

CME Group Exchange ADV Report - Monthly

April 2019

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	ADV APR 2019	ADV APR 2018	% CHG	ADV MAR 2019	% CHG	ADV Y.T.D 2019	ADV Y.T.D 2018	% CHG
FX Futures								
AD/CD CROSS RATES	1	0.19	375.0%	0.81	11.8%	1	0	173.1%
AD/JY CROSS RATES	136	128.24	6.0%	192.95	-29.5%	144	195	-26.3%
AD/NE CROSS RATES	5	2.95	75.8%	5.95	-12.8%	3	4	-28.1%
AUSTRALIAN DOLLAR	93,626	92,204.19	1.5%	108,306.9	-13.6%	103,085	117,123	-12.0%
BP/JY CROSS RATES	94	141.76	-33.4%	137.71	-31.4%	100	189	-47.1%
BP/SF CROSS RATES	13	13.1	2.9%	19.1	-29.4%	18	14	23.1%
BRAZIL REAL	7,117	7,256.9	-1.9%	7,934.76	-10.3%	6,265	6,116	2.4%
BRITISH POUND	91,029	107,456.24	-15.3%	160,368.1	-43.2%	119,760	133,493	-10.3%
CANADIAN DOLLAR	73,254	72,889.52	0.5%	88,900.38	-17.6%	75,455	85,176	-11.4%
CD/JY CROSS RATES	2	10.38	-78.4%	0.76	193.8%	1	9	-91.4%
CHINESE RENMINBI (CNH)	795	84.81	837.1%	980.76	-19.0%	1,161	116	901.3%
CZECK KORUNA (EC)	0	0	-	0.19	-100.0%	0	0	-
CZECK KORUNA (US)	0	0	-	0	-	0	0	-
EC/AD CROSS RATES	120	33.52	257.5%	502.43	-76.1%	220	82	168.3%
EC/CD CROSS RATES	82	95	-13.8%	342.71	-76.1%	128	198	-35.1%
EC/NOK CROSS RATES	18	14.38	26.5%	46.62	-61.0%	20	15	36.3%
EC/SEK CROSS RATES	8	6.67	25.0%	91.57	-90.9%	34	37	-7.3%
EFX/BP CROSS RATES	2,632	2,712.86	-3.0%	7,986.57	-67.0%	4,467	4,039	10.6%
EFX/JY CROSS RATES	1,472	2,233.71	-34.1%	7,276.33	-79.8%	3,132	3,946	-20.6%
EFX/SF CROSS RATES	1,419	705.29	101.3%	2,473.29	-42.6%	1,511	1,341	12.6%
E-MICRO AUD/USD	5,853	4,042.43	44.8%	5,856.95	-0.1%	6,120	4,872	25.6%
E-MICRO CAD/USD	718	658.81	9.0%	848.67	-15.4%	761	916	-16.9%
E-MICRO CHF/USD	52	48.86	7.1%	132.71	-60.6%	88	63	38.7%
E-MICRO EUR/USD	12,535	16,988.81	-26.2%	12,129.57	3.3%	12,533	19,088	-34.3%
E-MICRO GBP/USD	1,763	2,145.81	-17.9%	3,645.05	-51.6%	2,372	2,856	-17.0%
E-MICRO INR/USD	220	157.95	39.1%	210.05	4.6%	248	158	57.0%
E-MICRO JPY/USD	929	1,572.67	-41.0%	1,193.24	-22.2%	1,319	1,705	-22.6%
E-MINI EURO FX	4,148	3,011.71	37.7%	5,943.67	-30.2%	4,480	4,832	-7.3%
E-MINI JAPANESE YEN	349	479.33	-27.2%	540.33	-35.4%	544	629	-13.5%
EURO FX	186,449	210,007.33	-11.2%	262,749.71	-29.0%	206,119	266,600	-22.7%
HUNGARIAN FORINT (EC)	0	0	-	0	-	0	0	-100.0%
HUNGARIAN FORINT (US)	0	0	-	0	-	0	0	-
INDIAN RUPEE	2,778	3,298.9	-15.8%	3,439.9	-19.2%	3,684	4,272	-13.8%
JAPANESE YEN	101,264	123,844.95	-18.2%	137,934.95	-26.6%	118,454	159,908	-25.9%
KOREAN WON	10	7.1	40.3%	34.05	-70.8%	27	14	83.5%
MEXICAN PESO	47,082	57,030.57	-17.4%	88,579	-46.8%	62,138	64,028	-3.0%
NEW ZEALND DOLLAR	25,034	27,856.81	-10.1%	30,930.81	-19.1%	28,209	32,240	-12.5%
NKR/USD CROSS RATE	174	165.71	5.3%	354.9	-50.8%	190	197	-3.9%
POLISH ZLOTY (EC)	8	0.19	3874.5%	7.62	-0.6%	5	1	799.9%
POLISH ZLOTY (US)	3	3.24	4.4%	10.52	-67.9%	6	6	3.1%
RMB USD	0	0	-	0	-	0	0	-86.7%
RUSSIAN RUBLE	1,639	4,211.76	-61.1%	6,750.14	-75.7%	3,372	3,527	-4.4%
S.AFRICAN RAND	958	1,660.9	-42.3%	2,970.86	-67.7%	1,978	2,076	-4.7%
SF/JY CROSS RATES	0	0	-	0	-	0	2	-96.4%
SHEKEL	0	3	-100.0%	0	-	0	21	-100.0%
SKR/USD CROSS RATES	106	167.48	-36.8%	274.29	-61.4%	151	198	-24.0%
SWISS FRANC	24,491	24,016.38	2.0%	32,778.14	-25.3%	24,561	29,150	-15.7%
TURKISH LIRA	17	22.05	-24.2%	155.33	-89.2%	50	228	-78.1%
USDZAR	0	0	-	0	-	0	0	299.8%

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FX Options								
AUD/USD PQO 2pm Fix	5,017	5,877.52	-14.6%	4,930.9	1.7%	4,849	6,822	-28.9%
BRITISH POUND (EU)	0	0.14	-100.0%	0	-	0	1	-100.0%
CAD/USD PQO 2pm Fix	5,644	7,955.1	-29.1%	5,490.62	2.8%	5,239	8,515	-38.5%
CANADIAN DOLLAR (EU)	0	0	-	0	-	0	1	-100.0%
CHF/USD PQO 2pm Fix	185	164.1	12.9%	164.95	12.4%	136	103	32.9%
EFX/BP CROSS RATES	0	0	-	0.9	-100.0%	1	0	-
EFX/JY CROSS RATES	0	0	-	0	-	0	35	-100.0%
EURO FX (EU)	0	0	-	0	-	0	0	-100.0%
EUR/USD PQO 2pm Fix	27,573	28,024.38	-1.6%	27,400.81	0.6%	26,486	39,737	-33.3%
GBP/USD PQO 2pm Fix	8,470	10,017.1	-15.4%	11,363.33	-25.5%	9,983	12,518	-20.2%
JAPANESE YEN (EU)	0	0	-	0	-	0	0	-
JPY/USD PQO 2pm Fix	11,306	12,300.38	-8.1%	9,928	13.9%	9,680	13,779	-29.7%
MEXICAN PESO	49	249.19	-80.5%	91.38	-46.9%	75	104	-28.0%
NEW ZEALND DOLLAR	9	0	-	3.05	192.2%	28	0	-

