

**CME Group Exchange ADV Report - Monthly**

December 2017

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	ADV DEC 2017	ADV DEC 2016	% CHG	ADV NOV 2017	% CHG	ADV Y.T.D 2017	ADV Y.T.D 2016	% CHG
<b>Commodities and Alternative Investments Futures</b>								
HDD SEASONAL STRIP	0	0	-	0	-	0	1	-100.0%
CDD SEASONAL STRIP	0	0	-	0	-	4	6	-29.9%
CDD WEATHER	0	0	-	0	-	105	13	680.9%
HDD WEATHER EUROPEAN	0	0	-	0	-	2	3	-38.2%
HDD WEATHER	377	128.57	193.2%	11.9	3066.4%	37	25	49.5%
HOUSING INDEX	0	0.33	-55.0%	0.1	57.6%	1	1	-6.5%
USD CRUDE PALM OIL	66	31.43	108.4%	75.24	-12.9%	26	12	105.7%
CAT EURO SEASONAL STRIP	0	0	-	0	-	0	1	-100.0%
MILK	1,270	1,792.52	-29.1%	1,300.14	-2.3%	1,274	1,278	-0.3%
HDD EURO SEASONAL STRIP	0	0	-	0	-	0	1	-100.0%
CASH-SETTLED CHEESE	643	383.05	67.9%	733.71	-12.3%	511	468	9.3%
LIVE CATTLE	49,522	50,983.52	-2.9%	71,504.81	-30.7%	64,403	52,075	23.7%
BUTTER CS	201	131.86	52.6%	183.95	9.4%	161	155	3.4%
LUMBER	919	611.38	50.4%	892.33	3.0%	817	694	17.7%
DRY WHEY	81	88.33	-7.8%	87.81	-7.2%	83	64	30.1%
CLASS IV MILK	16	75.24	-78.5%	19.86	-18.7%	42	57	-26.7%
NFD MILK	266	157.57	68.7%	187.14	42.0%	241	220	9.5%
GSCI EXCESS RETURN FUT	5,698	4,319.67	31.9%	94.29	5943.6%	1,744	1,368	27.4%
LEAN HOGS	36,563	39,706.48	-7.9%	52,296.19	-30.1%	44,789	36,488	22.7%
FEEDER CATTLE	13,745	9,576.38	43.5%	11,814.33	16.3%	14,111	10,071	40.1%
MLK MID	0	0	-	0	-	0	0	-
GOLDMAN SACHS	1,411	1,643.71	-14.1%	1,598.14	-11.7%	1,607	1,429	12.5%
COCOA TAS	0	0.62	-59.6%	0.05	425.2%	0	10	-96.5%
SUGAR 11	0	0	-	0	-	0	2	-89.9%
COFFEE	0	0	-	0.05	-100.0%	0	1	-75.6%
COTTON	0	0.05	5.0%	0.14	-65.0%	0	2	-96.5%
MINI WHEAT	138	203.33	-32.2%	240.14	-42.6%	270	296	-9.0%
CORN	193,962	189,687	2.3%	508,848.48	-61.9%	358,075	339,783	5.4%
SOYBEAN MEAL	124,538	98,031.43	27.0%	123,378.76	0.9%	103,571	102,992	0.6%
SOYBEAN OIL	135,143	123,801.76	9.2%	148,956.71	-9.3%	120,447	116,783	3.1%
ROUGH RICE	1,204	1,682.62	-28.4%	765.14	57.4%	1,080	1,210	-10.7%
DOW-UBS COMMOD INDEX	8,175	2,979.24	174.4%	2,759.38	196.2%	4,356	1,656	163.0%
MINI SOYBEAN	927	1,015	-8.6%	729.71	27.1%	816	1,176	-30.6%
WHEAT	20	290.86	-93.1%	28.48	-29.8%	482	308	56.3%
OATS	512	480.48	6.6%	931.48	-45.0%	674	894	-24.6%
SOYBEAN	260,697	232,933.9	11.9%	177,448.71	46.9%	217,148	244,963	-11.4%
MINI CORN	276	408.1	-32.4%	703.86	-60.8%	461	571	-19.3%
FERTILIZER PRODUCTS	109	44.29	145.0%	116.43	-6.8%	86	91	-4.6%
S&P GSCI ENHANCED ER SWAP	1,503	1,622.19	-7.4%	0	-	535	462	15.7%
Intercommodity Spread	0	0	-	0	-	0	0	-
KC WHEAT	33,037	29,807.67	10.8%	73,328.71	-54.9%	50,291	38,456	30.8%
MALAYSIAN PALM SWAP	202	642.48	-68.6%	265.71	-24.0%	419	466	-10.1%
DJ_UBS ROLL SELECT INDEX FUTU	66	101.9	-35.3%	0	-	34	20	72.2%
PALM OIL	0	0	-	0	-	0	0	-
CHI WHEAT	80,970	75,149.1	7.7%	175,853.76	-54.0%	134,334	123,253	9.0%

**Commodities and Alternative Investments Options**

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HDD SEASONAL STRIP	0	33.33	-100.0%	214.29	-100.0%	64	80	-20.5%
CDD SEASONAL STRIP	0	0	-	0	-	11	116	-90.4%
CDD WEATHER	0	0	-	0	-	187	4	4618.7%
HDD WEATHER EUROPEAN	0	0	-	0	-	6	22	-72.6%
HDD WEATHER	0	47.62	-100.0%	0	-	5	8	-37.3%
HOUSING INDEX	0	0	-	0.19	-100.0%	0	0	156.7%
LV CATL CSO	0	27.67	-100.0%	0	-	8	3	132.7%
MILK	1,424	2,566	-44.5%	1,993.24	-28.6%	1,678	1,522	10.3%
HDD EURO SEASONAL STRIP	0	0	-	119.05	-100.0%	10	10	0.4%
CASH-SETTLED CHEESE	807	454.52	77.6%	636.71	26.8%	476	364	31.0%
LIVE CATTLE	9,560	11,608.48	-17.6%	11,714.9	-18.4%	11,559	16,004	-27.8%
BUTTER CS	114	105	8.2%	144.95	-21.6%	92	63	45.6%
LUMBER	80	48.86	64.7%	129.29	-37.8%	65	50	30.0%
DRY WHEY	42	13.95	203.5%	64.57	-34.4%	30	5	466.9%
CLASS IV MILK	49	89.43	-44.9%	90.29	-45.5%	81	55	47.1%
NFD MILK	244	38.81	527.7%	223.67	8.9%	211	137	54.9%
LEAN HOGS	6,948	9,437.1	-26.4%	10,370.81	-33.0%	10,107	8,764	15.3%
FEEDER CATTLE	1,722	1,265.14	36.1%	1,348.95	27.7%	1,644	1,626	1.1%
MLK MID	4	8.29	-52.9%	6.76	-42.3%	3	4	-9.4%
JULY-DEC WHEAT CAL SPRD	0	0	-	0	-	6	133	-95.2%
CORN	45,363	51,497.29	-11.9%	76,059.33	-40.4%	95,159	90,454	5.2%
SOYBEAN MEAL	12,662	6,475.43	95.5%	8,170.1	55.0%	8,606	9,005	-4.4%
SOYBEAN OIL	5,862	7,825.9	-25.1%	9,267.14	-36.7%	8,168	9,120	-10.4%
AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-	0	0	416.9%
DEC-JULY CORN CAL SPRD	0	0	-	13.81	-100.0%	159	105	50.9%
DEC-DEC CORN CAL SPRD	4	42.62	-91.1%	0	-	48	75	-35.1%
NOV-JULY SOYBEAN CAL SPRD	0	0	-	0	-	7	0	-
JAN-MAY SOYBEAN CAL SPRD	0	0	-	0	-	0	0	-
JULY-JULY WHEAT CAL SPRD	0	0	-	0	-	0	2	-100.0%
NOV-NOV SOYBEAN CAL SPRD	0	0	-	0	-	1	12	-94.5%
ROUGH RICE	46	28.24	63.6%	125.71	-63.3%	99	78	25.6%
WHEAT	18	0	-	4.76	267.5%	8	2	366.4%
WHEAT-CORN IC SO	115	14.29	701.5%	48.33	136.9%	39	70	-44.3%
CORN NEARBY+2 CAL SPRD	5	72.14	-93.1%	95.48	-94.8%	64	146	-56.5%
SOYBN NEARBY+2 CAL SPRD	0	14.29	-100.0%	0	-	4	7	-37.4%
WHEAT NEARBY+2 CAL SPRD	31	51.52	-40.8%	66.43	-54.1%	71	218	-67.3%
SOYMEAL NEARBY+2 CAL SPRD	0	0	-	0	-	0	15	-100.0%
JULY-DEC CORN CAL SPRD	20	2.38	740.0%	0	-	71	146	-51.5%
DEC-JULY WHEAT CAL SPRD	0	0	-	19.48	-100.0%	8	2	263.0%
JULY-NOV SOYBEAN CAL SPRD	27	16.14	68.8%	0.48	5622.4%	285	262	8.6%
OATS	31	59.1	-47.7%	47.43	-34.8%	56	74	-24.0%
SOYBEAN	57,999	51,568.86	12.5%	56,029.19	3.5%	67,652	79,800	-15.2%
JULY-DEC SOY OIL CAL SPRD	0	0.95	-100.0%	0	-	3	4	-37.0%
SOYBEAN CRUSH	1	1.52	-18.0%	3.62	-65.5%	3	19	-84.6%
AUG-DEC SOYBEAN MEAL CSO	0	0	-	0	-	0	0	-100.0%
Intercommodity Spread	0	28.57	-100.0%	0	-	3	16	-82.6%
KC WHEAT	1,645	934.48	76.1%	1,300.33	26.5%	2,112	1,376	53.5%
MAR-JULY WHEAT CAL SPRD	32	40.14	-19.7%	9.52	238.6%	9	13	-30.4%
MAR-JULY CORN CAL SPRD	0	0	-	0	-	0	10	-97.1%

