

**CME Group Exchange ADV Report - Monthly**

November 2017

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	ADV NOV 2017	ADV NOV 2016	% CHG	ADV OCT 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	2	-100.0%
CDD SEASONAL STRIP	0	0	-	0	-	5	7	-30.2%
CDD WEATHER	0	0	-	0	-	114	15	677.8%
HDD WEATHER EUROPEAN	0	0	-	0	-	2	3	-38.5%
HDD WEATHER	12	76.24	-84.4%	13.64	-12.7%	7	15	-51.5%
HOUSING INDEX	0	2.19	-95.7%	0.41	-76.7%	1	1	-4.3%
USD CRUDE PALM OIL	75	0	-	92.73	-18.9%	22	11	106.6%
CAT EURO SEASONAL STRIP	0	0	-	0	-	0	1	-100.0%
MILK	1,300	1,339.71	-3.0%	1,009.32	28.8%	1,275	1,231	3.6%
HDD EURO SEASONAL STRIP	0	0	-	0	-	0	1	-100.0%
CASH-SETTLED CHEESE	734	350.24	109.5%	503.5	45.7%	500	476	5.1%
LIVE CATTLE	71,505	59,881.19	19.4%	55,822.55	28.1%	65,692	52,174	25.9%
BUTTER CS	184	136.24	35.0%	165.27	11.3%	157	158	-0.3%
LUMBER	892	646.38	38.1%	986.95	-9.6%	808	702	15.2%
DRY WHEY	88	86.71	1.3%	48.55	80.9%	83	61	35.0%
CLASS IV MILK	20	67.52	-70.6%	23.14	-14.2%	44	55	-20.4%
NFD MILK	187	195.9	-4.5%	315.59	-40.7%	238	225	5.8%
GSCI EXCESS RETURN FUT	94	18.86	400.0%	15.77	497.8%	1,401	1,100	27.4%
LEAN HOGS	52,296	43,590.05	20.0%	43,436.55	20.4%	45,501	36,196	25.7%
FEEDER CATTLE	11,814	9,107.76	29.7%	14,947.36	-21.0%	14,143	10,116	39.8%
MLK MID	0	0	-	0	-	0	0	-
GOLDMAN SACHS	1,598	1,829.14	-12.6%	1,568.18	1.9%	1,624	1,409	15.3%
COCOA TAS	0	0.67	-92.9%	0.14	-65.1%	0	11	-96.6%
SUGAR 11	0	0.14	-100.0%	0	-	0	2	-90.0%
COFFEE	0	0.05	0.0%	0	-	0	1	-75.7%
COTTON	0	0.1	50.1%	0	-	0	2	-96.7%
MINI WHEAT	240	296.76	-19.1%	165.32	45.3%	281	305	-7.8%
CORN	508,848	396,176.38	28.4%	267,210.32	90.4%	372,284	353,428	5.3%
SOYBEAN MEAL	123,379	102,709.19	20.1%	80,989.64	52.3%	101,756	103,443	-1.6%
SOYBEAN OIL	148,957	149,749.52	-0.5%	96,610.5	54.2%	119,175	116,145	2.6%
ROUGH RICE	765	634.38	20.6%	1,304.91	-41.4%	1,070	1,168	-8.4%
DOW-UBS COMMOD INDEX	2,759	1,546.1	78.5%	3,488.05	-20.9%	4,025	1,536	162.1%
MINI SOYBEAN	730	1,484.9	-50.9%	1,239.73	-41.1%	806	1,191	-32.3%
WHEAT	28	305.95	-90.7%	22	29.4%	522	310	68.4%
OATS	931	1,020.71	-8.7%	523.73	77.9%	688	931	-26.1%
SOYBEAN	177,449	194,526.86	-8.8%	276,144.95	-35.7%	213,378	246,057	-13.3%
MINI CORN	704	755.67	-6.9%	293.27	140.0%	477	586	-18.6%
FERTILIZER PRODUCTS	116	131.67	-11.6%	124.55	-6.5%	85	95	-10.9%
S&P GSCI ENHANCED ER SWAP	0	0	-	91.14	-100.0%	451	357	26.5%
Intercommodity Spread	0	0	-	0	-	0	0	-
KC WHEAT	73,329	53,363.48	37.4%	32,919.05	122.8%	51,785	39,242	32.0%
MALAYSIAN PALM SWAP	266	331.24	-19.8%	378	-29.7%	438	450	-2.8%
DJ_UBS ROLL SELECT INDEX FUTU	0	0	-	18.64	-100.0%	32	13	152.8%
PALM OIL	0	0	-	0	-	0	0	-
CHI WHEAT	175,854	155,716.57	12.9%	100,037.41	75.8%	138,954	127,626	8.9%

**Commodities and Alternative Investments Options**

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HDD SEASONAL STRIP	214	47.62	350.0%	45.45	371.4%	69	84	-17.9%
CDD SEASONAL STRIP	0	0	-	0	-	12	127	-90.4%
CDD WEATHER	0	0	-	0	-	203	4	4600.0%
HDD WEATHER EUROPEAN	0	0	-	0	-	6	24	-72.7%
HDD WEATHER	0	0	-	0	-	5	4	25.0%
HOUSING INDEX	0	0	-	0	-	0	0	155.6%
LV CATL CSO	0	0.24	-100.0%	2.41	-100.0%	9	1	630.3%
MILK	1,993	1,531.67	30.1%	1,534.68	29.9%	1,700	1,427	19.2%
HDD EURO SEASONAL STRIP	119	0	-	0	-	11	11	0.0%
CASH-SETTLED CHEESE	637	305.52	108.4%	813.23	-21.7%	448	355	26.0%
LIVE CATTLE	11,715	12,289.86	-4.7%	12,518.09	-6.4%	11,732	16,403	-28.5%
BUTTER CS	145	59.95	141.8%	126.95	14.2%	90	59	51.8%
LUMBER	129	53.24	142.8%	80.27	61.1%	63	50	27.1%
DRY WHEY	65	3.57	1708.0%	66.32	-2.6%	29	4	542.8%
CLASS IV MILK	90	51.1	76.7%	84.55	6.8%	84	52	61.2%
NFD MILK	224	63.67	251.3%	320.32	-30.2%	209	145	43.5%
LEAN HOGS	10,371	7,367.48	40.8%	11,622.5	-10.8%	10,381	8,703	19.3%
FEEDER CATTLE	1,349	1,487.38	-9.3%	1,739.59	-22.5%	1,637	1,658	-1.3%
MLK MID	7	8	-15.5%	4	69.0%	3	3	0.8%
JULY-DEC WHEAT CAL SPRD	0	4.76	-100.0%	0	-	7	146	-95.2%
CORN	76,059	62,184	22.3%	76,881.91	-1.1%	99,471	93,996	5.8%
SOYBEAN MEAL	8,170	7,141.05	14.4%	5,970.36	36.8%	8,255	9,235	-10.6%
SOYBEAN OIL	9,267	9,565.71	-3.1%	7,215.09	28.4%	8,368	9,237	-9.4%
AUG-NOV SOYBEAN CAL SPRD	0	0	-	0	-	0	0	414.9%
DEC-JULY CORN CAL SPRD	14	301.43	-95.4%	311.36	-95.6%	173	115	50.3%
DEC-DEC CORN CAL SPRD	0	0.81	-100.0%	0	-	52	77	-32.6%
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	-	1.95	-100.0%	1	13	-94.5%
ROUGH RICE	126	72.05	74.5%	84.18	49.3%	103	83	24.2%
WHEAT	5	2.48	92.3%	1.18	302.9%	7	2	279.0%
WHEAT-CORN ICSD	48	85.71	-43.6%	9.09	431.7%	33	76	-56.7%
CORN NEARBY+2 CAL SPRD	95	115.62	-17.4%	0	-	69	153	-55.1%
SOYBN NEARBY+2 CAL SPRD	0	0	-	0	-	5	6	-24.3%
WHEAT NEARBY+2 CAL SPRD	66	364.95	-81.8%	115.91	-42.7%	75	234	-67.9%
SOYMEAL NEARBY+2 CAL SPRD	0	0	-	0	-	0	16	-100.0%
JULY-DEC CORN CAL SPRD	0	0	-	0	-	75	159	-52.7%
DEC-JULY WHEAT CAL SPRD	19	3.57	445.3%	36.36	-46.4%	9	3	261.5%
JULY-NOV SOYBEAN CAL SPRD	0	150.76	-99.7%	0	-	307	284	7.9%
OATS	47	149.67	-68.3%	48.95	-3.1%	58	75	-22.4%
SOYBEAN	56,029	58,756.05	-4.6%	58,299.18	-3.9%	68,487	82,367	-16.9%
JULY-DEC SOY OIL CAL SPRD	0	47.62	-100.0%	0	-	3	4	-36.0%
SOYBEAN CRUSH	4	0.95	280.0%	0.91	298.1%	3	21	-85.1%
AUG-DEC SOYBEAN MEAL CSO	0	0	-	0	-	0	0	-100.0%
Intercommodity Spread	0	2.43	-100.0%	0	-	3	15	-79.7%
KC WHEAT	1,300	913.05	42.4%	1,248.73	4.1%	2,153	1,416	52.0%
MAR-JULY WHEAT CAL SPRD	10	33.33	-71.4%	0	-	7	10	-33.2%
MAR-JULY CORN CAL SPRD	0	0	-	0	-	0	10	-97.1%