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Equity Index Futures								
BITCOIN FUTURES	9,907	3,745.24	164.5%	3,579.38	176.8%	5,787	2,338	147.5%
DJ US REAL ESTATE	1,395	912.38	52.9%	3,881.76	-64.1%	1,970	2,050	-3.9%
E-mini (\$5) Dow	159,687	260,924.05	-38.8%	234,663.33	-32.0%	205,294	276,031	-25.6%
E-mini FTSE 100 (USD)	0	63.52	-100.0%	0	-	4	93	-95.6%
E-mini FTSE China 50	0	55.67	-99.7%	2.48	-94.2%	8	69	-87.7%
E-MINI MIDCAP	10,798	15,841.1	-31.8%	24,137.86	-55.3%	16,060	20,375	-21.2%
E-MINI NASDAQ 100	388,433	477,653.62	-18.7%	514,256.95	-24.5%	457,448	480,182	-4.7%
E-MINI RUSSELL 1000	160	428.62	-62.7%	988.81	-83.8%	365	694	-47.4%
E-MINI RUSSELL 1000 GROWTH	113	901.62	-87.4%	676.71	-83.3%	248	598	-58.6%
E-MINI RUSSELL 1000 VALUE	476	376.29	26.5%	1,266.33	-62.4%	866	749	15.6%
E-MINI RUSSELL 2000	106,772	105,968.14	0.8%	196,137.76	-45.6%	137,414	138,395	-0.7%
E-MINI S&P500	1,137,815	1,699,729	-33.1%	1,838,805.19	-38.1%	1,487,603	1,893,217	-21.4%
E-MINI S&P REAL ESTATE SELECT S	276	417.62	-33.8%	831.95	-66.8%	454	402	12.8%
FT-SE 100	0	74.19	-100.0%	0	-	5	77	-94.1%
FTSE Emerging	118	1.19	9807.8%	91.71	28.6%	113	6	1711.1%
IBOVESPA INDEX	31	88.71	-65.3%	24.19	27.4%	36	67	-45.4%
NASDAQ BIOTECH	20	0	-	11.62	69.3%	9	38	-76.1%
NIFTY 50	0	0	-	0	-	0	664	-100.0%
NIKKEI 225 (\$) STOCK	7,107	11,568.76	-38.6%	13,918.43	-48.9%	9,988	20,259	-50.7%
NIKKEI 225 (YEN) STOCK	26,790	36,050.62	-25.7%	40,204.76	-33.4%	33,365	51,732	-35.5%
S&P 500	3,777	6,511.52	-42.0%	8,280.24	-54.4%	5,389	7,801	-30.9%
S&P 500/GI	0	0	-	0.95	-100.0%	0	0	-23.1%
S&P 500/VALUE	1,167	419.14	178.5%	884.43	32.0%	1,179	712	65.6%
S&P 600 SMALLCAP EMINI	0	0	-	0	-	0	0	-
S&P CONSUMER DSCRTNRY SECTC	187	907.67	-79.4%	582.67	-67.9%	491	960	-48.9%
S&P CONSUMER STAPLES SECTOR	366	869.62	-57.9%	1,896.19	-80.7%	1,002	1,293	-22.5%
S&P ENERGY SECTOR	450	1,319.38	-65.9%	2,043.48	-78.0%	1,022	1,236	-17.3%
S&P FINANCIAL SECTOR	1,317	2,867.67	-54.1%	2,995.48	-56.0%	1,570	2,441	-35.7%
S&P HEALTH CARE SECTOR	605	518.57	16.7%	1,568.1	-61.4%	981	732	34.0%
S&P INDUSTRIAL SECTOR	457	862.19	-47.0%	986.38	-53.7%	783	710	10.2%
S&P MATERIALS SECTOR	712	344.86	106.4%	934.38	-23.8%	602	540	11.5%
S&P TECHNOLOGY SECTOR	295	1,037	-71.6%	1,257.62	-76.5%	817	1,241	-34.2%
S&P UTILITIES SECTOR	1,130	1,368.05	-17.4%	2,370.19	-52.3%	1,560	1,762	-11.5%
YEN DENOMINATED TOPIX	895	2.48	36038.3%	1,024.67	-12.7%	624	13	4738.0%

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Equity Index Options								
E-mini (\$5) Dow	125	405.62	-69.3%	247.14	-49.6%	242	585	-58.5%
E-MINI NASDAQ 100	8,091	12,244.57	-33.9%	8,815.52	-8.2%	9,559	13,732	-30.4%
E-MINI RUSSELL 2000	449	244	83.9%	516.62	-13.1%	506	779	-35.0%
E-MINI S&P500	157,635	231,639.95	-31.9%	234,389.1	-32.7%	204,729	336,015	-39.1%
EOM E-MINI RUSSELL 2000 END OF	302	94.48	219.3%	674.76	-55.3%	325	345	-5.9%
EOM EMINI S&P	58,271	90,100.95	-35.3%	94,691.57	-38.5%	79,271	151,604	-47.7%
EOM S&P 500	5,833	4,125.71	41.4%	6,779.24	-14.0%	6,116	12,143	-49.6%
EOW1 E-MINI RUSSELL 2000 WEEKL	103	115.48	-10.8%	106.71	-3.5%	65	134	-51.1%
EOW1 E-MINI RUSSELL 2000 WEEKL	101	143.24	-29.5%	90.29	11.9%	65	173	-62.5%
EOW1 EMINI S&P 500	38,747	60,698.9	-36.2%	28,432	36.3%	38,148	60,505	-37.0%
EOW1 S&P 500	3,323	3,544.19	-6.2%	1,087.62	205.6%	3,176	3,364	-5.6%
EOW2 E-MINI RUSSELL 2000 WEEKL	155	219.48	-29.4%	203.95	-24.0%	125	283	-55.9%
EOW2 EMINI S&P 500	29,173	80,833.38	-63.9%	44,508.67	-34.5%	41,498	79,884	-48.1%
EOW2 S&P 500	4,852	6,542.33	-25.8%	5,156.43	-5.9%	6,517	7,843	-16.9%
EOW3 E-MINI RUSSELL 2000 WEEKL	719	1,076.86	-33.2%	531.81	35.2%	469	1,352	-65.4%
EOW3 EMINI S&P 500	100,594	221,052	-54.5%	94,442.24	6.5%	113,041	232,447	-51.4%
EOW3 S&P 500	6,386	16,053.71	-60.2%	2,588.33	146.7%	6,912	20,835	-66.8%
EOW4 E-MINI RUSSELL 2000 WEEKL	158	183.62	-14.0%	245.38	-35.6%	146	405	-64.0%
EOW4 EMINI S&P 500	32,027	58,502.19	-45.3%	51,785	-38.2%	45,031	71,793	-37.3%
S&P 500	8,186	9,248.71	-11.5%	13,361.19	-38.7%	11,359	16,941	-32.9%
Interest Rate Futures								
10-YR NOTE	1,298,185	1,307,186.67	-0.7%	1,643,019.76	-21.0%	1,648,071	1,777,837	-7.3%
10-YR SWAP RATE	1,291	1,119.67	15.3%	7,004.9	-81.6%	2,757	2,479	11.2%
15-YR SWAP RATE	0	0	-	0	-	67	0	-
1-MONTH EURODOLLAR	0	61.05	-99.6%	2.38	-90.0%	1	177	-99.2%
20-YR SWAP RATE	0	0	-	2.19	-100.0%	1	0	-
2-YR NOTE	445,596	354,345.52	25.8%	498,235	-10.6%	614,633	544,753	12.8%
2-YR SWAP RATE	1,441	0	-	2,384.33	-39.6%	1,941	0	-
30-YR BOND	227,805	262,723.29	-13.3%	321,840.29	-29.2%	321,821	355,115	-9.4%
30-YR SWAP RATE	48	3.62	1229.0%	38.76	24.1%	35	11	221.0%
3-YR SWAP RATE	354	0	-	888.33	-60.1%	473	0	-
4-YR SWAP RATE	915	0	-	380.9	140.3%	392	0	-
5-YR NOTE	762,802	771,810.43	-1.2%	982,754.95	-22.4%	1,088,443	1,096,021	-0.7%
5-YR SWAP RATE	2,058	642.76	220.1%	6,747.95	-69.5%	3,374	1,423	137.1%
7-YR SWAP RATE	76	0	-	359.43	-78.7%	179	0	-
EURODOLLARS	2,392,627	2,575,544.76	-7.1%	3,302,894.14	-27.6%	2,767,892	3,680,013	-24.8%
FED FUND	287,444	217,706.48	32.0%	301,252.48	-4.6%	277,690	266,347	4.3%
SOFR	22,658	0	-	38,532.86	-41.2%	27,611	0	-
SONIA	9,056	0	-	8,001.71	13.2%	7,939	0	-
Ultra 10-Year Note	155,003	124,359.19	24.6%	204,827	-24.3%	191,046	185,368	3.1%
ULTRA T-BOND	117,313	112,111.52	4.6%	146,085	-19.7%	172,132	169,718	1.4%