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<b>Commodities and Alternative Investments Options</b>								
CHI WHEAT	21,422	21,649.71	-1.1%	23,031.71	-7.0%	29,935	27,688	8.1%
<b>FX Futures</b>								
TURKISH LIRA	439	19.05	2202.7%	17.62	2389.4%	111	2	6548.6%
JAPANESE YEN	156,631	150,083.81	4.4%	166,488.71	-5.9%	165,830	145,194	14.2%
KOREAN WON	16	1.67	869.0%	7.14	126.1%	3	1	281.2%
CD/JY CROSS RATES	0	0	-	0	-	6	0	9877.0%
CANADIAN DOLLAR	87,064	67,292.43	29.4%	67,637.52	28.7%	76,584	74,196	3.2%
AD/NE CROSS RATES	3	0.05	6832.8%	2.43	35.9%	5	3	58.9%
BRITISH POUND	154,283	119,418.19	29.2%	140,038.86	10.2%	124,175	115,579	7.4%
RUSSIAN RUBLE	7,069	3,948.71	79.0%	2,654.19	166.3%	2,792	1,911	46.0%
SWISS FRANC	35,776	29,797.71	20.1%	25,104.24	42.5%	27,801	23,686	17.4%
NEW ZEALND DOLLAR	27,921	26,514.86	5.3%	24,700.1	13.0%	25,310	23,565	7.4%
BP/JY CROSS RATES	257	110.71	132.4%	200.9	28.1%	163	90	81.9%
SHEKEL	49	0	-	1.67	2845.9%	6	0	-
E-MICRO USD/CAD	0	0	-	0	-	0	0	-100.0%
E-MICRO GBP/USD	2,474	3,006.95	-17.7%	2,648.62	-6.6%	2,716	4,121	-34.1%
E-MICRO USD/CHF	0	0	-	0	-	0	0	-100.0%
E-MICRO EUR/USD	10,876	14,479.48	-24.9%	10,846.29	0.3%	11,902	13,381	-11.1%
E-MICRO USD/JPY	0	0	-	0	-	0	0	-100.0%
E-MICRO AUD/USD	3,282	3,331	-1.5%	3,981.9	-17.6%	4,032	4,835	-16.6%
AUSTRALIAN DOLLAR	98,320	82,846.67	18.7%	94,297.57	4.3%	95,834	100,411	-4.6%
E-MINI JAPANESE YEN	433	1,483.9	-70.8%	519.81	-16.8%	1,267	1,560	-18.8%
EFX/JY CROSS RATES	6,130	3,596.43	70.5%	2,682.14	128.6%	3,494	2,152	62.4%
RMB USD	1	13.76	-91.3%	0.05	2421.0%	1	15	-90.9%
EFX/BP CROSS RATES	8,122	4,553.38	78.4%	3,353.95	142.2%	4,100	3,794	8.1%
EFX/SF CROSS RATES	3,153	2,891.81	9.0%	821.86	283.7%	1,851	1,896	-2.4%
INDIAN RUPEE	2,227	728.62	205.6%	3,326.43	-33.1%	1,882	636	195.9%
EC/SEK CROSS RATES	80	35.57	123.5%	58.33	36.3%	42	14	197.6%
S.AFRICAN RAND	3,507	1,674.38	109.5%	1,867.95	87.7%	2,676	961	178.3%
MEXICAN PESO	68,799	49,918.9	37.8%	48,836.62	40.9%	52,120	55,851	-6.7%
EURO FX	273,105	244,203.86	11.8%	218,745.33	24.9%	224,924	196,254	14.6%
SF/JY CROSS RATES	0	0	-	0	-	0	0	-
EC/CD CROSS RATES	460	281.19	63.6%	111.52	312.6%	229	134	71.2%
EC/NOK CROSS RATES	13	0.1	13187.8%	36.48	-65.3%	13	0	28608.9%
EC/AD CROSS RATES	315	164.1	92.1%	81.95	284.6%	163	87	87.2%
BP/SF CROSS RATES	10	0.1	9931.5%	8.33	14.6%	4	2	131.2%
E-MINI EURO FX	5,334	5,173.29	3.1%	4,274.19	24.8%	4,552	3,767	20.8%
POLISH ZLOTY (EC)	2	2	-7.5%	0.9	104.5%	2	79	-97.8%
AD/JY CROSS RATES	192	395.43	-51.4%	74.62	157.3%	134	207	-35.5%
AD/CD CROSS RATES	0	0.48	-100.0%	0	-	3	0	1119.4%
POLISH ZLOTY (US)	21	284.52	-92.8%	14.9	37.9%	16	91	-82.4%
SKR/USD CROSS RATES	351	268.1	30.9%	71.43	391.4%	140	104	34.7%
NKR/USD CROSS RATE	158	226.33	-30.3%	76.57	105.9%	102	95	7.9%
BRAZIL REAL	4,656	3,736.52	24.6%	4,730.52	-1.6%	4,571	3,988	14.6%
CHINESE RENMINBI (CNH)	112	153.05	-26.6%	99.9	12.5%	79	84	-5.6%

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<b>FX Futures</b>								
USDZAR	0	0	-	0	-	0	0	-97.8%
E-MICRO INR/USD	99	157	-36.8%	163	-39.1%	124	119	4.2%
E-MICRO USD/CNH	0	0	-	0	-	0	0	-100.0%
E-MICRO JPY/USD	1,126	2,437.38	-53.8%	1,802.14	-37.5%	1,793	1,575	13.8%
E-MICRO CAD/USD	1,075	647.05	66.2%	840.48	27.9%	973	976	-0.3%
BDI	0	49.19	-100.0%	0	-	25	54	-53.7%
E-MICRO CHF/USD	47	62.57	-25.2%	64.1	-27.0%	48	87	-45.0%
<b>FX Options</b>								
AUSTRALIAN DLR (EU)	0	0	-	0	-	0	5	-99.8%
JAPANESE YEN	0	4,005.81	-100.0%	0	-	2,296	13,575	-83.1%
EURO FX (EU)	0	4.33	-95.4%	0.76	-73.7%	2	114	-98.2%
CANADIAN DOLLAR	0	1,970.62	-100.0%	0	-	761	5,775	-86.8%
BRITISH POUND	0	2,730.38	-100.0%	0	-	1,897	9,066	-79.1%
RUSSIAN RUBLE	0	0	-	0	-	0	5	-100.0%
CANADIAN DOLLAR (EU)	1	0.33	50.0%	1.19	-58.0%	1	7	-91.9%
SWISS FRANC (EU)	0	0	-	0	-	0	0	-
SWISS FRANC	0	118.24	-100.0%	0	-	23	283	-92.0%
BRITISH POUND (EU)	9	5.05	78.3%	8.48	6.2%	18	37	-50.1%
AUSTRALIAN DOLLAR	0	2,039.81	-100.0%	0	-	847	5,883	-85.6%
MEXICAN PESO	41	47.95	-14.5%	99.33	-58.7%	151	202	-25.2%
EURO FX	0	16,666.14	-100.0%	0	-	5,256	30,210	-82.6%
JAPANESE YEN (EU)	0	9	-100.0%	0.1	-100.0%	1	24	-97.0%
CAD/USD PQO 2pm Fix	8,495	3,270.95	159.7%	6,731.19	26.2%	6,937	694	899.8%
AUD/USD PQO 2pm Fix	3,735	3,168.24	17.9%	4,804.57	-22.3%	5,226	678	670.5%
JPY/USD PQO 2pm Fix	8,992	8,539.52	5.3%	13,226.52	-32.0%	12,406	1,569	690.9%
CHF/USD PQO 2pm Fix	78	249.71	-69.0%	119.24	-35.0%	154	52	196.7%
EUR/USD PQO 2pm Fix	30,707	15,975.19	92.2%	39,611.19	-22.5%	31,089	2,925	962.9%
GBP/USD PQO 2pm Fix	11,005	3,765.71	192.2%	18,769	-41.4%	10,769	877	1128.6%

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<b>Equity Index Futures</b>								
E-MINI RUSSELL 2000	177,446	0	-	107,264.9	65.4%	44,843	0	-
E-MINI RUSSELL 1000	1,198	46.86	2456.2%	398.05	200.9%	275	21	1227.3%
DJ US REAL ESTATE	3,166	2,044.19	54.9%	1,415.05	123.7%	1,494	958	55.9%
E-MINI NASDAQ 100	326,307	213,153.29	53.1%	308,652.9	5.7%	277,128	260,913	6.2%
S&P ENERGY SECTOR	1,493	876.62	70.3%	384.86	288.0%	799	562	42.1%
S&P MATERIALS SECTOR	733	587.9	24.6%	442.95	65.4%	432	340	27.1%
S&P FINANCIAL SECTOR	4,318	1,442.05	199.4%	699.38	517.4%	1,566	692	126.2%
S&P HEALTH CARE SECTOR	1,046	786.81	32.9%	266.9	291.7%	736	583	26.3%
S&P INDUSTRIAL SECTOR	707	991.29	-28.6%	356.9	98.2%	435	530	-17.9%
S&P UTILITIES SECTOR	3,236	1,471.05	120.0%	644.05	402.4%	1,386	1,184	17.1%
S&P TECHNOLOGY SECTOR	1,616	582.14	177.6%	350.48	361.0%	550	323	70.1%
S&P CONSUMER DSCRTNRY SECTC	875	844.48	3.7%	188.29	365.0%	381	599	-36.3%
S&P 500	9,727	13,640	-28.7%	3,726.71	161.0%	6,013	8,880	-32.3%
E-MINI MIDCAP	22,858	25,631	-10.8%	13,453.19	69.9%	17,259	21,451	-19.5%
NIKKEI 225 (\$) STOCK	17,417	14,665.95	18.8%	20,242.71	-14.0%	13,447	17,018	-21.0%
NIKKEI 225 (YEN) STOCK	37,688	50,182.95	-24.9%	54,793.62	-31.2%	43,234	58,752	-26.4%
IBOVESPA INDEX	66	45.1	45.2%	28.1	133.1%	34	35	-3.2%
S&P CONSUMER STAPLES SECTOR	2,323	1,058.57	119.4%	322.86	619.4%	861	1,253	-31.3%
E-MINI S&P500	1,530,198	1,721,329.62	-11.1%	1,317,244.57	16.2%	1,456,580	1,875,709	-22.3%
S&P 500/VALUE	825	891.19	-7.5%	581.52	41.8%	905	530	70.6%
S&P 500 GROWTH	2	2.81	-39.5%	0.05	3471.4%	1	1	-1.3%
FT-SE 100	56	28	101.1%	55.86	0.8%	31	30	3.0%
NIFTY 50	564	91.57	516.3%	684.24	-17.5%	569	465	22.4%
E-MINI RUSSELL 1000 GROWTH	1,029	31.86	3129.0%	381.71	169.5%	240	14	1674.2%
E-MINI RUSSELL 1000 VALUE	1,501	116.48	1189.1%	761.95	97.1%	446	42	955.9%
NASDAQ BIOTECH	10	68.76	-85.6%	17.05	-41.9%	15	9	65.2%
BITCOIN FUTURES	475	0	-	0	-	38	0	-
E-mini FTSE 100 (USD)	48	0	-	52.05	-8.0%	12	1	711.2%
E-mini FTSE China 50	121	55.86	116.8%	209.71	-42.3%	87	45	92.3%
E-MINI S&P REAL ESTATE SELECT S	540	365.62	47.8%	77.62	596.0%	293	56	418.7%
FTSE Emerging	11	1.81	494.1%	12.67	-15.1%	4	6	-38.3%
E-mini (\$5) Dow	142,453	139,405.29	2.2%	128,939.48	10.5%	130,942	168,872	-22.5%

