Tables & Charts – November 2016 Edition

Commodities Buck Trump and Strong Dollar

- Commodities buck the strong dollar, shifting focus to industrials
- Industrial metals lead the optimistic commodity market to modest gains
- Trump election sparks a historic shift in metals: precious to industrial
- Energy recovers on the last day sparked by OPEC production cut signal
- Agriculture is soured by weak softs but soybeans buck harvest pressure on strong demand
- Surges to new records in copper and crude oil open interest indicate a relative value shift

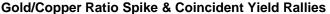
Mike McGlone - BI Senior Analyst; Commodities. BI COMD (the commodity dashboard)

Industrial Metals Lead Commodity Optimism in November

Performance: Nov. +1.3%, YTD +9.8%. Spot +20.4%. (returns are total return (TR) unless noted)

Led by copper and the best month for the industrial metals since September 2012 -- coincident with the worst month for bonds -- the commodity market bucked the strong dollar in November amid optimism for economic growth in a Trump administration. The <u>Bloomberg Commodity Index (BCOM)</u> gained 1.3% in November for a 2016 total return of 9.8%, on a spot increase of 20.4%. The extreme divergence of industrial metals' strength vs. precious metals' weakness should have positive macroeconomic implications.

Strength in the <u>U.S. dollar</u>, <u>bond yields</u> and <u>stock market</u> after President-elect Donald Trump's win accelerated a shift from safe havens to industrial metals. The 10-year monthly beta of the BCOM to the <u>Bloomberg Dollar Spot index</u>, near negative 1.6, indicated a risk of decline over 6% in November.





Industrial Metals Top Performer, Precious the Bottom

Market Commentary

Commitment of Traders

Research Dashboards

Inventories & Sales Term Structures

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Metals

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Volatility Correlation

BI COMD data

Performance Attribution & Weights

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Security	Nov. % Chg	t Chg QTD %	YTD % Chq	1Yr % Chg	2Yr % Chg
Bloomberg Industrial Metals Su	+10.3%		+26.3%		
Bloomberg Livestock Subindex T	+4.3%	+9.8%	-14.2%		
Bloomberg Energy Subindex Tota	+4.3%	+1.4%	+6.6%	-4.6%	-49.2%
Bloomberg Grains Subindex Tota	-2.5%	+2.1%	-5.3%	-7.7%	-22.8%
Bloomberg Agriculture Subindex	-2.9%	+.2%	+4.5%	+3.4%	-13.5%
BBG Softs TR	-7.0%	-7.8%	+17.5%	+20.6%	-2.3%
Bloomberg Precious Metals Subi	-8.0%		+11.9%	+11.0%	

MACRO OUTLOOK

Reflation or Just Reversion - Commodities & Bond Yields Rallying. Commodities and bond yields rallying in tandem is a clear signal of global economic normalization. While the <u>Bloomberg Commodity Index (BCOM)</u> total return appears to be finally recovering from an unprecedented five successive down years, the greater risk of reflation or normalization may be with the stock and bond markets. The U.S. 10-year Treasury yield jumped 55 bps in November, the greatest monthly leap since 2009, but ended the month at 2.39%, up only about 10 bps in 2016.

Stocks Up & Bonds Down - BCOM Up

Security	Nov. % Chg		† Chg OTD %		1Yr % Chg	2Yr % Chg
S&P 500 Total Return Index	+4.0%			+10.1%		11.3%
Bloomberg Dollar Spot	+3.9%		+6.1	+1.9%	+1.4%	13.4%
MSCI World Net TR USD Index	+1.6%			+5.2%	+3.3%	2.6%
Bloomberg Commodity Index Tota	+1.3%		+.8	+9.8%	+6.4%	-23.6%
Bloomberg Barclays US Corporat	6%		2	+14.8%	+11.9%	8.1%
Bloomberg Barclays U.S. Treasu	-6.7%		-10.7	+3.2%	+3.2%	4.8%

Similar to the 1987 market crash when stocks ended the year with slight gains, Treasury bonds approach year's end with slight gains after the lowest yields in history. If economic normalization is returning, long-suffering commodities may take the baton from bonds.

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SECTOR PERFORMANCE

Commodities Radiate Economic Optimism on New Administration. The sharp divergence in industrial metals strength vs precious weakness was the primary performance story in November. Mean reversion was at play as beaten-up copper finally joined the metals recovery in 2016, boosting the Bloomberg Industrial Metals Subindex to 2016's lead, up 26.3%. On a two-year return basis, industrial metals remained down 12% vs. precious unchanged. Industrial-metal rallies relative to precious metals have a high correlation with increasing bond yields.

Energy prices kept to a narrow range amid optimism for OPEC production cuts. Pressured by high negative roll.yields, flattening curve contangos indicate improvement. Weak soft commodities, namely sugar and coffee, on the back of the plunging Brazilian real, pressured agricultural commodities.

CURVES & FLOWS

Commodities Shift to Industrial From Precious Metals in November. Reflecting economic optimism in a Donald Trump administration, market flows in November neared records into industrial commodities and energy, and away from safe-haven precious metals. Copper futures open interest on the LME and CME, combined, surged to a record. Outflows from precious metals ETFs reached levels not seen since 2013's gold plunge. Combined WTI crude oil and Brent open interest also leaped to records, but absent a discernible price trend, leaving it vulnerable to volatility.

The disparity of divergent strength in copper vs. weakness in gold near 30% was the month's most extreme since November 1987. The highest-velocity plunge in the gold-to-copper ratio since the 2009 financial crisis has strong inverse implications for U.S. bond yields

ATTRIBUTION

BCOM 2016 Performance Through November



Note, PORT data for the BCOM is a rough approximation

Industrial Metals Run Close to Energy as Commodity Performance Leader. The energy sprint on the last day of November nudged the sector to the top contributor to 2016 Bloomberg Commodity Index (BCOM) total returns, accounting for about 40% of total index returns with near 390 bps. The industrial metals sector is the close second with near 360 bps of total return contribution. The 68% rally in zinc is the largest metals contributor, adding about 140 bps to total returns (about the same as brent crude) vs. 120 bps from copper. Agriculture, led by the 17.5% rally in soft commodities, is the third-highest sector-return contributor, accounting for about 210 bps. Precious metals pulled back to about 70 bps of contribution. Livestock remained the only drag on index total returns, subtracting about 70 bps.

2016 Spot Futures Changes – Zinc in the Lead Wheat and Live Cattle the Laggards

Name	2016↑	2015	2014	2013	2012	2011
■ BCOM Single Commodity Price						
Zinc	68.1%	-26.2%	6.0%	-0.5%	12.2%	-25.2%
Natural Gas	43.3%	-19.1%	-31.7%	26.2%	12.1%	-32.1%
Heating Oil	42.78	-40.4%	-40.0%	1.1%	3.8%	15.4%
Gas Oil	37.4%	-36.3%	-45.8%	1.9%	0.3%	21.2%
Palladium	36.5%	-29.6%	11.28	2.1%	7.2%	-18.3%
Brent Crude	35.4%	-35.0%	-48.3%	-0.3%	3.5%	13.3%
WTI Crude	32.3%	-30.5%	-45.9%	7.2%	-7.1%	8.2%
Sugar	30.0%	5.0%	-11.5%	-15.9%	-16.3%	-27.5%
Nickel	25.6%	-41.8%	9.0%	-18.6%	-9.2%	-24.2%
Copper (CME)	23.4%	-24.48	-16.8%	-7.0%	6.3%	-22.7%
Copper (LME)	23.4%	-25.8%	-13.9%	-6.8%	4.2%	-21.2%
Soybean Oil	20.4%	-4.48	-17.6%	-21.0%	-5.6%	-9.8%
Soybean Meal		-27.5%	-16.7%	4.1%	35.9%	-16.4%
Silver	19.5%	-11.5%	-19.5%	-35.9%	8.3%	-9.8%
Soybeans	18.5%	-14.5%	-22.3%	-7.5%	18.4%	-14.0%
Gasoline	16.7%	-11.7%	-48.5%	-0.9%	4.78	9.5%
Coffee	16.48	-23.98	50.5%	-23.0%	-36.6%	-5.7%
Aluminum	15.1%	-17.9%	4.1%	-13.9%	2.5%	-18.8%
Cotton	14.5%	5.0%	-28.8%	12.6%	-18.1%	-36.6%
Gold	10.3%	-10.5%	-1.5%	-28.3%	7.0%	10.2%
Platinum	1.8%	-26.2%	-11.8%	-10.9%	9.98	-21.1%
Corn	-6.1%	-9.6%	-5.9%	-39.6%	8.0%	2.8%
Lean Hogs	-14.78	-26.4%	-4.98	-0.3%	1.78	
HRW Wheat	-16.5%	-25.2%	-2.2%	-22.9%	15.9%	-15.7%
Live Cattle	-19.0%	-16.4%	21.5%	1.8%	8.9%	12.1%
Wheat	-19.0%	-20.3%	-2.6%	-22.2%	19.28	-17.8%

BI COMD

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Energy (Index weight: 30.4% of BCOM. Performance: Nov. +4.3%, YTD +6.6%. Spot +34.4%) *Note index weights are the YTD average

Energy Sector Teeters on Dollar, Trump, OPEC

PERFORMANCE DRIVERS

Energy Hangs on OPEC Despite Trump, the Dollar and Seasonals. Energy commodities may be showing divergent strength, or are pausing to refresh the downtrend. The most significant production cut signal from OPEC since 2008 supported energy in November, despite a U.S. dollar surge and pressure due to Donald Trump's election victory and reduced energy regulation rhetoric. The Bloomberg Energy Subindex November increase of 4.3% may indicate divergent strength vs. historical trends for the month and the 3.9% surge in the Bloomberg Dollar Spot Index.

Natural Gas: The Primary Energy Gainer in November

, Security	November Chg	Chg QTD %	YTD % Chg	1Yr % Chg	2Yr % Chg
Bloomberg Natural Gas Subindex	+5.0%	+5.1%	8%	4%	-57.6%
Bloomberg Unleaded Gasoline Su	+4.6%	+1.5%	-4.1%	-7.9%	-32.4%
Bloomberg WTI Crude Oil Subind	+4.2%	+.5%	+.4%	-14.6%	-54.9%
Bloomberg Brent Crude Subindex	+3.7%	6%	+15.9%	-4.6%	-48.4%
Bloomberg Heating Oil Subindex	+3.6%	+.3%	+22.8%	28	-39.8%

The <u>Bloomberg Energy Subindex</u> fell an average of 3.6% in November in seven of the past 10 years. Fears of a colder-than-normal winter supported <u>natural gas</u>, up 5.0% -- and the only energy gainer before the OPEC meeting on November 30. Since the start of 2014, the monthly beta of the energy index to the <u>dollar index</u> is minus 2.3.