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CHI WHEAT	23,032	26,513.38	-13.1%	21,725.82	6.0%	30,672	28,237	8.6%
<b>FX Futures</b>								
TURKISH LIRA	18	0.14	12229.6%	15	17.5%	82	0	95188.1%
JAPANESE YEN	166,489	185,208.19	-10.1%	155,698.73	6.9%	166,627	144,749	15.1%
KOREAN WON	7	0.24	2900.0%	1.59	349.0%	2	1	169.2%
CD/JY CROSS RATES	0	0.19	-100.0%	0	-	6	0	9838.7%
CANADIAN DOLLAR	67,638	76,868.57	-12.0%	70,869.77	-4.6%	75,676	74,823	1.1%
AD/NE CROSS RATES	2	0.52	363.7%	5.91	-58.9%	5	3	49.5%
BRITISH POUND	140,039	127,554.19	9.8%	116,860.59	19.8%	121,568	115,230	5.5%
RUSSIAN RUBLE	2,654	1,557.62	70.4%	1,074.91	146.9%	2,421	1,726	40.3%
SWISS FRANC	25,104	28,763.1	-12.7%	25,069.18	0.1%	27,111	23,130	17.2%
NEW ZEALND DOLLAR	24,700	27,068.57	-8.7%	26,674.91	-7.4%	25,083	23,297	7.7%
BP/JY CROSS RATES	201	81.48	146.6%	147.73	36.0%	155	88	76.5%
SHEKEL	2	0	-	9.18	-81.8%	2	0	-
E-MICRO USD/CAD	0	0	-	0	-	0	0	-100.0%
E-MICRO GBP/USD	2,649	6,400.48	-58.6%	2,505.91	5.7%	2,737	4,223	-35.2%
E-MICRO USD/CHF	0	0	-	0	-	0	0	-100.0%
E-MICRO EUR/USD	10,846	15,388.71	-29.5%	10,493.55	3.4%	11,991	13,281	-9.7%
E-MICRO USD/JPY	0	0	-	0	-	0	0	-100.0%
E-MICRO AUD/USD	3,982	5,988	-33.5%	3,715.32	7.2%	4,097	4,971	-17.6%
AUSTRALIAN DOLLAR	94,298	110,236.38	-14.5%	102,298.36	-7.8%	95,618	102,007	-6.3%
E-MINI JAPANESE YEN	520	1,709.67	-69.6%	470.5	10.5%	1,340	1,567	-14.5%
EFX/JY CROSS RATES	2,682	1,846.57	45.2%	2,452.5	9.4%	3,266	2,021	61.6%
RMB USD	0	8.86	-99.5%	0.18	-73.8%	1	15	-90.9%
EFX/BP CROSS RATES	3,354	2,803.29	19.6%	2,822.5	18.8%	3,751	3,725	0.7%
EFX/SF CROSS RATES	822	1,334.76	-38.4%	1,058.68	-22.4%	1,738	1,805	-3.7%
INDIAN RUPEE	3,326	1,167.33	185.0%	2,428.73	37.0%	1,852	628	195.2%
EC/SEK CROSS RATES	58	7.71	656.2%	40.36	44.5%	38	12	218.9%
S.AFRICAN RAND	1,868	1,358.9	37.5%	2,095.82	-10.9%	2,604	897	190.4%
MEXICAN PESO	48,837	69,307.24	-29.5%	53,209.09	-8.2%	50,676	56,390	-10.1%
EURO FX	218,745	218,894.52	-0.1%	213,851.05	2.3%	220,752	191,894	15.0%
SF/JY CROSS RATES	0	0	-	0	-	0	0	-
EC/CD CROSS RATES	112	116.9	-4.6%	188.32	-40.8%	209	120	73.6%
EC/NOK CROSS RATES	36	0	-	32.91	10.8%	13	0	32045.6%
EC/AD CROSS RATES	82	44.05	86.1%	94.86	-13.6%	150	80	87.1%
BP/SF CROSS RATES	8	2.19	280.4%	1.82	358.3%	4	2	91.2%
E-MINI EURO FX	4,274	4,340.43	-1.5%	3,682.55	16.1%	4,484	3,639	23.2%
MICRO CHF/USD	64	81.29	-21.1%	49.82	28.7%	48	89	-46.3%
POLISH ZLOTY (EC)	1	2	-54.8%	0.32	184.3%	2	86	-98.0%
AD/JY CROSS RATES	75	176.62	-57.8%	118	-36.8%	128	190	-32.3%
AD/CD CROSS RATES	0	0.24	-100.0%	3.32	-100.0%	4	0	1320.4%
POLISH ZLOTY (US)	15	148.67	-90.0%	2.18	583.1%	16	74	-78.7%
SKR/USD CROSS RATES	71	47.57	50.2%	69.73	2.4%	122	89	36.8%
NKR/USD CROSS RATE	77	67.33	13.7%	62.77	22.0%	98	83	17.7%
BRAZIL REAL	4,731	4,367.05	8.3%	6,272.23	-24.6%	4,563	4,011	13.8%

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<b>FX Futures</b>								
FCXRX	0	389.81	-100.0%	0	-	27	54	-50.1%
CHINESE RENMINBI (CNH)	100	161.19	-38.0%	75.27	32.7%	76	77	-1.7%
USDZAR	0	1.9	-100.0%	0	-	0	0	-100.0%
E-MICRO INR/USD	163	274.29	-40.6%	109.64	48.7%	126	115	9.2%
E-MICRO USD/CNH	0	0	-	0	-	0	0	-100.0%
E-MICRO JPY/USD	1,802	2,781	-35.2%	1,375.64	31.0%	1,851	1,497	23.6%
E-MICRO CAD/USD	840	989.48	-15.1%	866.95	-3.1%	965	1,006	-4.1%
<b>FX Options</b>								
AUSTRALIAN DLR (EU)	0	0	-	0	-	0	5	-99.8%
JAPANESE YEN	0	13,336.43	-100.0%	0	-	2,495	14,445	-82.7%
EURO FX (EU)	1	5.24	-85.5%	2.09	-63.6%	2	124	-98.2%
CANADIAN DOLLAR	0	2,470.95	-100.0%	0	-	827	6,121	-86.5%
BRITISH POUND	0	7,062.76	-100.0%	0	-	2,062	9,642	-78.6%
RUSSIAN RUBLE	0	0	-	0	-	0	6	-100.0%
CANADIAN DOLLAR (EU)	1	0.33	257.2%	0	-	1	8	-92.5%
SWISS FRANC (EU)	0	0	-	0	-	0	0	-
SWISS FRANC	0	321.95	-100.0%	0	-	25	298	-91.7%
BRITISH POUND (EU)	8	0.62	1269.3%	72.95	-88.4%	19	40	-51.7%
AUSTRALIAN DOLLAR	0	4,373.38	-100.0%	0	-	921	6,232	-85.2%
MEXICAN PESO	99	575.76	-82.7%	627.36	-84.2%	161	216	-25.6%
EURO FX	0	28,709.05	-100.0%	0	-	5,712	31,442	-81.8%
JAPANESE YEN (EU)	0	1.81	-94.7%	0	-	1	26	-96.9%
CAD/USD PQO 2pm Fix	6,524	2,365.14	175.9%	8,383.55	-22.2%	6,782	460	1375.7%
AUD/USD PQO 2pm Fix	4,715	3,094.29	52.4%	5,745.27	-17.9%	5,346	452	1083.0%
JPY/USD PQO 2pm Fix	12,776	7,068.38	80.7%	11,818.09	8.1%	12,659	935	1254.2%
CHF/USD PQO 2pm Fix	119	258.1	-53.8%	552.59	-78.4%	161	34	372.6%
EUR/USD PQO 2pm Fix	38,188	11,901.1	220.9%	38,716.86	-1.4%	30,989	1,738	1682.6%
GBP/USD PQO 2pm Fix	18,337	2,859.52	541.3%	14,627.5	25.4%	10,708	614	1644.3%
JAPANESE YEN VOL	451	0	-	7.95	5567.9%	42	0	-
OTC AUDUSD SUB	89	0	-	6.23	1330.7%	9	0	-
OTC CADUSD SUB	24	0	-	2.27	966.5%	2	0	-
OTC GBPUSD SUB	408	0	-	10.45	3801.3%	38	0	-
EURO FX VOL	1,423	0	-	40.27	3433.2%	133	0	-
CANADIAN DOLLAR VOL	207	0	-	13.59	1422.0%	20	0	-