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Interest Rate Options								
10-YR NOTE	557,002	462,499.67	20.4%	709,044.14	-21.4%	613,319	652,708	-6.0%
2-YR NOTE	22,759	26,555.48	-14.3%	35,976.81	-36.7%	21,958	23,460	-6.4%
30-YR BOND	113,118	112,846	0.2%	160,616.29	-29.6%	126,387	135,284	-6.6%
5-YR NOTE	210,258	114,481.57	83.7%	225,306.14	-6.7%	201,195	168,376	19.5%
EURODOLLARS	821,394	632,792.91	29.8%	1,117,512.48	-26.5%	962,472	892,389	7.9%
EURO MIDCURVE	604,711	587,272.86	3.0%	688,396.29	-12.2%	682,310	899,146	-24.1%
FED FUND	0	7.14	-100.0%	12	-100.0%	6	119	-95.3%
Ultra 10-Year Note	82	0	-	453.05	-81.9%	138	0	40199.2%
ULTRA T-BOND	215	520.86	-58.6%	347.38	-38.0%	587	298	96.8%
Energy Futures								
3.5% FUEL OIL CID MED SWA	0	2.29	-89.6%	0.24	0.0%	0	5	-97.5%
3.5% FUEL OIL CIF BALMO S	0	4.29	-100.0%	0	-	0	1	-77.8%
AEP-DAYTON HUB DAILY	0	0	-	0	-	0	0	-
AEP-DAYTON HUB MTHLY	0	0	-	0	-	0	0	-
AEP-DAYTON HUB OFF-PEAK M	0	0	-	0	-	0	0	-
ALGONQUIN CITYGATES BASIS	0	0	-	0	-	0	0	-
ANR OKLAHOMA	0	0	-	0	-	0	0	-
ARGUS LLS VS. WTI (ARG) T	583	952.38	-38.7%	710.95	-17.9%	729	1,334	-45.4%
ARGUS PROPAN FAR EST INDE	321	374.43	-14.3%	317.1	1.2%	320	342	-6.4%
ARGUS PROPAN(SAUDI ARAMCO	167	170.24	-1.7%	134.38	24.6%	153	141	8.3%
AUSTRIALIAN COKE COAL	0	0	-	0	-	0	0	-
BRENT BALMO SWAP	17	0	-	10.62	63.7%	9	1	1325.9%
BRENT CALENDAR SWAP	102	216.57	-53.0%	80.14	27.0%	151	92	64.2%
BRENT CFD SWAP	0	0	-	0	-	0	4	-100.0%
BRENT FINANCIAL FUTURES	167	6.86	2330.6%	2.86	5733.4%	86	130	-33.7%
BRENT OIL LAST DAY	114,065	93,734.48	21.7%	89,409.05	27.6%	90,874	83,594	8.7%
CANADIAN LIGHT SWEET OIL	0	0	-	0	-	0	0	-
CENTERPOINT BASIS SWAP	0	0	-	0	-	0	0	-100.0%
CHICAGO ETHANOL SWAP	5,245	5,046.05	3.9%	6,252.33	-16.1%	5,303	5,329	-0.5%
CHICAGO ULSD PL VS HO SPR	12	3.71	220.5%	7.14	66.7%	25	14	80.6%
CHICAGO UNL GAS PL VS RBO	8	0	-	0	-	8	6	28.6%
CIG BASIS	0	2.67	-100.0%	0	-	0	2	-100.0%
CINERGY HUB OFF-PEAK MONT	0	0	-	0	-	0	0	-
CINERGY HUB PEAK MONTH	0	0	-	0	-	0	0	-
CIN HUB 5MW D AH O PK	0	0	-	0	-	0	0	-
CIN HUB 5MW D AH PK	0	52.38	-100.0%	12.38	-100.0%	27	56	-51.9%
CIN HUB 5MW REAL TIME O P	0	0	-	186.67	-100.0%	48	0	-
CIN HUB 5MW REAL TIME PK	0	0	-	0	-	4	0	-
COAL SWAP	0	1.67	-100.0%	0	-	0	2	-100.0%
COLUMB GULF MAINLINE NG B	17	0	-	0	-	4	0	-
CONWAY NATURAL GASOLINE (OPI	7	2.29	191.7%	4.05	64.7%	12	7	79.6%
CONWAY NORMAL BUTANE (OPIS) S	15	7.14	106.7%	15.38	-4.0%	10	4	142.1%
CONWAY PROPANE 5 DECIMALS S	687	759.19	-9.5%	531.95	29.1%	693	763	-9.2%
CRUDE OIL	205	215.71	-4.8%	457.9	-55.1%	354	290	22.0%
CRUDE OIL OUTRIGHTS	3,552	2,564.38	38.5%	3,496	1.6%	3,307	3,058	8.1%

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	ADV APR 2019	ADV APR 2018	% CHG	ADV MAR 2019	% CHG	ADV Y.T.D 2019	ADV Y.T.D 2018	% CHG
Energy Futures								
CRUDE OIL PHY	1,316,723	1,332,243.48	-1.2%	1,135,581.1	16.0%	1,222,054	1,320,343	-7.4%
CRUDE OIL SPRDS	1,292	2,038.29	-36.6%	632.81	104.2%	1,023	2,714	-62.3%
CRUDE OIL TRADE AT MARKER SIN	0	0	-	0	-	0	0	-
DAILY PJM	0	0	-	0	-	0	0	-
DATED TO FRONTLINE BRENT	14	28.57	-50.0%	0	-	11	32	-66.2%
DIESEL 10P BRG FOB RDM VS	0	0	-	0	-	0	0	-100.0%
DOMINION TRAN INC - APP I	0	0	-	0	-	0	0	-
DOMINION TRANSMISSION INC	0	0	-	0	-	0	0	-
DUBAI CRUDE OIL BALMO	0	0	-	0	-	0	2	-100.0%
DUBAI CRUDE OIL CALENDAR	22	56.38	-60.3%	41.57	-46.2%	192	109	76.3%
DUTCH TTF NATURAL GAS CAL MO	185	48.33	283.1%	548.19	-66.2%	381	42	812.7%
EASTERN RAIL DELIVERY CSX	0	1.43	-100.0%	0	-	0	2	-100.0%
EAST/WEST FUEL OIL SPREAD	0	0.95	-100.0%	0	-	0	2	-100.0%
EIA FLAT TAX ONHWAY DIESE	2	10.76	-82.7%	1.9	-2.5%	13	8	60.2%
ELEC ERCOT DLY OFF PK	0	0	-	0	-	0	0	-
ELEC ERCOT DLY PEAK	0	0	-	0	-	0	0	-
ELEC ERCOT OFF PEAK	0	933.33	-100.0%	0	-	0	239	-100.0%
ELEC FINSETTLED	0	0	-	0	-	0	0	-
ELEC MISO PEAK	0	0	-	0	-	0	0	-
ELEC NYISO OFF-PEAK	0	0	-	0	-	0	0	-
ELECTRICITY OFF PEAK	0	0	-	0	-	0	0	-
ERCOT HOUSTON Z MCPE 5MW PEA	0	0	-	0	-	0	18	-100.0%
ERCOT NORTH ZMCPE 5MW OFFPE	0	0	-	0	-	0	0	-
ERCOT NORTH ZMCPE 5MW OFFPE	0	933.33	-100.0%	0	-	0	239	-100.0%
ERCOT NORTH ZMCPE 5MW PEAK	0	0	-	0	-	0	56	-100.0%
ETHANOL	395	439.9	-10.2%	506.05	-21.9%	486	459	5.8%
ETHANOL SWAP	7	0.95	675.0%	3.33	121.4%	4	0	1116.5%
ETHANOL T2 FOB ROTT INCL DUTY	149	162.1	-8.1%	241.19	-38.2%	202	153	32.2%
EURO 1% FUEL OIL NEW BALM	0	0	-	0	-	0	0	-100.0%
EURO 3.5% FUEL OIL RDAM B	1	34.48	-96.1%	5	-73.3%	2	30	-92.9%
EURO 3.5% FUEL OIL SPREAD	2	9.1	-79.1%	2.14	-11.1%	1	6	-82.4%
EURO-DENOMINATED PETRO PROD	0	0	-	0	-	0	0	-
EURO GASOIL 10PPM VS ICE	0	0	-	0	-	0	4	-100.0%
EUROPE 1% FUEL OIL NWE CA	0	2.14	-80.0%	0	-	1	4	-66.0%
EUROPE 1% FUEL OIL RDAM C	0	0	-	0	-	0	0	-
EUROPE 3.5% FUEL OIL MED	1	5.29	-88.3%	3.71	-83.3%	3	7	-53.1%
EUROPE 3.5% FUEL OIL RDAM	57	562.05	-89.9%	87.48	-34.8%	67	399	-83.1%
EUROPEAN GASOIL (ICE)	0	34.67	-100.0%	10.48	-100.0%	5	20	-74.2%
EUROPEAN NAPHTHA BALMO	6	9.67	-36.9%	13.71	-55.6%	11	13	-19.5%
EUROPEAN NAPHTHA CRACK SPR	229	401.05	-42.9%	304.67	-24.9%	267	455	-41.3%
EUROPE DATED BRENT SWAP	2	0	-	8.38	-71.6%	10	0	-
EUROPE JET KERO NWE CALSW	0	0	-	0	-	0	0	-66.6%
EUROPE NAPHTHA CALSWAP	121	113.9	6.5%	144.05	-15.8%	120	167	-28.1%
EURO PROPANE CIF ARA SWA	105	78.52	33.8%	137.95	-23.8%	104	102	1.7%
FREIGHT MARKETS	22	27.81	-19.5%	29.48	-24.1%	40	24	68.4%
FUEL OIL CRACK VS ICE	93	187.24	-50.4%	87.19	6.5%	72	226	-68.2%
FUEL OIL NWE CRACK VS ICE	0	0.71	-100.0%	0	-	0	2	-91.2%
FUEL OIL (PLATS) CAR CM	0	0	-	0	-	0	2	-100.0%
FUEL OIL (PLATS) CAR CN	0	1.29	-100.0%	0	-	0	1	-100.0%

