14.5%
COPPER	4,458	63.67	6902.8%	3,483.05	28.0%	2,292	105	2092.6%
FERROUS PRODUCTS	215	59.19	264.0%	129.95	65.8%	133	70	90.3%
GOLD	38	727.67	-94.8%	38	-0.6%	267	393	-32.1%
HOT ROLLED COIL STEEL FUTURES	243	82.95	192.9%	287	-15.3%	177	55	221.1%
IRON ORE CHINA	36	77.62	-53.9%	41.9	-14.5%	62	48	28.6%
METALS	5	0	-	3.29	53.6%	9	1	1283.0%
MICRO GOLD	48,616	60,561.33	-19.7%	44,852.05	8.4%	50,878	57,368	-11.3%
NYMEX HOT ROLLED STEEL	884	846.48	4.4%	1,056.19	-16.3%	1,048	987	6.1%
NYMEX PLATINUM	20,647	17,352	19.0%	19,808.67	4.2%	20,153	17,415	15.7%
PALLADIUM	3,706	4,038.1	-8.2%	1,910.52	94.0%	2,296	2,466	-6.9%
SILVER	9,486	6,251.57	51.7%	8,238.86	15.1%	7,912	9,136	-13.4%
URANIUM	0	0	-	0	-	0	5	-98.0%
Metals Options								
ALUMINUM	23	0	-	25.57	-10.2%	5	10	-45.0%
COMEX COPPER	6,008	2,186.76	174.8%	3,902.24	54.0%	4,202	3,104	35.4%
COMEX GOLD	38,363	40,505.14	-5.3%	39,424.43	-2.7%	40,325	34,153	18.1%
COMEX SILVER	8,609	5,636.62	52.7%	6,991	23.1%	5,723	7,297	-21.6%
COPPER	253	6.62	3723.0%	209.14	21.0%	110	2	5935.0%
GOLD	10,881	11,752.86	-7.4%	9,485.67	14.7%	10,330	8,237	25.4%
IRON ORE CHINA	0	0	-	0	-	1	27	-95.2%
NYMEX HOT ROLLED STEEL	96	39.52	144.0%	125.71	-23.3%	79	17	375.4%
NYMEX PLATINUM	142	135.95	4.4%	135.1	5.1%	224	145	54.7%
PALLADIUM	0	3.24	-95.6%	0.38	-62.5%	1	29	-97.9%
SILVER	2,271	901.86	151.8%	1,497.67	51.7%	1,083	613	76.9%
Foreign Exchange Futures								
CHILEAN PESO	0	0	-	0	-	0	0	-
Foreign Exchange Options								
AUD/USD WKLY WED OPTIONS - WK	3	27.14	-88.9%	4.81	-37.6%	15	22	-33.2%

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	ADV NOV 2022	ADV NOV 2021	% CHG	ADV OCT 2022	% CHG	ADV Y.T.D 2022	ADV Y.T.D 2021	% CHG
Ags Futures								
FERTILIZER PRODUCTS	113	176.48	-36.2%	109.29	3.0%	135	186	-27.5%

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	ADV NOV 2022	ADV NOV 2021	% CHG	ADV OCT 2022	% CHG	ADV Y.T.D 2022	ADV Y.T.D 2021	% CHG
Ag Products Futures								
BLOCK CHEESE	9	12.86	-30.0%	15.52	-42.0%	16	35	-55.6%
BUTTER CS	180	184.81	-2.7%	196.05	-8.3%	202	196	3.3%
CASH-SETTLED CHEESE	438	727.9	-39.8%	435.05	0.7%	469	577	-18.7%
CAT ASIA WEATHER	0	0	-	0	-	0	5	-100.0%
CATTLE	57,804	60,670.67	-4.7%	50,074.52	15.4%	57,633	56,469	2.1%
CAT WEATHER EUROPEAN	0	0	-	0	-	0	2	-100.0%
CDD SEASONAL STRIP	0	0	-	0	-	32	27	17.9%
CDD WEATHER	0	0	-	0	-	103	41	153.6%
CHI WHEAT	121,126	142,750.33	-15.1%	85,591.76	41.5%	106,887	123,462	-13.4%