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<b>Equity Index Futures</b>								
E-MINI RUSSELL 2000	107,265	0	-	78,053.45	37.4%	33,362	0	-
E-MINI RUSSELL 1000	398	3.57	11045.4%	246.05	61.8%	195	18	963.2%
DJ US REAL ESTATE	1,415	842.24	68.0%	1,067.14	32.6%	1,349	860	57.0%
E-MINI NASDAQ 100	308,653	256,986.76	20.1%	249,951.68	23.5%	272,870	265,255	2.9%
S&P ENERGY SECTOR	385	827.81	-53.5%	308.14	24.9%	739	534	38.4%
S&P MATERIALS SECTOR	443	645.33	-31.4%	306.73	44.4%	406	318	27.9%
S&P FINANCIAL SECTOR	699	1,014.1	-31.0%	537.05	30.2%	1,327	624	112.7%
S&P HEALTH CARE SECTOR	267	946.95	-71.8%	242.41	10.1%	709	564	25.8%
S&P INDUSTRIAL SECTOR	357	1,282.52	-72.2%	287	24.4%	411	488	-15.6%
S&P UTILITIES SECTOR	644	1,116.33	-42.3%	516.73	24.6%	1,226	1,158	5.9%
S&P TECHNOLOGY SECTOR	350	239.71	46.2%	229.23	52.9%	457	300	52.7%
S&P CONSUMER DSCRNTNRY SECTC	188	699.43	-73.1%	301	-37.4%	338	577	-41.3%
S&P 500	3,727	5,332.43	-30.1%	2,979.95	25.1%	5,691	8,448	-32.6%
E-MINI MIDCAP	13,453	16,798.67	-19.9%	10,419.14	29.1%	16,774	21,071	-20.4%
NIKKEI 225 (\$) STOCK	20,243	13,916.29	45.5%	11,156.41	81.4%	13,103	17,232	-24.0%
NIKKEI 225 (YEN) STOCK	54,794	63,052.1	-13.1%	39,673.59	38.1%	43,714	59,531	-26.6%
IBOVESPA INDEX	28	34.71	-19.1%	56.95	-50.7%	31	34	-8.6%
S&P CONSUMER STAPLES SECTOR	323	872.62	-63.0%	514.14	-37.2%	734	1,270	-42.2%
E-MINI S&P500	1,317,245	1,821,426.24	-27.7%	1,111,106.64	18.6%	1,450,206	1,889,743	-23.3%
S&P 500/VALUE	582	471.05	23.5%	971.64	-40.2%	912	498	83.2%
S&P 500 GROWTH	0	0.52	-90.9%	0.82	-94.2%	1	1	8.7%
FT-SE 100	56	28.9	93.2%	36.32	53.8%	29	30	-4.8%
NIFTY 50	684	528.48	29.5%	641.95	6.6%	569	499	14.2%
E-MINI RUSSELL 1000 GROWTH	382	5.71	6580.0%	224.41	70.1%	172	12	1348.4%
E-MINI RUSSELL 1000 VALUE	762	4.29	17678.9%	550.77	38.3%	354	35	899.2%
NASDAQ BIOTECH	17	22.76	-25.1%	4.55	275.0%	16	4	315.5%
E-mini (\$5) Dow	128,939	185,122.76	-30.3%	97,464.59	32.3%	129,945	171,551	-24.3%
E-mini FTSE 100 (USD)	52	0.1	54571.8%	26.95	93.1%	9	2	452.5%
E-mini FTSE China 50	210	75.29	178.6%	83.73	150.5%	84	44	89.8%
E-MINI S&P REAL ESTATE SELECT S	78	236.57	-67.2%	199.5	-61.1%	271	28	858.2%
FTSE Emerging	13	3	322.2%	8.5	49.0%	3	6	-51.4%

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<b>Equity Index Options</b>								
E-MINI RUSSELL 2000	912	0	-	562.73	62.1%	179	0	-
E-MINI NASDAQ 100	16,742	9,547.05	75.4%	13,294.5	25.9%	11,652	10,413	11.9%
S&P 500	20,747	17,872.38	16.1%	12,540.05	65.4%	15,475	23,400	-33.9%
EOW4 EMINI S&P 500	42,521	35,552.95	19.6%	49,243.18	-13.7%	45,612	51,701	-11.8%
EOW2 S&P 500	11,596	6,409	80.9%	9,407.55	23.3%	8,275	6,170	34.1%
EOW1 EMINI S&P 500	59,372	49,446.9	20.1%	49,206.86	20.7%	51,106	47,603	7.4%
EOW1 S&P 500	5,143	2,106.33	144.2%	4,745.27	8.4%	4,251	2,898	46.7%
E-MINI MIDCAP	0	0	-	0	-	0	0	-100.0%
EOM S&P 500	13,238	7,646.95	73.1%	9,906.82	33.6%	9,138	8,213	11.3%
EOM EMINI S&P	110,314	105,531.62	4.5%	89,209	23.7%	96,257	80,583	19.5%
EOW2 EMINI S&P 500	57,854	90,841.14	-36.3%	41,645.73	38.9%	50,851	52,407	-3.0%
E-MINI S&P500	258,703	258,793.57	0.0%	166,272.5	55.6%	202,571	234,136	-13.5%
EOW3 EMINI S&P 500	142,514	199,899.24	-28.7%	158,665.77	-10.2%	160,422	105,156	52.6%
EOW3 S&P 500	16,205	18,881.05	-14.2%	21,344.23	-24.1%	17,249	12,421	38.9%
E-mini (\$5) Dow	460	440.24	4.4%	335.09	37.2%	277	507	-45.3%
EOW1 E-MINI RUSSELL 2000 WEEKL	84	0	-	120.45	-30.3%	29	0	-
EOW4 E-MINI RUSSELL 2000 WEEKL	148	0	-	243.5	-39.2%	50	0	-
EOW1 E-MINI RUSSELL 2000 WEEKL	78	0	-	111.64	-30.0%	28	0	-
EOW2 E-MINI RUSSELL 2000 WEEKL	237	0	-	194	22.2%	50	0	-
EOM E-MINI RUSSELL 2000 END OF	166	0	-	76.27	118.1%	65	0	-
EOW3 E-MINI RUSSELL 2000 WEEKL	574	0	-	917.55	-37.5%	240	0	-
<b>Interest Rate Futures</b>								
5-YR SWAP RATE	1,029	3,637.86	-71.7%	1,278.05	-19.5%	2,178	2,961	-26.4%
2-YR SWAP RATE	0	0.19	-100.0%	0	-	0	19	-100.0%
10-YR SWAP RATE	1,370	2,128.86	-35.7%	1,449.41	-5.5%	2,276	2,315	-1.7%
1-MONTH EURODOLLAR	210	103.38	103.6%	95.05	121.4%	235	56	322.1%
EURODOLLARS	2,361,894	4,037,766.24	-41.5%	2,373,360.18	-0.5%	2,567,166	2,567,700	0.0%
7-YR SWAP	0	0	-	0	-	0	13	-100.0%
30-YR BOND	391,077	414,628.48	-5.7%	257,635.05	51.8%	295,333	283,909	4.0%
5-YR NOTE	1,321,015	1,430,769.24	-7.7%	679,293.91	94.5%	917,378	814,543	12.6%
10-YR NOTE	1,976,065	2,204,595.52	-10.4%	1,310,286.64	50.8%	1,523,639	1,417,999	7.4%
2-YR NOTE	700,781	548,791.52	27.7%	306,789.5	128.4%	394,101	333,768	18.1%
30-YR SWAP RATE	6	81.48	-92.2%	7.82	-19.0%	45	81	-44.4%
ULTRA T-BOND	237,602	196,346.67	21.0%	104,431.73	127.5%	136,459	115,157	18.5%
FED FUND	132,898	161,391.14	-17.7%	133,745.68	-0.6%	195,044	135,276	44.2%
Ultra 10-Year Note	195,383	148,362.14	31.7%	107,405.5	81.9%	116,457	65,556	77.6%