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	ADV DEC 2017	ADV DEC 2016	% CHG	ADV NOV 2017	% CHG	ADV Y.T.D 2017	ADV Y.T.D 2016	% CHG
<b>Equity Index Options</b>								
E-MINI RUSSELL 2000	327	0	-	912.05	-64.1%	191	0	-
E-MINI NASDAQ 100	9,092	7,745.52	17.4%	16,742.24	-45.7%	11,448	10,191	12.3%
S&P 500	15,938	12,799.14	24.5%	20,746.9	-23.2%	15,512	22,517	-31.1%
EOW4 EMINI S&P 500	44,901	46,703.57	-3.9%	42,520.71	5.6%	45,556	51,285	-11.2%
EOW2 S&P 500	9,273	5,454.33	70.0%	11,596.29	-20.0%	8,355	6,110	36.7%
EOW1 EMINI S&P 500	43,187	34,022.43	26.9%	59,372.14	-27.3%	50,475	46,471	8.6%
EOW1 S&P 500	5,499	1,768.19	211.0%	5,143.24	6.9%	4,351	2,804	55.2%
E-MINI MIDCAP	0	0	-	0	-	0	0	-100.0%
EOM S&P 500	11,851	8,202.71	44.5%	13,238.29	-10.5%	9,354	8,213	13.9%
EOM EMINI S&P	127,778	108,738.48	17.5%	110,314.48	15.8%	98,768	82,929	19.1%
EOW2 EMINI S&P 500	45,163	42,225.71	7.0%	57,853.86	-21.9%	50,398	51,559	-2.3%
E-MINI S&P500	213,086	228,688	-6.8%	258,702.95	-17.6%	203,408	233,682	-13.0%
EOW3 EMINI S&P 500	113,146	134,395.29	-15.8%	142,513.81	-20.6%	156,655	107,592	45.6%
EOW3 S&P 500	15,504	13,660.86	13.5%	16,204.62	-4.3%	17,110	12,525	36.6%
EOW1 E-MINI RUSSELL 2000 WEEKL	36	0	-	84	-56.8%	29	0	-
EOW4 E-MINI RUSSELL 2000 WEEKL	252	0	-	148.05	69.9%	66	0	-
EOW1 E-MINI RUSSELL 2000 WEEKL	42	0	-	78.14	-46.0%	30	0	-
EOW2 E-MINI RUSSELL 2000 WEEKL	118	0	-	237	-50.4%	56	0	-
EOM E-MINI RUSSELL 2000 END OF	352	0	-	166.33	111.4%	88	0	-
EOW3 E-MINI RUSSELL 2000 WEEKL	483	0	-	573.52	-15.8%	259	0	-
E-mini (\$5) Dow	514	498.38	3.2%	459.81	11.9%	296	506	-41.5%
<b>Interest Rate Futures</b>								
5-YR SWAP RATE	3,176	5,182.52	-38.7%	1,029	208.7%	2,258	3,146	-28.2%
2-YR SWAP RATE	0	0	-	0	-	0	18	-100.0%
10-YR SWAP RATE	3,811	4,591.05	-17.0%	1,369.57	178.3%	2,398	2,505	-4.3%
1-MONTH EURODOLLAR	587	324	81.3%	210.48	179.1%	263	78	237.2%
EURODOLLARS	2,341,587	2,943,269.38	-20.4%	2,361,894.24	-0.9%	2,549,192	2,598,997	-1.9%
7-YR SWAP	0	0	-	0	-	0	12	-100.0%
30-YR BOND	255,768	220,018.62	16.2%	391,076.71	-34.6%	292,180	278,584	4.9%
5-YR NOTE	726,342	654,541.1	11.0%	1,321,014.71	-45.0%	902,156	801,209	12.6%
10-YR NOTE	1,168,891	1,104,970.1	5.8%	1,976,065.48	-40.8%	1,495,372	1,391,913	7.4%
2-YR NOTE	310,604	227,323.52	36.6%	700,780.86	-55.7%	387,448	324,898	19.3%
30-YR SWAP RATE	19	122.14	-84.6%	6.33	196.8%	43	84	-49.1%
ULTRA T-BOND	105,202	87,081.43	20.8%	237,601.95	-55.7%	133,968	112,817	18.7%
FED FUND	146,159	97,652.95	49.7%	132,897.67	10.0%	191,148	132,141	44.7%
Ultra 10-Year Note	120,393	87,432.67	37.7%	195,383.33	-38.4%	116,770	67,379	73.3%

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<b>Interest Rate Options</b>								
EURO MIDCURVE	593,563	827,400.71	-28.3%	858,275.52	-30.8%	756,989	557,656	35.7%
EURODOLLARS	537,791	458,997.29	17.2%	490,342.76	9.7%	611,262	667,675	-8.4%
30-YR BOND	106,409	67,035.43	58.7%	91,532.9	16.3%	108,195	84,303	28.3%
5-YR NOTE	87,014	79,592.95	9.3%	105,564.43	-17.6%	118,165	94,764	24.7%
10-YR NOTE	381,713	464,640.81	-17.8%	469,374.9	-18.7%	512,137	390,891	31.0%
2-YR NOTE	13,428	3,633.76	269.5%	13,460.52	-0.2%	9,133	6,682	36.7%
ULTRA T-BOND	288	59.76	381.4%	189.95	51.5%	161	342	-53.1%
FED FUND	0	62.14	-100.0%	3.1	-100.0%	67	376	-82.1%
Ultra 10-Year Note	0	65.48	-100.0%	0	-	34	170	-80.1%
<b>Energy Futures</b>								
CAISO SP15 EZGNHUB5 MW P	0	0	-	0	-	32	71	-55.5%
ERCOT NORTH ZMCPE 5MW OFFPE	0	0	-	0	-	0	0	-
RBOB GAS	96	103.62	-7.8%	88.1	8.4%	113	77	47.4%
ELEC ERCOT DLY PEAK	0	0	-	0	-	0	0	-
ERCOT NORTH ZMCPE 5MW OFFPE	3,816	0	-	1,866.67	104.4%	763	17	4390.7%
ERCOT NORTH ZMCPE 5MW PEAK	0	0	-	100	-100.0%	27	1	2809.5%
ERCOT HOUSTON Z MCPE 5MW PEA	0	0	-	0	-	15	0	-
SINGAPORE JET KERO VS. GASOIL	0	0	-	0	-	0	0	0.4%
PETRO OUTRIGHT EURO	211	393.24	-46.4%	166.67	26.5%	296	450	-34.1%
MONT BELVIEU LDH PROPANE OPIS	75	108.71	-30.9%	53	41.7%	78	48	62.5%
MONT BELVIEU ETHANE OPIS BALM	17	17.86	-6.2%	8.57	95.4%	13	8	67.6%
CONWAY NATURAL GASOLINE (OPI	2	0	-	5.71	-70.3%	12	7	77.2%
PETROCHEMICALS	142	150.14	-5.4%	194.95	-27.1%	191	249	-23.3%
CONWAY PROPANE 5 DECIMALS S	539	384.43	40.2%	502.38	7.3%	437	350	24.8%
CONWAY NORMAL BUTANE (OPIS) S	13	7.86	64.8%	3.57	262.6%	33	11	201.9%
MONT BELVIEU NORMAL BUTANE B	35	35.05	-0.7%	27.81	25.1%	34	29	17.5%
MONT BELVIEU NATURAL GASOLIN	16	9.52	69.6%	22.86	-29.3%	15	8	85.8%
IN DELIVERY MONTH EUA	0	59.52	-100.0%	0	-	11	148	-92.3%
WTS (ARGUS) VS WTI SWAP	676	647.29	4.4%	286.76	135.7%	290	221	31.1%
ISO NEW ENGLAND PK LMP	0	0	-	0	-	0	0	-49.9%
ELEC NYISO OFF-PEAK	0	0	-	0	-	280	0	-
ELEC MISO PEAK	0	10.24	-100.0%	0	-	15	1	1686.1%
TRANSCO ZONE 4 NAT GAS IN	0	0	-	0	-	2	6	-68.0%
COLUMB GULF MAINLINE NG B	0	0	-	0	-	4	87	-95.4%
HENRY HUB FINANCIAL LAST	68	0	-	90.29	-24.5%	26	0	-
ONEOK OKLAHOMA NG BASIS	0	0	-	0	-	7	6	27.2%
TEXAS GAS ZONE1 NG BASIS	0	0	-	0	-	0	1	-100.0%
NYISO ZONE C 5MW D AH O P	0	0	-	0	-	0	215	-100.0%
PJM NI HUB 5MW REAL TIME	0	35,157.38	-100.0%	920	-100.0%	7,167	10,820	-33.8%
NYISO ZONE J 5MW D AH O P	0	0	-	0	-	903	776	16.4%
NYISO ZONE J 5MW D AH PK	128	0	-	86.43	47.5%	117	57	104.1%
NEPOOL W CNT MASS 5MW D A	0	0	-	0	-	0	16	-100.0%
PJM COMED 5MW D AH PK	0	0	-	0	-	19	58	-68.0%
NEPOOL SE MASS 5MW D AH O	0	0	-	0	-	0	0	-
NEPOOL CNCTCT 5MW D AH O	0	0	-	0	-	0	47	-100.0%