CLASS IV MILK	69	191.62	-64.1%	68.71	0.1%	119	78	52.3%
COFFEE	0	0	-	0	-	0	0	-100.0%
CORN	347,790	388,702.9	-10.5%	238,844.29	45.6%	321,085	358,389	-10.4%
DJ_UBS ROLL SELECT INDEX FUTU	39	36.33	6.2%	67.86	-43.2%	350	152	130.0%
DOW-UBS COMMOD INDEX	672	1,102.67	-39.1%	797.38	-15.8%	2,722	2,365	15.1%
DRY WHEY	32	74.52	-57.3%	23.67	34.6%	47	93	-49.9%
FEEDER CATTLE	13,295	11,159.86	19.1%	14,631.81	-9.1%	13,502	12,305	9.7%
FERTILIZER PRODUCS	0	0	-	0	-	0	0	-
GOLDMAN SACHS	143	242.38	-41.1%	151.33	-5.7%	184	405	-54.5%
GSCI EXCESS RETURN FUT	25	216.29	-88.4%	42.81	-41.3%	1,765	1,643	7.5%
HDD EURO SEASONAL STRIP	0	0	-	47.62	-100.0%	15	0	-
HDD SEASONAL STRIP	0	0	-	7.14	-100.0%	17	2	680.0%
HDD WEATHER	232	157.14	47.7%	350	-33.7%	95	104	-8.6%
HDD WEATHER EUROPEAN	24	214.29	-88.9%	188.1	-87.3%	36	49	-26.7%
HOGS	45,177	46,141.14	-2.1%	42,768.86	5.6%	46,115	46,344	-0.5%
HOUSING INDEX	1	0.95	-15.0%	0.71	13.3%	1	1	13.8%
KC WHEAT	41,605	65,853.71	-36.8%	33,417.62	24.5%	42,921	53,047	-19.1%
LUMBER	400	350.86	14.1%	596.24	-32.8%	429	462	-7.2%
MALAYSIAN PALM SWAP	0	90	-100.0%	0	-	0	391	-100.0%
MILK	1,257	1,531.86	-17.9%	1,032.57	21.8%	1,362	1,207	12.9%
MINI CORN	1,527	2,253.43	-32.2%	1,650	-7.4%	2,537	2,900	-12.5%
MINI SOYBEAN	1,882	1,976	-4.8%	2,742.05	-31.4%	2,800	2,683	4.3%
MINI WHEAT	1,234	1,173.81	5.2%	1,492.43	-17.3%	1,332	1,002	32.9%
MLK MID OPTIONS	0	0	-	0	-	0	0	-
NFD MILK	233	262.38	-11.1%	283.95	-17.8%	271	266	2.0%
OATS	579	959.71	-39.7%	465.71	24.3%	432	569	-24.1%
PACIFIC RIM DAT SS WTHR	0	0	-	0	-	0	4	-100.0%
PORK CUTOOT	71	105.76	-33.0%	76.52	-7.3%	99	115	-13.3%
ROUGH RICE	878	946.57	-7.2%	1,435.9	-38.8%	937	842	11.2%
SOYBEAN	167,806	173,031.33	-3.0%	261,697.52	-35.9%	204,403	211,019	-3.1%
SOYBEAN MEAL	125,396	145,022.48	-13.5%	107,992.67	16.1%	110,018	105,998	3.8%
SOYBEAN OIL	143,020	133,980.05	6.7%	115,673.48	23.6%	116,607	130,773	-10.8%
S&P GSCI ENHANCED ER SWAP	0	0	-	0	-	0	26	-100.0%
USD CRUDE PALM OIL	759	1,393.43	-45.5%	762.33	-0.5%	1,024	459	123.3%
WHEAT	14	1,226.62	-98.8%	14.29	0.0%	251	1,281	-80.4%

Ag Products Options

AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-	1	0	-
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Ag Products Options								
BLOCK CHEESE	0	0	-	0.29	-100.0%	11	14	-19.6%
BUTTER CS	106	88.67	19.5%	93.48	13.3%	79	95	-17.0%
CASH-SETTLED CHEESE	236	256.9	-8.3%	301.57	-21.9%	333	303	9.9%
CATTLE	10,014	11,445.1	-12.5%	9,146.48	9.5%	10,239	9,277	10.4%