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<b>Interest Rate Options</b>								
EURO MIDCURVE	858,276	1,011,677.33	-15.2%	976,912.09	-12.1%	771,138	533,133	44.6%
EURODOLLARS	490,343	774,817.48	-36.7%	533,139.91	-8.0%	617,623	686,645	-10.1%
30-YR BOND	91,533	112,385.86	-18.6%	103,937.36	-11.9%	108,349	85,873	26.2%
5-YR NOTE	105,564	132,858.52	-20.5%	130,953.86	-19.4%	120,862	96,143	25.7%
10-YR NOTE	469,375	659,394.57	-28.8%	592,571.59	-20.8%	523,429	384,187	36.2%
2-YR NOTE	13,461	6,702.62	100.8%	10,864.27	23.9%	8,762	6,959	25.9%
ULTRA T-BOND	190	450.05	-57.8%	181.36	4.7%	150	368	-59.4%
FED FUND	3	464.95	-99.3%	45.91	-93.3%	73	404	-81.9%
Ultra 10-Year Note	0	196.29	-100.0%	31.82	-100.0%	37	179	-79.5%
<b>Energy Futures</b>								
CAISO SP15 EZGNHUB5 MW P	0	0	-	0	-	34	78	-55.7%
ERCOT NORTH ZMCPE 5MW OFFPE	0	0	-	0	-	0	0	-
RBOB GAS	88	191.52	-54.0%	99.64	-11.6%	115	74	54.3%
ELEC ERCOT DLY PEAK	0	0	-	0	-	0	0	-
ERCOT NORTH ZMCPE 5MW OFFPE	1,867	0	-	1,818.18	2.7%	498	19	2589.7%
ERCOT NORTH ZMCPE 5MW PEAK	100	0	-	0	-	29	1	2797.9%
ERCOT HOUSTON Z MCPE 5MW PEAK	0	0	-	0	-	17	0	-
SINGAPORE JET KERO VS. GASOIL	0	0	-	0	-	0	0	0.0%
PETRO OUTRIGHT EURO	167	499.57	-66.6%	255.23	-34.7%	304	455	-33.2%
MONT BELVIEU LDH PROPANE OPIS	53	28.71	84.6%	42.55	24.6%	78	42	84.3%
MONT BELVIEU ETHANE OPIS BALM	9	3.57	140.0%	4.23	102.8%	12	7	85.8%
CONWAY NATURAL GASOLINE (OPI	6	1.43	300.0%	11.95	-52.2%	13	7	74.5%
PETROCHEMICALS	195	174.95	11.4%	157.41	23.9%	195	258	-24.4%
CONWAY PROPANE 5 DECIMALS S	502	375.33	33.8%	333.45	50.7%	429	347	23.4%
CONWAY NORMAL BUTANE (OPIS) S	4	2.43	47.1%	27.5	-87.0%	35	11	209.8%
MONT BELVIEU NORMAL BUTANE B	28	17	63.6%	35.41	-21.5%	34	28	19.5%
MONT BELVIEU NATURAL GASOLIN	23	0.95	2299.9%	16.59	37.8%	14	8	87.8%
IN DELIVERY MONTH EUA	0	213.81	-100.0%	0	-	12	156	-92.1%
WTS (ARGUS) VS WTI SWAP	287	177.14	61.9%	666.18	-57.0%	256	182	40.6%
ISO NEW ENGLAND PK LMP	0	0	-	0	-	0	0	-50.0%
ELEC NYISO OFF-PEAK	0	0	-	0	-	304	0	-
ELEC MISO PEAK	0	0	-	0	-	17	0	-
TRANSCO ZONE 4 NAT GAS IN	0	0	-	0	-	2	6	-68.1%
COLUMB GULF MAINLINE NG B	0	5.76	-100.0%	0	-	4	95	-95.5%
HENRY HUB FINANCIAL LAST	90	0	-	77.32	16.8%	22	0	-
ONEOK OKLAHOMA NG BASIS	0	16.48	-100.0%	27.27	-100.0%	8	6	26.7%
TEXAS GAS ZONE1 NG BASIS	0	0	-	0	-	0	1	-100.0%
NYISO ZONE C 5MW D AH O P	0	0	-	0	-	0	235	-100.0%
PJM NI HUB 5MW REAL TIME	920	12,737.14	-92.8%	0	-	7,788	8,607	-9.5%
NYISO ZONE J 5MW D AH O P	0	1,838.1	-100.0%	0	-	981	846	15.9%
NYISO ZONE J 5MW D AH PK	86	40.95	111.0%	0	-	116	62	85.6%
NEPOOL W CNT MASS 5MW D A	0	0	-	0	-	0	17	-100.0%
PJM COMED 5MW D AH PK	0	0	-	0	-	20	63	-68.1%
NEPOOL SE MASS 5MW D AH O	0	0	-	0	-	0	0	-
NEPOOL CNCTCT 5MW D AH O	0	0	-	0	-	0	52	-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	19.5%
NYISO ZONE C 5MW D AH PK	0	0	-	0	-	0	7	-92.7%
PETRO CRCKS & SPRDS NA	1,897	2,167.86	-12.5%	1,528.27	24.2%	1,819	1,653	10.0%
SINGAPORE GASOIL	210	255.38	-17.7%	145	44.9%	238	196	21.0%
PETRO OUTRIGHT NA	307	1,018.05	-69.9%	295.77	3.8%	649	789	-17.7%
CRUDE OIL SPRDS	2,042	285.95	614.2%	1,592.95	28.2%	609	192	217.4%
RBOB GASOLINE BALMO CLNDR	39	71.48	-45.7%	98.91	-60.8%	45	37	22.0%
GASOLINE UP-DOWN BALMO SW	0	0	-	0	-	0	4	-100.0%
COLUMBIA GULF MAIN NAT G	0	0	-	0	-	0	10	-100.0%
ALGON CITY GATES NAT GAS	0	0	-	0	-	0	27	-100.0%
SOUTHERN NAT LA NAT GAS	0	0	-	0	-	0	3	-100.0%
TENN 800 LEG NAT GAS INDE	0	0	-	0	-	0	6	-100.0%
NATURAL GAS PHY	476,501	432,060	10.3%	481,057.09	-0.9%	423,771	379,557	11.6%
CRUDE OIL OUTRIGHTS	2,954	216.43	1264.8%	2,498.68	18.2%	1,406	342	310.5%
ELECTRICITY OFF PEAK	0	0	-	0	-	0	102	-100.0%
ELEC FINSETTLED	0	0	-	0	-	0	5	-100.0%
PETRO CRK&SPRD EURO	375	614.29	-38.9%	250	50.1%	362	349	3.5%
FREIGHT MARKETS	1	14.48	-94.1%	7.55	-88.6%	7	10	-29.1%
PLASTICS	13	72.38	-82.2%	5.45	135.7%	26	21	22.6%
NYH NO 2 CRACK SPREAD CAL	20	79.52	-74.9%	50.55	-60.4%	61	94	-35.5%
TRANSCO ZONE 6 BASIS SWAP	41	88.71	-54.1%	0	-	16	60	-73.3%
NYISO A	0	0	-	0	-	0	0	-
MINY NATURAL GAS	1,351	1,753.57	-22.9%	1,112.64	21.4%	1,176	1,258	-6.5%
HEATING OIL PHY	169,013	167,555.1	0.9%	174,982.36	-3.4%	173,558	156,154	11.1%
DOMINION TRANSMISSION INC	215	600.86	-64.3%	4.23	4978.1%	230	969	-76.3%
TCO BASIS SWAP	32	28.76	10.4%	2.55	1147.8%	39	146	-73.4%
PJM MONTHLY	0	2.29	-100.0%	0	-	1	13	-95.9%
EL PASO PERMIAN INDEX SWA	0	0	-	0	-	0	7	-100.0%
WAHA INDEX SWAP FUTURE	0	0	-	0	-	0	38	-100.0%
NY HARBOR HEAT OIL SWP	51	76.29	-33.4%	39	30.3%	102	105	-3.3%
EASTERN RAIL DELIVERY CSX	1	67.86	-98.9%	4.77	-85.0%	21	61	-65.7%
HTG OIL	0	3.62	-100.0%	3.27	-100.0%	1	24	-93.8%
EUROPE 3.5% FUEL OIL MED	15	25.24	-39.6%	7.64	99.5%	7	18	-58.1%
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	139	1.48	9319.3%	0	-	13	87	-85.4%
TENNESSEE ZONE 0 BASIS SW	23	0	-	0	-	2	13	-84.0%
NEW YORK HUB ZONE J PEAK	0	0	-	0	-	0	0	-
TD3 MEG TO JAPAN 250K MT	0	0	-	1.36	-100.0%	0	0	-
FUELOIL SWAP:CARGOES VS.B	8	29.76	-72.6%	6.23	30.8%	13	17	-22.5%
MINY HTG OIL	0	0.24	-20.0%	0.14	39.7%	0	0	-68.0%
BRENT CALENDAR SWAP	122	19.95	509.8%	101.77	19.5%	133	84	58.3%
EURO GASOIL 10PPM VS ICE	0	0.71	-66.7%	0	-	2	3	-38.0%
WTI-BRENT CALENDAR SWAP	1,812	555.81	226.0%	1,440.64	25.8%	907	553	64.0%
CENTERPOINT BASIS SWAP	22	0	-	0	-	4	57	-92.4%
PJM NILL DA OFF-PEAK	93	9,072.14	-99.0%	110.32	-16.1%	2,986	4,652	-35.8%
PANHANDLE INDEX SWAP FUTU	0	0	-	0	-	0	15	-100.0%

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<b>Energy Futures</b>								
PJM NILL DA PEAK	8	182.14	-95.8%	11.18	-31.9%	171	206	-16.8%
CIN HUB 5MW REAL TIME PK	0	41.43	-100.0%	9.55	-100.0%	111	288	-61.4%
MINY WTI CRUDE OIL	11,199	14,447.33	-22.5%	10,633.77	5.3%	12,270	13,646	-10.1%
JAPAN C&F NAPHTHA SWAP	74	70.1	6.3%	50.18	48.4%	73	60	21.5%
LLS (ARGUS) VS WTI SWAP	392	136.76	186.9%	171.23	129.1%	242	290	-16.4%
RBOB PHY	177,016	183,082.38	-3.3%	169,752	4.3%	201,482	182,715	10.3%
NEPOOL RHD ISLD 5MW D AH	0	0	-	0	-	0	0	-
NEPOOL NE MASS 5MW D AH O	0	0	-	0	-	61	0	-
NEPOOL NEW HAMP 5MW D AH	0	0	-	0	-	0	0	-
CIN HUB 5MW REAL TIME O P	0	2,811.43	-100.0%	0	-	1,719	4,559	-62.3%
LTD NAT GAS	14,921	11,777.05	26.7%	12,096.95	23.3%	13,957	11,114	25.6%
NORTHWEST ROCKIES BASIS S	0	1,128.52	-100.0%	0	-	13	784	-98.3%
SINGAPORE 380CST BALMO	18	19.14	-7.2%	5.77	207.7%	11	8	43.7%
PJM BGE DA OFF-PEAK	0	0	-	0	-	0	101	-100.0%
ULSD 10PPM CIF MED VS ICE	1	0.71	0.0%	0	-	0	1	-55.0%
GULF COAST JET FUEL CLNDR	2	6	-64.3%	0	-	4	8	-45.2%
HEATING OIL CRCK SPRD BAL	0	0	-	0	-	0	0	-100.0%
SINGAPORE GASOIL SWAP	55	499.86	-88.9%	306	-81.9%	386	300	28.4%
CHICAGO ULSD PL VS HO SPR	7	0	-	2.05	260.8%	7	12	-40.2%
CIN HUB 5MW D AH PK	29	10.38	175.2%	23.09	23.7%	79	91	-12.8%
PJM AD HUB 5MW REAL TIME	709	1,287.62	-45.0%	19.09	3611.6%	1,347	5,951	-77.4%
TC5 RAS TANURA TO YOKOHAM	0	0	-	0	-	0	0	-100.0%
Sumas Basis Swap	0	115.38	-100.0%	0	-	27	78	-65.5%
RBOB CRACK SPREAD	31	26.19	18.2%	124.23	-75.1%	47	66	-29.5%
NGPL TEX/OK	51	144.19	-64.3%	0	-	40	138	-71.2%
EURO GASOIL 10 CAL SWAP	0	0	-	0	-	0	0	-100.0%
HENRY HUB INDEX SWAP FUTU	0	419.33	-100.0%	77.82	-100.0%	219	777	-71.8%
WTI-BRENT BULLET SWAP	0	23.81	-100.0%	0	-	4	2	80.8%
NYISO J OFF-PEAK	0	0	-	0	-	0	0	-100.0%
EAST/WEST FUEL OIL SPREAD	0	2.24	-100.0%	0	-	5	2	241.0%
TENNESSEE 500 LEG BASIS S	0	0	-	0	-	2	7	-73.7%
NORTHEN NATURAL GAS DEMAR	0	2.57	-100.0%	0	-	0	17	-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	5	-100.0%
APPALACHIAN COAL (PHY)	0	0	-	0	-	0	1	-100.0%
WTI CALENDAR	1,765	1,593.95	10.7%	1,573.27	12.2%	1,757	1,449	21.2%
CINERGY HUB PEAK MONTH	0	0	-	0	-	0	0	-
CHICAGO ULSD (PLATTS) SWA	0	0	-	0	-	0	0	-
RBOB CALENDAR SWAP	377	295.57	27.7%	234.82	60.7%	346	317	9.1%
AEP-DAYTON HUB MTHLY	0	0	-	0	-	0	1	-100.0%
CRUDE OIL PHY	1,315,986	1,303,553.38	1.0%	1,137,758.27	15.7%	1,254,754	1,094,318	14.7%
N ILLINOIS HUB MTHLY	0	0	-	0	-	0	0	-
RBOB (PLATTS) CAL SWAP	0	14.14	-100.0%	0	-	0	1	-100.0%
NEW YORK ETHANOL SWAP	53	101.9	-48.4%	40.91	28.6%	40	74	-45.6%
LA CARB DIESEL (OPIS)	0	0	-	0	-	0	0	-100.0%
GASOIL BULLET SWAP	0	0	-	0	-	1	0	-
RBOB SPREAD (PLATTS) SWAP	0	0	-	0	-	0	0	-
EURO PROPANE CIF ARA SWA	83	80.24	3.3%	70.91	16.8%	62	64	-2.8%