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<b>Energy Futures</b>								
NEPOOL CONECTIC 5MW D AH	0	0	-	0	-	0	3	-100.0%
NEPOOL NE MASS 5MW D AH P	0	0	-	0	-	3	3	20.0%
NYISO ZONE C 5MW D AH PK	0	0	-	0	-	0	6	-92.7%
PETRO CRCKS & SPRDS NA	1,188	2,021.19	-41.2%	1,897.38	-37.4%	1,769	1,684	5.1%
SINGAPORE GASOIL	268	195.19	37.3%	210.1	27.5%	240	196	22.3%
PETRO OUTRIGHT NA	207	809.71	-74.4%	306.9	-32.5%	614	791	-22.4%
CRUDE OIL SPRDS	2,573	100.48	2460.7%	2,042.14	26.0%	765	184	315.5%
RBOB GASOLINE BALMO CLNDR	94	123	-23.6%	38.81	142.2%	49	44	11.0%
GASOLINE UP-DOWN BALMO SW	0	0	-	0	-	0	3	-100.0%
COLUMBIA GULF MAIN NAT G	0	0	-	0	-	0	9	-100.0%
ALGON CITY GATES NAT GAS	0	0	-	0	-	0	25	-100.0%
SOUTHERN NAT LA NAT GAS	0	0	-	0	-	0	2	-100.0%
TENN 800 LEG NAT GAS INDE	0	0	-	0	-	0	5	-100.0%
NATURAL GAS PHY	525,030	466,806.81	12.5%	476,500.71	10.2%	431,840	386,828	11.6%
CRUDE OIL OUTRIGHTS	2,763	428.62	544.7%	2,953.86	-6.5%	1,514	350	333.0%
ELECTRICITY OFF PEAK	0	0	-	0	-	0	93	-100.0%
ELEC FINSETTLED	0	0	-	0	-	0	5	-100.0%
PETRO CRK&SPRD EURO	316	440.71	-28.2%	375.19	-15.7%	358	357	0.3%
FREIGHT MARKETS	11	12.76	-11.8%	0.86	1212.6%	7	10	-27.5%
PLASTICS	14	11.9	17.6%	12.86	8.9%	25	20	22.6%
NYH NO 2 CRACK SPREAD CAL	11	42.38	-75.2%	20	-47.5%	57	90	-36.9%
TRANSCO ZONE 6 BASIS SWAP	0	43.57	-100.0%	40.76	-100.0%	15	59	-74.9%
NYISO A	0	0	-	0	-	0	0	-
MINY NATURAL GAS	2,017	2,304.38	-12.5%	1,351.29	49.3%	1,243	1,345	-7.6%
HEATING OIL PHY	175,221	157,986.05	10.9%	169,013.24	3.7%	173,690	156,307	11.1%
DOMINION TRANSMISSION INC	0	304.62	-100.0%	214.67	-100.0%	212	914	-76.8%
TCO BASIS SWAP	0	31.81	-100.0%	31.76	-100.0%	36	136	-73.8%
PJM MONTHLY	0	0	-	0	-	0	12	-95.9%
EL PASO PERMIAN INDEX SWA	0	0	-	0	-	0	6	-100.0%
WAHA INDEX SWAP FUTURE	0	0	-	0	-	0	35	-100.0%
NY HARBOR HEAT OIL SWP	63	239.24	-73.8%	50.81	23.5%	99	116	-15.3%
EASTERN RAIL DELIVERY CSX	1	38.1	-98.0%	0.71	5.0%	19	59	-67.3%
HTG OIL	0	3.62	-100.0%	0	-	1	22	-93.9%
EUROPE 3.5% FUEL OIL MED	2	23.29	-90.8%	15.24	-85.9%	7	18	-61.5%
AEP-DAYTON HUB DAILY	0	0	-	0	-	0	0	-
PJM OFF-PEAK LMP SWAP FUT	0	0	-	0	-	0	1	-100.0%
AEP-DAYTON HUB OFF-PEAK M	0	0	-	0	-	0	0	-
DOMINION TRAN INC - APP I	0	0	-	139.05	-100.0%	12	79	-85.4%
TENNESSEE ZONE 0 BASIS SW	0	0	-	23.05	-100.0%	2	12	-84.0%
NEW YORK HUB ZONE J PEAK	0	0	-	0	-	0	0	-
TD3 MEG TO JAPAN 250K MT	18	0	-	0	-	2	0	-
FUELOIL SWAP:CARGOES VS.B	6	9.05	-38.1%	8.14	-31.2%	12	16	-23.1%
MINY HTG OIL	0	0.24	-37.0%	0.19	-21.3%	0	0	-66.5%
BRENT CALENDAR SWAP	212	127.14	67.0%	121.67	74.5%	139	88	59.0%
EURO GASOIL 10PPM VS ICE	0	4.86	-100.0%	0.24	-100.0%	2	3	-45.8%
WTI-BRENT CALENDAR SWAP	2,101	454.38	362.3%	1,812.19	15.9%	1,002	545	83.9%
CENTERPOINT BASIS SWAP	0	0	-	22.14	-100.0%	4	52	-92.4%
PJM NILL DA OFF-PEAK	0	5,336.19	-100.0%	92.57	-100.0%	2,748	4,709	-41.6%
PANHANDLE INDEX SWAP FUTU	0	0	-	0	-	0	14	-100.0%

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<b>Energy Futures</b>								
PJM NILL DA PEAK	0	53.71	-100.0%	7.62	-100.0%	157	193	-18.4%
CIN HUB 5MW REAL TIME PK	0	85.24	-100.0%	0	-	102	271	-62.3%
MINY WTI CRUDE OIL	8,382	10,888.14	-23.0%	11,199	-25.2%	11,960	13,417	-10.9%
JAPAN C&F NAPHTHA SWAP	82	81.67	0.0%	74.48	9.7%	73	62	19.1%
LLS (ARGUS) VS WTI SWAP	452	203.81	121.5%	392.33	15.1%	259	283	-8.4%
RBOB PHY	168,424	153,403.76	9.8%	177,016.43	-4.9%	198,848	180,272	10.3%
NEPOOL RHD ISLD 5MW D AH	0	0	-	0	-	0	0	-
NEPOOL NE MASS 5MW D AH O	0	0	-	0	-	56	0	-
NEPOOL NEW HAMP 5MW D AH	0	0	-	0	-	0	0	-
CIN HUB 5MW REAL TIME O P	0	7,782.86	-100.0%	0	-	1,582	4,827	-67.2%
LTD NAT GAS	15,779	18,614.43	-15.2%	14,921.1	5.8%	14,102	11,739	20.1%
NORTHWEST ROCKIES BASIS S	0	76	-100.0%	0	-	12	725	-98.3%
SINGAPORE 380CST BALMO	8	8.29	-0.4%	17.76	-53.6%	11	8	39.9%
PJM BGE DA OFF-PEAK	0	0	-	0	-	0	93	-100.0%
ULSD 10PPM CIF MED VS ICE	0	0.86	-100.0%	0.71	-100.0%	0	1	-58.9%
GULF COAST JET FUEL CLNDR	14	5.71	146.7%	2.14	558.0%	5	8	-33.7%
HEATING OIL CRCK SPRD BAL	0	0	-	0	-	0	0	-100.0%
SINGAPORE GASOIL SWAP	83	586.9	-85.9%	55.38	49.3%	361	324	11.5%
CHICAGO ULSD PL VS HO SPR	29	7.14	299.0%	7.38	286.1%	9	11	-23.2%
CIN HUB 5MW D AH PK	61	55.43	10.1%	28.57	113.5%	78	88	-11.5%
PJM AD HUB 5MW REAL TIME	0	12,514.71	-100.0%	708.57	-100.0%	1,240	6,498	-80.9%
TC5 RAS TANURA TO YOKOHAM	4	0	-	0	-	0	0	402.2%
Sumas Basis Swap	0	0	-	0	-	25	72	-65.3%
RBOB CRACK SPREAD	28	165.67	-83.2%	30.95	-10.3%	45	75	-39.3%
NGPL TEX/OK	0	89.52	-100.0%	51.43	-100.0%	37	134	-72.7%
EURO GASOIL 10 CAL SWAP	0	0	-	0	-	0	0	-100.0%
HENRY HUB INDEX SWAP FUTU	0	115.14	-100.0%	0	-	201	722	-72.1%
WTI-BRENT BULLET SWAP	13	0	-	0	-	5	2	131.7%
NYISO J OFF-PEAK	0	0	-	0	-	0	0	-100.0%
EAST/WEST FUEL OIL SPREAD	0	1.43	-100.0%	0	-	5	2	216.6%
TENNESSEE 500 LEG BASIS S	0	0	-	0	-	2	6	-73.6%
NORTHEN NATURAL GAS DEMAR	0	5.9	-100.0%	0	-	0	16	-100.0%
NEW ENGLAND HUB PEAK DAIL	0	0	-	0	-	0	0	-
HOUSTON SHIP CHANNEL INDE	0	0	-	0	-	0	1	-100.0%
ROCKIES KERN OPAL - NW IN	0	0	-	0	-	0	4	-100.0%
APPALACHIAN COAL (PHY)	0	0	-	0	-	0	1	-100.0%
WTI CALENDAR	2,107	2,530.62	-16.7%	1,764.52	19.4%	1,785	1,539	16.0%
CINERGY HUB PEAK MONTH	0	0	-	0	-	0	0	-
CHICAGO ULSD (PLATTS) SWA	0	0	-	0	-	0	0	-
RBOB CALENDAR SWAP	194	353.48	-45.1%	377.33	-48.6%	334	320	4.3%
AEP-DAYTON HUB MTHLY	0	0	-	0	-	0	1	-100.0%
CRUDE OIL PHY	1,010,235	1,141,951.67	-11.5%	1,315,986	-23.2%	1,235,270	1,098,287	12.5%
N ILLINOIS HUB MTHLY	0	0	-	0	-	0	0	-
RBOB (PLATTS) CAL SWAP	0	0	-	0	-	0	1	-100.0%
NEW YORK ETHANOL SWAP	79	41.43	89.5%	52.62	49.2%	43	71	-39.2%
LA CARB DIESEL (OPIS)	0	0	-	0	-	0	0	-100.0%
GASOIL BULLET SWAP	17	0	-	0	-	2	0	-
RBOB SPREAD (PLATTS) SWAP	0	0	-	0	-	0	0	-
EURO PROPANE CIF ARA SWA	52	53.52	-3.2%	82.86	-37.5%	61	63	-2.8%