Energy Cage Continues to Compress, Increasing Breakout Potential. The indication is crude oil is ripe for some volatility soon. WTI crude trades in a narrowing range of \$43-\$49 a barrel in the month, ending at the top, amid a record surge in open interest and strong ETF inflows. Over-optimism may be the greater risk. Winterweather risks supported natural gas, offsetting some pre-OPEC pressure from WTI and Brent, which sprinted over 8% higher on the last day of November on the indication of a production cut.

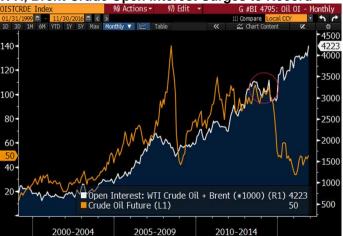
The <u>Bloomberg Energy Subindex</u> was up 4.3% in November, with a 2016 total return of 6.6% and a spot gain of 34.4%. The <u>gross annual roll yield</u> near minus 30% reflects the steep <u>contango-shaped futures curves</u> of the past 12 months. Brent and <u>WTI one-year curves</u>

narrowed to near 10% from about 17% a year ago.

ENERGY - CURVES & FLOWS

Record Crude Oil Open Interest May Leave the Market Vulnerable. The most recent similar surge to new highs in combined WTI and Brent open interest occurred during the consolidation period of 2013-14, peaking in June 2014. This combined OI measure continued its climb as the market consolidated, making it more vulnerable to long liquidation. Open interest typically tracks prices, making the record shift higher absent a price trend -- a bit of an anomaly. Combined WTI and Brent crude oil open interest surged to a record high of 4.3 million contracts in November.

WTI, Brent Crude Open Interest Surges to Record



Long energy ETF inflows in November of \$1.5 billion are the highest on a monthly basis since February. Delta weighted, total ETF energy flows were near \$3 billion. The correlation between monthly net energy ETF flows and percentage change of the Bloomberg Energy Subindex has been near negative 0.6 since 2009.

ENERGY – OUTLOOK

Catch-Up to Surging Dollar May Spur Crude Oil Risk Back to \$30. Energy may either be showing divergent strength despite the recent surge in the U.S. dollar, or delaying a potential plunge back to the coincident "dollar up, energy down" trend since the start of 2014. Crude oil could trade near \$30 a barrel if it catches up to levels matching the Bloomberg Dollar Spot index at the end of November. Since the start of 2014, the Bloomberg Energy Index has declined 2.3% on average when the dollar rallied 1%.

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Crude Oil Bucks U.S. Dollar Surge in November



The Bloomberg Energy Subindex-to-Dollar Spot Index's negative beta of 2.3x suggests energy could have declined near 9% in November, based on the dollar index gain of 3.9%. Crude oil may increasingly depend upon strong signals from OPEC to curtail some catch-up to coincident trends.

Front Energy Futures

Ticker	Last	Chg MTD % 1 Yr Ago			Chg YTD %
+ Generic 1st 'NG' Future	3.3 +10.6	% 2.2	4.1	+49.7%	+43.2%
+ Generic 1st 'HO' Future	157.1 +5.0%	133.7	223.1	+17.5%	+42.7%
+ Generic 1st 'CL' Future	49.0 +4.5%	41.7	66.2	+17.6%	+32.2%
+ Generic 1st 'CO' Future	50.5 +4.5%	44.6	70.2	+13.1%	+35.4%
+ Generic 1st 'XB' Future	149.1 +2.8%	135.9	190.4	+9.7%	+17.7%

Energy ETFs had Strong Inflows in Nov. Precious Metals Strong Outflows

Frecious Metais Strong	y Out	IIOWS				
Name	11/2016↑	10/2016	9/2016	8/2016	7/2016	6/2016
ETFs (\$ Billion AUM)						
■ Total ETF Assets Under Managem	167.14	181.19	190.14	183.16	186.71	181.35
■ Precious Metals	134.63	149.94	157.67	152.09	155.69	149.00
■ Broad Commodity	15.08	15.43	15.21	15.10	15.58	15.04
■ Energy	14.30	12.69	14.16	12.93	12.33	14.35
■ Agriculture	1.92	2.07	2.14	2.08	2.12	2.20
■ Industrial Metals	1.18	1.04	0.95	0.94	0.97	0.75
■ Livestock Index	0.03	0.02	0.01	0.01	0.01	0.01
■ ETFs Fund Flows (\$ Billion)						
■ Total ETF Fund Flows (\$ Billion)	-3.25	0.51	1.46	0.59	6.15	5.95
	1.54	-0.93	0.32	-0.53	0.88	-0.14
■ Industrial Metals	0.04	0.07	-0.03	0.01	0.19	-0.02
■ Livestock Index	0.01	0.01	0.00	0.00	0.00	0.00
■ Agriculture	-0.08	0.01	0.01	0.04	0.05	-0.04
■ Broad Commodity	-0.20	0.00	-0.45	-0.33	1.25	0.40
■ Precious Metals	-4.57	1.35	1.60	1.41	3.78	5.74

Metals

Industrial (Index weight: 15.1% of BCOM. Performance: November +10.3, YTD +26.3%)

Precious (Index weight: 14.8% of BCOM. Performance: November -8.0%, YTD +11.9%)

Industrial Metals Take the Baton from Precious

PERFORMANCE DRIVERS

Trump Sparks Historic Shift in Metals: Precious to Industrial. The extreme divergence of industrial metals' strength vs. precious metals' weakness should have positive macroeconomic implications. The 18% dispersion in the Bloomberg Industrial Metals Subindex in November, with a gain of 10.3% countered by the 8.0% decline in precious metals, was the most in BCOM index history since 1991. Due to the approximate equal weight of both subindexes, the metals combined were up about 2% in November, led by a 18.9% gain in copper. Strong October China PMI was a contributing factor.

Copper the Stud in Nov., Gold and Silver the Duds

: Security	November Chg	Chg QTD %	YTD % Chg	1Yr % Chg	2Yr % Chg
Bloomberg Copper Subindex Tota	+18.9%	+18.7%	+21.6%	+26.7%	-9.6%
Bloomberg Zinc Subindex Total	+9.6%	+13.1%	+65.5%	+69.9%	16.9%
Bloomberg Nickel Subindex Tota	+7.3%	+6.1%	+25.7%	+24.4%	-33.0%
Bloomberg Aluminum Subindex To	3%	+3.3%	+12.2%	+16.5%	-20.9%
Bloomberg Silver Subindex Tota	-7.9%	-14.7%	+17.5%	+15.1%	2.8%
Bloomberg Gold Subindex Total	-8.0%		+9.8%	+9.3%	

The potential for economic growth and inflation is unlikely to be bad for gold or silver -- it just may be better for industrial metals. Strength in the U.S. dollar, bond yields and stock market in the aftermath of the election of Donald Trump accelerated a shift from safe havens to industrial metals.

Extreme Copper-Up, Silver-Down Divergence Positive **Macro Signal.** Beaten-up copper revived in November to be the commodity stud of the month as measured by the 18.9% gain in the Bloomberg Copper Subindex, its best month since March 2009. Copper essentially played catch-up to most other metals, coal and iron ore. On a two-year basis, copper is ending November still down 9.6% vs. best performers zinc (up 16.9%) and silver (2.8% gain). The spot price copper-up, silver-down

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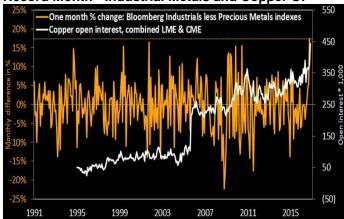
divergence near 30% on the month was the most extreme in Bloomberg data history since 1986.

March 2009, the crisis low in the stock market, was the most recent similar monthly example of copper-up, silver-down -- <u>LME 3-month copper</u> rallied 17% and <u>silver</u> declined 1%. Increasingly linked through electrical applications, more industrial copper also set new futures position records in November.

METALS - CURVES & FLOWS

Industrial-Precious Metal Divergence Historically Unprecedented. Copper traded on both the CME and LME set new futures open interest (OI) and net managed-money long-position records in November, indicating potential excessive optimism in the shorter term. This also indicates the multiyear copper lows reached in February may mark a longer-term bottom for prices. Up 41% in 2016 as of the end of November, combined CME and LME copper open interest was last exceeded on an annual basis by the 48% increase in the crisis recovery year of 2009, when CME copper futures gained 137%.

Record Month - Industrial Metals and Copper OI



Due to its economic significance and high trading liquidity, copper is the highest-weighted metal in the <u>Bloomberg Industrial Metals Subindex</u> at about 40%. It also has been the leading laggard for most of 2016, unable to sustain a gain of more than 5% until November.

<u>METALS - OUTLOOK</u>

A Little Reversion: Bond Yields & Industrial vs. Precious Metals. The November jump in bond yields and the spread between industrial metals vs. precious metals may be just a bounce from historically depressed levels or a new beginning. Historical mean reversion trends suggest markets were ripe for an excuse to revert and may be in the early stages. The past five-year high in the

U.S. Treasury 10-year yield near 3% and the average in the <u>Bloomberg Industrial Metals Subindex</u> divided by the precious metals spread, near 1.1 since 1991, may mark good coincident resistance levels (chart below).

Industrial Metals and Bond Yields Recover



With a ratio of 0.7 at the end of November, the <u>Bloomberg Industrial Metals Subindex</u> would have to jump about 50% relative to unchanged precious metals to return to the historic mean between the two indexes, or precious metals would have to drop by about one-third. Trump may be the spark that bottoms this ratio.