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Energy Futures								
FUELOIL SWAP:CARGOES VS.B	4	11.95	-66.1%	8.14	-50.3%	10	15	-33.6%
GAS EURO-BOB OXY NWE BARGES	334	277.1	20.6%	445	-24.9%	375	357	5.1%
GAS EURO-BOB OXY NWE BARGES	505	1,102.43	-54.2%	613.62	-17.7%	508	1,136	-55.2%
GASOIL 0.1CIF MED VS ICE	0	0	-	0	-	0	0	-100.0%
GASOIL 0.1 CIF NWE VS ISE	0	0	-	0	-	0	0	-
GASOIL 0.1 RDAM BRGS VS I	0	0	-	0	-	0	0	199.8%
GASOIL 0.1 ROTTERDAM BARG	2	15.24	-84.7%	0.57	308.3%	1	4	-80.0%
GASOIL 10PPM VS ICE SWAP	0	0	-	0.71	-100.0%	0	0	100.1%
GASOIL CALENDAR SWAP	0	0	-	0	-	1	0	350.1%
GASOIL CRACK SPREAD CALEN	0	71.19	-100.0%	7.14	-100.0%	6	293	-98.1%
GASOIL MINI CALENDAR SWAP	12	5.24	125.5%	6.57	79.7%	10	7	56.7%
GERMAN POWER BASELOAD CAL M	119	9.71	1126.5%	235.43	-49.4%	103	25	306.5%
GROUP THREE ULSD (PLATTS)	0	0	-	0	-	0	1	-100.0%
GROUP THREE UNLEAD GAS (P	0	0	-	0	-	0	0	-
GRP THREE ULSD(PLT)VS HEA	82	189.24	-56.8%	122.62	-33.4%	126	199	-36.4%
GRP THREE UNL GS (PLT) VS	181	140.48	29.1%	232.62	-22.0%	176	109	61.5%
GULF COAST 3% FUEL OIL BA	33	45.1	-27.7%	52.33	-37.7%	41	67	-39.0%
GULF COAST JET FUEL CLNDR	0	16	-100.0%	2.43	-100.0%	3	8	-57.8%
GULF COAST JET VS NYM 2 H	950	1,514.95	-37.3%	965.24	-1.6%	924	2,294	-59.7%
GULF COAST NO.6 FUEL OIL	1,163	3,043.1	-61.8%	1,096.14	6.1%	1,285	3,043	-57.8%
GULF COAST ULSD CALENDAR	8	9.52	-18.0%	8.71	-10.4%	16	9	69.4%
GULF COAST ULSD CRACK SPR	0	4.76	-100.0%	0	-	0	16	-100.0%
HEATING OIL BALMO CLNDR S	2	0	-	0	-	1	1	-19.6%
HEATING OIL PHY	142,808	193,634.86	-26.2%	161,060.57	-11.3%	156,739	196,963	-20.4%
HENRY HUB BASIS SWAP	218	59.05	270.0%	0	-	56	76	-25.9%
HENRY HUB FINANCIAL LAST	0	59.43	-100.0%	0	-	0	72	-100.0%
HENRY HUB INDEX SWAP FUTU	218	59.05	270.0%	0	-	56	76	-25.9%
HENRY HUB SWAP	5,568	6,240.62	-10.8%	2,855.57	95.0%	6,052	7,883	-23.2%
HOUSTON SHIP CHANNEL BASI	35	0	-	0	-	9	0	-
HTG OIL	2	2.29	0.0%	0	-	1	1	0.0%
ICE BRENT DUBAI SWAP	206	630.62	-67.3%	48.33	326.1%	237	525	-54.8%
IN DELIVERY MONTH EUA	0	0	-	0	-	0	0	-
INDIANA MISO	0	0	-	0	-	0	0	-
INDONESIAN COAL ICI4	8	5.48	49.6%	50.14	-83.7%	20	3	583.0%
ISO NEW ENGLAND OFF-PEAK	0	0	-	0	-	0	0	-
ISO NEW ENGLAND PK LMP	0	0	-	0	-	0	0	-
JAPAN C&F NAPHTHA CRACK S	8	43.71	-81.6%	0	-	2	20	-89.5%
JAPAN C&F NAPHTHA SWAP	77	94.48	-18.3%	80.14	-3.7%	73	97	-24.6%
JAPAN NAPHTHA BALMO SWAP	0	1.76	-86.5%	4.38	-94.6%	3	2	97.1%
JET AV FUEL (P) CAR FM ICE GAS S	0	0	-	0	-	0	0	-100.0%
JET CIF NWE VS ICE	0	3.52	-100.0%	0	-	1	6	-85.2%
JET FUEL UP-DOWN BALMO CL	230	212.38	8.3%	130.48	76.3%	177	369	-52.1%
JKM LNG Futures	38	95.24	-60.4%	187.1	-79.8%	74	42	77.0%
LA CARB DIESEL (OPIS) SWA	0	15.48	-100.0%	5.95	-100.0%	3	12	-71.5%
LA CARBOB GASOLINE(OPIS)S	5	69.05	-93.1%	17.86	-73.3%	20	40	-48.9%
LA JET (OPIS) SWAP	82	125.48	-34.7%	48.81	67.8%	67	116	-42.4%
LLS (ARGUS) CALENDAR SWAP	0	0	-	0	-	0	0	-
LLS (ARGUS) VS WTI SWAP	223	289.76	-23.1%	186.19	19.7%	169	234	-27.8%
LOS ANGELES CARB GASOLINE	0	0	-	0	-	0	0	-

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Energy Futures								
LTD NAT GAS	13,835	12,562.19	10.1%	13,180.24	5.0%	15,899	18,258	-12.9%
MARS (ARGUS) VS WTI SWAP	27	168.1	-84.1%	174.05	-84.7%	97	177	-45.2%
MARS (ARGUS) VS WTI TRD M	1,038	934.76	11.0%	534.05	94.3%	1,050	1,398	-24.9%
MARS BLEND CRUDE OIL	0	16.67	-100.0%	0	-	0	19	-100.0%
MCCLOSKEY ARA ARGV COAL	1,240	1,087.95	14.0%	1,622.05	-23.5%	1,356	1,302	4.2%
MCCLOSKEY RCH BAY COAL	111	113.05	-2.0%	118	-6.1%	131	171	-23.2%
MGF FUT	0	2.38	-100.0%	0	-	0	2	-100.0%
MGN1 SWAP FUT	0	1.43	-100.0%	2.38	-100.0%	2	5	-55.6%
MICHIGAN BASIS	0	0	-	0	-	0	0	-
MICHIGAN MISO	0	0	-	0	-	0	0	-
MINI GAS EUROBOB OXY NWE ARG	3	23.9	-86.7%	2.1	52.3%	9	17	-49.4%
MINI RBOB V. EBOBARG NWE BRGS	56	41.05	36.2%	10.95	410.4%	34	13	163.1%
MINI RBOB V. EBOB(ARGUS) NWE B	129	96.24	33.7%	93.1	38.3%	102	76	35.0%
MINY HTG OIL	0	0.14	33.3%	0.19	0.0%	0	0	7.7%
MINY NATURAL GAS	989	849.95	16.3%	963.81	2.6%	1,294	1,622	-20.2%
MINY RBOB GAS	0	0.14	0.0%	0.43	-66.7%	0	0	100.1%
MINY WTI CRUDE OIL	14,264	16,853.43	-15.4%	17,476.48	-18.4%	18,965	14,479	31.0%
MJC FUT	0	9.05	-100.0%	1.43	-100.0%	1	12	-88.7%
MNC FUT	196	163.86	19.4%	256	-23.6%	212	177	19.8%
MONT BELVIEU ETHANE 5 DECIMAL	713	552.05	29.1%	601.9	18.4%	680	749	-9.1%
MONT BELVIEU ETHANE OPIS BALM	7	4.29	65.6%	2.38	198.0%	9	8	13.6%
MONT BELVIEU LDH PROPANE 5 DE	8,226	6,585.43	24.9%	6,541.67	25.7%	6,835	6,552	4.3%
MONT BELVIEU LDH PROPANE OPIS	54	108.33	-50.5%	121.57	-55.9%	157	171	-8.1%
MONT BELVIEU NATURAL GASOLIN	392	435	-9.9%	365	7.3%	398	472	-15.6%
MONT BELVIEU NATURAL GASOLIN	15	10.86	36.0%	34.05	-56.6%	31	22	42.1%
MONT BELVIEU NORMAL BUTANE 5	2,123	2,001.57	6.1%	1,737.86	22.2%	1,827	1,433	27.4%
MONT BELVIEU NORMAL BUTANE B	59	37.14	59.9%	68.1	-12.8%	71	47	51.4%
NAT GAS BASIS SWAP	0	0	-	0	-	0	0	-
NATURAL GAS	5,053	4,615.81	9.5%	3,884.43	30.1%	5,397	7,206	-25.1%
NATURAL GAS PEN SWP	1,477	1,467.29	0.7%	991.14	49.1%	1,352	1,972	-31.4%
NATURAL GAS PHY	330,667	400,438.24	-17.4%	289,273	14.3%	359,973	467,554	-23.0%
NEPOOL CNCTCT 5MW D AH O	0	0	-	0	-	0	0	-
NEPOOL CONECTIC 5MW D AH	0	0	-	0	-	0	0	-
NEPOOL INTR HUB 5MW D AH	0	0	-	0	-	202	797	-74.7%
NEPOOL NE MASS 5MW D AH O	0	0	-	0	-	0	0	-
NEPOOL NE MASS 5MW D AH P	0	0	-	0	-	0	0	-
NEPOOL RHD ISLD 5MW D AH	0	0	-	0	-	0	0	-
NEPOOL RHODE IL 5MW D AH	0	0	-	0	-	0	0	-
NEPOOL W CNT MASS 5MW D A	0	0	-	0	-	0	0	-
NEPOOL W CNTR M 5MW D AH	0	0	-	0	-	0	0	-
NEW ENGLAND HUB PEAK DAIL	0	0	-	0	-	0	0	-
NEW YORK ETHANOL SWAP	15	72.14	-79.9%	54.38	-73.3%	32	91	-65.3%
NEW YORK HUB ZONE G PEAK	0	0	-	0	-	0	0	-
NEW YORK HUB ZONE J PEAK	0	0	-	0	-	0	0	-
NGPL MID-CONTINENT	0	0	-	0	-	15	5	210.0%
NGPL TEX/OK	123	720	-83.0%	0	-	31	278	-88.7%
N ILLINOIS HUB DAILY	0	0	-	0	-	0	0	-
N ILLINOIS HUB MTHLY	0	0	-	0	-	0	0	-
NO 2 UP-DOWN SPREAD CALEN	0	14.29	-100.0%	10.71	-100.0%	7	19	-62.5%