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	ADV DEC 2017	ADV DEC 2016	% CHG	ADV NOV 2017	% CHG	ADV Y.T.D 2017	ADV Y.T.D 2016	% CHG
<b>Energy Futures</b>								
LA CARBOB GASOLINE(OPIS)S	23	0	-	14.29	57.5%	13	24	-45.6%
MCCLOSKEY ARA ARG S COAL	955	2,362.57	-59.6%	1,344.71	-29.0%	1,997	7,118	-72.0%
MCCLOSKEY RCH BAY COAL	128	424.1	-69.8%	125.48	2.2%	221	760	-70.9%
MGF FUT	0	0	-	1.43	-100.0%	1	0	217.3%
MNC FUT	92	191.67	-51.9%	130.95	-29.6%	182	190	-4.0%
DLY GAS EURO-BOB OXY	0	0	-	0	-	0	0	-100.0%
MG1 SWAP FUT	3	6.67	-61.0%	3.33	-22.0%	4	7	-33.1%
UCM FUT	0	0.48	-100.0%	1.43	-100.0%	1	1	-16.1%
MJC FUT	12	0	-	5.48	114.6%	6	4	72.8%
UP DOWN GC ULSD VS NMX HO	1,746	1,736.52	0.5%	1,990.57	-12.3%	2,197	2,460	-10.7%
HOUSTON SHIP CHANNEL BASI	0	68.95	-100.0%	260.95	-100.0%	37	126	-70.8%
FUEL OIL CRACK VS ICE	82	128.76	-36.7%	75.62	7.8%	163	203	-19.5%
NGPL TEXOK INDEX	0	0	-	0	-	0	1	-100.0%
NATURAL GAS	7,611	6,354.24	19.8%	5,470.33	39.1%	6,650	6,261	6.2%
HUSTN SHIP CHNL PIPE SWP	0	0	-	0	-	3	0	-
N ROCKIES PIPE SWAP	0	0	-	0	-	1	0	-
SOCAL PIPE SWAP	0	0	-	0	-	0	23	-100.0%
PANHANDLE PIPE SWAP	0	0	-	0	-	13	0	-
GAS EURO-BOB OXY NWE BARGES	731	880.76	-17.1%	813.76	-10.2%	889	701	26.7%
MONT BELVIEU NATURAL GASOLIN	1,085	222.38	387.9%	749.05	44.9%	341	363	-6.2%
ONTARIO POWER SWAPS	0	5	-95.0%	0	-	5	20	-76.4%
DAILY PJM	0	0	-	0	-	0	11	-100.0%
BRENT OIL LAST DAY	64,730	99,917.86	-35.2%	74,779.52	-13.4%	87,012	94,100	-7.5%
SINGAPORE GASOIL CALENDAR	25	3.71	570.4%	23.48	6.1%	15	3	463.1%
MARS (ARGUS) VS WTI TRD M	1,265	684.76	84.7%	1,813.67	-30.3%	1,036	557	86.1%
MARS (ARGUS) VS WTI SWAP	126	301.19	-58.2%	65.24	93.1%	146	215	-32.2%
SINGAPORE JET KERO BALMO	0	0	-	0	-	2	1	245.0%
WTS (ARGUS) VS WTI TRD MT	0	7.71	-100.0%	77.43	-100.0%	40	49	-19.4%
DUBAI CRUDE OIL BALMO	3	0	-	0	-	0	1	-81.7%
EURO 1% FUEL OIL NEW BALM	0	0.29	-100.0%	0	-	0	1	-92.5%
PREMIUM UNLD 10P FOB MED	3	4.67	-46.4%	9.19	-72.8%	4	11	-68.2%
GASOIL 0.1 CRG CIF NW VS	0	0	-	0	-	0	0	-100.0%
3.5% FUEL OIL CID MED SWA	0	15.52	-100.0%	3.33	-100.0%	4	13	-68.4%
JET FUEL CRG CIF NEW VS I	0	0	-	0.1	-100.0%	0	0	114.3%
ARGUS PROPAN FAR EST INDE	194	49.29	293.3%	187.24	3.5%	129	72	78.2%
ULSD 10PPM CIF VS ICE GAS	0	0	-	0	-	0	0	-100.0%
SINGAPORE NAPHTHA BALMO	0	0	-	0	-	0	0	-100.0%
NYISO ZONE G 5MW D AH PK	153	267.62	-42.8%	121.9	25.7%	242	160	51.2%
GASOIL 0.1 BRGS FOB VS IC	0	0	-	0	-	0	0	-100.0%
NYMEX ULSD VS NYMEX HO	0	0	-	0	-	0	0	-
RBOB VS HEATING OIL SWAP	33	208.33	-84.4%	9.52	241.3%	71	87	-18.8%
GULF COAST ULSD CRACK SPR	0	4.76	-100.0%	0	-	15	28	-44.3%
USGC UNL 87 CRACK SPREAD	0	0	-	0	-	0	1	-100.0%
JET FUEL BRG FOB RDM VS I	0	0	-	0	-	0	0	151.9%
TENNESSEE 800 LEG NG BASI	0	0	-	0	-	0	6	-100.0%
NEPOOL W CNTR M 5MW D AH	0	0	-	0	-	0	7	-100.0%
DATED TO FRONTLINE BRENT	0	58.57	-100.0%	19.05	-100.0%	58	87	-33.5%
PJM APS ZONE DA PEAK	0	0	-	0	-	0	0	-
PJM BGE DA PEAK	0	0	-	0	-	0	5	-100.0%

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<b>Energy Futures</b>								
PJM PPL DA PEAK	0	0	-	0	-	0	0	-
PJM JCPL DA PEAK	0	0	-	0	-	0	0	-
PJM PSEG DA PEAK	0	0	-	0	-	0	20	-100.0%
PJM PSEG DA OFF-PEAK	0	0	-	0	-	0	650	-100.0%
PJM WESTH RT PEAK	736	1,951.19	-62.3%	219.05	236.1%	890	2,608	-65.9%
ALGONQUIN CITYGATES BASIS	0	0	-	0	-	0	32	-100.0%
MICHCON NG INDEX SWAP	0	0	-	0	-	0	9	-100.0%
GASOIL 0.1 CIF MED SWAP	0	0	-	0	-	0	0	-100.0%
ICE GASOIL BALMO SWAP	0	0	-	0	-	0	0	-
ULSD 10PPM CIF MED SWAP	0	0	-	0	-	0	0	-33.1%
EUROPE 1% FUEL OIL NWE CA	3	3.81	-26.5%	0	-	3	6	-50.4%
NEW YORK HUB ZONE G PEAK	0	0	-	0	-	0	0	-
GULF COAST NO.6 FUEL OIL	3,050	2,730.95	11.7%	3,097.57	-1.5%	2,585	2,769	-6.7%
SINGAPORE FUEL 180CST CAL	37	71.71	-48.9%	40.43	-9.3%	48	56	-14.4%
SINGAPORE FUEL OIL SPREAD	5	19	-75.0%	6.9	-31.2%	28	31	-8.1%
NORTHERN ILLINOIS OFF-PEA	0	0	-	0	-	0	0	-
PJM ATSI ELEC	0	0	-	0	-	197	141	39.6%
SING FUEL	0	0.24	-100.0%	2.38	-100.0%	0	0	72.1%
EURO-DENOMINATED PETRO PROD	0	36	-100.0%	0	-	6	4	36.7%
DATED BRENT (PLATTS) DAILY SWA	0	0	-	0	-	6	1	602.7%
GAS EURO-BOB OXY NWE BARGES	178	249.24	-28.5%	152.24	17.1%	288	327	-11.7%
MINY RBOB GAS	0	0.1	110.1%	0.19	5.0%	0	0	0.4%
RBOB UP-DOWN CALENDAR SWA	0	0	-	0	-	0	37	-100.0%
LA JET FUEL VS NYM NO 2 H	0	1.43	-100.0%	0	-	0	3	-97.0%
ANR OKLAHOMA	0	0	-	0	-	0	19	-100.0%
MICHIGAN BASIS	0	46.33	-100.0%	7.43	-100.0%	11	109	-89.9%
TEXAS EASTERN ZONE M-3 BA	0	50.14	-100.0%	43.24	-100.0%	38	334	-88.7%
NORTHERN NATURAL GAS VENTU	0	0	-	2.29	-100.0%	1	37	-98.6%
CIG BASIS	0	24.71	-100.0%	34.76	-100.0%	6	326	-98.2%
PJM DAILY	0	0	-	0	-	0	5	-100.0%
COLUMBIA GULF ONSHORE	0	41.33	-100.0%	0	-	5	16	-66.4%
Tetco STX Basis	0	0	-	0	-	0	6	-100.0%
Transco Zone 3 Basis	0	0	-	0	-	1	4	-70.6%
GULF COAST GASOLINE CLNDR	0	0	-	0	-	0	5	-100.0%
CENTERPOINT EAST INDEX	0	0	-	0	-	0	3	-100.0%
GULF COAST ULSD CALENDAR	19	64.05	-70.4%	2.57	637.0%	24	42	-43.5%
LA CARB DIESEL (OPIS) SWA	5	29.86	-83.3%	5.95	-16.0%	9	31	-71.8%
EURO 3.5% FUEL OIL RDAM B	9	50.43	-83.0%	35.24	-75.7%	20	19	6.6%
EUROPEAN NAPHTHA BALMO	13	13.67	-2.3%	6.43	107.7%	16	9	74.5%
GASOIL MINI CALENDAR SWAP	7	6.86	5.0%	5.67	27.1%	6	11	-41.7%
NY ULSD (ARGUS) VS HEATING OIL	0	83.9	-100.0%	0.62	-100.0%	33	38	-14.0%
PJM PECO ZONE5MW PEAK CAL MO	0	0	-	0	-	0	0	-
EUROPE 1% FUEL OIL RDAM C	0	0.38	-100.0%	0	-	0	1	-72.4%
SAN JUAN BASIS SWAP	0	8.86	-100.0%	0	-	9	302	-97.0%
GULF COAST JET VS NYM 2 H	1,250	1,683.67	-25.7%	1,303.57	-4.1%	1,913	1,542	24.1%
NYMEX ALUMINUM FUTURES	0	0	-	0	-	0	0	-
EURO 3.5% FUEL OIL SPREAD	0	35	-100.0%	8.57	-100.0%	18	38	-53.0%
GASOIL CALENDAR SWAP	0	1.1	-100.0%	0	-	1	1	-30.4%
BRENT FINANCIAL FUTURES	5	9.14	-47.5%	50.57	-90.5%	173	28	520.7%