Open Interest 2016 Changes - Copper the leader

Name	Current		MTD %	3 Mth %			2 Year
			Change	Change	Change	Change	High
■ Open Interest (Aggregate - 1,000s)							
Copper (LME)	209						
Copper (CME)	232				30	41	243 262
Cotton	255				43 9	48 -8	
Lean Hogs	219				9		267
HRW Wheat	248				31	72	
Wheat	451				21 16		514
Natural Gas	1,164					21 22	
Crude Oil	2,014			14			2,070
Gas Oil	823				15		
Heating Oil	395				11		436
Nickel	166				19		
Zinc	187				9		224 479
Soybean Oil	428				-3 2	14	
Soybean	709		13	11			896
Brent Crude	2,209					48	
Live Cattle	288					-11	
Palladium	26						
Coffee	186			13	9	24 19	
Unlead Gas	372						
Platinum	68			-14	-11		84
Gold	411		-19	-26			658
Silver	163		-16	-15	-1	10 5 6	
Corn	1,264						
Aluminum	517				-10		667
Sugar	821						
Soybean Meal	370	-8	-2	5	-12	1	431

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Agriculture (Index weight: 27.1% of BCOM. Performance: November -2.9%, YTD +4.5)

Grains (Index Weight: 19.9% of BCOM. Performance: November -2.5%, YTD -5.3%)

Softs (Weight: 7.2% of BCOM. Performance: November -7.0%, YTD +17.5%)

Record Harvests and Sugar Sour Agriculture

PERFORMANCE DRIVERS

Soybeans Buck Trend of Souring Ags Despite Record Harvest. A seemingly ho-hum month for the Bloomberg Agriculture Subindex, down 2.9% in November, masks some significant developments. The primary agriculture component, the soybean complex (beans, meal and oil) rose despite the largest harvest in U.S. history, increasing about 3% in a month when declining prices are common. Corn and wheat were pressured by harvest selling as South American-produced coffee and sugar plunged with the Brazilian real.

Sugar gave back 8%, though is still up 27% in 2016. Live cattle bounced from a six-year low to lead November agriculture gainers, lessening the <u>Bloomberg Livestock Subindex</u> to a 14.2% 2016 decline. The <u>Bloomberg Agriculture Subindex</u> ended November with a total return of 4.5% in 2016 on a spot gain of 10.2%.

Soybean and Cattle Strength Offset by Weak Softs

Security	November Chg	Chg	YTD %	1Yr %	2Yr %
		QTD %	Chg	Chg	Chg
Bloomberg Live Cattle Subindex	+7.2%	+10.7%	-10.7%	-7.7%	-26.1%
Bloomberg Soybean Oil Subindex	+4.6%	+9.8%	+15.3%	+19.7%	5.2%
Bloomberg Cotton Subindex Tota		+4.3%	+12.0%	+13.1%	15.6%
Bloomberg Soybeans Subindex To	+2.1%	+7.4%	+19.3%	+16.6%	2.0%
	+.2%	+5.9%	+20.3%	+11.3%	-3.0%
Bloomberg Lean Hogs Subindex T	2%	+8.8%		-14.7%	-44.9%
Bloomberg Corn Subindex Total	-4.2%	+1.0%	-10.7%	-13.9%	-26.3%
Bloomberg Kansas Wheat Subinde	-5.1%				-51.7%
Bloomberg Wheat Subindex Total	-7.2%	-3.9%		-25.9%	-40.6%
Bloomberg Sugar Subindex Total		-13.8%	+24.7%	+27.3%	10.7%
Bloomberg Coffee Subindex Tota	-10.2%		+8.4%	+14.8%	-34.1%

Coffee Dumped With Sugar for a Full Meal of Soybeans & Oil. Soybean production records in the U.S., the world's largest producer, failed to damp the soybean complex rally as the harvest concluded in November. Stronger global soybean demand offset harvest pressure. Prices have declined in four of the last five Novembers, by an average 2.4%. At about a 38% weight in 2016, the soybean complex is the largest component in the Bloomberg Agriculture Subindex. The more than 6%

November decline in the Brazilian real contributed to declines in coffee and sugar, primary exports.

The <u>Bloomberg Softs Subindex</u> November drop of 7.0% was the primary contributor to the 2.9% decline in the broad Bloomberg Agriculture Subindex. A recovery from six-year low prices in <u>live cattle</u> reached in October supported the <u>Bloomberg Livestock Subindex's</u> 4.3% gain.

AGRICULTURE - CURVES & FLOWS

If Record Production Doesn't Pressure Soybeans, Edible Oil Might. Increasing production, already at a record, may be necessary to damp soybean prices, barring a reduction in demand, much of which is coming from edible oil. Higher prices are among the most significant factors that can suppress demand for most commodities. Farmers typically are skeptical of bean oil-driven soybean rallies, given bean meal is the more significant demand source. Not since the 75% soybean rally in 2007 has the palm oil-to-soybean ratio been sustained above the 3.0 level reached at November's end.

Palm Oil-to-Soybean Ratio Is Historically Elevated



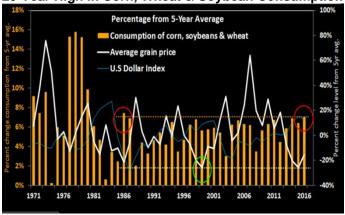
With North American grain bins full, attention has shifted to the South American growing season, in the early days. With few developments of note so far, focus is shifting to the persistent rally in crude palm oil futures, which ended November near a three-year high.

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AGRICULTURE - OUTLOOK

Ags Increasingly Dependent on Sustaining Record Production. Given that record grain production is highly dependent on the weather and record demand is a direct result of lower prices, historical trends favor greater volatility in production to help boost prices and suppress demand. Despite the largest U.S. soybean yield and production year in history, soybean prices have rallied in 2016. Globalization and increasing demand sources are key factors. Corn, soybeans and wheat demand are at 20-year highs.

20-Year High in Corn, Wheat & Soybean Consumption



Classified as an oilseed, soybeans have been supported by strong edible oil demand and shrinking supplies, evidenced by this year's 28% gain in <u>crude palm oil</u> futures on the Malaysia Derivatives Exchange. Higherthan-expected EPA final 2017 biofuel targets added agriculture support in November.

BCOM Broad Indices Total Returns

Ticker	Ticker	YTD Change % 1	Chg MTD %	Chg Pct 1M	Chg QTD Pct	Chg Pct 1Yr	Change 2 Year Percent
+ BBG Cmdty Spot	BCOMSP	+20.4%	+2.4%	+2.4%	+3.2%	+18.2%	
+ BBGCI-F6T	BCOMF6T	+13.8%	+1.5%	+1.5%	+1.8%	+11.0%	
+ BBGCI-F4T	BCOMF4T	+13.6%	+1.6%	+1.6%	+2.0%	+10.7%	
+ BBGCI-F5T	BCOMF5T	+13.2%	+1.5%	+1.5%	+1.7%	+10.4%	
+ BBG RollSelctT	BCOMRST	+12.6%	+1.4%	+1.4%	+1.2%	+9.2%	
+ BBG Cmdty 2 M Fwd TR	BCOMF2T	+11.4%	+1.4%	+1.4%	+1.2%	+8.2%	
+ BBG Cmdty 3 M Fwd TR	BCOMF3T	+11.4%	+1.2%	+1.2%	+1.0%	+8.5%	
+ BBG Cmdty 1 M Fwd TR	BCOMF1T	+10.8%	+1.3%	+1.3%	+.8%	+7.7%	
+ BBG Commodity TR	BCOMTR	+9.8%	+1.3%	+1.3%	+.8%	+6.4%	

DATA on BI COMD

BCOM Individual Commodities Open Interest - Sorted

by YTD change

Name	Current	YTD %	MTD %	3 Mth %	1 Yr %		2 Year
			Change	Change		Change	High
■ Open Interest (Aggregate - 1,000s)							
Copper (LME)	209						
Copper (CME)	230		14	23 12			243
	255		-3 -5 -5		28 43 8		243 262
Lean Hogs	218						267 274
	245					40 48 -8 70	
Crude Oil	2,020			13	22 22	41 19	2,070
	444						
Natural Gas	1,154				14	21 83 5 7	1,193
	832						936
Heating Oil	388 721		-5 15		11		436
Soybean							436 896
Zinc	186		-8			4	224 188
Nickel	164					28	
Soybean Oil	425					13	479
	289						
Palladium	26					-19	38
	186						
Platinum	70			-13		24 9	84
	2,187						
Unlead Gas	365					17 9	431 658
	406						
Aluminum	520			-27 -4	-10		667
Sugar	822						940
Silver	157			-17		-18 -2 1	
	1,237					4	
Soybean Meal	368				-12		

Annualized Roll Yields - BCOM Sectors and Individual Commodities

ame	Current 1Yr Yld	Yld 6 Months Ago	Yld 1 Yr Ago	Change from 1 Yr Ago	Yld 2 Yr Ago	Chang from Yr Ag
Sector Roll Yield						
BCOM Energy			-8.2	-21.8		
ВСОМ	-11.8	-8.5	-4.9	-7.0	0.1	-11.9
BCOM Agriculture			-4.8	-1.8		
BCOM Softs	-5.9	-9.8	-6.5	0.6	-13.4	7.4
BCOM Industrial Metals			-1.8			
BCOM Precious Metals	-1.2	-0.6	-0.6	-0.6	-0.4	-0.7
BCOM Livestock			1.0			
Commodities Roll Yield						
Natural Gas			-12.4	-37.8	0.7	-50.9
Crude Oil	-32.2	-23.0	-9.8	-22.4	5.3	-37.
Gas Oil	-21.5	-13.7	-8.2	-13.3		-19.
Brent Crude	-20.8	-15.1	-14.3	-6.4	8.0	-21.
Unlead Gas			-0.9			
Heating Oil	-15.0	-10.8	-1.5	-13.5	-1.3	-13.
HRW Wheat	-13.0	-11.5	-5.2	-7.9	-1.4	-11.
Coffee	-11.4	-9.0	-5.2	-6.2	-14.5	3.
	-8.5	-4.8	0.7			
Corn	-5.9	-10.2	-11.8	6.0	-6.1	0.
Sugar			-8.8			
Cotton	-5.1	-1.3	1.9	-7.0	5.8	-10.
Soybean Oil						
Aluminum	-3.5	-6.4	-6.0	2.5	-10.2	6.
Zinc	-3.5		-2.2		-4.0	
Silver	-2.3	-1.1	-1.2	-1.1	-0.8	-1.
Lean Hogs						

Measured on a gross roll yield basis; the 251 business day difference between the total return and spot change.