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	ADV NOV 2017	ADV NOV 2016	% CHG	ADV OCT 2017	% CHG	ADV Y.T.D 2017	ADV Y.T.D 2016	% CHG
<b>Energy Futures</b>								
LA CARBOB GASOLINE(OPIS)S	14	0	-	1.14	1157.1%	12	26	-53.4%
MCCLOSKEY ARA ARGV COAL	1,345	4,970.71	-72.9%	1,489.5	-9.7%	2,087	7,551	-72.4%
MCCLOSKEY RCH BAY COAL	125	606.1	-79.3%	148.59	-15.6%	229	791	-71.0%
MGF FUT	1	0	-	0	-	1	0	216.0%
MNC FUT	131	236.67	-44.7%	124.64	5.1%	190	190	0.2%
DLY GAS EURO-BOB OXY	0	0	-	0	-	0	0	-100.0%
MGN1 SWAP FUT	3	5.81	-42.6%	1.14	193.3%	5	7	-30.7%
UCM FUT	1	0.71	100.0%	0	-	1	1	-14.0%
MJC FUT	5	0.95	475.0%	6.59	-16.9%	6	4	45.8%
UP DOWN GC ULSD VS NMX HO	1,991	2,555.29	-22.1%	2,314.95	-14.0%	2,236	2,526	-11.5%
HOUSTON SHIP CHANNEL BASI	261	0	-	0	-	40	132	-69.5%
FUEL OIL CRACK VS ICE	76	222.19	-66.0%	143.68	-47.4%	171	210	-18.7%
NGPL TEXOK INDEX	0	0	-	0	-	0	2	-100.0%
NATURAL GAS	5,470	7,394.52	-26.0%	5,655.68	-3.3%	6,566	6,252	5.0%
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	25	-100.0%
PANHANDLE PIPE SWAP	0	0	-	107.45	-100.0%	14	0	-
GAS EURO-BOB OXY NWE BARGES	814	834.05	-2.4%	688.82	18.1%	902	685	31.7%
MONT BELVIEU NATURAL GASOLIN	749	318.38	135.3%	440.64	70.0%	276	376	-26.6%
ONTARIO POWER SWAPS	0	0.95	-100.0%	0	-	5	21	-76.1%
DAILY PJM	0	0	-	0	-	0	12	-100.0%
BRENT OIL LAST DAY	74,780	120,669.67	-38.0%	65,499	14.2%	88,941	93,571	-4.9%
SINGAPORE GASOIL CALENDAR	23	0	-	16.32	43.9%	14	2	450.3%
MARS (ARGUS) VS WTI TRD M	1,814	373.86	385.1%	1,055.68	71.8%	1,016	545	86.4%
MARS (ARGUS) VS WTI SWAP	65	330.43	-80.3%	142.27	-54.1%	147	207	-28.8%
SINGAPORE JET KERO BALMO	0	0	-	0	-	2	1	243.6%
WTS (ARGUS) VS WTI TRD MT	77	23.81	225.2%	101.36	-23.6%	43	53	-18.6%
DUBAI CRUDE OIL BALMO	0	0	-	0	-	0	1	-100.0%
EURO 1% FUEL OIL NEW BALM	0	0.48	-100.0%	0	-	0	1	-92.3%
PREMIUM UNLD 10P FOB MED	9	7.81	17.7%	6.36	44.4%	4	12	-69.0%
GASOIL 0.1 CRG CIF NW VS	0	0	-	0	-	0	0	-100.0%
3.5% FUEL OIL CID MED SWA	3	15	-77.8%	2.18	52.8%	4	13	-65.1%
JET FUEL CRG CIF NEW VS I	0	0	-	0	-	0	0	113.3%
ARGUS PROPAN FAR EST INDE	187	77.14	142.7%	145.5	28.7%	123	74	65.6%
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	122	60.95	100.0%	0	-	249	150	66.2%
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	10	83.71	-88.6%	6.82	39.7%	74	76	-2.6%
GULF COAST ULSD CRACK SPR	0	0	-	0	-	17	30	-43.8%
USGC UNL 87 CRACK SPREAD	0	0	-	0	-	0	1	-100.0%
JET FUEL BRG FOB RDM VS I	0	0	-	0	-	0	0	148.3%
TENNESSEE 800 LEG NG BASI	0	0	-	0	-	0	7	-100.0%
NEPOOL W CNTR M 5MW D AH	0	0	-	0	-	0	7	-100.0%
DATED TO FRONTLINE BRENT	19	263.1	-92.8%	22.73	-16.2%	63	89	-29.8%
PJM APS ZONE DA PEAK	0	0	-	0	-	0	0	-
PJM BGE DA PEAK	0	0	-	0	-	0	6	-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	22	-100.0%
PJM PSEG DA OFF-PEAK	0	0	-	0	-	0	709	-100.0%
PJM WESTH RT PEAK	219	1,690.43	-87.0%	47.27	363.4%	903	2,668	-66.1%
ALGONQUIN CITYGATES BASIS	0	2.67	-100.0%	0	-	0	35	-100.0%
MICHCON NG INDEX SWAP	0	0	-	0	-	0	10	-100.0%
GASOIL 0.1 CIF MED SWAP	0	0.95	-100.0%	0	-	0	0	-100.0%
ICE GASOIL BALMO SWAP	0	0	-	0	-	0	0	-
ULSD 10PPM CIF MED SWAP	0	0	-	0	-	0	0	-33.3%
EUROPE 1% FUEL OIL NWE CA	0	0.62	-100.0%	0.91	-100.0%	3	6	-51.8%
NEW YORK HUB ZONE G PEAK	0	0	-	0	-	0	0	-
GULF COAST NO.6 FUEL OIL	3,098	2,787.95	11.1%	1,836.32	68.7%	2,544	2,772	-8.2%
SINGAPORE FUEL 180CST CAL	40	62.81	-35.6%	33.18	21.8%	49	55	-10.5%
SINGAPORE FUEL OIL SPREAD	7	60.14	-88.5%	12.27	-43.7%	30	32	-4.7%
NORTHERN ILLINOIS OFF-PEA	0	0	-	0	-	0	0	-
PJM ATSI ELEC	0	1,389.05	-100.0%	0	-	214	154	39.1%
SING FUEL	2	1.67	42.9%	0	-	1	0	84.6%
EURO-DENOMINATED PETRO PROD	0	9.43	-100.0%	0	-	7	2	325.3%
DATED BRENT (PLATTS) DAILY SWA	0	0	-	0	-	6	1	600.0%
GAS EURO-BOB OXY NWE BARGES	152	401.1	-62.0%	191.41	-20.5%	298	334	-10.7%
MINY RBOB GAS	0	0.19	0.0%	0.18	4.8%	0	0	-4.1%
RBOB UP-DOWN CALENDAR SWA	0	0	-	0	-	0	40	-100.0%
LA JET FUEL VS NYM NO 2 H	0	0	-	0	-	0	4	-96.9%
ANR OKLAHOMA	0	14.38	-100.0%	0	-	0	21	-100.0%
MICHIGAN BASIS	7	76.67	-90.3%	0	-	12	114	-89.6%
TEXAS EASTERN ZONE M-3 BA	43	148.86	-71.0%	0	-	41	360	-88.6%
NORTHEN NATURAL GAS VENTU	2	22.9	-90.0%	0	-	1	40	-98.6%
CIG BASIS	35	164.81	-78.9%	0	-	6	353	-98.2%
PJM DAILY	0	0	-	0	-	0	6	-100.0%
COLUMBIA GULF ONSHORE	0	0	-	0	-	6	13	-57.1%
Tetco STX Basis	0	0	-	0	-	0	7	-100.0%
Transco Zone 3 Basis	0	0	-	0	-	1	4	-70.7%
GULF COAST GASOLINE CLNDR	0	0	-	0	-	0	6	-100.0%
CENTERPOINT EAST INDEX	0	0	-	0	-	0	3	-100.0%
GULF COAST ULSD CALENDAR	3	14.24	-81.9%	22.32	-88.5%	24	40	-39.6%
LA CARB DIESEL (OPIS) SWA	6	4.76	25.0%	1.14	423.8%	9	32	-70.9%
EURO 3.5% FUEL OIL RDAM B	35	18.81	87.3%	11	220.3%	21	16	32.0%
EUROPEAN NAPHTHA BALMO	6	13	-50.5%	8.5	-24.4%	16	9	85.6%
GASOIL MINI CALENDAR SWAP	6	10.76	-47.3%	2.27	149.3%	6	11	-44.3%
NY ULSD (ARGUS) VS HEATING OIL	1	18.76	-96.7%	0	-	36	34	4.9%
PJM PECO ZONE5MW PEAK CAL MO	0	0	-	0	-	0	0	-
EUROPE 1% FUEL OIL RDAM C	0	0	-	0	-	0	1	-70.9%
SAN JUAN BASIS SWAP	0	317.95	-100.0%	0	-	10	329	-97.0%
GULF COAST JET VS NYM 2 H	1,304	1,226.14	6.3%	1,215.73	7.2%	1,970	1,529	28.9%
NYMEX ALUMINUM FUTURES	0	0	-	0	-	0	0	-
EURO 3.5% FUEL OIL SPREAD	9	136.14	-93.7%	0	-	19	38	-49.3%
GASOIL CALENDAR SWAP	0	0.71	-100.0%	0	-	1	1	-25.8%
BRENT FINANCIAL FUTURES	51	0	-	46.45	8.9%	188	30	534.2%

