

<b>DK Analytics portfolio pre-dividend, pre-commission, equally-weighted annualized IRR*:</b> <b>(UN-AUDITED)</b>				<b>3.0%</b>	
	<b>(absolute gain/loss of portfolio over period):</b>		<b>3.6%</b>		
<b>Index performance</b>					
	<b>Index level on</b>	<b>Index level on</b>	<b>absolute</b>		
	<b>October 30, 2015 #</b>	<b>December 30, 2016 #</b>	<b>% gain/loss</b>	<b>annualized return</b>	
<b>MSCI ACWI Index**</b>	411	422	2.6%	2.2%	
<a href="https://www.msci.com/acwi">https://www.msci.com/acwi</a>					
<b>S&amp;P 500 Index***</b>	2,079	2,239	7.7%	6.5%	
<a href="http://www.bloomberg.com/quote/SPX:IND">http://www.bloomberg.com/quote/SPX:IND</a>					
<b>World Government Bond Index****</b>	882	882	0.1%	0.1%	
<a href="https://www.yieldbook.com/x/ixFactSheet/factsheet_daily_usd.pdf">https://www.yieldbook.com/x/ixFactSheet/factsheet_daily_usd.pdf</a>					
<b>US Treasury Bond Index*****</b>	124	124	0.2%	0.2%	
<a href="http://www.bloomberg.com/quote/BUSY:IND">http://www.bloomberg.com/quote/BUSY:IND</a>					

by: DK  
December 31, 2016

relative performance  
on annualized return basis  
("DK Analytics" vs. indices)  
**0.8%**  
**-3.5%**  
**3.0%**  
**2.9%**

**PLEASE NOTE: FUTURE RESULTS MAY DIFFER SUBSTANTIALLY FROM HISTORICAL PERFORMANCE EITHER IN TERMS OF INDIVIDUAL INVESTMENT IDEAS OR THE DK ANALYTICS MODEL PORTFOLIO AS A WHOLE. EITHER INDIVIDUAL INVESTMENT IDEAS OR THE MODEL PORTFOLIO AS A WHOLE MAY LOSE VALUE. "TRANCHES" REPRESENT OUTSIZED INITIAL POSITIONS**

<b>DK Analytics pre-dividend model portfolio performance history detail from October 30th 2015 onwards:</b> <b>(un-audited)</b>	<b>coding history</b> <b>(buy/hold/sell)</b>	<b>asset price on</b> <b>October 30, 2015</b> <b>or when bought if later!</b>	<b>asset price on</b> <b>December 30, 2016</b> <b>or when sold if earlier!</b>	<b>absolute nominal</b> <b>% gain/loss</b>	<b>assume \$10,000 invested</b> <b>in each asset on</b> <b>October 30, 2015</b> <b>(or when bought if later)</b>	<b>value of \$10,000 invested</b> <b>in each asset on</b> <b>December 30, 2016</b> <b>(or when sold if earlier)</b>
<b>Strategic (long-term) positions:</b>						
<b>Silver per Troy ounce "physical silver," "tranche 1"</b> <a href="https://www.bullionvault.com/silver-price-chart.do">https://www.bullionvault.com/silver-price-chart.do</a>	buy	\$15.61	\$15.93	2.0%	\$10,000	\$10,205
<b>Silver per Troy ounce "physical silver," "tranche 2"</b> <a href="https://www.bullionvault.com/silver-price-chart.do">https://www.bullionvault.com/silver-price-chart.do</a>	buy	\$15.61	\$15.93	2.0%	\$10,000	\$10,205
<b>Gold per Troy ounce "physical gold"</b> <a href="https://www.bullionvault.com/gold-price-chart.do">https://www.bullionvault.com/gold-price-chart.do</a>	buy	\$1,147.41	\$1,151.34	0.3%	\$10,000	\$10,034
<b>Cash (not exposed to bail-in variety) , "tranche 1"</b> Zero interest rate assumption	"buy"	\$10,000.00	\$10,000.00	0.0%	\$10,000	\$10,000
<b>Cash (not exposed to bail-in variety), "tranche 2"</b> Zero interest rate assumption	"buy"	\$10,000.00	\$10,000.00	0.0%	\$10,000	\$10,000
<b>Energy Select Sector SPDR ETF (XLE) "oil"</b> <a href="http://finance.yahoo.com/q?s=xle&amp;fr=uh3_finance_web&amp;uhb=uhb2">http://finance.yahoo.com/q?s=xle&amp;fr=uh3_finance_web&amp;uhb=uhb2</a>	buy	\$68.03	\$75.32	10.7%	\$10,000	\$11,072
<b>PowerShares Dynamic Oil &amp; Gas Svs Portfolio ETF (PXJ) "oil &amp; gas services"</b> <a href="http://finance.yahoo.com/q_vlt=ApwAszuG2TGVPII0upR_FJF4?uhb=uhb2&amp;fr=uh3_finance_vert_gs&amp;type=2button&amp;sp=1">http://finance.yahoo.com/q_vlt=ApwAszuG2TGVPII0upR_FJF4?uhb=uhb2&amp;fr=uh3_finance_vert_gs&amp;type=2button&amp;sp=1</a>	buy	\$13.60	\$12.77	-6.1%	\$10,000	\$9,390
<b>Market Vectors Coal ETF (KOL) "coal"</b> <a href="http://finance.yahoo.com/q_vlt=ApwAszuG2TGVPII0upR_FJF4?uhb=uhb2&amp;fr=uh3_finance_vert_gs&amp;type=2button&amp;s=kol">http://finance.yahoo.com/q_vlt=ApwAszuG2TGVPII0upR_FJF4?uhb=uhb2&amp;fr=uh3_finance_vert_gs&amp;type=2button&amp;s=kol</a>	buy	\$8.10	\$12.26	51.4%	\$10,000	\$15,136
<b>Market Vectors Agribusiness ETF (MOO) "ag," "tranche 1"</b> <a 5",allowchartstacking="" href="http://finance.yahoo.com/echarts?s=MOO+interactives#range=">true"&gt;http://finance.yahoo.com/echarts?s=MOO+interactives#range="5",allowChartStacking&gt;true</a>	buy	\$48.48	\$51.34	5.9%	\$10,000	\$10,590
<b>Market Vectors Agribusiness ETF (MOO) "ag," "tranche 2"</b> <a 5",allowchartstacking="" href="http://finance.yahoo.com/echarts?s=MOO+interactives#range=">true"&gt;http://finance.yahoo.com/echarts?s=MOO+interactives#range="5",allowChartStacking&gt;true</a>	buy	\$48.48	\$51.34	5.9%	\$10,000	\$10,590
<b>Tactical positions:</b>						
<b>Ultrashort QQQ ETF (QID) "NASDAQ 100 short"</b> <a 5d",allowchartstacking="" href="http://finance.yahoo.com/echarts?s=QID+interactives#range=">true"&gt;http://finance.yahoo.com/echarts?s=QID+interactives#range="5d",allowChartStacking&gt;true</a>	buy	\$29.57	\$23.93	-19.1%	\$10,000	\$8,093
<b>Pro-Shares Short High Yield ETF (SJB) "junk bond short"</b> <a href="http://finance.yahoo.com/q?s=SJB">http://finance.yahoo.com/q?s=SJB</a>	buy	\$27.52	\$24.64	-10.5%	\$10,000	\$8,953
<b>Placed on sell and then deleted from DK Analytics model portfolio.</b>					\$120,000	\$124,267