BCOM Broad Indices Total Returns

Name	% Change	WTD %	MTD %	1 Mth %	3 Mth %	YTD %	1 Yr %	2 Yr 9
	on Day	Change	Change	Change	Change	Change	Change	Change
■ Commodities								
■ BCOM Index TR					4.0	9.8		-23.6
Energy Index	6.4	6.4	4.3	4.3	5.6	6.6	-4.6	-49.2
■ Grains Index	-0.8	-2.5	-2.5	-2.5	6.2		-7.7	-22.8
Industrial Metals Index	0.8	-2.3	10.3	10.3	17.6	26.3	30.6	-11.7
■ Precious Metals Index	-1.5	-0.5	-8.0	-8.0	-11.2	11.9	11.0	-0.3
■ Softs Index	0.0	-0.9	-7.0	-7.0	-0.8	17.5	20.6	-2.3
Livestock Index	1.3	-1.2	4.3	4.3	-4.7	-14.2	-10.7	-33.7
Agriculture Index	-0.5	-1.7	-2.9	-2.9	4.4	4.5	3.4	-13.5
■ BCOM EX Indices TR								
■ BCOM Index Roll Select TR	1.7	0.8	1.4	1.4	4.4	12.6	9.2	-19.8
■ BCOM Index Forwards TR								
■ BCOM Index ER	2.0	1.1	1.3	1.3	3.9	9.5	6.1	-23.9
■ BCOM Index Spot			2.4	2.4	6.6		18.2	-9.2
Agriculture Index	-0.5	-1.7	-1.7	-1.7	6.4	10.2	9.3	-4.5
■ Energy Index	6.4	6.4	5.3	5.3	10.9	34.4	25.4	-22.8
■ Industrial Metals Index	8.0	-2.3	10.5	10.5	18.0	28.2	32.8	-7.8
■ Precious Metals Index	-1.5	-0.6	-7.7	-7.7	-10.9	13.1	12.1	1.5
Livestock Index	1.3	-1.2	10.9	10.9	-2.4	-14.4	-10.9	-34.8
Petroleum Index	8.6	7.1	5.5	5.5	10.6	31.5	17.0	-24.7
Ex Indices								
= Stocks								
■ S&P 500 Index TR	0.2	-0.4	4.0	4.0	2.1	10.1	8.3	11.3
= Bonds								
Barclays U.S. Aggregate	0.1	0.4	-2.1	-2.1	-2.9	2.8	2.4	3.4
- Currencies								
Bloomberg U.S. Dollar S	0.5	0.1	3.9	3.9	5.7	1.9	1.4	13.4

Tables & Charts - November 2016 Edition

DATA on BI COMD

Contango (-), Backwardation (+)

Name	Current	1 Yr Ago	1 Yr	YTD	MTD	1 Mth	3 Mth	2 Yr
			Change		Change	Change	Change	Change
■ 1 Year Spread % of First Contract								
Heating Oil			9.2					
Natural Gas	-5.2	-28.4	23.2		4.5	2.3	2.3	-4.6
			6.8					
Brent Crude	-6.1	-16.0	9.9	16.0	3.0	3.6	2.0	1.5
			9.3					
Sugar	8.0	2.7	5.2		0.4	-0.6	3.0	18.7
			8.5					
Soybean Meal	-0.4	-3.5	3.2		-0.7	-1.0	-3.4	-15.8
Soybean		-2.7	4.1					
Soybean Oil	0.1	-3.7 -2.8	3.8		1.2	8.0	3.0	0.9
			2.7					
Aluminum	-0.9	-2.7	1.8		0.7	0.9	1.8	-0.6
			4.6					
Copper (CME)	-0.9	-1.4	0.5		0.4	0.4	8.0	-1.0
			1.7					-3.3 -0.6
Nickel	-1.5	-1.5	0.0		0.1	0.1	0.1	-0.6
			-0.1					
Copper (LME)	-0.1		-0.6		0.7	0.7	0.9	-1.7
			-0.9		-0.1	-0.1		
Platinum	-1.2	-0.4	-0.8	-0.8	-0.1	-0.1	-0.5	-0.7
Gold	-1.5		-1.0		0.0	0.0	-0.2	-1.2
Unlead Gas	-1.3	1.5	-2.9	-2.3	0.1	0.3	4.9	-5.5
Corn	-12.8	-8.2	-4.6	-3.2	-2.9	-2.8	2.0	-1.9
HRW Wheat	-19.4	-15.7	-3.7 -7.6	-4.5	-1.4	-1.2	3.1	-15.9
Lean Hogs	-13.4	-5.8	-7.6	-6.4	11.6	14.4	-11.1	-29.3
Wheat	-22.3	-13.0	-9.3		-4.0	-2.2	2.9	-17.3

Measured via the one-year futures spread as a percent of the first contract price. Negative means the one-year out future is higher (contango). Positive means the one-year out future is lower (backwardation.

Long Only ETF AUM and Flows (monthly)

Long Only Lin Adwi a	IIU I I	UW3 (1	HOHL	11 y <i>j</i>		
Name	11/2016	10/2016	9/2016	8/2016	7/2016	6/2016
ETFs (\$ Billion AUM)						
■ Total ETF Assets Under Manag				183.16	186.71	
Precious Metals	134.63	149.94	157.67	152.09	155.69	149.00
■ Industrial Metals	1.18	1.04	0.95	0.94	0.97	0.75
■ Energy	14.30	12.69	14.16	12.93	12.33	14.35
■ Broad Commodity	15.08	15.43	15.21	15.10	15.58	15.04
■ Agriculture	1.92	2.07	2.14	2.08	2.12	2.20
Livestock Index	0.03	0.02	0.01	0.01	0.01	0.01
■ ETFs Fund Flows (\$ Billion)						
■ Total ETF Fund Flows (\$ Billion)	-3.25	0.51	1.46	0.59	6.15	5.95
■ Precious Metals	-4.57	1.35	1.60	1.41	3.78	5.74
Industrial Metals	0.04	0.07	-0.03	0.01	0.19	-0.02
■ Energy	1.54	-0.93	0.32	-0.53	0.88	-0.14
■ Broad Commodity	-0.20	0.00	-0.45	-0.33	1.25	0.40
+ Agriculture	-0.08	0.01	0.01	0.04	0.05	-0.04
■ Livestock Index	0.01	0.01	0.00	0.00	0.00	0.00

Long Only ETF AUM and Flows (annual)

Long Only Lin Admiand	IUWS	(ai ii iu	ai <i>j</i>		
Name	2016	2015	2014	2013	2012
ETFs (\$ Billion AUM)					
■ Total ETF Assets Under Manag	171.01	118.80	112.84	126.60	226.47
■ Precious Metals	137.57	93.07	87.24	97.80	191.74
■ Industrial Metals	1.21	0.62	1.14	1.08	1.31
■ Energy	14.38	11.48	5.78	4.88	7.13
■ Broad Commodity	15.75	11.71	16.16	20.07	22.92
■ Agriculture	2.07	1.90	2.49	2.73	3.31
Livestock Index	0.03	0.02	0.03	0.05	0.06
ETFs Fund Flows (\$ Billion)					
■ Total ETF Fund Flows (\$ Billion)	31.92	9.57	1.39	-43.37	20.88
■ Precious Metals	27.47	-3.90	-3.79	-39.82	19.20
■ Industrial Metals	0.33	-0.18	0.19	-0.09	0.25
	1.99	13.79	3.81	-3.11	1.72
■ Broad Commodity	1.94	0.00	1.46	-0.35	0.53
■ Agriculture	0.17	-0.13	-0.26	0.01	-0.80
Livestock Index	0.01	-0.01	-0.02	-0.01	-0.03

Delta Weighted ETF AUM and Flows (monthly)

Name	11/201	10/2016	9/2016	8/2016	7/2016	6/2016
■ ETFs (\$ Billion AUM)						
Total ETF Assets Under Manag	170.49	183.65	192.87	184.88	188.83	184.55
■ Agriculture	1.97	2.13	2.20	2.13	2.18	2.26
■ Precious Metals	134.92	150.44	158.16	152.51	156.33	149.47
■ Industrial Metals	1.20	1.06	0.97	0.95	0.99	0.77
■ Energy	17.31	14.59	16.33	14.18	13.75	17.01
■ Broad Commodity	15.08	15.43	15.21	15.10	15.58	15.04
Livestock Index	0.01	0.00	0.00	0.00	0.00	0.00
= ETFs Fund Flows (\$ Billion)						
■ Total ETF Fund Flows (\$ Billion)	-1.74	0.77	1.47	-0.44	7.42	6.26
■ Agriculture	-0.08	0.00	0.01	0.04	0.06	-0.05
■ Precious Metals	-4.57	1.51	1.62	1.47	3.71	5.82
■ Industrial Metals	0.04	0.07	-0.03	0.00	0.19	-0.02
■ Energy	3.06	-0.81	0.32	-1.63	2.22	0.10
■ Broad Commodity	-0.20	0.00	-0.45	-0.33	1.25	0.40
■ Livestock Index	0.01	0.00	0.00	0.00	0.00	0.00

Delta Weighted ETF AUM and Flows (annual)

Name	2016	2015	2014	2013	2012	2011
ETFs (\$ Billion AUM)						
■ Total ETF Assets Under Manag	174.16	119.84	112.86	125.99	226.78	197.83
→ Agriculture	2.12	1.97	2.54	2.79	3.35	4.19
■ Precious Metals	137.81	92.79	87.03	97.57	191.87	165.76
	1.23	0.63	1.15	1.09	1.31	1.08
■ Energy	17.25	12.73	5.99	4.47	7.34	6.17
■ Broad Commodity	15.75	11.71	16.16	20.07	22.92	20.62
■ Livestock Index	0.01	0.00	0.00	0.00	0.00	
■ ETFs Fund Flows (\$ Billion)						
■ Total ETF Fund Flows (\$ Billion)	32.69	17.46	4.71	-43.59	21.80	4.77
■ Agriculture	0.16	-0.08	-0.29	0.07	-0.82	-0.48
■ Precious Metals	27.59	-3.66	-3.30	-39.35	19.69	8.93
■ Industrial Metals	0.33	-0.17	0.19	-0.08	0.25	-0.09
+ Energy	2.65	21.36	6.65	-3.87	2.14	-2.70
■ Broad Commodity	1.94	0.00	1.46	-0.35	0.53	-0.89
+ Livestock Index	0.01	0.00	0.00	0.00	0.00	