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<b>Energy Futures</b>								
ICE BRENT DUBAI SWAP	956	313	205.4%	810.41	18.0%	509	96	432.3%
GASOIL CRACK SPREAD CALEN	352	289.95	21.4%	107.86	226.5%	325	243	34.0%
EUROPEAN NAPHTHA CRACK SPR	359	501.76	-28.4%	183.59	95.6%	326	272	19.9%
CRUDE OIL	858	400.57	114.3%	516.5	66.2%	505	608	-17.0%
NEPOOL INTR HUB 5MW D AH	0	1,378.33	-100.0%	0	-	1,093	2,408	-54.6%
NEPOOL SE MASS 5MW D AH P	0	0	-	0	-	0	0	-
PJM DAYTON DA OFF-PEAK	0	1,318.57	-100.0%	0	-	918	238	285.4%
PJM JCPL DA OFF-PEAK	0	0	-	0	-	0	0	-
PJM WESTH RT OFF-PEAK	1,291	4,438.1	-70.9%	0	-	9,461	26,775	-64.7%
CHICAGO ETHANOL SWAP	5,215	6,688.43	-22.0%	5,992.32	-13.0%	5,399	4,966	8.7%
HENRY HUB BASIS SWAP	0	467.29	-100.0%	77.82	-100.0%	228	860	-73.4%
HENRY HUB SWAP	8,779	19,400.62	-54.7%	6,782.05	29.5%	8,876	20,103	-55.8%
PREM UNL GAS 10PPM RDAM FOB B	0	0	-	0	-	0	0	0.0%
PREM UNL GAS 10PPM RDAM FOB S	0	0	-	0	-	0	1	-86.5%
MONT BELVIEU NORMAL BUTANE 5	2,038	1,679.67	21.3%	1,572.73	29.6%	1,419	1,329	6.7%
MONT BELVIEU ETHANE 5 DECIMAL	601	2,422.86	-75.2%	951.23	-36.8%	1,048	2,334	-55.1%
MONT BELVIEU LDH PROPANE 5 DE	4,819	4,820.38	0.0%	4,900.82	-1.7%	4,423	5,453	-18.9%
SINGAPORE 180CST BALMO	5	1.14	358.3%	1.73	203.3%	3	2	22.9%
PJM APS ZONE DA OFF-PEAK	0	0	-	0	-	0	0	-
GRP THREE UNL GS (PLT) VS	95	25.24	278.3%	109.55	-12.8%	53	71	-26.1%
JET BARGES VS ICE GASOIL	0	0	-	0	-	0	0	-100.0%
SINGAPORE GASOIL VS ICE	2	651.71	-99.7%	3.41	-44.1%	304	159	90.5%
NATURAL GAS PEN SWP	4,008	6,949.57	-42.3%	2,428.5	65.0%	4,008	5,319	-24.6%
WESTERN RAIL DELIVERY PRB	6	0	-	8.18	-30.2%	11	40	-72.7%
EUROPE DATED BRENT SWAP	0	2.38	-100.0%	0	-	11	115	-90.5%
SINGAPORE JET KERO GASOIL	11	66.19	-83.8%	5.68	88.6%	79	42	87.5%
TETCO M-3 INDEX	0	0	-	0	-	0	36	-100.0%
PJM AECO DA PEAK	0	0	-	0	-	0	0	-
GASOIL 10PPM CARGOES CIF	0	0	-	0	-	0	0	-100.0%
WAHA BASIS	0	86.9	-100.0%	0	-	26	193	-86.4%
LA JET (OPIS) SWAP	35	42.86	-17.8%	61.36	-42.6%	82	92	-11.1%
NY HARBOR 1% FUEL OIL BAL	0	0	-	0	-	0	0	-75.3%
GASOIL 10PPM VS ICE SWAP	1	0.43	66.7%	0	-	3	4	-19.6%
NY H OIL PLATTS VS NYMEX	0	0	-	0	-	0	0	-
NYISO ZONE G 5MW D AH O P	0	1,838.1	-100.0%	0	-	3,379	1,924	75.6%
EUROPEAN GASOIL (ICE)	71	530.52	-86.6%	39.23	80.9%	133	6,766	-98.0%
ULSD UP-DOWN BALMO SWP	322	407.52	-20.9%	444.09	-27.4%	231	286	-19.0%
JET FUEL UP-DOWN BALMO CL	197	316.67	-37.9%	352.5	-44.2%	331	212	55.7%
EIA FLAT TAX ONHWAY DIESE	6	6.38	-13.4%	16.41	-66.3%	33	46	-28.4%
NY 2.2% FUEL OIL (PLATTS)	0	0	-	0	-	0	2	-100.0%
RBOB CRACK SPREAD BALMO S	0	0	-	0	-	0	2	-100.0%
HEATING OIL BALMO CLNDR S	0	0.9	-100.0%	0	-	4	2	73.3%
INDIANA MISO	0	0	-	0	-	0	0	-100.0%
PETROLEUM PRODUCTS ASIA	50	82.52	-39.9%	47.73	4.0%	85	66	30.0%
AUSTRIALIAN COKE COAL	6	25.81	-77.9%	0	-	5	20	-75.4%
PETROLEUM PRODUCTS	260	324.86	-20.0%	133.86	94.0%	144	105	36.7%
COAL SWAP	3	19.05	-82.5%	5	-33.3%	7	14	-47.8%
TC2 ROTTERDAM TO USAC 37K	4	0	-	0	-	0	0	-
NYISO A OFF-PEAK	0	0	-	0	-	0	0	-

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NYISO G OFF-PEAK	0	0	-	0	-	0	0	-
ISO NEW ENGLAND OFF-PEAK	0	0	-	0	-	0	0	-
SINGAPORE 380CST FUEL OIL	395	660.14	-40.1%	365.64	8.1%	458	384	19.3%
SINGAPORE JET KEROSENE SW	17	51.29	-67.5%	14.32	16.4%	56	33	71.3%
FLORIDA GAS ZONE3 BASIS S	0	0	-	0	-	0	24	-100.0%
TRANSCO ZONE4 BASIS SWAP	0	202.67	-100.0%	0	-	57	103	-44.2%
ANR LOUISIANA BASIS SWAP	0	5.76	-100.0%	0	-	0	1	-100.0%
CINERGY HUB OFF-PEAK MONT	0	0	-	0	-	0	0	-100.0%
DUBAI CRUDE OIL CALENDAR	198	245.14	-19.2%	225	-11.9%	355	102	246.2%
NGPL MIDCONTINENT INDEX	0	0	-	0	-	0	34	-100.0%
PANHANDLE BASIS SWAP FUTU	0	431.24	-100.0%	0	-	13	413	-96.8%
SONAT BASIS SWAP FUTURE	0	0	-	0	-	0	2	-100.0%
DIESEL 10P BRG FOB RDM VS	0	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	414	501.38	-17.4%	230.86	79.3%	338	343	-1.4%
GULF COAST 3% FUEL OIL BA	54	84.95	-36.5%	24.14	123.3%	55	38	46.9%
NY1% VS GC SPREAD SWAP	72	123.33	-41.9%	96.64	-25.8%	102	114	-10.6%
GASOIL 0.1 CIF NWE VS ISE	0	0.71	-100.0%	0	-	0	0	-100.0%
JET CIF NWE VS ICE	13	0	-	2.68	384.7%	5	3	58.0%
EUROPE JET KERO NWE CALSW	0	0	-	0	-	0	0	176.3%
JAPAN NAPHTHA BALMO SWAP	0	1.43	-100.0%	0.45	-100.0%	6	2	248.2%
ARGUS PROPAN(SAUDI ARAMCO	53	30.86	70.7%	54.27	-3.0%	50	41	20.8%
NYISO G	0	0	-	0	-	0	0	-
NYISO J	0	0	-	0	-	0	1	-100.0%
NGPL MID-CONTINENT	29	17.71	61.3%	1.36	1995.3%	20	130	-84.4%
BRENT BALMO SWAP	0	3.62	-100.0%	0	-	3	9	-71.7%
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	93	107.95	-13.4%	103.32	-9.5%	129	74	73.7%
NY HARBOR RESIDUAL FUEL 1	37	96.95	-61.7%	120.09	-69.1%	113	162	-30.5%
PERMIAN BASIS SWAP	0	782.1	-100.0%	0	-	6	265	-97.7%
JAPAN C&F NAPHTHA CRACK S	40	7.29	442.5%	25.55	54.7%	29	19	52.0%
NATURAL GAS INDEX	0	0	-	0	-	3	29	-90.2%
PETRO CRCKS & SPRDS ASIA	18	7.14	152.0%	0	-	10	6	69.9%
NYISO CAPACITY	6	20	-68.6%	74.55	-91.6%	24	20	24.8%
GASOIL 0.1 ROTTERDAM BARG	2	0	-	0.45	371.5%	1	0	416.6%
GASOIL 0.1 CIF VS ICE GAS	0	0	-	0	-	0	0	300.9%
GRP THREE ULSD(PLT)VS HEA	264	112.62	134.0%	259.55	1.6%	207	132	57.3%
GASOIL 0.1CIF MED VS ICE	0	0.24	-100.0%	0	-	0	1	-74.4%
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	70.48	-100.0%	0	-	23	101	-77.6%
PREMIUM UNLEAD 10PPM FOB	0	0.24	100.0%	0	-	1	2	-54.9%
PJM WESTH DA OFF-PEAK	0	0	-	0	-	235	3,571	-93.4%
GASOIL 0.1 RDAM BRGS VS I	6	0	-	1.09	423.8%	1	1	145.0%
GASOIL 10P CRG CIF NW VS	0	0	-	0	-	0	0	66.7%
PJM WESTHDA PEAK	0	0	-	0	-	37	198	-81.1%
NEPOOL RHODE IL 5MW D AH	0	0	-	0	-	0	0	-
CHICAGO UNL GAS PL VS RBO	0	0	-	0	-	0	9	-100.0%