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<b>Energy Futures</b>								
ICE BRENT DUBAI SWAP	113	527.71	-78.5%	955.95	-88.1%	477	132	262.7%
GASOIL CRACK SPREAD CALEN	120	418.29	-71.4%	352.14	-66.0%	309	257	20.1%
EUROPEAN NAPHTHA CRACK SPR	271	311.76	-13.1%	359.1	-24.6%	322	275	16.9%
CRUDE OIL	262	591.52	-55.8%	858.24	-69.5%	485	607	-20.0%
NEPOOL INTR HUB 5MW D AH	0	415	-100.0%	0	-	1,006	2,242	-55.1%
NEPOOL SE MASS 5MW D AH P	0	0	-	0	-	0	0	-
PJM DAYTON DA OFF-PEAK	0	0	-	0	-	845	218	287.0%
PJM JCPL DA OFF-PEAK	0	0	-	0	-	0	0	-
PJM WESTH RT OFF-PEAK	1,168	26,348.1	-95.6%	1,291.43	-9.6%	8,800	26,740	-67.1%
CHICAGO ETHANOL SWAP	4,780	8,333.71	-42.6%	5,214.81	-8.3%	5,350	5,247	2.0%
HENRY HUB BASIS SWAP	0	95.48	-100.0%	0	-	210	796	-73.6%
HENRY HUB SWAP	11,262	17,067.9	-34.0%	8,779.48	28.3%	9,066	19,850	-54.3%
PREM UNL GAS 10PPM RDAM FOB B	0	0	-	0	-	0	0	0.4%
PREM UNL GAS 10PPM RDAM FOB S	0	0	-	0	-	0	1	-86.4%
MONT BELVIEU NORMAL BUTANE 5	939	1,821.38	-48.5%	2,037.67	-53.9%	1,380	1,370	0.7%
MONT BELVIEU ETHANE 5 DECIMAL	737	2,456.52	-70.0%	600.95	22.6%	1,023	2,344	-56.4%
MONT BELVIEU LDH PROPANE 5 DE	5,026	4,089.48	22.9%	4,819	4.3%	4,471	5,339	-16.3%
SINGAPORE 180CST BALMO	5	1.67	170.0%	5.24	-14.1%	3	2	31.4%
PJM APS ZONE DA OFF-PEAK	0	0	-	0	-	0	0	-
GRP THREE UNL GS (PLT) VS	75	18.81	300.1%	95.48	-21.2%	54	67	-18.5%
JET BARGES VS ICE GASOIL	0	0	-	0	-	0	0	-100.0%
SINGAPORE GASOIL VS ICE	31	384.05	-92.0%	1.9	1522.2%	282	178	58.3%
NATURAL GAS PEN SWP	2,379	4,842.67	-50.9%	4,007.57	-40.6%	3,878	5,279	-26.5%
WESTERN RAIL DELIVERY PRB	0	5	-100.0%	5.71	-100.0%	10	37	-72.9%
EUROPE DATED BRENT SWAP	0	0	-	0	-	10	106	-90.4%
SINGAPORE JET KERO GASOIL	21	224.76	-90.5%	10.71	98.3%	75	57	29.9%
TETCO M-3 INDEX	0	122.29	-100.0%	0	-	0	43	-100.0%
PJM AECO DA PEAK	0	0	-	0	-	0	0	-
GASOIL 10PPM CARGOES CIF	0	0	-	0	-	0	0	-100.0%
WAHA BASIS	36	0	-	0	-	27	177	-84.7%
LA JET (OPIS) SWAP	63	42.86	46.4%	35.24	78.1%	80	88	-8.6%
NY HARBOR 1% FUEL OIL BAL	0	2.38	-100.0%	0	-	0	1	-83.4%
GASOIL 10PPM VS ICE SWAP	0	2.1	-100.0%	0.71	-100.0%	3	4	-23.0%
NY H OIL PLATTS VS NYMEX	0	0	-	0	-	0	0	-
NYISO ZONE G 5MW D AH O P	467	0	-	0	-	3,147	1,764	78.4%
EUROPEAN GASOIL (ICE)	30	532.33	-94.4%	70.95	-57.6%	125	6,247	-98.0%
ULSD UP-DOWN BALMO SWP	453	455.95	-0.8%	322.43	40.3%	249	300	-17.0%
JET FUEL UP-DOWN BALMO CL	222	381.9	-41.8%	196.67	13.0%	322	226	42.2%
EIA FLAT TAX ONHWAY DIESE	15	43.86	-65.7%	5.52	172.5%	32	46	-31.2%
NY 2.2% FUEL OIL (PLATTS)	0	0	-	0	-	0	2	-100.0%
RBOB CRACK SPREAD BALMO S	0	2.86	-100.0%	0	-	0	2	-100.0%
HEATING OIL BALMO CLNDR S	11	0	-	0	-	4	2	121.5%
INDIANA MISO	0	0	-	0	-	0	0	-100.0%
PETROLEUM PRODUCTS ASIA	72	71.67	0.3%	49.62	44.9%	84	66	27.4%
AUSTRIALIAN COKE COAL	6	12	-50.0%	5.71	5.0%	5	19	-74.1%
PETROLEUM PRODUCTS	136	176.19	-22.7%	259.76	-47.6%	144	111	28.9%
COAL SWAP	2	2.62	-14.1%	3.33	-32.5%	7	13	-47.1%
TC2 ROTTERDAM TO USAC 37K	7	0	-	3.81	83.8%	1	0	-
NYISO A OFF-PEAK	0	0	-	0	-	0	0	-

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<b>Energy Futures</b>								
NYISO G OFF-PEAK	0	0	-	0	-	0	0	-
ISO NEW ENGLAND OFF-PEAK	0	0	-	0	-	0	0	-
SINGAPORE 380CST FUEL OIL	535	586.86	-8.8%	395.14	35.4%	464	401	15.8%
SINGAPORE JET KEROSENE SW	0	36.71	-100.0%	16.67	-100.0%	52	33	56.1%
FLORIDA GAS ZONE3 BASIS S	0	0	-	0	-	0	22	-100.0%
TRANSOC ZONE4 BASIS SWAP	0	232.57	-100.0%	0	-	53	114	-53.6%
ANR LOUISIANA BASIS SWAP	0	5.9	-100.0%	0	-	0	1	-100.0%
CINERGY HUB OFF-PEAK MONT	0	0	-	0	-	0	0	-100.0%
DUBAI CRUDE OIL CALENDAR	96	315.71	-69.8%	198.19	-51.8%	334	120	177.8%
NGPL MIDCONTINENT INDEX	0	0	-	0	-	0	31	-100.0%
PANHANDLE BASIS SWAP FUTU	0	86.86	-100.0%	0	-	12	385	-96.8%
SONAT BASIS SWAP FUTURE	0	8.86	-100.0%	0	-	0	2	-100.0%
DIESEL 10P BRG FOB RDM VS	0	4.76	-100.0%	0	-	0	1	-100.0%
FUEL OIL NWE CRACK VS ICE	0	0	-	0	-	0	0	-100.0%
EUROPE 3.5% FUEL OIL RDAM	365	591.19	-38.2%	414.05	-11.7%	340	363	-6.4%
GULF COAST 3% FUEL OIL BA	213	46.9	353.6%	53.9	294.7%	68	38	76.7%
NY1% VS GC SPREAD SWAP	119	176	-32.4%	71.67	66.0%	103	119	-13.3%
GASOIL 0.1 CIF NWE VS ISE	0	0	-	0	-	0	0	-100.0%
JET CIF NWE VS ICE	4	4.76	-26.5%	13	-73.1%	5	4	48.7%
EUROPE JET KERO NWE CALSW	0	0	-	0	-	0	0	177.4%
JAPAN NAPHTHA BALMO SWAP	0	3.86	-89.6%	0	-	6	2	192.9%
ARGUS PROPAN(SAUDI ARAMCO	70	28.38	145.6%	52.67	32.3%	51	40	28.0%
NYISO G	0	0	-	0	-	0	0	-
NYISO J	0	0	-	0	-	0	1	-100.0%
NGPL MID-CONTINENT	0	0	-	28.57	-100.0%	19	119	-84.4%
BRENT BALMO SWAP	0	11.9	-100.0%	0	-	2	9	-74.7%
ULSD 10PPM CIF MED BALMO	0	0	-	0	-	0	0	-100.0%
HENRY HUB SWING FUTURE	0	0	-	0	-	0	1	-100.0%
EUROPE NAPHTHA CALSWAP	112	86.48	29.2%	93.48	19.5%	127	75	69.5%
NY HARBOR RESIDUAL FUEL 1	124	75.71	63.8%	37.14	234.0%	114	155	-26.7%
PERMIAN BASIS SWAP	0	40.76	-100.0%	0	-	6	246	-97.8%
JAPAN C&F NAPHTHA CRACK S	38	27.29	38.4%	39.52	-4.5%	29	20	50.2%
NATURAL GAS INDEX	0	0	-	0	-	3	27	-90.2%
PETRO CRCKS & SPRDS ASIA	40	0	-	18	120.0%	12	5	129.8%
NYISO CAPACITY	0	11.14	-100.0%	6.29	-100.0%	23	19	19.1%
GASOIL 0.1 ROTTERDAM BARG	1	0	-	2.14	-65.0%	1	0	469.2%
GASOIL 0.1 CIF VS ICE GAS	0	0	-	0	-	0	0	302.5%
GRP THREE ULSD(PLT)VS HEA	270	106.52	153.0%	263.57	2.2%	212	130	63.7%
GASOIL 0.1CIF MED VS ICE	0	0	-	0	-	0	1	-74.3%
PJM AECO DA OFF-PEAK	0	0	-	0	-	0	0	-
PJM PPL DA OFF-PEAK	0	0	-	0	-	0	0	-
PJM DAYTON DA PEAK	0	0	-	0	-	21	93	-77.5%
PREMIUM UNLEAD 10PPM FOB	0	1.1	-100.0%	0.48	-100.0%	1	2	-57.4%
PJM WESTH DA OFF-PEAK	0	14,480.95	-100.0%	0	-	216	4,481	-95.2%
GASOIL 0.1 RDAM BRGS VS I	3	0	-	5.71	-47.5%	1	0	196.2%
GASOIL 10P CRG CIF NW VS	0	0	-	0	-	0	0	67.4%
PJM WESTHDA PEAK	0	793.33	-100.0%	0	-	34	247	-86.1%
NEPOOL RHODE IL 5MW D AH	0	0	-	0	-	0	0	-
CHICAGO UNL GAS PL VS RBO	0	0	-	0	-	0	8	-100.0%