CDD SEASONAL STRIP	0	0	-	0	-	89	37	142.6%
CDD WEATHER	0	0	-	0	-	5	27	-82.4%
CHI WHEAT	26,458	36,488.38	-27.5%	28,140.1	-6.0%	29,095	23,413	24.3%
CLASS IV MILK	386	377.43	2.1%	312.43	23.4%	360	206	74.6%
CORN	90,681	92,702.1	-2.2%	85,892.33	5.6%	125,538	131,583	-4.6%
CORN NEARBY+2 CAL SPRD	782	681.14	14.8%	956.43	-18.2%	1,032	605	70.6%
DEC-DEC CORN CAL SPRD	0	38.1	-100.0%	0	-	0	16	-100.0%
DEC-JULY CORN CAL SPRD	155	92.86	66.4%	21.19	629.2%	83	105	-21.0%
DRY WHEY	0	10.71	-100.0%	0.24	-100.0%	14	9	63.1%
FEEDER CATTLE	1,424	1,311.24	8.6%	1,833.62	-22.3%	1,705	1,059	61.0%
HDD EURO SEASONAL STRIP	0	0	-	95.24	-100.0%	29	9	237.5%
HDD SEASONAL STRIP	0	0	-	71.43	-100.0%	17	126	-86.2%
HDD WEATHER	5	0	-	23.81	-80.0%	56	32	77.9%
HDD WEATHER EUROPEAN	0	95.24	-100.0%	47.62	-100.0%	9	105	-91.8%
HOGS	8,742	8,609.71	1.5%	10,821.9	-19.2%	10,859	9,721	11.7%
Intercommodity Spread	0	0	-	0	-	0	1	-100.0%
JAN-MAY SOYBEAN CAL SPRD	14	0	-	0	-	1	0	-
JULY-DEC CORN CAL SPRD	716	0	-	30.95	2212.6%	411	174	135.8%
JULY-DEC SOYMEAL CAL SPRD	0	0	-	0	-	4	0	-
JULY-DEC SOY OIL CAL SPRD	0	0	-	0	-	0	0	-
JULY-DEC WHEAT CAL SPRD	0	0	-	0	-	16	0	3599.9%
JULY-JULY WHEAT CAL SPRD	0	0	-	0	-	0	0	-
JULY-NOV SOYBEAN CAL SPRD	245	110.52	122.1%	251.71	-2.5%	238	23	914.5%
KC WHEAT	2,249	6,953.9	-67.7%	2,840.67	-20.8%	3,363	3,527	-4.7%
LUMBER	10	25.67	-61.8%	18.1	-45.8%	19	33	-43.6%
MAR-DEC CORN CAL SPRD	0	0	-	0	-	0	0	-
MAR-JULY CORN CAL SPRD	421	182.86	130.2%	243.57	72.8%	172	19	819.5%
MAR-JULY SOYBEAN CAL SPRD	0	0	-	2.38	-100.0%	3	0	-
MAR-JULY WHEAT CAL SPRD	0	33.33	-100.0%	0	-	1	3	-78.6%
MILK	1,716	1,194.29	43.6%	1,121.1	53.0%	1,195	1,245	-4.0%
MLK MID OPTIONS	0	0.57	-91.7%	0	-	0	0	64.2%
NFD MILK	193	142.62	35.0%	306.38	-37.2%	212	190	11.7%
NOV-JULY SOYBEAN CAL SPRD	0	0	-	4.76	-100.0%	23	0	-
NOV-MAR SOYBEAN CSO	0	0	-	0	-	0	1	-100.0%
OATS	3	18.95	-82.4%	5.52	-39.7%	9	17	-48.8%
PORK CUTOFF	0	0	-	0	-	0	3	-94.0%
ROUGH RICE	77	108.76	-29.6%	128.29	-40.3%	82	51	61.9%
SEP-DEC SOYBEAN MEAL CSO	0	0	-	0	-	4	0	-
SOYBEAN	37,678	58,581.43	-35.7%	43,627.81	-13.6%	69,306	74,688	-7.2%
SOYBEAN CRUSH	0	0.05	400.2%	0	-	1	5	-86.2%
SOYBEAN MEAL	8,570	17,458.24	-50.9%	8,534.19	0.4%	10,976	11,193	-1.9%
SOYBEAN OIL	15,692	10,615.29	47.8%	10,889.38	44.1%	11,963	13,681	-12.6%
SOYBN NEARBY+2 CAL SPRD	160	0	-	243.38	-34.5%	176	90	95.0%
SOYMEAL NEARBY+2 CAL SPRD	0	0	-	0	-	5	0	-

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Ag Products Options								