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Energy Futures								
NORTHERN NATURAL GAS DEMAR	0	0	-	0	-	0	0	-
NORTHERN NATURAL GAS VENTU	0	0	-	0	-	0	1	-100.0%
NORTHWEST ROCKIES BASIS S	0	0	-	0	-	38	0	-
N ROCKIES PIPE SWAP	0	0	-	0	-	0	0	-
NY1% VS GC SPREAD SWAP	7	40.05	-82.2%	17.14	-58.3%	22	87	-75.1%
NY 3.0% FUEL OIL (PLATTS	4	9.52	-62.5%	9.52	-62.5%	6	12	-46.2%
NY HARBOR 1% FUEL OIL BAL	0	0	-	0	-	0	0	-
NY HARBOR HEAT OIL SWP	23	72.43	-67.8%	45.43	-48.6%	75	73	3.9%
NY HARBOR LOW SULPUR GAS 100C	4	4.76	-25.0%	0	-	5	30	-84.2%
NY HARBOR RESIDUAL FUEL 1	52	29.48	75.0%	46.52	10.8%	48	55	-12.7%
NY HARBOR RESIDUAL FUEL C	0	0	-	0	-	0	0	-
NYH NO 2 CRACK SPREAD CAL	23	90.71	-74.8%	12.62	81.1%	16	63	-74.0%
NYISO CAPACITY	0	6.48	-100.0%	0	-	4	7	-46.2%
NYISO J	0	0	-	0	-	0	0	-
NYISO J OFF-PEAK	0	0	-	0	-	0	0	-
NYISO ZONE A 5MW D AH O P	0	0	-	0	-	0	0	-
NYISO ZONE A 5MW D AH PK	0	0	-	0	-	0	0	-
NYISO ZONE G 5MW D AH O P	389	2,194.29	-82.3%	0	-	167	4,785	-96.5%
NYISO ZONE G 5MW D AH PK	0	100.71	-100.0%	0	-	0	67	-100.0%
NYISO ZONE J 5MW D AH O P	0	0	-	0	-	0	0	-
NYISO ZONE J 5MW D AH PK	0	0	-	0	-	0	0	-
NYMEX ALUMINUM FUTURES	0	0	-	0	-	0	0	-
NYMEX ULSD VS NYMEX HO	0	0	-	33.33	-100.0%	18	0	-
NY ULSD (ARGUS) VS HEATING OIL	36	0	-	1.29	2677.8%	14	0	-
ONEOK OKLAHOMA NG BASIS	0	0	-	0	-	0	0	-
ONTARIO POWER SWAPS	0	0	-	0	-	0	0	-100.0%
PANHANDLE BASIS SWAP FUTU	0	0	-	0	-	0	3	-100.0%
PANHANDLE PIPE SWAP	0	0	-	0	-	0	0	-
PERMIAN BASIS SWAP	0	0	-	0	-	0	0	-
PETROCHEMICALS	161	292.33	-44.8%	118.81	35.9%	161	259	-37.8%
PETRO CRCKS & SPRDS ASIA	5	4.76	2.0%	1.33	264.3%	2	6	-74.5%
PETRO CRCKS & SPRDS NA	2,274	2,422.76	-6.1%	2,152.52	5.6%	2,126	2,081	2.1%
PETRO CRK&SPRD EURO	194	474.38	-59.0%	212.33	-8.5%	210	466	-54.9%
PETROLEUM PRODUCTS	163	180.62	-10.0%	95.24	70.7%	165	278	-40.9%
PETROLEUM PRODUCTS ASIA	66	129.86	-49.0%	84.57	-21.6%	81	120	-32.9%
PETRO OUTRIGHT EURO	179	295.1	-39.2%	192.9	-7.0%	190	267	-28.7%
PETRO OUTRIGHT NA	275	294.67	-6.5%	317	-13.1%	291	356	-18.3%
PJM AD HUB 5MW REAL TIME	0	0	-	0	-	871	433	100.9%
PJM ATSI ELEC	0	0	-	0	-	0	0	-
PJM BGE DA OFF-PEAK	0	0	-	0	-	0	0	-
PJM BGE DA PEAK	0	0	-	0	-	0	0	-
PJM COMED 5MW D AH O PK	0	0	-	0	-	0	0	-
PJM COMED 5MW D AH PK	0	0	-	0	-	0	0	-
PJM DAILY	0	0	-	0	-	0	0	-
PJM DAYTON DA OFF-PEAK	0	0	-	0	-	0	0	-
PJM DAYTON DA PEAK	0	0	-	0	-	0	0	-
PJM MONTHLY	0	0	-	0	-	0	0	-
PJM NI HUB 5MW REAL TIME	0	0	-	0	-	0	62	-100.0%
PJM NILL DA OFF-PEAK	0	0	-	0	-	0	0	-