Implied Volatility - Three Month

Name	Current	% Change on Day	WTD % Change	MTD % Change	1 Mth % Change	3 Mth % Change	Change
	41.2	-4.4	73.4	62.8	79.8	74.7	
Cotton	21.7	-1.3	-2.1	10.9	10.4	-0.9	24.0
Soybeans						9.4	
Soybean Oil	23.6	-0.7	1.9	15.4	15.3	15.9	13.4
Live Cattle				-14.0		-4.8	
Copper (COMEX)	27.6	3.3	12.8	62.3	59.1	45.9	11.4
Soybean Meal	23.0	-1.8				2.5	
Silver	24.7	1.4	0.1	4.8	4.7	-2.5	9.0
Gold						3.4	
Nickel	34.7	7.2	10.1	-13.6	21.6	18.3	6.5
Lean Hogs	27.2	-0.1	9.9		-15.8	-4.6	
Platinum	23.3	16.5	25.9	30.0	24.0	24.2	4.5
Copper (LME)	26.0	-18.4	31.7	69.5	8.6	15.7	
Unlead Gas	34.7	3.9	-8.0	5.6	5.6	-8.9	2.6
Palladium	28.7	1.9	3.0	9.6	9.1	6.6	
NaturalGas	43.7	-1.0	-5.8	-9.2	-6.6	15.1	-5.0
						35.9	
Wheat	21.1	0.3	-1.6	-1.2	2.3	-13.1	-7.8
HRW Wheat				-0.8		-10.8	
Crude Oil	38.2	-13.5	-14.2	-1.2	6.0	3.1	
	18.2		-0.8	-9.8	-11.8	-18.1	
Sugar	26.3	-2.0	-0.9	-4.4	-6.3	-14.6	-13.8
	28.8					-5.1	
Heating Oil	33.5	-13.1	-8.9	-1.0	7.1	2.9	-16.4
Gas Oil			-14.0			5.6	
Brent Crude	35.7	-18.6	-18.7	-5.8	0.6	-1.0	

Net Managed Money Positions Total/Disaggregated

Not managed money	1 03111	0113	· Ota	, DI3	uggiv	-yau	·u
Name	Current	5 Day Change	1 Mth	3 Mth	YIU	1 Yr	2 Yr Change
■ Net - Managed Money Total/Disagg	2M	1,596	1,611	4,717	1M		6,545
Natural Gas	27,556	54	-81.3	139	189,242	115	
Soybeans	113,644	16	29.7	12	177,159	315	200
	121,235		-11.7	-52			
Brent Crude	292,764	15 8	-25.1	-18	129,092	65	344
Copper (CME)	76,346		647.2	3,313			4,178
Aluminum	169,882	1	13.9	12	98,144	135	
WTI Crude	188,324		-35.4	18		95	
Corn	-60,394	29	13.7	63	75,717	39	-129
Coffee	50,722	-4	17.7	107		359	
Copper (LME)	73,520		132.1	160	64,455	835	99
Soybean Meal	19,377	38	41.3	-59		180	
Zinc	76,584	0	-1.0	-2	56,444	603	
Live Cattle	58.059		113.3	38		933	
Nickel	56,116		-10.9	38 -9	40,744	539	48
Heating Oil	3,359			-69			
Silver	42,846	-12	-0.8	-49	36,564	383	385
Soybean Oil	95,533			145			
Cotton	80,553		23.9	20	29,246		1,389
HRW Wheat			840.9	146			
Lean Hogs	31,931		1.2	-10		189	-42
Sugar	176,851		-32.3	-34			
Palladium	12,412	34	23.5	-29	3,722		-34 -43
Platinum	8,531	-13	46.1	-79		71	
Gasoline	17,013	-34	-57.6	964	-11,378		-57
Wheat	-114,222	14	-11.7	-8	-31,102	-141	-844

Precious Metals ETF Holdings

Name	2016	2015	2014	2013	2012	2011
Gold ETF Holdings		-				
Gold Spot Price (\$/oz)	1,174	1,061	1,185	1,206	1,675	1,564
Avg Gold Spot Price (\$/oz)	1,256.9	1,159.9	1,265.9	1,410.9	1,668.7	1,572.9
■ Known ETF Gold Holdings (oz)	60.4M	45.3M	49.8M	55.1M	84.6M	75.8M
■ Avg Total Known ETF Gold Holdings (oz)	58.1M	48.9M	53.3M	68.2M	78.9M	71.3M
Silver ETF Holdings						
Silver Spot Price (\$/oz)	17	14	16	19	30	28
Avg Silver Spot Price (\$/oz)	17	16	19	24	31	35
■ Known ETF Silver Holdings (oz)	660.5M	606.3M	623.1M	623.0M	608.2M	556.1M
■ Avg Total Known ETF Silver Holdings (oz)	642.8M	618.7M	633.6M	627.5M	578.1M	562.5M
Platinum ETF Holdings						
Platinum Spot (\$/oz)	913.3	893.1	1,208.0	1,369.4	1,539.3	1,401.0
Avg Platinum Spot (\$/oz)	994.8	1,054.5	1,384.3	1,486.1	1,552.6	1,721.2
■ Known ETF Platinum Holdings (oz)	2.4M	2.4M	2.7M	2.5M	1.5M	1.3M
■ Avg Total Known ETF Platinum Holdings (oz)	2.3M	2.7M	2.7M	2.0M	1.4M	1.4M
Palladium ETF Holdings						
Palladium Spot (\$/oz)	771.6	563.0	797.8	716.5	704.5	655.3
Avg Palladium Spot (\$/oz)	607.3	690.8	803.1	725.9	644.5	733.1
■ Known ETF Palladium Holdings (oz)	1.9M	2.3M	3.1M	2.2M	1.9M	1.7M
■ Avg Total Known ETF Palladium Holdings (2.2M	2.9M	2.7M	2.2M	1.9M	2.1M

PERFORMANCE: Bloomberg Commodity Indices

Composite Indices

* Click hyperlinks to open in Bloomberg

	L			2016							
Index Name	Ticker	Nov	Oct	Q3	Q2	YTD	1-Year	3-Year	5-Year	10-Year	20-Year
Bloomberg Commodity ER	<u>BCOM</u>	1.30%	-0.52%	-3.94%	12.71%	9.47%	6.07%	-30.77%	-41.16%	-50.92%	-28.89%
Bloomberg Commodity TR	BCOMTR	1.33%	-0.49%	-3.86%	12.78%	9.79%	6.40%	-30.50%	-40.85%	-47.19%	10.11%
Bloomberg Commodity Spot	BCOMSP	2.36%	0.84%	-2.48%	15.49%	20.41%	18.23%	-17.52%	-25.36%	8.01%	170.38%
Bloomberg Roll Select	BCOMRST	1.36%	-0.19%	-2.70%	12.56%	12.62%	9.23%	-26.14%	-35.81%	-24.95%	160.87%
1 Month Forward	BCOMF1T	1.34%	-0.52%	-3.72%	12.88%	10.77%	7.75%	-27.75%	-36.85%	-35.34%	109.01%
2 Month Forward	BCOMF2T	1.43%	-0.25%	-3.39%	12.56%	11.43%	8.20%	-27.47%	-38.15%	-34.40%	143.83%
3 Month Forward	BCOMF3T	1.23%	-0.22%	-3.26%	12.29%	11.37%	8.47%	-26.43%	-36.30%	-27.22%	164.27%
4 Month Forward	BCOMF4T	1.56%	0.46%	-2.57%	12.34%	13.58%	10.74%	-23.42%	-33.19%	-19.46%	
5 Month Forward	BCOMF5T	1.48%	0.25%	-2.52%	12.15%	13.22%	10.39%	-24.04%	-33.38%	-17.64%	
6 Month Forward	BCOMF6T	1.50%	0.34%	-2.08%	11.87%	13.76%	10.96%	-23.14%	-32.65%	-14.48%	
Energy	BCOMENTR	4.26%	-2.73%	-3.66%	20.35%	6.63%	-4.58%	-58.56%	-64.40%	-85.24%	-62.16%
Petroleum	BCOMPETR	4.01%	-3.65%	-2.04%	17.01%	8.34%	-7.27%	-61.44%	-61.31%	-67.04%	14.75%
Agriculture	BCOMAGTR	-2.85%	3.11%	-8.10%	12.67%	4.45%	3.40%	-22.22%	-25.80%	-9.76%	-27.06%
Grains	BCOMGRTR	-2.48%	4.70%	-13.58%	7.25%	-5.25%	-7.68%	-33.52%	-27.84%	-22.66%	-45.35%
Industrial Metals	BCOMINTR	10.33%	1.31%	4.09%	6.11%	26.29%	30.55%	-9.79%	-28.40%	-46.13%	99.71%
Precious Metals	BCOMPRTR	-7.99%	-4.51%	0.24%	10.24%	11.93%	10.97%	-10.97%	-39.78%	52.56%	222.15%
Softs	BCOMSOTR	-6.95%	-0.94%	6.86%	20.46%	17.49%	20.63%	-5.20%	-39.85%	-14.68%	-30.16%
Livestock	BCOMLITR	4.27%	5.35%	-21.33%	-1.86%	-14.21%	-10.74%	-23.84%	-30.65%	-58.00%	-64.02%
Ex-Energy	BCOMXETR	-0.24%	0.85%	-4.05%	9.31%	10.31%	10.67%	-15.90%	-29.35%	-13.56%	30.98%
Ex-Petroleum	BCOMXPET	0.42%	0.62%	-4.49%	11.44%	9.21%	9.63%	-21.07%	-36.15%	-44.95%	
Ex-Natural Gas	BCOMXNGT	0.96%	-0.46%	-3.47%	11.31%	10.69%	6.89%	-27.88%	-36.46%	-25.73%	
Ex-Agriculture	BCOMXAGT	3.06%	-1.89%	-2.08%	12.81%	11.84%	7.27%	-34.70%	-47.07%	-60.23%	
Ex-Grains	BCOMXGRT	2.01%	-1.35%	-2.02%	13.89%	12.75%	9.13%	-30.36%	-44.29%	-53.77%	
Ex-Industrial Metals	BCOMXIMT	-0.49%	-0.84%	-5.34%	14.14%	6.60%	2.13%	-34.27%	-43.23%	-49.72%	
Ex-Precious Metals	BCOMXPMT	3.02%	0.30%	-4.65%	13.28%	8.95%	5.09%	-34.19%	-41.82%	-55.33%	
Ex-Softs	BCOMXSOT	2.10%	-0.45%	-4.76%	12.19%	9.21%	5.25%	-32.49%	-41.18%	-50.06%	
Ex-Livestock	BCOMXLIT	1.22%	-0.69%	-3.07%	13.64%	11.14%	7.31%	-31.07%	-41.55%	-46.83%	
Ex-Agriculture & Livestock	BCOMXALT	2.99%	-2.24%	-0.82%	14.06%	13.96%	8.61%	-35.94%	-48.60%	-61.31%	
Bloomberg Dollar Spot	BBDXY	3.91%	2.15%	-0.23%	0.27%	1.86%	1.43%	23.00%	28.51%	23.29%	
S&P 500 Total Return	<u>SPXT</u>	3.70%	-1.82%	3.85%	2.46%	9.79%	8.06%	29.75%	96.33%	94.62%	322.28%
US Aggregate	<u>LBUSTRUU</u>	-2.37%	-0.76%	0.46%	2.21%	2.50%	2.17%	8.60%	12.74%	51.90%	177.19%
US Treasury	<u>LUATTRUU</u>	-2.67%	-1.10%	-0.28%	2.10%	1.14%	0.98%	6.18%	7.31%	46.53%	161.01%
US Corporate	<u>LUACTRUU</u>	-2.68%	-0.81%	1.41%	3.57%	5.41%	4.58%	12.31%	24.25%	67.62%	213.78%
US High Yield	<u>LF98TRUU</u>	-0.47%	0.39%	5.55%	5.52%	15.01%	12.11%	13.17%	43.79%	103.69%	284.07%