\* IRR, or internal rate of return, determined w/ Excel IRR function, monthly compounding, and portfolio cashflow stream based on "initial buy" (or based on 10/30/2015 prices) and on "initial sell" (or on period-end prices); UN-AUDITED  
(An IRR-based performance tabulation is meaningful/representative of reality only as long as the invested capital isn't materially altered by non-repeating or one-time cash inflows and cash outflows.)

# - Based on stated date or on closest available date

\*\* MSCI ACWI captures large and mid cap representation across 23 DM and 23 EM countries. With 2,476 constituents, the index covers approximately 85% of the global investable equity opportunity set. <https://www.msci.com/acwi>

\*\*\* The S&P 500 Index is widely regarded as the best single gauge of large-cap U.S. equities. The index includes 500 leading companies and captures approximately 80% coverage of available market capitalization. <http://us.spindices.com/indices/equity/sp-500>

\*\*\*\* The unhedged, \$-based World Government Bond Index (WGBI) measures performance of fixed-rate, investment grade sovereign bonds. The WGBI provides broad benchmark for global sovereign fixed income mkt. [https://www.yieldbook.com/https://www.yieldbook.com/x/ixFactSheet/factsheet\\_daily\\_usd.pdf](https://www.yieldbook.com/https://www.yieldbook.com/x/ixFactSheet/factsheet_daily_usd.pdf)

\*\*\*\*\* The raw data for Treasury bond and bill returns is obtained from the Federal Reserve database in St. Louis (FRED)

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**ETF FACT SHEETS:**

- [https://www.spdrs.com/library/content/public/ETF-XLE\\_20150930.pdf](https://www.spdrs.com/library/content/public/ETF-XLE_20150930.pdf)
- <https://www.invesco.com/static/us/investors/contentdetail?contentId=955407c649400410VgnVCM1000046f1bf0aRCRD>
- <https://www.vaneck.com/library/market-vectors-etfs/kol-fact-sheet-pdf/>
- <https://www.vaneck.com/library/market-vectors-etfs/moo-fact-sheet-pdf/>
- <http://www.proshares.com/funds/qid.html>
- <http://www.proshares.com/funds/sjb.html>

**PLEASE NOTE:** the IRR-based performance comparisons below are theoretical and pre-commission. Moreover, they are un-audited. The DK Analytics model portfolio is not intended to offer adequate diversification nor can it be construed to be investment advice. Readers are strongly encouraged to seek registered investment advisors for encompassing and continuing portfolio advice/portfolio management that is tailored to unique individual investor needs, profiles, and risk tolerances while providing for requisite diversification. Past performance is not a guarantee of future results. Nothing in this model performance worksheet should be understood to be a solicitation to buy or sell securities. Information provided has been prepared from sources deemed to be reliable, but they are not guaranteed. Liquid securities can fall in value. Capital losses associated with the DK Analytics model portfolio positions may occur. Given the relatively low model portfolio diversification, model portfolio results will fluctuate significantly in both absolute and relative-to-indices terms. For more details, see: [http://dkanalytics.com/pdfreports/wp-content/uploads/2015/12/A-supplement-to-first-DK-Analytics-model-portfolio-performance-report-12\\_1\\_15\\_n.pdf](http://dkanalytics.com/pdfreports/wp-content/uploads/2015/12/A-supplement-to-first-DK-Analytics-model-portfolio-performance-report-12_1_15_n.pdf) Dan Kurz, CFA, lead editor, DK Analytics; dan@dkanalytics.com; www.dkanalytics.com