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	ADV NOV 2017	ADV NOV 2016	% CHG	ADV OCT 2017	% CHG	ADV Y.T.D 2017	ADV Y.T.D 2016	% CHG
<b>Energy Futures</b>								
ETHANOL	473	763.33	-38.0%	462.95	2.3%	601	671	-10.5%
NYISO ZONE A 5MW D AH O P	0	0	-	0	-	142	1,036	-86.3%
CIN HUB 5MW D AH O PK	0	1,118.1	-100.0%	0	-	1,412	1,396	1.1%
PJM COMED 5MW D AH O PK	0	0	-	0	-	370	1,115	-66.8%
NYISO ZONE A 5MW D AH PK	0	140.95	-100.0%	0	-	30	28	3.9%
SOUTH STAR TEX OKLHM KNS	0	4.29	-100.0%	0	-	0	10	-100.0%
NY 3.0% FUEL OIL (PLATTS)	0	8.33	-100.0%	0	-	14	10	41.7%
ARGUS LLS VS. WTI (ARG) T	2,626	530.1	395.4%	1,052.95	149.4%	693	588	17.7%
NO 2 UP-DOWN SPREAD CALEN	0	4.76	-100.0%	0	-	16	12	37.5%
N ILLINOIS HUB DAILY	0	0	-	0	-	0	0	-
PROPANE NON-LDH MT. BEL (OPIS)	468	852.52	-45.1%	396.36	18.0%	340	548	-38.0%
PROPANE NON-LDH MB (OPIS) BAL	0	5.33	-100.0%	2.86	-100.0%	21	25	-15.7%
JET AV FUEL (P) CAR FM ICE GAS S	0	0	-	1.09	-100.0%	0	1	-79.1%
SINGAPORE MOGAS 92 UNLEADED	440	1,217.05	-63.8%	267.05	64.9%	355	467	-24.1%
NY JET FUEL (PLATTS) HEAT OIL SW	0	0	-	0	-	0	0	-
SINGAPORE MOGAS 92 UNLEADED	13	83.86	-85.0%	12.09	4.4%	8	24	-67.8%
ETHANOL T2 FOB ROTT INCL DUTY	265	262.1	1.0%	217.59	21.7%	191	120	58.7%
PJM WES HUB PEAK LMP 50 M	0	0	-	0	-	0	0	-
FUEL OIL (PLATS) CAR CM	0	0.38	-100.0%	0.91	-100.0%	0	5	-98.2%
FUEL OIL (PLATS) CAR CN	0	0	-	0	-	0	0	-100.0%
GROUP THREE ULSD (PLATTS)	0	0	-	0	-	1	1	-58.3%
MICHIGAN MISO	0	0	-	0	-	486	584	-16.8%
INDONESIAN COAL	0	0	-	0	-	0	1	-97.7%
NATURAL GAS FIXED PRICE SWAP F	0	0	-	0	-	2	0	-
NAT GAS BASIS SWAP	20	90.38	-77.8%	0	-	11	161	-93.0%
SUMAS NAT GAS PLATTS FIXED PRI	0	0	-	0	-	1	0	-
ELEC WEST POWER PEAK	0	0	-	0	-	7	23	-71.4%
ELEC WEST POWER OFF-PEAK	0	0	-	0	-	0	8	-100.0%
NY HARBOR LOW SULPUR GAS 100C	0	0	-	0	-	18	22	-15.1%
CRUDE OIL TRADE AT MARKER SIN	0	0	-	0	-	0	0	-
MINI RBOB V. EBOB(ARGUS) NWE B	72	142.29	-49.7%	50	43.1%	107	74	43.3%
CANADIAN LIGHT SWEET OIL	0	30	-100.0%	1.36	-100.0%	32	89	-64.1%
MINI RBOB V. EBOBARG NWE BRGS	4	66.9	-93.6%	25.18	-83.0%	25	17	49.1%
MINI GAS EUROBOB OXY NWE ARG	9	23.95	-61.2%	16.41	-43.4%	20	21	-0.6%
MARS BLEND CRUDE OIL	48	134.86	-64.7%	68.18	-30.2%	65	82	-20.6%
DY EURO 3.5% FUEL OI RDA	0	0	-	0	-	6	0	-
3.5% FUEL OIL CIF BALMO S	0	1.43	-100.0%	0	-	1	1	-43.0%
FL GAS ZONE 3 NAT GAS IND	0	0	-	0	-	0	36	-100.0%
CIG ROCKIES NG INDEX SWA	0	0	-	0	-	3	5	-31.7%
TRANSCO ZONE 6 INDEX	0	0	-	0	-	4	29	-87.3%
DEMARC SWING SWAP	0	0	-	0	-	0	0	-100.0%
NGPL MIDCONTINENT SWING S	0	0	-	0	-	0	3	-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	-
DIESEL 10PPM BARGES FOB B	0	0	-	0	-	0	0	-

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<b>Energy Futures</b>								
ULSD 10PPM CIF NW BALMO S	0	0	-	0	-	0	0	-
TRANSCO ZONE 3 NG INDEX S	0	0	-	0	-	27	0	-
<b>Energy Options</b>								
PETRO OUTRIGHT EURO	0	0	-	0	-	1	0	-
PETROCHEMICALS	31	29.76	2.9%	45.64	-32.9%	55	85	-35.8%
NATURAL GAS OPTION ON CALEND	138	328.57	-58.0%	83.27	65.8%	55	111	-50.7%
ELEC MISO PEAK	0	0	-	0	-	4	15	-76.0%
HENRY HUB FINANCIAL LAST	130	151.19	-14.3%	256.27	-49.4%	179	102	75.9%
PETRO OUTRIGHT NA	3	0	-	0	-	0	0	-
NATURAL GAS PHY	146,399	125,135.43	17.0%	124,962.41	17.2%	119,489	108,209	10.4%
CRUDE OIL OUTRIGHTS	0	0	-	115	-100.0%	51	10	414.0%
ELEC FINSETTLED	0	0	-	0	-	0	1	-100.0%
EUROPEAN JET KEROSENE NWE (P	0	0	-	0	-	0	0	-100.0%
HEATING OIL PHY	1,633	2,761.81	-40.9%	1,781.41	-8.3%	1,557	2,489	-37.5%
PJM MONTHLY	0	0	-	0	-	0	0	-
NY HARBOR HEAT OIL SWP	137	156.19	-12.4%	129.23	5.9%	153	263	-41.8%
BRENT CALENDAR SWAP	0	5	-100.0%	0	-	23	59	-60.5%
NATURAL GAS 3 M CSO FIN	1,238	4.76	25900.0%	45.45	2623.8%	634	985	-35.6%
RBOB PHY	659	1,098.95	-40.0%	792.18	-16.8%	1,230	1,646	-25.3%
SAN JUAN PIPE SWAP	0	0	-	16.36	-100.0%	14	39	-64.4%
NATURAL GAS 2 M CSO FIN	95	32.38	194.1%	68.18	39.7%	50	18	184.8%
SINGAPORE JET FUEL CALEND	0	22.86	-100.0%	0	-	0	4	-100.0%
WTI-BRENT BULLET SWAP	3,337	326.19	923.0%	4,597.18	-27.4%	2,189	779	180.8%
CRUDE OIL APO	3,113	1,012.86	207.3%	1,941.82	60.3%	2,360	1,406	67.9%
WTI CRUDE OIL 1 M CSO FI	6,157	11,818.67	-47.9%	1,446.14	325.8%	3,034	7,266	-58.2%
NATURAL GAS 6 M CSO FIN	314	171.43	83.3%	165.91	89.4%	248	40	522.5%
RBOB CALENDAR SWAP	2	0	-	20.68	-88.5%	12	29	-56.5%
CRUDE OIL PHY	195,905	244,022.33	-19.7%	133,846.18	46.4%	179,584	184,109	-2.5%
RBOB 1MO CAL SPD OPTIONS	57	85.71	-33.3%	27.27	109.5%	29	51	-43.4%
MCCLOSKEY ARA ARGS COAL	7	0	-	7.27	-1.8%	7	41	-83.2%
MCCLOSKEY RCH BAY COAL	0	0	-	0	-	0	11	-100.0%
NYISO ZONE G 5MW PEAK OPTIONS	0	511.43	-100.0%	0	-	86	48	77.7%
NATURAL GAS	0	0	-	0	-	2	2	-10.0%
HUSTN SHIP CHNL PIPE SWP	0	0	-	0	-	0	0	-
N ROCKIES PIPE SWAP	0	0	-	0	-	17	28	-38.4%
SOCAL PIPE SWAP	0	0	-	0	-	0	48	-100.0%
PANHANDLE PIPE SWAP	0	0	-	261.82	-100.0%	37	0	-
ETHANOL SWAP	490	446.19	9.9%	352	39.3%	299	334	-10.5%
SHORT TERM NATURAL GAS	339	403.57	-16.0%	529.05	-35.9%	400	282	41.7%
BRENT OIL LAST DAY	3,343	2,204.95	51.6%	3,092.45	8.1%	2,197	1,256	74.8%
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	26	-71.2%
CRUDE OIL 1MO	10,435	12,138.9	-14.0%	4,177.59	149.8%	8,572	12,027	-28.7%