Single Commodity Indices

Index Nove	Title:			2016							
Index Name	Ticker	Nov	Oct	Q3	Q2	YTD	1-Year	3-Year	5-Year	10-Year	20-Year
Natural Gas	BCOMNGTR	4.95%	0.18%	-7.94%	30.96%	-0.81%	-0.37%	-55.89%	-74.84%	-98.32%	-99.29%
WTI Crude	BCOMCLTR	4.21%	-3.56%	-4.89%	18.72%	0.42%	-14.58%	-65.44%	-69.81%	-78.82%	-24.11%
Brent Crude	BCOMCOT	3.73%	-4.19%	-2.15%	19.59%	15.86%	-4.62%	-66.51%	-62.78%	-55.59%	171.40%
ULS Diesel	BCOMHOTR	3.63%	-3.26%	-1.18%	23.18%	22.77%	-0.19%	-56.68%	-56.54%	-53.07%	26.10%
Unleaded Gasoline	BCOMRBTR	4.65%	-3.01%	3.92%	3.08%	-4.05%	-7.87%	-51.20%	-38.13%	-24.51%	194.46%
Corn	BCOMCNTR	-4.16%	5.37%	-10.61%	2.26%	-10.69%	-13.91%	-37.81%	-44.81%	-50.63%	-82.11%
Soybeans	BCOMSYTR	2.06%	5.26%	-17.21%	27.77%	19.27%	16.62%	-5.84%	39.56%	132.39%	283.30%
Wheat	BCOMWHTR	-7.24%	3.57%	-13.98%	-9.22%	-25.06%	-25.91%	-52.22%	-55.15%	-76.44%	-92.73%
Soybean Oil	BCOMBOTR	4.56%	5.01%	4.35%	-8.94%	15.31%	19.68%	-19.02%	-37.86%	-23.44%	-23.72%
Soybean Meal	BCOMSMT	0.16%	5.68%	-25.23%	50.33%	20.29%	11.25%	7.80%	108.27%	340.52%	1105.64%
HRW Wheat	BCOMKWT	-5.11%	-0.15%	-7.35%	-16.21%	-26.76%	-27.40%	-57.55%	-60.24%	-68.87%	-77.61%
Copper	BCOMHGTR	18.94%	-0.22%	0.23%	0.03%	21.58%	26.74%	-19.50%	-30.07%	-24.41%	227.31%
Alumnium	BCOMALTR	-0.32%	3.59%	0.63%	8.13%	12.20%	16.51%	-14.71%	-39.36%	-62.91%	-29.87%
Zinc	BCOMZSTR	9.61%	3.22%	12.64%	15.55%	65.52%	69.92%	34.66%	10.87%	-53.49%	81.15%
Nickel	BCOMNITR	7.25%	-1.09%	11.55%	10.81%	25.73%	24.42%	-20.52%	-40.67%	-67.51%	184.25%
Gold	BCOMGCTR	-8.01%	-3.31%	-0.74%	6.75%	9.78%	9.28%	-7.56%	-34.87%	67.06%	197.35%
Silver	BCOMSITR	-7.94%	-7.35%	2.65%	19.86%	17.47%	15.14%	-21.11%	-52.87%	4.57%	218.03%
Sugar	BCOMSBTR	-8.13%	-6.19%	9.85%	29.93%	24.68%	27.29%	-21.43%	-43.75%	-20.72%	10.19%
Coffee	BCOMKCTR	-10.21%	8.34%	1.50%	10.97%	8.36%	14.77%	2.09%	-60.27%	-49.99%	-69.10%
Cotton	BCOMCTTR	3.08%	1.17%	6.18%	10.37%	11.95%	13.12%	-3.07%	-12.67%	7.63%	-75.91%
Live Cattle	BCOMLCTR	7.24%	3.23%	-13.30%	-4.67%	-10.73%	-7.71%	-6.35%	-16.26%	-33.85%	-15.28%
Lean Hogs	<u>BCOMLHTR</u>	-0.21%	9.07%	-31.65%	1.40%	-19.00%	-14.70%	-46.01%	-49.87%	-80.76%	-92.01%

PERFORMANCE: Bloomberg Commodity Roll Select Indices

Composite Roll Select Indices * Click hyperlinks to open in Bloomberg

Inday Name	Tieken			2016							
Index Name	Ticker	Nov	Oct	Q3	Q2	YTD	1-Year	3-Year	5-Year	10-Year	20-Year
BCOM Roll Select	BCOMRST	1.36%	-0.19%	-2.70%	12.56%	12.62%	9.23%	-26.14%	-35.81%	-24.95%	160.87%
Roll Select Agriculture	BCOMRAGT	-2.80%	3.35%	-6.81%	11.94%	5.71%	4.63%	-21.44%	-24.72%	18.46%	33.68%
Roll Select Ex-Ags & Livestock	BBURXALT	3.11%	-1.82%	0.25%	13.84%	17.96%	12.56%	-30.34%	-42.30%	-44.49%	
Roll Select Grains	BCOMRGRT	-2.23%	4.29%	-11.90%	6.85%	-4.09%	-6.83%	-34.09%	-28.33%	3.15%	3.66%
Roll Select Softs	BCOMRSOT	-7.44%	0.41%	8.01%	20.47%	21.17%	25.17%	-0.28%	-35.89%	15.34%	28.98%
Roll Select Livestock	BCOMRLIT	2.28%	4.35%	-20.94%	-0.96%	-17.11%	-13.64%	-19.71%	-27.33%	-26.05%	41.38%
Roll Select Energy	BCOMRENT	4.57%	-2.01%	-1.55%	19.75%	15.75%	4.29%	-49.65%	-54.59%	-70.63%	109.82%
Roll Select Ex-Energy	BCOMRXET	-0.33%	0.91%	-3.35%	9.15%	10.74%	11.14%	-14.83%	-28.07%	8.95%	130.26%
Roll Select Petroleum	BCOMRPET	4.72%	-2.42%	-0.62%	18.33%	17.38%	3.08%	-53.72%	-51.80%	-38.92%	346.34%
Roll Select Industrial Metals	BCOMRINT	10.33%	1.32%	4.36%	5.96%	26.15%	30.48%	-9.16%	-26.64%	-36.00%	202.76%
Roll Select Precious Metals	<u>BCOMRPRT</u>	-7.99%	-4.49%	0.29%	10.55%	12.30%	11.32%	-10.59%	-39.39%	53.31%	231.76%

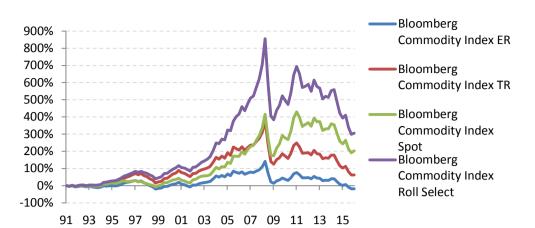
Single Commodity Roll Select Indices

				2016							
Index Name	Ticker	Nov	Oct	Q3	Q2	YTD	1-Year	3-Year	5-Year	10-Year	20-Year
Natural Gas RS	BCOMRNGT	4.07%	-0.93%	-4.02%	23.22%	8.27%	4.36%	-44.28%	-63.72%	-94.96%	-84.66%
WTI Crude RS	BCOMRCLT	5.58%	-2.67%	-2.31%	19.08%	16.59%	3.74%	-53.76%	-55.88%	-44.34%	358.01%
Brent Crude RS	BCOMRCOT	4.08%	-2.76%	-0.85%	17.65%	14.74%	-1.95%	-59.33%	-55.27%	-38.31%	388.09%
ULS Diesel RS	BCOMRHOT	3.54%	-1.55%	-1.29%	22.75%	23.13%	1.80%	-53.90%	-54.17%	-43.98%	197.16%
Unleaded Gasoline RS	BCOMRRBT	5.90%	-2.33%	5.15%	13.15%	19.56%	12.20%	-42.94%	-27.89%	-7.94%	529.85%
Corn RS	BCOMRCNT	-3.89%	4.72%	-9.42%	3.48%	-9.26%	-12.81%	-38.64%	-47.96%	-35.56%	-66.23%
Soybeans RS	BCOMRSYT	2.41%	5.41%	-14.50%	24.79%	21.19%	18.50%	-4.86%	44.88%	163.95%	370.38%
Wheat RS	BCOMRWHT	-6.90%	2.37%	-13.20%	-9.32%	-25.36%	-26.79%	-53.38%	-55.44%	-56.73%	-67.07%
Soybean Oil RS	BCOMRBOT	4.52%	4.78%	4.26%	-8.40%	15.55%	20.01%	-17.11%	-34.83%	-8.92%	22.40%
Soybean Meal RS	BCOMRSMT	0.51%	5.80%	-24.24%	43.67%	17.14%	8.34%	5.03%	117.57%	397.52%	1269.74%
HRW Wheat RS	BCOMRKWT	-5.08%	0.54%	-6.92%	-15.30%	-24.98%	-25.95%	-55.96%	-58.08%	-51.80%	-41.61%
Copper RS	<u>BCOMRHGT</u>	18.91%	-0.28%	0.28%	0.09%	21.11%	26.02%	-19.96%	-30.55%	-14.88%	380.11%
Alumnium RS	BCOMRALT	-0.45%	3.47%	1.46%	7.49%	12.19%	16.93%	-12.72%	-35.09%	-54.71%	7.07%
Zinc RS	BCOMRZST	9.78%	3.51%	12.87%	15.54%	65.49%	70.22%	34.50%	13.23%	-42.97%	179.65%
Nickel RS	BCOMRNIT	7.27%	-0.98%	11.41%	10.81%	25.98%	24.78%	-18.95%	-38.89%	-59.64%	373.18%
Gold RS	BCOMRGCT	-8.03%	-3.31%	-0.68%	7.13%	10.27%	9.74%	-7.21%	-34.57%	66.90%	199.34%
Silver RS	BCOMRSIT	-7.89%	-7.32%	2.67%	19.94%	17.53%	15.18%	-20.56%	-52.20%	7.25%	251.42%
Sugar RS	BCOMRSBT	-9.21%	-4.11%	11.80%	29.64%	31.36%	35.57%	-12.35%	-36.34%	24.74%	135.63%
Coffee RS	BCOMRKCT	-9.62%	8.09%	1.56%	11.07%	9.01%	15.06%	4.44%	-58.44%	-41.34%	-44.90%
Cotton RS	BCOMRCTT	2.20%	1.07%	7.37%	11.08%	12.20%	13.72%	-3.28%	-12.54%	35.14%	-61.08%
Live Cattle RS	BCOMRLCT	7.62%	1.45%	-12.73%	-4.67%	-11.78%	-8.90%	-9.02%	-19.55%	-9.06%	67.18%
Lean Hogs RS	BCOMRLHT	-3.63%	9.07%	-31.72%	4.10%	-23.97%	-19.83%	-35.29%	-39.05%	-50.56%	-17.93%