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<b>Energy Futures</b>								
ETHANOL	534	835.9	-36.2%	473.48	12.7%	596	685	-13.0%
NYISO ZONE A 5MW D AH O P	0	891.43	-100.0%	0	-	131	1,024	-87.3%
CIN HUB 5MW D AH O PK	0	0	-	0	-	1,299	1,280	1.5%
PJM COMED 5MW D AH O PK	0	0	-	0	-	340	1,022	-66.7%
NYISO ZONE A 5MW D AH PK	21	0	-	0	-	29	26	10.7%
SOUTH STAR TEX OKLHM KNS	0	0	-	0	-	0	9	-100.0%
NY 3.0% FUEL OIL (PLATTS)	8	7.14	5.0%	0	-	14	10	39.7%
ARGUS LLS VS. WTI (ARG) T	1,518	412.52	267.9%	2,626.19	-42.2%	758	574	32.2%
NO 2 UP-DOWN SPREAD CALEN	5	35.71	-86.0%	0	-	15	14	10.6%
N ILLINOIS HUB DAILY	0	0	-	0	-	0	0	-
PROPANE NON-LDH MT. BEL (OPIS)	427	571.62	-25.4%	467.86	-8.8%	347	550	-37.0%
PROPANE NON-LDH MB (OPIS) BAL	16	7.14	127.5%	0	-	21	24	-12.1%
JET AV FUEL (P) CAR FM ICE GAS S	0	0	-	0	-	0	1	-79.0%
SINGAPORE MOGAS 92 UNLEADED	188	586.67	-68.0%	440.43	-57.3%	342	477	-28.4%
NY JET FUEL (PLATTS) HEAT OIL SW	0	0	-	0	-	0	0	-
SINGAPORE MOGAS 92 UNLEADED	14	17.86	-21.6%	12.62	10.9%	8	24	-65.0%
ETHANOL T2 FOB ROTT INCL DUTY	82	264.67	-69.1%	264.71	-69.1%	182	132	37.7%
PJM WES HUB PEAK LMP 50 M	0	0	-	0	-	0	0	-
FUEL OIL (PLATS) CAR CM	0	7.14	-100.0%	0	-	0	5	-98.4%
FUEL OIL (PLATS) CAR CN	0	0	-	0	-	0	0	-100.0%
GROUP THREE ULSD (PLATTS)	0	0	-	0	-	0	1	-58.2%
MICHIGAN MISO	0	0	-	0	-	447	535	-16.5%
INDONESIAN COAL	0	0	-	0	-	0	1	-97.7%
NATURAL GAS FIXED PRICE SWAP F	0	0	-	0	-	1	0	-
NAT GAS BASIS SWAP	0	40.76	-100.0%	20.1	-100.0%	10	151	-93.2%
SUMAS NAT GAS PLATTS FIXED PRI	0	0	-	0	-	1	0	-
ELEC WEST POWER PEAK	0	0	-	0	-	6	21	-71.3%
ELEC WEST POWER OFF-PEAK	0	0	-	0	-	0	7	-100.0%
NY HARBOR LOW SULPUR GAS 100C	0	74.05	-100.0%	0	-	17	26	-34.9%
CRUDE OIL TRADE AT MARKER SIN	0	0	-	0	-	0	0	-
MINI RBOB V. EBOB(ARGUS) NWE B	71	214.48	-67.1%	71.57	-1.4%	104	86	20.6%
CANADIAN LIGHT SWEET OIL	0	21.24	-100.0%	0	-	29	83	-64.7%
MINI RBOB V. EBOBARG NWE BRGS	6	2.38	152.0%	4.29	40.0%	23	15	50.8%
MINI GAS EUROBOB OXY NWE ARG	33	32.86	1.7%	9.29	259.7%	21	22	-0.5%
MARS BLEND CRUDE OIL	160	44.71	258.8%	47.62	236.9%	72	79	-7.8%
DY EURO 3.5% FUEL OI RDA	0	0	-	0	-	6	0	-
3.5% FUEL OIL CIF BALMO S	0	4.29	-100.0%	0	-	1	2	-55.7%
FL GAS ZONE 3 NAT GAS IND	0	0	-	0	-	0	33	-100.0%
CIG ROCKIES NG INDEX SWA	0	0	-	0	-	3	4	-31.4%
TRANSCO ZONE 6 INDEX	0	0	-	0	-	3	27	-87.3%
DEMARC SWING SWAP	0	0	-	0	-	0	0	-100.0%
NGPL MIDCONTINENT SWING S	0	0	-	0	-	0	2	-100.0%
DEMARC INDEX FUTURE	0	0	-	0	-	0	3	-100.0%
CAISO SP15 EZGNHUB5 PEAK	0	0	-	0	-	0	0	-
TCO NG INDEX SWAP	0	0	-	0	-	0	1	-100.0%
ELEC ERCOT DLY OFF PK	0	0	-	0	-	0	0	-
ERCOT DAILY 5MW PEAK	0	0	-	0	-	0	0	-
ELECTRICITY ERCOT PEAK	0	0	-	0	-	3	0	-
ULSD 10PPM CIF NW BALMO S	0	0	-	0	-	0	0	-

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<b>Energy Futures</b>								
DIESEL 10PPM BARGES FOB B	0	0	-	0	-	0	0	-
TRANSCO ZONE 3 NG INDEX S	0	0	-	0	-	25	0	-
<b>Energy Options</b>								
PETRO OUTRIGHT EURO	0	0	-	0	-	1	0	-
PETROCHEMICALS	17	33.81	-49.0%	30.62	-43.7%	52	81	-36.1%
NATURAL GAS OPTION ON CALEND	100	112.38	-11.0%	138.1	-27.6%	58	111	-47.5%
ELEC MISO PEAK	0	0	-	0	-	3	14	-75.9%
HENRY HUB FINANCIAL LAST	320	255.76	25.0%	129.62	146.6%	190	115	66.0%
PETRO OUTRIGHT NA	0	0	-	3.43	-100.0%	0	0	-
NATURAL GAS PHY	190,291	111,621.71	70.5%	146,399.38	30.0%	125,130	108,494	15.3%
CRUDE OIL OUTRIGHTS	0	0	-	0	-	47	9	416.0%
ELEC FINSETTLED	0	0	-	0	-	0	1	-100.0%
EUROPEAN JET KEROSENE NWE (P	0	0	-	0	-	0	0	-100.0%
HEATING OIL PHY	1,917	1,731.38	10.7%	1,632.76	17.4%	1,585	2,426	-34.7%
PJM MONTHLY	0	0	-	0	-	0	0	-
NY HARBOR HEAT OIL SWP	76	336	-77.5%	136.81	-44.7%	147	269	-45.4%
BRENT CALENDAR SWAP	0	81.14	-100.0%	0	-	21	60	-64.8%
NATURAL GAS 3 M CSO FIN	670	30.95	2064.6%	1,238.1	-45.9%	637	905	-29.7%
RBOB PHY	527	500.05	5.4%	659.05	-20.0%	1,174	1,550	-24.3%
SAN JUAN PIPE SWAP	0	0	-	0	-	13	36	-64.3%
NATURAL GAS 2 M CSO FIN	170	21.43	693.3%	95.24	78.5%	60	18	233.2%
SINGAPORE JET FUEL CALEND	0	22.86	-100.0%	0	-	0	6	-100.0%
WTI-BRENT BULLET SWAP	2,949	4,744.05	-37.8%	3,336.86	-11.6%	2,249	1,110	102.7%
CRUDE OIL APO	4,745	4,023.9	17.9%	3,112.62	52.4%	2,550	1,624	57.0%
WTI CRUDE OIL 1 M CSO FI	3,522	8,247.62	-57.3%	6,157.14	-42.8%	3,073	7,348	-58.2%
NATURAL GAS 6 M CSO FIN	653	98.81	560.4%	314.29	107.6%	280	45	526.2%
RBOB CALENDAR SWAP	0	7.57	-100.0%	2.38	-100.0%	11	27	-57.3%
CRUDE OIL PHY	119,294	189,796.67	-37.1%	195,905.19	-39.1%	174,780	184,583	-5.3%
RBOB 1MO CAL SPD OPTIONS	3	0	-	57.14	-95.6%	27	47	-42.7%
MCCLOSKEY ARA ARGS COAL	0	0	-	7.14	-100.0%	6	38	-83.1%
MCCLOSKEY RCH BAY COAL	14	0	-	0	-	1	10	-88.9%
NYISO ZONE G 5MW PEAK OPTIONS	0	0	-	0	-	79	44	78.4%
NATURAL GAS	0	0	-	0	-	2	2	-9.6%
HUSTN SHIP CHNL PIPE SWP	0	0	-	0	-	0	0	-
N ROCKIES PIPE SWAP	0	0	-	0	-	16	26	-38.1%
SOCAL PIPE SWAP	0	0	-	0	-	0	44	-100.0%
PANHANDLE PIPE SWAP	0	0	-	0	-	34	0	-
ETHANOL SWAP	327	583.38	-44.0%	490.29	-33.3%	301	354	-15.1%
SHORT TERM NATURAL GAS	329	201.43	63.3%	339.05	-3.0%	394	276	43.1%
BRENT OIL LAST DAY	3,775	1,206.71	212.8%	3,342.71	12.9%	2,322	1,252	85.5%
SINGAPORE GASOIL CALENDAR	0	0	-	0	-	0	0	-
HEATING OIL CRACK OPTIONS	0	0	-	0	-	0	0	-
EURO-DENOMINATED PETRO PROD	0	0	-	0	-	0	0	-
HEATING OIL CRK SPD AVG PRICE	0	0	-	0	-	0	1	-100.0%
HO 1 MONTH CLNDR OPTIONS	0	0	-	0	-	7	23	-71.1%
CRUDE OIL 1MO	5,206	10,842.29	-52.0%	10,435.24	-50.1%	8,304	11,928	-30.4%