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<b>Energy Options</b>								
ROTTERDAM 3.5%FUEL OIL CL	0	0	-	0	-	0	2	-100.0%
SHORT TERM	109	130.24	-16.6%	91.68	18.5%	141	130	8.3%
COAL SWAP	0	0	-	2.73	-100.0%	3	7	-53.0%
NYMEX EUROPEAN GASOIL OPT	0	0	-	0	-	0	0	-
NATURAL GAS 5 M CSO FIN	0	0	-	0	-	18	5	237.5%
NYMEX EUROPEAN GASOIL APO	0	0	-	0	-	0	0	-100.0%
COAL API2 INDEX	16	83.76	-80.4%	26.18	-37.3%	48	675	-92.9%
COAL API4 INDEX	1	2.86	-50.0%	0	-	0	7	-98.2%
NATURAL GAS 1 M CSO FIN	2,036	1,570.95	29.6%	2,467.45	-17.5%	1,866	494	277.8%
ETHANOL	0	0	-	0	-	2	0	700.2%
PJM WES HUB PEAK CAL MTH	0	16.19	-100.0%	2.27	-100.0%	17	49	-65.2%
PJM WES HUB PEAK LMP 50MW	38	125.9	-70.2%	16.36	129.3%	60	52	15.8%
GASOLINE	0	0	-	0	-	0	4	-100.0%
LLS CRUDE OIL	86	0	-	0	-	46	51	-9.2%
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	10	0	-	0	-	4	0	-
BRENT CRUDE OIL 12 M CSO	0	0	-	90.91	-100.0%	9	0	-
<b>Metals Futures</b>								
PALLADIUM	7,296	9,454.14	-22.8%	3,966.82	83.9%	5,757	5,821	-1.1%
NYMEX PLATINUM	18,143	17,164.62	5.7%	15,646.23	16.0%	18,540	15,458	19.9%
NYMEX HOT ROLLED STEEL	219	124.9	75.3%	323.05	-32.2%	250	222	12.8%
URANIUM	47	0.1	48819.5%	0	-	24	32	-25.3%
COMEX SILVER	120,929	105,445.9	14.7%	83,020.18	45.7%	93,709	73,953	26.7%
COMEX GOLD	410,635	338,508.9	21.3%	302,977.09	35.5%	292,708	233,954	25.1%
COMEX COPPER	142,497	168,155.86	-15.3%	109,575.32	30.0%	106,919	86,973	22.9%
COMEX MINY COPPER	30	51.1	-41.4%	20.86	43.6%	33	26	25.0%
COPPER	164	19.05	759.3%	4	3991.7%	22	17	32.2%
E-MICRO GOLD	5,353	4,579.1	16.9%	4,829	10.9%	4,582	3,973	15.4%
SILVER	375	564.57	-33.7%	226.59	65.3%	287	413	-30.6%
FERROUS PRODUCTS	8	7.62	6.2%	19.09	-57.6%	6	4	43.0%
METALS	0	0	-	0	-	0	0	-100.0%
ALUMINUM	471	819.95	-42.5%	558.95	-15.7%	608	453	34.0%
GOLD	0	0.1	-100.0%	0	-	0	0	-50.6%
Gold Kilo	14	227.9	-94.0%	6.95	95.1%	15	227	-93.2%
LNDN ZINC	0	0	-	0.91	-47.6%	1	1	-44.9%
IRON ORE 62 CHINA PLATTS FUTUR	41	2.19	1791.3%	0	-	41	13	208.6%
IRON ORE 62 CHINA TSI FUTURES	176	1,269.76	-86.1%	48.27	265.0%	378	803	-52.9%
COMEX E-Mini GOLD	338	837.71	-59.6%	242.86	39.3%	379	532	-28.9%
COMEX E-Mini SILVER	38	80.71	-52.4%	21.41	79.3%	38	60	-36.4%

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<b>Metals Options</b>								
PALLADIUM	327	218.14	49.9%	404.91	-19.3%	282	164	72.0%
NYMEX PLATINUM	176	171.81	2.5%	92.5	90.4%	132	206	-35.8%
COMEX SILVER	4,988	6,144.38	-18.8%	4,934.05	1.1%	5,744	5,608	2.4%
COMEX GOLD	35,158	63,082.48	-44.3%	36,572.27	-3.9%	39,590	39,749	-0.4%
COMEX COPPER	604	233.71	158.3%	812.64	-25.7%	378	159	138.4%
SILVER	2	31.33	-94.2%	9.36	-80.7%	7	10	-23.8%
GOLD	1,197	533.81	124.2%	854.77	40.0%	689	231	198.5%
IRON ORE 62 CHINA TSI PUT OPTIO	36	128.1	-72.1%	77.27	-53.8%	113	139	-18.6%
IRON ORE 62 CHINA TSI CALL OPTIC	61	135.24	-54.8%	44.91	36.1%	78	171	-54.3%
HOT ROLLED COIL STEEL CALL OPT	0	0	-	15	-100.0%	1	0	-
<b>Foreign Exchange Futures</b>								
CHILEAN PESO	181	0	-	158.32	14.3%	133	0	306529.6%
<b>Foreign Exchange Options</b>								
OTC AUDUSD SUB	30	0	-	0	-	3	0	-
<b>Ags Futures</b>								
FERTILIZER PRODUCS	86	0	-	31.82	169.4%	21	0	-
<b>TOTAL FUTURES GROUP</b>								
Interest Rate Futures	7,319,330	9,148,602.71	-20.0%	5,275,778.5	38.7%	6,150,311	5,739,353	7.2%
Equity Index Futures	1,962,650	2,372,537.24	-17.3%	1,608,167.14	22.0%	1,976,011	2,440,734	-19.0%
Metals Futures	706,775	647,314.19	9.2%	521,487.59	35.5%	524,297	422,936	24.0%
Energy Futures	2,314,118	2,367,129.43	-2.2%	2,113,158.64	9.5%	2,269,452	2,095,146	8.3%
FX Futures	831,291	897,547.24	-7.4%	806,876.36	3.0%	832,086	777,697	7.0%
Commodities and Alternative Invest	1,355,156	1,176,078.48	15.2%	980,510.82	38.2%	1,137,822	1,096,852	3.7%
Foreign Exchange Futures	181	0	-	158.32	14.3%	133	0	306529.6%
Ags Futures	86	0	-	31.82	169.4%	21	0	-
<b>TOTAL FUTURES</b>	<b>14,489,587</b>	<b>16,609,209.29</b>	<b>-12.8%</b>	<b>11,306,169.18</b>	<b>28.2%</b>	<b>12,890,132.91</b>	<b>12,572,718</b>	<b>2.5%</b>
<b>TOTAL OPTIONS GROUP</b>								
Interest Rate Options	2,028,744	2,698,947.67	-24.8%	2,348,638.18	-13.6%	2,150,423	1,793,893	19.9%
Equity Index Options	757,608	802,968.43	-5.6%	628,042.68	20.6%	673,776	635,608	6.0%
Metals Options	42,548	70,679	-39.8%	43,817.68	-2.9%	47,015	46,436	1.2%
Energy Options	376,259	404,799.05	-7.1%	281,458.36	33.7%	324,787	323,300	0.5%
FX Options	83,372	84,404.81	-1.2%	80,627.05	3.4%	79,114	72,837	8.6%
Commodities and Alternative Invest	201,351	189,678.67	6.2%	200,909.36	0.2%	245,094	255,107	-3.9%
Foreign Exchange Options	30	0	-	0	-	3	0	-
<b>TOTAL OPTIONS</b>	<b>3,489,912</b>	<b>4,251,477.62</b>	<b>-17.9%</b>	<b>3,583,493.32</b>	<b>-2.6%</b>	<b>3,520,212.98</b>	<b>3,127,181.12</b>	<b>12.6%</b>

\*\*\* Note - KC HRW Wheat monthly and YTD volume comparatives to prior year is not using a complete year, since collection of 2013 volume data did not start until April 15, 2013.

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	ADV NOV 2017	ADV NOV 2016	% CHG	ADV OCT 2017	% CHG	ADV Y.T.D 2017	ADV Y.T.D 2016	% CHG
<b>TOTAL COMBINED</b>								
Commodities and Alternative Invest	1,556,506	1,365,757.14	14.0%	1,181,420.18	31.7%	1,382,916	1,351,959	2.3%
FX	914,663	981,952.05	-6.9%	887,503.41	3.1%	911,200	850,534	7.1%
Equity Index	2,720,259	3,175,505.67	-14.3%	2,236,209.82	21.6%	2,649,787	3,076,342	-13.9%
Interest Rate	9,348,074	11,847,550.38	-21.1%	7,624,416.68	22.6%	8,300,734	7,533,246	10.2%
Energy	2,690,377	2,771,928.48	-2.9%	2,394,617	12.4%	2,594,239	2,418,446	7.3%
Metals	749,323	717,993.19	4.4%	565,305.27	32.6%	571,312	469,372	21.7%
Foreign Exchange	211	0	-	158.32	33.4%	136	0	312868.1%
Ags	86	0	-	31.82	169.4%	21	0	-
<b>GRAND TOTAL</b>	<b>17,979,499</b>	<b>20,860,686.91</b>	<b>-13.8%</b>	<b>14,889,662.5</b>	<b>20.8%</b>	<b>16,410,345.89</b>	<b>15,699,899.12</b>	<b>4.5%</b>

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