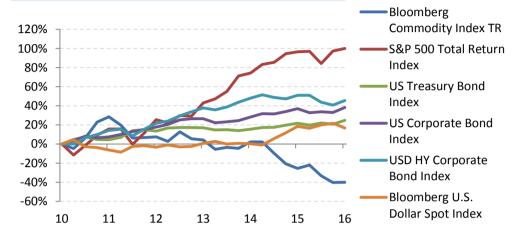
PERFORMANCE: Historical Return

* Click hyperlinks to open in Bloomberg

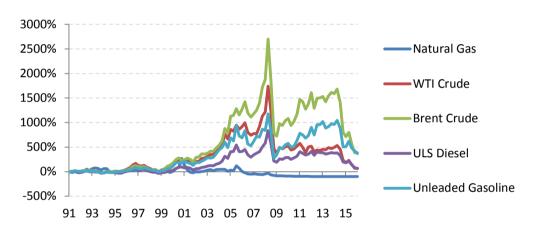
Bloomberg Commodity Composite Indices



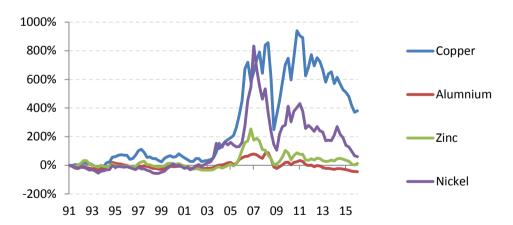
Commodities vs. Equities vs. Bonds vs. USD



Bloomberg Commodity Energy Subindices



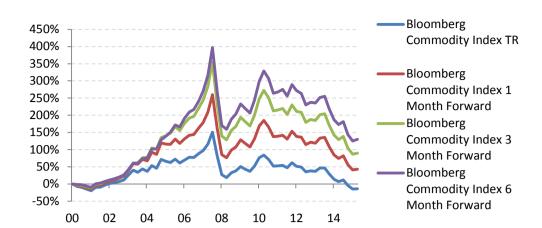
Bloomberg Commodity Industrial Metals Subindices



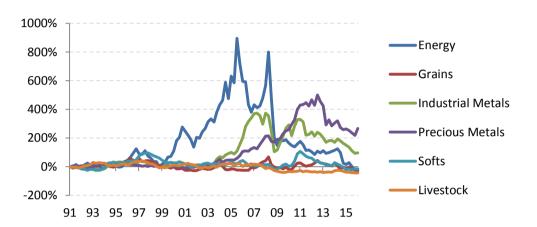
Bloomberg Commodity Softs Subindices



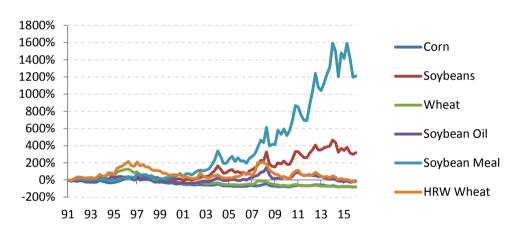
Bloomberg Commodity Forward Indices



Bloomberg Commodity Group Subindices



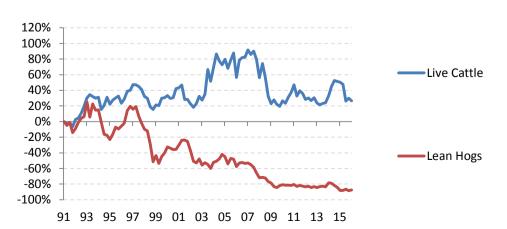
Bloomberg Commodity Grains Subindices



Bloomberg Commodity Precious Metals Subindices



Bloomberg Commodity Livestock Subindices



BCOM Constituent Weights BCOM Index MEMB <GO> * Click hyperlinks to open in Bloomberg

Group	Commodity	Ticker	Nov 2016 Contrib to Return %	Nov 30 2016 Weight	Oct 31 2016 Weight	Nov 2016 Weight Change	2017 Target Weight	2016 Target Weight
	Natural Gas	<u>NG</u>	0.47	10.0%	9.8%	10.2%	8.0%	8.4%
	WTI Crude	<u>CL</u>	0.35	8.5%	8.4%	1 0.2%	7.2%	7.5%
Energy	Brent Crude	CO	0.35	9.3%	8.8%	1 0.5%	7.8%	7.5%
Energy	ULS Diesel	<u>HO</u>	0.16	4.5%	4.4%	1 0.1%	3.8%	3.8%
	Gasoline	<u>XB</u>	0.17	3.8%	3.7%	1 0.1%	3.8%	3.7%
	Subtotal		1.49	36.0%	35.0%	1.0%	30.6%	31.0%
	Corn	<u>C</u>	-0.26	5.9%	6.1%	-0.3%	7.4%	7.4%
	Soybeans	<u>s</u>	0.11	5.5%	5.5%	0.0%	5.8%	5.7%
	Wheat	<u>w</u>	-0.19	2.4%	2.5%	-0.1%	3.3%	3.3%
Grains	Soybean Oil	<u>BO</u>	0.12	2.9%	2.8%	1 0.1%	2.8%	2.8%
	Soybean Meal	<u>SM</u>	0.00	2.7%	2.8%	-0.1%	2.9%	2.8%
	HRW Wheat	<u>KW</u>	-0.05	0.8%	0.9%	0.0%	1.2%	1.2%
	Subtotal		-0.25	20.2%	20.6%	- 0.4%	23.5%	23.2%
	Copper	<u>HG</u>	1.28	7.8%	6.7%	1.1%	7.6%	7.6%
Industrial	Aluminum	<u>LA</u>	-0.02	4.4%	4.5%	-0.1%	4.6%	4.6%
Metals	Zinc	<u>LX</u>	0.32	3.6%	3.3%	1 0.3%	2.7%	2.5%
ivietais	Nickel	<u>LN</u>	0.18	2.5%	2.4%	1 0.1%	2.5%	2.4%
	Subtotal		1.75	18.2%	16.8%	1.4%	17.4%	17.1%
Precious	Gold	<u>GC</u>	-0.90	9.9%	11.0%	-1.1%	11.2%	11.4%
1	Silver	<u>SI</u>	-0.37	4.0%	4.5%	-0.4%	4.1%	4.2%
Metals	Subtotal		-1.27	14.0%	15.5%	- -1.5%	15.3%	15.6%
	Sugar	<u>SB</u>	-0.37	4.0%	4.5%	-0.5%	3.4%	3.6%
Softs	Coffee	<u>KC</u>	-0.27	2.3%	2.6%	-0.3%	2.4%	2.3%
3016	Cotton	<u>CT</u>	0.04	1.4%	1.4%	1 0.0%	1.4%	1.5%
	Subtotal		-0.60	7.8%	8.5%	- 0.7%	7.2%	7.4%
	Live Cattle	<u>LC</u>	0.16	2.4%	2.2%	0.1%	4.0%	3.6%
Livestock	Lean Hogs	<u>LH</u>	0.00	1.5%	1.4%	1 0.2%	2.1%	2.1%
	Subtotal		0.16	3.9%	3.6%	1 0.3%	6.1%	5.6%
Total			1.29	100%	100%		100%	100%

Commodity Price Forecasts CPFC <GO>

Bloomberg survey of commodity analysts

Group	Commodity		Q4 16	Q1 17	Q2 17	Q3 17
	Natural Cas	Forward	3.10	3.30	3.25	3.26
	Natural Gas	Forecast	2.92	3.00	3.00	3.00
	VA/TL Council o	Forward	48.48	51.40	52.77	53.15
	WTI Crude	Forecast	48.00	50.00	52.50	54.00
F	Duant Carda	Forward	50.07	53.06	54.13	54.55
Energy	Brent Crude	Forecast	50.00	51.00	54.00	55.50
ľ	III.C Diagal	Forward	153.67	159.43	157.36	157.36
	ULS Diesel	Forecast	148.80	150.00	133.00	133.00
Ī	0 1'	Forward	145.07	157.93	171.76	163.16
	Gasoline	Forecast	142.00	155.50	170.00	167.50
	Carro	Forward	345.79	350.02	359.93	371.29
	Corn	Forecast	350.00	356.00	358.50	367.50
Cualina	Cardaaaaa	Forward	1,003.39	1,041.57	1,051.70	1,039.29
Grains	Soybeans	Forecast	1,000.00	995.00	1,000.00	994.00
Ī	VA/In a a t	Forward	401.38	405.42	424.00	448.15
	Soybeans Wheat	Forecast	420.50	427.50	450.00	465.00
	Campan	Forward	5,329	5,825	5,828	5,827
	Copper	Forecast	4,850	5,000	5,100	5,100
Ī	Λ I	Forward	1,711	1,732	1,736	1,741
Industrial	Aluminum	Forecast	1,630	1,652	1,657	1,675
Metals	7:	Forward	2,523	2,704	2,711	2,709
	Zinc	Forecast	2,203	2,284	2,308	2,296
Ī	Niakal	Forward	10,870	11,251	11,297	11,336
	Nickel	Forecast	10,450	10,655	11,062	11,115
	Cald	Forward	1,224	1,175	1,179	1,184
Precious	Gold	Forecast	1,325	1,300	1,298	1,300
Metals	Cilver	Forward	17.15	16.48	16.57	16.66
	Silver	Forecast	19.00	18.55	18.66	19.30
	Silver	Forward	21.20	19.61	18.84	18.33
	Sugar	Forecast	21.00	21.00	20.00	19.35
Coft-	Coffos	Forward	154.92	150.90	153.92	156.94
Softs	Coffee	Forecast	146.50	150.50	153.00	155.00
Ī	Catton	Forward	70.59	71.70	72.01	70.99
	Cotton	Forecast	68.00	66.90	65.00	65.00