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	ADV APR 2019	ADV APR 2018	% CHG	ADV MAR 2019	% CHG	ADV Y.T.D 2019	ADV Y.T.D 2018	% CHG
Energy Futures								
PJM NILL DA PEAK	0	1.05	-100.0%	0	-	0	0	-100.0%
PJM OFF-PEAK LMP SWAP FUT	0	0	-	0	-	0	0	-
PJM PECO ZONE5MW PEAK CAL MO	0	0	-	0	-	0	0	-
PJM PSEG DA OFF-PEAK	0	0	-	0	-	0	0	-
PJM PSEG DA PEAK	0	0	-	0	-	0	0	-
PJM WESTH DA OFF-PEAK	0	1,505.24	-100.0%	0	-	0	956	-100.0%
PJM WESTHDA PEAK	0	80.95	-100.0%	0	-	0	52	-100.0%
PJM WESTH RT OFF-PEAK	0	4,899.05	-100.0%	0	-	285	2,111	-86.5%
PJM WESTH RT PEAK	205	469.52	-56.4%	485.71	-57.9%	244	420	-42.0%
PLASTICS	22	11.43	91.7%	23.33	-6.1%	41	19	121.1%
PREMIUM UNLD 10P FOB MED	6	0.71	686.6%	1.62	247.1%	8	16	-50.2%
PREMIUM UNLEAD 10PPM FOB	0	0	-	0	-	0	2	-89.1%
PREM UNL GAS 10PPM RDAM FOB B	0	0	-	0	-	0	1	-75.0%
PREM UNL GAS 10PPM RDAM FOB S	0	0	-	0	-	0	0	199.9%
PROPANE NON-LDH MB (OPIS) BAL	54	23.19	130.8%	64.71	-17.3%	100	27	263.1%
PROPANE NON-LDH MT. BEL (OPIS)	857	608.33	40.9%	955.62	-10.3%	884	521	69.9%
RBOB CALENDAR SWAP	428	263.95	62.3%	215.76	98.5%	299	213	40.2%
RBOB CRACK SPREAD	96	90.29	6.3%	56.9	68.6%	55	54	1.7%
RBOB GAS	3	101.33	-97.2%	0	-	1	163	-99.5%
RBOB GASOLINE BALMO CLNDR	76	179	-57.5%	24.33	212.7%	52	64	-18.3%
RBOB PHY	249,708	193,683.67	28.9%	240,440.52	3.9%	218,066	197,144	10.6%
RBOB SPREAD (PLATTS) SWAP	0	0	-	0	-	0	0	-
RBOB VS HEATING OIL SWAP	0	28.57	-100.0%	0	-	1	14	-93.5%
SAN JUAN BASIS SWAP	0	0	-	0	-	0	0	-100.0%
SAN JUAN PIPE SWAP	0	17.14	-100.0%	0	-	0	4	-100.0%
SINGAPORE 180CST BALMO	1	2.95	-58.1%	0.81	52.9%	1	2	-65.4%
SINGAPORE 380CST BALMO	4	5.71	-30.8%	4.29	-7.8%	2	5	-51.6%
SINGAPORE 380CST FUEL OIL	123	448.48	-72.6%	135.81	-9.5%	151	336	-55.2%
SINGAPORE FUEL 180CST CAL	23	63.05	-63.3%	17.52	32.1%	16	41	-60.7%
SINGAPORE FUEL OIL SPREAD	1	72.62	-99.0%	2.62	-72.7%	3	50	-94.1%
SINGAPORE GASOIL	231	251.67	-8.3%	274.48	-15.9%	266	304	-12.3%
SINGAPORE GASOIL CALENDAR	1	7.62	-88.1%	15.24	-94.1%	8	58	-85.5%
SINGAPORE GASOIL SWAP	66	268.57	-75.5%	32.76	101.2%	60	258	-76.8%
SINGAPORE GASOIL VS ICE	0	444.05	-100.0%	146.43	-100.0%	53	903	-94.1%
SINGAPORE JET KERO BALMO	0	0	-	0	-	0	2	-100.0%
SINGAPORE JET KERO GASOIL	0	55.95	-100.0%	0	-	1	235	-99.5%
SINGAPORE JET KEROSENE SW	45	57.62	-22.3%	24.52	82.5%	32	59	-46.6%
SINGAPORE JET KERO VS. GASOIL	0	0	-	0	-	0	0	-100.0%
SINGAPORE MOGAS 92 UNLEADED	21	14.29	50.0%	21.43	0.0%	17	20	-17.3%
SINGAPORE MOGAS 92 UNLEADED	663	526.62	25.9%	873.52	-24.1%	810	777	4.2%
SINGAPORE NAPHTHA SWAP	0	0	-	0	-	0	2	-100.0%
SING FUEL	0	2.62	-100.0%	0	-	0	1	-100.0%
SOUTH STAR TEX OKLHM KNS	0	0	-	0	-	0	0	-
Sumas Basis Swap	0	0	-	0	-	0	1	-100.0%
TC2 ROTTERDAM TO USAC 37K	12	1.43	733.3%	17.62	-32.4%	12	7	78.8%
TC5 RAS TANURA TO YOKOHAM	13	0.95	1300.0%	23.1	-42.3%	19	3	533.3%
TCO BASIS SWAP	0	0	-	0	-	0	0	-
TD3 MEG TO JAPAN 250K MT	144	7.62	1784.4%	178.86	-19.7%	183	24	662.6%
TENNESSEE ZONE 0 BASIS SW	0	0	-	0	-	0	0	-

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Energy Futures								
Tetco STX Basis	0	0	-	0	-	0	0	-
TEXAS EASTERN ZONE M-3 BA	0	0	-	0	-	0	0	-
TEXAS GAS ZONE1 NG BASIS	0	0	-	0	-	0	0	-
Transco Zone 3 Basis	0	0	-	0	-	0	0	-
TRANSCO ZONE4 BASIS SWAP	0	0	-	0	-	0	0	-
TRANSCO ZONE 6 BASIS SWAP	0	0	-	0	-	0	0	-
UCM FUT	0	0	-	0	-	0	1	-60.0%
UK NBP NAT GAS CAL MTH FUT	17	248.33	-93.2%	42.57	-60.3%	38	182	-79.0%
ULSD 10PPM CIF MED VS ICE	0	0	-	0	-	0	0	-100.0%
ULSD UP-DOWN BALMO SWP	162	263.1	-38.5%	292.62	-44.7%	286	241	18.7%
UP DOWN GC ULSD VS NMX HO	967	1,269.33	-23.8%	1,110.14	-12.9%	1,262	1,693	-25.5%
WAHA BASIS	4	39.95	-91.1%	14.29	-75.0%	6	36	-82.9%
WESTERN RAIL DELIVERY PRB	0	0	-	0	-	0	0	-100.0%
WTI-BRENT BULLET SWAP	13	300	-95.8%	0	-	11	77	-86.3%
WTI-BRENT CALENDAR SWAP	2,921	1,707.86	71.0%	1,457.62	100.4%	1,710	1,856	-7.9%
WTI CALENDAR	3,281	2,052.95	59.8%	2,541.14	29.1%	2,341	1,873	25.0%
WTS (ARGUS) VS WTI SWAP	88	174.71	-49.7%	137.14	-35.9%	159	437	-63.6%
WTS (ARGUS) VS WTI TRD MT	46	50	-8.0%	50.1	-8.2%	49	16	212.7%

Energy Options

BRENT 1 MONTH CAL	0	0	-	0	-	0	37	-100.0%
BRENT CALENDAR SWAP	11	0	-	0	-	3	14	-78.9%
BRENT CRUDE OIL 12 M CSO	0	0	-	0	-	0	24	-100.0%
BRENT CRUDE OIL 1 M CSO	429	6,311.62	-93.2%	147.62	190.3%	367	3,107	-88.2%
BRENT CRUDE OIL 6 M CSO	0	47.62	-100.0%	0	-	0	12	-100.0%
BRENT OIL LAST DAY	7,316	8,701.81	-15.9%	5,819	25.7%	6,662	6,610	0.8%
COAL API2 INDEX	2	29.76	-94.4%	16.67	-90.0%	7	49	-85.2%
COAL API4 INDEX	0	0	-	0	-	0	1	-100.0%
COAL SWAP	0	0	-	0	-	0	0	-
CRUDE OIL	0	0	-	7.14	-100.0%	2	0	-
CRUDE OIL 1MO	15,150	11,917.86	27.1%	9,871.62	53.5%	12,274	9,162	34.0%
CRUDE OIL APO	3,866	2,711.76	42.6%	4,466.86	-13.5%	2,849	2,792	2.0%
CRUDE OIL CALNDR STRIP	0	8.1	-100.0%	9.52	-100.0%	2	2	17.6%
CRUDE OIL OUTRIGHTS	0	0	-	0	-	12	0	-
CRUDE OIL PHY	137,936	181,189.29	-23.9%	100,770.62	36.9%	117,967	185,375	-36.4%
ETHANOL	0	8.33	-100.0%	0	-	0	3	-100.0%
ETHANOL SWAP	522	379.05	37.7%	414.9	25.8%	390	409	-4.7%
HEATING OIL PHY	968	1,216.38	-20.4%	1,005.48	-3.7%	1,222	1,640	-25.5%
HENRY HUB FINANCIAL LAST	568	66	760.8%	226.52	150.8%	365	176	107.4%
HO 1 MONTH CLNDR OPTIONS	55	0	-	0	-	26	0	-
LLS CRUDE OIL	0	0	-	0	-	0	1	-100.0%
MCCLOSKEY ARA ARGS COAL	0	0	-	0	-	2	1	44.4%
MCCLOSKEY RCH BAY COAL	2	9.52	-75.0%	0	-	3	21	-84.3%
NATURAL GAS 1 M CSO FIN	571	7.14	7900.0%	373.81	52.9%	2,128	2,594	-18.0%
NATURAL GAS 2 M CSO FIN	60	0	-	23.81	150.0%	21	0	-
NATURAL GAS 3 M CSO FIN	1,214	372.14	226.3%	216.67	460.4%	373	174	114.0%
NATURAL GAS 5 M CSO FIN	0	52.38	-100.0%	0	-	0	31	-100.0%

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Energy Options								
NATURAL GAS 6 M CSO FIN	538	47.62	1030.0%	19.05	2725.0%	346	776	-55.4%
NATURAL GAS OPTION ON CALEND	19	218.29	-91.3%	133.33	-85.7%	94	224	-58.2%
NATURAL GAS PHY	64,470	66,982.24	-3.8%	46,985.33	37.2%	75,715	111,868	-32.3%
NATURAL GAS WINTER STRIP	0	0	-	0	-	0	0	-
N ROCKIES PIPE SWAP	49	0	-	0	-	13	0	-
NY HARBOR HEAT OIL SWP	19	88.38	-78.7%	68.19	-72.3%	59	143	-58.5%
NYISO ZONE G 5MW PEAK OPTIONS	0	0	-	0	-	0	0	-
PANHANDLE PIPE SWAP	0	0	-	0	-	0	0	-
PETROCHEMICALS	26	23.81	7.4%	1.52	1578.1%	24	42	-42.5%
PETRO OUTRIGHT EURO	0	0	-	0	-	0	0	-
PETRO OUTRIGHT NA	0	0	-	0	-	0	0	-
PJM WES HUB PEAK CAL MTH	2	8.1	-76.5%	4.76	-60.0%	2	14	-85.8%
PJM WES HUB PEAK LMP 50MW	0	61.05	-100.0%	18.86	-100.0%	10	52	-80.4%
RBOB 1MO CAL SPD OPTIONS	0	0	-	0	-	2	6	-70.0%
RBOB CALENDAR SWAP	0	21.9	-100.0%	2.71	-100.0%	3	11	-74.0%
RBOB CRACK	0	0	-	0	-	0	0	-
RBOB PHY	1,585	397.62	298.6%	495.76	219.7%	824	568	45.1%
ROTTERDAM 3.5%FUEL OIL CL	0	0	-	0	-	0	0	-
SAN JUAN PIPE SWAP	0	42.86	-100.0%	0	-	0	11	-100.0%
SHORT TERM	1	46.43	-97.3%	0	-	22	47	-52.6%
SHORT TERM NATURAL GAS	1	84.9	-98.6%	20.24	-94.1%	49	94	-47.6%
SINGAPORE GASOIL CALENDAR	0	0	-	0	-	0	0	-
SINGAPORE JET FUEL CALEND	0	0	-	0	-	0	0	-
WTI-BRENT BULLET SWAP	2,204	6,702.86	-67.1%	1,128.57	95.3%	2,827	6,421	-56.0%
WTI CRUDE OIL 1 M CSO FI	5,283	5,595.24	-5.6%	2,754.76	91.8%	3,187	3,915	-18.6%