SOY OIL NEARBY+2 CAL SPRD	0	0	-	7.14	-100.0%	5	0	-
WHEAT	46	12.81	256.1%	42.24	8.0%	15	52	-71.5%
WHEAT-CORN ICSD	0	0	-	8.1	-100.0%	37	4	901.4%
WHEAT NEARBY+2 CAL SPRD	8	16.19	-50.0%	98.57	-91.8%	148	27	448.7%
TOTAL FUTURES GROUP								
Interest Rate Futures	9,439,877	9,730,040.62	-3.0%	7,239,673	30.4%	8,777,581	7,392,869	18.7%
Equity Index Futures	5,673,783	4,645,368.81	22.1%	7,037,974.86	-19.4%	6,489,673	4,659,909	39.3%
Metals Futures	559,158	569,424.1	-1.8%	427,259.76	30.9%	468,725	514,721	-8.9%
Energy Futures	1,656,834	2,148,716.43	-22.9%	1,570,829.95	5.5%	1,803,786	1,971,145	-8.5%
FX Futures	884,281	761,075.67	16.2%	982,524.52	-10.0%	938,558	754,135	24.5%
Foreign Exchange Futures	0	0	-	0	-	0	0	-
Ags Futures	113	176.48	-36.2%	109.29	3.0%	135	186	-27.5%
Ag Products Futures	1,073,717	1,182,744.67	-9.2%	963,636.48	11.4%	1,036,819	1,115,789	-7.1%
TOTAL FUTURES	19,287,763	19,037,546.76	1.3%	18,222,007.86	5.8%	19,515,277.8	16,408,753.42	18.9%
TOTAL OPTIONS GROUP								
Interest Rate Options	2,389,753	2,544,442.29	-6.1%	2,513,683.14	-4.9%	2,305,990	2,009,297	14.8%
Equity Index Options	1,247,877	961,707.14	29.8%	1,468,003.38	-15.0%	1,218,242	727,706	67.4%
Metals Options	66,646	61,168.57	9.0%	61,796.9	7.8%	62,083	53,632	15.8%
Energy Options	250,053	253,222.62	-1.3%	219,121.86	14.1%	243,295	248,319	-2.0%
FX Options	43,796	39,591.29	10.6%	43,796.95	0.0%	43,336	37,202	16.5%
Ag Products Options	206,785	247,653.05	-16.5%	206,162.38	0.3%	277,939	281,769	-1.4%
Foreign Exchange Options	3	27.14	-88.9%	4.81	-37.6%	15	22	-33.2%
TOTAL OPTIONS	4,204,914	4,107,812.1	2.4%	4,512,569.43	-6.8%	4,150,900.65	3,357,947.52	23.6%
TOTAL COMBINED								
FX	928,077	800,666.95	15.9%	1,026,321.48	-9.6%	981,895	791,338	24.1%
Equity Index	6,921,660	5,607,075.95	23.4%	8,505,978.24	-18.6%	7,707,915	5,387,614	43.1%
Interest Rate	11,829,630	12,274,482.91	-3.6%	9,753,356.14	21.3%	11,083,571	9,402,166	17.9%
Energy	1,906,887	2,401,939.05	-20.6%	1,789,951.81	6.5%	2,047,082	2,219,464	-7.8%
Metals	625,805	630,592.67	-0.8%	489,056.67	28.0%	530,808	568,353	-6.6%
Foreign Exchange	3	27.14	-88.9%	4.81	-37.6%	15	22	-32.7%
Ags	113	176.48	-36.2%	109.29	3.0%	135	186	-27.5%
Ag Products	1,280,502	1,430,397.71	-10.5%	1,169,798.86	9.5%	1,314,758	1,397,557	-5.9%
GRAND TOTAL	23,492,677	23,145,358.86	1.5%	22,734,577.28	3.3%	23,666,178.45	19,766,700.94	19.7%

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