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<b>Energy Options</b>								
ROTTERDAM 3.5%FUEL OIL CL	0	5.71	-100.0%	0	-	0	3	-100.0%
SHORT TERM	199	78.57	153.7%	108.67	83.4%	145	126	15.8%
COAL SWAP	0	0	-	0	-	3	7	-52.8%
NYMEX EUROPEAN GASOIL OPT	0	0	-	0	-	0	0	-
NATURAL GAS 5 M CSO FIN	0	0	-	0	-	16	5	238.8%
NYMEX EUROPEAN GASOIL APO	0	0	-	0	-	0	0	-100.0%
COAL API2 INDEX	4	121.43	-96.9%	16.43	-77.2%	44	629	-93.0%
COAL API4 INDEX	0	0	-	1.43	-100.0%	0	7	-98.2%
NATURAL GAS 1 M CSO FIN	2,801	2,601.19	7.7%	2,036.43	37.5%	1,940	669	189.8%
ETHANOL	0	19.05	-100.0%	0	-	2	2	-10.8%
PJM WES HUB PEAK CAL MTH	7	6.19	13.1%	0	-	16	46	-64.3%
PJM WES HUB PEAK LMP 50MW	22	0	-	37.52	-41.4%	57	47	19.9%
GASOLINE	0	0	-	0	-	0	3	-100.0%
LLS CRUDE OIL	0	0	-	85.71	-100.0%	42	47	-8.8%
1 MO GASOIL CAL SWAP SPR	0	0	-	0	-	0	0	-
NG HH 3 MONTH CAL	0	0	-	0	-	0	2	-100.0%
12 MO GASOIL CAL SWAP SPR	0	0	-	9.52	-100.0%	3	0	-
BRENT CRUDE OIL 12 M CSO	0	0	-	0	-	8	0	-
<b>Metals Futures</b>								
PALLADIUM	3,645	4,344	-16.1%	7,296.05	-50.0%	5,589	5,698	-1.9%
NYMEX PLATINUM	28,477	20,151.05	41.3%	18,143.05	57.0%	19,331	15,849	22.0%
NYMEX HOT ROLLED STEEL	277	129.38	113.7%	218.95	26.3%	252	214	17.8%
URANIUM	47	13.71	243.1%	46.57	1.0%	25	30	-15.4%
COMEX SILVER	69,405	54,072.81	28.4%	120,929.24	-42.6%	91,773	72,297	26.9%
COMEX GOLD	259,329	167,693.9	54.6%	410,635.14	-36.8%	290,048	228,432	27.0%
COMEX COPPER	117,658	68,275.19	72.3%	142,496.62	-17.4%	107,775	85,415	26.2%
COMEX MINY COPPER	31	26.62	17.8%	29.95	4.7%	33	26	24.4%
COPPER	197	3.1	6272.8%	163.67	20.5%	36	15	132.5%
E-MICRO GOLD	4,152	2,822.86	47.1%	5,353.38	-22.4%	4,548	3,877	17.3%
SILVER	242	308.33	-21.4%	374.57	-35.3%	283	405	-30.0%
FERROUS PRODUCTS	4	0	-	8.1	-53.7%	6	4	51.3%
METALS	0	0	-	0	-	0	0	-100.0%
ALUMINUM	817	272.86	199.4%	471.33	73.3%	624	438	42.4%
GOLD	0	0	-	0	-	0	0	-49.4%
Gold Kilo	5	177.38	-97.1%	13.57	-61.7%	15	223	-93.4%
LNDN ZINC	1	0.14	459.8%	0.48	68.0%	1	1	-38.4%
IRON ORE 62 CHINA PLATTS FUTUR	0	0	-	41.43	-100.0%	38	12	209.9%
IRON ORE 62 CHINA TSI FUTURES	145	659.1	-77.9%	176.19	-17.4%	360	791	-54.6%
COMEX E-Mini GOLD	250	346	-27.9%	338.43	-26.2%	368	517	-28.7%
COMEX E-Mini SILVER	41	48.14	-15.5%	38.38	6.0%	39	59	-35.0%

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<b>Metals Options</b>								
PALLADIUM	83	201.52	-58.9%	326.95	-74.7%	266	167	59.3%
NYMEX PLATINUM	315	269.05	17.2%	176.14	79.0%	147	211	-30.4%
COMEX SILVER	5,599	3,816.76	46.7%	4,987.52	12.3%	5,733	5,459	5.0%
COMEX GOLD	37,362	34,952.81	6.9%	35,158.43	6.3%	39,412	39,349	0.2%
COMEX COPPER	1,006	87.29	1053.1%	603.57	66.7%	428	153	180.5%
SILVER	7	22.76	-69.5%	1.81	284.1%	7	11	-31.9%
GOLD	1,556	305.05	410.0%	1,196.76	30.0%	758	237	219.9%
IRON ORE 62 CHINA TSI PUT OPTIO	0	16.9	-100.0%	35.71	-100.0%	104	129	-19.1%
IRON ORE 62 CHINA TSI CALL OPTIC	0	7.62	-100.0%	61.14	-100.0%	72	158	-54.3%
HOT ROLLED COIL STEEL CALL OPT	60	0	-	0	-	6	0	-
<b>Foreign Exchange Futures</b>								
CHILEAN PESO	204	0	-	180.95	12.8%	138	0	348641.1%
<b>Foreign Exchange Options</b>								
AUD/USD PQO 2pm Fix	7	0	-	30.19	-77.1%	3	0	-
<b>Ags Futures</b>								
FERTILIZER PRODUCS	38	0	-	85.71	-56.3%	23	0	-
<b>TOTAL FUTURES GROUP</b>								
Interest Rate Futures	5,182,540	5,432,509.48	-4.6%	7,319,330.33	-29.2%	6,073,198	5,713,783	6.3%
Equity Index Futures	2,290,052	2,190,439.09	4.5%	1,962,650.38	16.7%	2,001,034	2,419,876	-17.3%
Metals Futures	484,723	319,344.57	51.8%	706,775.1	-31.4%	521,143	414,304	25.8%
Energy Futures	2,042,079	2,237,420.57	-8.7%	2,314,117.67	-11.8%	2,251,335	2,107,002	6.9%
FX Futures	963,986	823,990.29	17.0%	831,291.29	16.0%	842,596	781,555	7.8%
Commodities and Alternative Invest	952,256	868,512.05	9.6%	1,355,155.67	-29.7%	1,123,036	1,077,824	4.2%
Foreign Exchange Futures	204	0	-	180.95	12.8%	138	0	348641.1%
Ags Futures	38	0	-	85.71	-56.3%	23	0	-
<b>TOTAL FUTURES</b>	<b>11,915,878</b>	<b>11,872,216.05</b>	<b>0.4%</b>	<b>14,489,587.1</b>	<b>-17.8%</b>	<b>12,812,503.04</b>	<b>12,514,342.83</b>	<b>2.4%</b>
<b>TOTAL OPTIONS GROUP</b>								
Interest Rate Options	1,720,206	1,901,488.33	-9.5%	2,028,744.09	-15.2%	2,116,143	1,802,859	17.4%
Equity Index Options	656,542	644,902.62	1.8%	757,608.43	-13.3%	672,403	636,383	5.7%
Metals Options	45,988	39,679.76	15.9%	42,548.05	8.1%	46,934	45,873	2.3%
Energy Options	337,935	337,332.05	0.2%	376,258.86	-10.2%	325,835	324,469	0.4%
FX Options	63,061	62,567	0.8%	83,371.57	-24.4%	77,835	71,981	8.1%
Commodities and Alternative Invest	166,276	166,067.76	0.1%	201,350.52	-17.4%	238,813	247,687	-3.6%
Foreign Exchange Options	7	0	-	30.19	-77.1%	3	0	-
<b>TOTAL OPTIONS</b>	<b>2,990,014</b>	<b>3,152,037.52</b>	<b>-5.1%</b>	<b>3,489,911.72</b>	<b>-14.3%</b>	<b>3,477,966.05</b>	<b>3,129,252.49</b>	<b>11.1%</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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	ADV DEC 2017	ADV DEC 2016	% CHG	ADV NOV 2017	% CHG	ADV Y.T.D 2017	ADV Y.T.D 2016	% CHG
<b>TOTAL COMBINED</b>								
Commodities and Alternative Invest	1,118,532	1,034,579.81	8.1%	1,556,506.19	-28.1%	1,361,849	1,325,511	2.7%
FX	1,027,047	886,557.29	15.8%	914,662.86	12.3%	920,431	853,536	7.8%
Equity Index	2,946,594	2,835,341.71	3.9%	2,720,258.81	8.3%	2,673,437	3,056,258	-12.5%
Interest Rate	6,902,746	7,333,997.81	-5.9%	9,348,074.43	-26.2%	8,189,341	7,516,642	8.9%
Energy	2,380,014	2,574,752.62	-7.6%	2,690,376.52	-11.5%	2,577,169	2,431,472	6.0%
Metals	530,711	359,024.33	47.8%	749,323.14	-29.2%	568,077	460,177	23.4%
Foreign Exchange	211	0	-	211.14	-0.1%	142	0	356388.4%
Ags	38	0	-	85.71	-56.3%	23	0	-
<b>GRAND TOTAL</b>	<b>14,905,892</b>	<b>15,024,253.57</b>	<b>-0.8%</b>	<b>17,979,498.81</b>	<b>-17.1%</b>	<b>16,290,469.09</b>	<b>15,643,595.32</b>	<b>4.1%</b>

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