Metals Futures

ALUMINUM	507	838.62	-39.5%	480.24	5.6%	549	910	-39.7%
COMEX COPPER	106,833	147,188.43	-27.4%	83,244.86	28.3%	103,038	138,577	-25.6%
COMEX E-Mini GOLD	439	332.76	31.9%	390.81	12.3%	351	348	0.7%
COMEX E-Mini SILVER	189	57.19	230.6%	147.71	28.0%	130	60	115.4%
COMEX GOLD	242,683	316,907.67	-23.4%	319,596.48	-24.1%	269,076	365,019	-26.3%
COMEX MINY COPPER	37	25.29	46.7%	25.43	45.9%	30	29	2.2%
COMEX SILVER	91,443	125,036	-26.9%	67,548.86	35.4%	81,081	107,444	-24.5%
COPPER	57	32.9	73.1%	20.14	182.7%	44	123	-63.8%
E-MICRO GOLD	8,804	6,352.62	38.6%	11,643.62	-24.4%	9,800	6,331	54.8%
FERROUS PRODUCTS	118	70.81	66.8%	27.57	328.3%	66	112	-41.0%
Gold Kilo	0	2.86	-100.0%	0	-	0	2	-100.0%
IRON ORE 62 CHINA PLATTS FUTUR	0	0	-	0	-	0	0	-
IRON ORE 62 CHINA TSI FUTURES	211	170.9	23.5%	296.33	-28.8%	358	176	103.7%
LNDN ZINC	6	0.33	1571.6%	5.81	-4.1%	13	0	2615.0%
NYMEX HOT ROLLED STEEL	906	574.95	57.6%	626.9	44.6%	844	503	67.8%
NYMEX PLATINUM	18,967	20,176.43	-6.0%	30,151.14	-37.1%	21,688	21,671	0.1%
PALLADIUM	4,604	6,911.33	-33.4%	5,390.14	-14.6%	5,663	6,216	-8.9%
SILVER	754	444.52	69.6%	661.86	13.9%	763	357	113.9%
URANIUM	48	1.29	3603.7%	148.43	-67.9%	81	11	631.9%

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Metals Options								
COMEX COPPER	3,323	1,160.19	186.4%	3,120.05	6.5%	3,123	1,003	211.5%
COMEX GOLD	38,430	45,682.81	-15.9%	56,327.76	-31.8%	45,672	46,862	-2.5%
COMEX SILVER	4,932	8,438.43	-41.6%	5,943.29	-17.0%	6,048	7,210	-16.1%
COPPER	5	0	-	2.43	94.1%	3	0	-
GOLD	4,245	1,637.38	159.3%	5,253	-19.2%	3,753	1,714	118.9%
HOT ROLLED COIL STEEL CALL OPT	0	0	-	28.57	-100.0%	7	0	-
IRON ORE 62 CHINA TSI CALL OPTIC	150	0	-	154.29	-2.8%	81	2	3230.0%
IRON ORE 62 CHINA TSI PUT OPTIO	86	0	-	85.71	0.0%	44	13	233.3%
NYMEX PLATINUM	202	44.81	349.9%	93.14	116.5%	178	153	16.4%
PALLADIUM	73	218.57	-66.7%	74.81	-2.7%	67	175	-61.9%
SILVER	210	28.71	631.3%	220.52	-4.8%	174	27	541.0%
Foreign Exchange Futures								
CHILEAN PESO	19	81.38	-76.6%	0	-	5	145	-96.6%
Foreign Exchange Options								
AUD/USD PQO 2pm Fix	58	26.67	117.1%	68.38	-15.3%	49	25	94.8%
Ags Futures								
FERTILIZER PRODUCTS	71	30.95	130.8%	42.86	66.7%	68	53	29.5%

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Ag Products Futures								
BUTTER CS	180	156.95	14.4%	168.9	6.3%	184	227	-18.8%
CASH-SETTLED CHEESE	471	381	23.6%	560.1	-15.9%	597	451	32.3%
CATTLE	68,598	61,652.38	11.3%	84,708.57	-19.0%	73,374	66,932	9.6%
CAT WEATHER EUROPEAN	95	0	-	0	-	24	0	-
CDD SEASONAL STRIP	17	0	-	0	-	5	0	-
CDD WEATHER	5	52.38	-90.9%	95.24	-95.0%	26	13	90.9%
CHI WHEAT	145,840	165,406.38	-11.8%	123,057.67	18.5%	134,263	157,924	-15.0%
CLASS IV MILK	170	26.19	548.0%	91.52	85.4%	142	31	366.0%
COCOA TAS	0	0.24	-100.0%	0	-	0	0	-100.0%
CORN	492,763	488,087.1	1.0%	378,346.67	30.2%	421,618	442,656	-4.8%
COTTON	0	0	-	0	-	0	0	50.0%
DJ_UBS ROLL SELECT INDEX FUTU	0	105.24	-100.0%	179.81	-100.0%	46	56	-17.8%
DOW-UBS COMMOD INDEX	916	1,561.52	-41.3%	4,656	-80.3%	1,908	3,653	-47.8%
DRY WHEY	59	43.33	37.1%	49.52	20.0%	69	58	19.3%
FEEDER CATTLE	17,480	16,178.19	8.0%	17,602	-0.7%	15,389	14,904	3.2%
FERTILIZER PRODUCTS	110	82.38	32.9%	53.57	104.4%	97	98	-1.4%
GOLDMAN SACHS	1,308	1,465.81	-10.8%	1,287.29	1.6%	1,432	1,521	-5.9%
GSCI EXCESS RETURN FUT	188	77	143.9%	5,361.62	-96.5%	1,494	1,551	-3.6%
HDD SEASONAL STRIP	0	0	-	0	-	0	0	-
HDD WEATHER	0	0	-	0	-	26	6	315.8%
HDD WEATHER EUROPEAN	0	0	-	47.62	-100.0%	37	0	-
HOGS	64,443	45,837.57	40.6%	81,717.1	-21.1%	62,982	49,285	27.8%
HOUSING INDEX	1	0.43	111.0%	2	-54.8%	1	0	120.0%
Intercommodity Spread	0	0	-	0	-	0	0	-
KC WHEAT	73,809	70,082.29	5.3%	53,004.9	39.2%	64,989	73,217	-11.2%
LUMBER	831	1,073.57	-22.6%	530.48	56.7%	703	912	-22.9%
MALAYSIAN PALM SWAP	165	178.1	-7.5%	95.24	73.0%	115	176	-34.9%
MILK	1,245	905.71	37.5%	1,099.19	13.3%	1,243	960	29.5%
MINI CORN	445	533.43	-16.6%	374.29	18.9%	374	511	-26.8%
MINI SOYBEAN	660	1,370.62	-51.9%	513.14	28.5%	767	1,485	-48.3%
MINI WHEAT	216	267.52	-19.3%	250.71	-13.9%	216	288	-25.1%
MLK MID OPTIONS	0	0	-	0	-	0	0	-
NFD MILK	324	337.38	-4.1%	320.33	1.0%	344	277	24.4%
OATS	924	1,042.9	-11.4%	486	90.2%	694	819	-15.3%
ROUGH RICE	1,259	1,215.71	3.6%	688.38	83.0%	966	897	7.7%
SOYBEAN	228,643	323,288.43	-29.3%	159,593.76	43.3%	196,230	277,703	-29.3%
SOYBEAN MEAL	133,161	160,075.86	-16.8%	89,097.76	49.5%	112,124	141,535	-20.8%
SOYBEAN OIL	143,455	152,865.1	-6.2%	96,336.52	48.9%	120,747	134,461	-10.2%
S&P GSCI ENHANCED ER SWAP	0	0	-	358.29	-100.0%	181	229	-20.9%
SUGAR 11	0	2.76	-100.0%	0	-	0	1	-100.0%
USD CRUDE PALM OIL	31	15.24	105.0%	45.9	-32.0%	71	18	291.4%
WHEAT	512	298.1	71.9%	991.71	-48.3%	672	326	106.3%

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	ADV APR 2019	ADV APR 2018	% CHG	ADV MAR 2019	% CHG	ADV Y.T.D 2019	ADV Y.T.D 2018	% CHG
Ag Products Options								
BUTTER CS	213	246.48	-13.6%	133.76	59.2%	204	162	26.0%
CASH-SETTLED CHEESE	456	403.1	13.0%	412.71	10.4%	535	469	14.1%
CATTLE	11,316	14,374.95	-21.3%	12,123.67	-6.7%	9,977	13,598	-26.6%
CAT WEATHER EUROPEAN	95	0	-	0	-	24	0	-
CDD SEASONAL STRIP	143	0	-	95.24	50.0%	61	0	-
CHI WHEAT	23,351	36,932.48	-36.8%	40,913.24	-42.9%	33,937	38,786	-12.5%
CLASS IV MILK	236	45.14	422.8%	197.05	19.8%	229	46	400.9%
CORN	100,413	106,508.14	-5.7%	117,298.24	-14.4%	96,379	96,171	0.2%
CORN NEARBY+2 CAL SPRD	6	0.48	1150.0%	74.81	-92.0%	105	82	28.1%
DEC-DEC CORN CAL SPRD	104	16.76	517.6%	0.71	14393.0%	34	17	92.4%
DEC-JULY CORN CAL SPRD	153	0	-	85.71	78.3%	84	0	-
DEC-JULY WHEAT CAL SPRD	0	0	-	0	-	0	0	-
DRY WHEY	61	10.76	470.8%	48.67	26.2%	46	21	121.0%
FEEDER CATTLE	1,654	1,626.52	1.7%	1,588.9	4.1%	1,362	1,748	-22.1%
HDD EURO SEASONAL STRIP	0	0	-	0	-	0	0	-
HDD SEASONAL STRIP	0	0	-	0	-	0	0	-
HDD WEATHER	0	0	-	0	-	0	0	-
HOGS	20,408	10,040.67	103.3%	26,177.38	-22.0%	17,829	9,333	91.0%
HOUSING INDEX	0	0	-	0	-	0	0	-
Intercommodity Spread	5	8.57	-44.4%	12.52	-62.0%	8	90	-90.8%
JULY-DEC CORN CAL SPRD	127	223.81	-43.4%	65.71	92.8%	93	114	-18.0%
JULY-DEC SOYMEAL CAL SPRD	0	0	-	0	-	0	0	-
JULY-DEC WHEAT CAL SPRD	2	11.67	-79.6%	0	-	16	9	87.5%
JULY-NOV SOYBEAN CAL SPRD	20	482.38	-95.9%	35.33	-44.1%	51	562	-91.0%
KC WHEAT	2,874	4,567.62	-37.1%	5,200.9	-44.7%	4,067	4,827	-15.7%
LUMBER	118	90.9	29.4%	107.14	9.8%	100	92	9.0%
LV CATL CSO	0	0.48	0.0%	1.43	-66.7%	5	0	1994.2%
MAR-JULY CORN CAL SPRD	0	0	-	0	-	0	0	-
MAR-JULY WHEAT CAL SPRD	0	0	-	0	-	0	2	-85.0%
MILK	2,038	1,344.33	51.6%	1,378.29	47.8%	1,825	1,285	42.0%
MLK MID OPTIONS	3	4.14	-37.9%	1.81	42.1%	2	3	-23.8%
NFD MILK	302	437.81	-31.1%	276.24	9.2%	433	292	48.4%
NOV-JULY SOYBEAN CAL SPRD	36	0	-	0	-	10	0	79868.0%
NOV-MAR SOYBEAN CSO	0	3.33	-100.0%	0	-	0	1	-100.0%
NOV-NOV SOYBEAN CAL SPRD	0	0.19	-100.0%	0	-	1	0	777.1%
OATS	28	17.43	60.1%	14.62	90.9%	37	23	59.6%
ROUGH RICE	71	41.24	71.6%	102.29	-30.8%	106	59	80.8%
SEP-DEC SOYBEAN MEAL CSO	0	0	-	0	-	0	0	-
SOYBEAN	51,140	89,140.14	-42.6%	43,453.1	17.7%	49,075	83,868	-41.5%
SOYBEAN CRUSH	0	0.48	-60.0%	0	-	0	1	-95.1%
SOYBEAN MEAL	7,114	15,742.29	-54.8%	6,045.29	17.7%	6,930	16,630	-58.3%
SOYBEAN OIL	4,951	5,208	-4.9%	4,438.19	11.6%	5,281	6,190	-14.7%
SOYBN NEARBY+2 CAL SPRD	0	0	-	0	-	0	0	-
SOYMEAL NEARBY+2 CAL SPRD	1	19.05	-96.2%	0	-	6	5	16.3%
WHEAT	344	0	-	362.1	-5.1%	215	7	3026.4%
WHEAT-CORN ICSO	30	14.29	113.3%	59.52	-48.8%	30	29	6.2%
WHEAT NEARBY+2 CAL SPRD	46	20.95	118.2%	0.48	9499.8%	27	84	-67.5%

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	ADV APR 2019	ADV APR 2018	% CHG	ADV MAR 2019	% CHG	ADV Y.T.D 2019	ADV Y.T.D 2018	% CHG
TOTAL FUTURES GROUP								
Interest Rate Futures	5,724,672	5,727,614.95	-0.1%	7,465,252.38	-23.3%	7,126,498	8,079,262	-11.8%
Equity Index Futures	1,861,255	2,631,828.48	-29.3%	2,898,304	-35.8%	2,373,058	2,907,477	-18.4%
Metals Futures	476,606	625,124.9	-23.8%	520,406.33	-8.4%	493,575	647,889	-23.8%
Energy Futures	2,242,686	2,317,511.76	-3.2%	1,999,637.48	12.2%	2,142,743	2,381,071	-10.0%
FX Futures	688,405	767,392.48	-10.3%	983,038.38	-30.0%	792,913	949,680	-16.5%
Foreign Exchange Futures	19	81.38	-76.6%	0	-	5	145	-96.6%
Ags Futures	71	30.95	130.8%	42.86	66.7%	68	53	29.5%
Ag Products Futures	1,378,324	1,494,666.81	-7.8%	1,101,771.81	25.1%	1,214,150	1,373,183	-11.6%
TOTAL FUTURES	12,372,038	13,564,251.71	-8.8%	14,968,453.24	-17.3%	14,143,010.89	16,338,761.72	-13.4%
TOTAL OPTIONS GROUP								
Interest Rate Options	2,329,541	1,936,976.48	20.3%	2,937,664.57	-20.7%	2,608,370	2,771,779	-5.9%
Equity Index Options	455,229	797,069.38	-42.9%	588,653.57	-22.7%	567,300	1,011,162	-43.9%
Metals Options	51,655	57,210.9	-9.7%	71,303.57	-27.6%	59,150	57,160	3.5%
Energy Options	242,867	293,350.05	-17.2%	175,003.33	38.8%	227,852	336,429	-32.3%
FX Options	58,252	64,587.9	-9.8%	59,373.95	-1.9%	56,477	81,613	-30.8%
Ag Products Options	227,854	287,584.57	-20.8%	260,705.05	-12.6%	229,129	274,605	-16.6%
Foreign Exchange Options	58	26.67	117.1%	68.38	-15.3%	49	25	94.8%
TOTAL OPTIONS	3,365,457	3,436,805.95	-2.1%	4,092,772.43	-17.8%	3,748,326.05	4,532,772.06	-17.3%
TOTAL COMBINED								
FX	746,657	831,980.38	-10.3%	1,042,412.33	-28.4%	849,390	1,031,293	-17.6%
Equity Index	2,316,484	3,428,897.86	-32.4%	3,486,957.57	-33.6%	2,940,358	3,918,639	-25.0%
Interest Rate	8,054,213	7,664,591.43	5.1%	10,402,916.95	-22.6%	9,734,868	10,851,041	-10.3%
Energy	2,485,552	2,610,861.81	-4.8%	2,174,640.81	14.3%	2,370,595	2,717,500	-12.8%
Metals	528,262	682,335.81	-22.6%	591,709.9	-10.7%	552,725	705,049	-21.6%
Foreign Exchange	77	108.05	-28.8%	68.38	12.5%	54	170	-68.4%
Ags	71	30.95	130.8%	42.86	66.7%	68	53	29.5%
Ag Products	1,606,179	1,782,251.38	-9.9%	1,362,476.86	17.9%	1,443,279	1,647,788	-12.4%
GRAND TOTAL	15,737,495	17,001,057.67	-7.4%	19,061,225.67	-17.4%	17,891,336.94	20,871,533.78	-14.3%

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