VOLATILITY: Realized

Composite Indices

Index Name	Ticker	1-Mon	3-Mon	1-Year	3-Year	5-Year	10-Year	20-Year
Bloomberg Commodity ER	всом	16.47%	13.34%	15.38%	13.71%	13.22%	17.78%	16.15%
Bloomberg Commodity TR	BCOMTR	16.48%	13.34%	15.38%	13.71%	13.22%	17.77%	16.14%
Bloomberg Commodity Spot	BCOMSP	16.20%	13.31%	15.49%	13.79%	13.28%	17.86%	16.24%
Bloomberg Roll Select	BCOMRST	15.39%	12.44%	14.06%	12.77%	12.36%	16.78%	14.75%
1 Month Forward	BCOMF1T	16.19%	13.16%	15.03%	13.37%	12.92%	17.45%	15.61%
2 Month Forward	BCOMF2T	16.01%	12.98%	14.65%	13.06%	12.64%	17.16%	15.10%
3 Month Forward	BCOMF3T	15.52%	12.72%	14.35%	12.77%	12.40%	16.88%	14.68%
4 Month Forward	BCOMF4T	15.23%	12.48%	13.98%	12.50%	12.15%	16.62%	
5 Month Forward	BCOMF5T	14.74%	12.07%	13.52%	12.07%	11.74%	16.15%	
6 Month Forward	BCOMF6T	14.74%	12.07%	13.52%	12.07%	11.74%	16.15%	
Energy	BCOMENTR	36.56%	31.06%	35.43%	30.10%	26.33%	29.40%	30.95%
Petroleum	BCOMPETR	45.96%	37.93%	42.55%	35.54%	30.30%	34.17%	33.59%
Agriculture	BCOMAGTR	12.88%	13.01%	15.33%	15.35%	16.00%	20.82%	18.39%
Grains	BCOMGRTR	17.44%	17.23%	18.96%	19.08%	20.11%	25.05%	22.56%
Industrial Metals	BCOMINTR	24.04%	17.48%	18.08%	17.15%	17.63%	24.82%	22.33%
Precious Metals	BCOMPRTR	21.05%	17.83%	18.10%	17.21%	19.24%	22.37%	19.96%
Softs	BCOMSOTR	20.38%	18.84%	21.22%	21.42%	19.77%	22.62%	20.90%
Livestock	BCOMLITR	17.12%	22.06%	17.86%	15.87%	14.10%	14.43%	14.70%
Ex-Energy	BCOMXETR	11.88%	9.56%	10.92%	10.64%	11.62%	16.24%	13.85%
Ex-Petroleum	BCOMXPET	11.24%	8.96%	11.04%	10.78%	11.59%	16.00%	
Ex-Agriculture	BCOMXAGT	20.69%	16.85%	19.03%	16.60%	15.56%	19.51%	
Ex-Grains	BCOMXGRT	11.88%	9.56%	10.92%	10.64%	11.62%	16.24%	
Ex-Industrial Metals	BCOMXIMT	18.23%	14.87%	17.08%	15.05%	14.20%	18.38%	
Ex-Precious Metals	всомхрмт	17.51%	14.94%	16.52%	14.79%	14.04%	18.19%	
Ex-Softs	BCOMXSOT	19.13%	15.33%	17.83%	15.54%	14.43%	18.91%	
Ex-Livestock	BCOMXLIT	17.59%	14.12%	16.05%	14.27%	13.74%	18.31%	
Ex-Agriculture & Livestock	BCOMXALT	20.69%	16.85%	19.03%	16.60%	15.56%	19.51%	
S&P 500 Total Return Index	SPXT	10.47%	10.99%	13.93%	13.44%	13.01%	20.91%	19.65%
US Treasury Bond Index	LUATTRUU	4.82%	3.71%	4.00%	3.63%	3.51%		
USD IG Corporate Bond Index	LUACTRUU	5.40%	4.26%	4.49%	4.44%	4.43%		
USD HY Corporate Bond Index	LF98TRUU	5.02%	3.57%	5.66%	4.26%	3.79%		
Bloomberg U.S. Dollar Spot Index	BBDXY	7.55%	6.50%	6.99%	6.37%	6.09%	7.18%	

Single Commodity Indices

Index Name	Ticker	1-Mon	3-Mon	1-Year	3-Year	5-Year	10-Year	20-Year
Natural Gas	BCOMNGTR	39.90%	34.99%	40.50%	40.38%	39.77%	42.04%	46.71%
WTI Crude	BCOMCLTR	49.59%	40.91%	45.55%	39.04%	33.51%	36.72%	35.23%
Brent Crude	всомсот	47.71%	39.20%	45.19%	37.13%	31.37%	34.24%	32.78%
ULS Diesel	BCOMHOTR	40.91%	34.88%	41.94%	32.90%	28.02%	31.55%	32.97%
Unleaded Gasoline	BCOMRBTR	43.78%	36.66%	39.66%	34.47%	29.90%	34.75%	34.63%
Corn	BCOMCNTR	21.59%	22.29%	22.62%	22.58%	24.87%	30.54%	26.83%
Soybeans	BCOMSYTR	18.00%	17.05%	21.81%	20.61%	20.84%	25.00%	23.90%
Wheat	BCOMWHTR	18.28%	22.64%	24.06%	26.42%	26.64%	33.74%	29.60%
Soybean Oil	BCOMBOTR	29.96%	25.00%	21.22%	21.04%	19.86%	24.08%	23.54%
Soybean Meal	BCOMSMT	22.81%	21.37%	25.65%	24.37%	25.19%	28.32%	26.79%
HRW Wheat	BCOMKWT	18.94%	20.66%	23.00%	24.76%	25.00%	30.69%	26.85%
Copper	BCOMHGTR	26.48%	19.71%	20.53%	19.80%	20.28%	29.80%	27.33%
Alumnium	BCOMALTR	17.39%	15.67%	16.68%	16.92%	17.88%	22.65%	20.58%
Zinc	BCOMZSTR	44.11%	30.85%	27.20%	23.09%	21.89%	32.90%	28.67%
Nickel	BCOMNITR	40.25%	31.06%	31.12%	29.65%	28.08%	38.09%	35.87%
Gold	BCOMGCTR	17.57%	14.55%	16.42%	15.32%	17.15%	19.59%	17.83%
Silver	BCOMSITR	33.69%	28.12%	25.97%	25.93%	28.63%	34.65%	30.80%
Sugar	BCOMSBTR	26.43%	27.43%	31.23%	27.85%	25.81%	32.93%	32.21%
Coffee	BCOMKCTR	31.88%	27.55%	27.97%	36.42%	33.33%	31.47%	36.56%
Cotton	BCOMCTTR	14.41%	21.74%	19.79%	19.23%	21.12%	27.17%	25.99%
Live Cattle	BCOMLCTR	15.64%	22.69%	20.30%	17.00%	14.91%	14.70%	14.66%
Lean Hogs	BCOMLHTR	30.90%	38.04%	28.04%	25.72%	22.56%	23.22%	24.52%

VOLATILITY: Implied

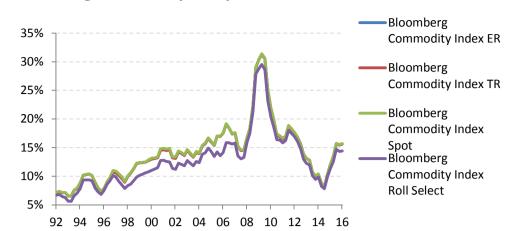
VCA <GO>

OVDV <GO>

		Term		1M			3M			6M	
		Moneyness	90%	100%	110%	90%	100%	110%	90%	100%	110%
	Nat al Can	End of Nov	1%	49%	1%	0%	44%	1%	0%	35%	0%
	Natural Gas	End of Oct	1%	45%	-1%	-1%	47%	2%	0%	34%	0%
	W/TI Carrido	End of Nov	4%	59%	-1%	3%	44%	-3%	2%	39%	-2%
1.1	WTI Crude	End of Oct	4%	36%	-2%	3%	36%	-2%	2%	35%	-2%
Energy	Brent Crude	End of Nov	4%	57%	-3%	3%	44%	-2%	2%	39%	-2%
Ene	brent Crude	End of Oct	4%	34%	-2%	2%	35%	-2%	2%	35%	-2%
-	ULS Diesel	End of Nov	3%	43%	-1%	0%	39%	0%	1%	35%	0%
	OLS Diesei	End of Oct	2%	29%	-2%	1%	31%	-1%	1%	31%	-1%
	Gasoline	End of Nov	0%	45%	0%	0%	33%	0%	0%	34%	0%
	Gasoniie	End of Oct	1%	33%	-1%	0%	33%	0%	0%	34%	0%
	Corn	End of Nov	5%	17%	4%	1%	18%	1%	-1%	21%	1%
	COITI	End of Oct	3%	20%	3%	1%	21%	1%	0%	22%	1%
	Soybeans	End of Nov	4%	20%	3%	1%	19%	1%	0%	19%	1%
		End of Oct	3%	17%	2%	1%	18%	1%	0%	18%	1%
,,	Wheat	End of Nov	3%	19%	5%	-1%	21%	2%	-1%	22%	2%
Grains	vviicat	End of Oct	-2%	22%	3%	-2%	21%	2%	-2%	22%	2%
5	Soybean Oil	End of Nov	1%	25%	5%	-1%	24%	2%	0%	22%	1%
		End of Oct	1%	21%	4%	0%	20%	2%	-1%	20%	1%
	Soybean Meal	End of Nov	3%	25%	3%	0%	23%	1%	0%	21%	1%
		End of Oct	2%	27%	2%	1%	24%	1%	0%	22%	1%
	HRW Wheat	End of Nov	2%	17%	5%	-1%	20%	3%	-1%	21%	2%
		End of Oct	1%	21%	4%	-1%	20%	2%	-1%	20%	2%
	Copper	End of Nov	1%	28%	0%	0%	27%	0%	1%	26%	0%
als		End of Oct	5%	17%	1%	2%	17%	0%	1%	19%	0%
strial Metals	Aluminum	End of Nov	0%	20%	2%	0%	19%	-1%	0%	19%	0%
 		End of Oct	0%	15%	1%	0%	14%	0%	0%	14%	0%
stri	Zinc	End of Nov	0%	72%	5%	0%	43%	6%	0%	37%	1%
Indu		End of Oct	0%	23%	-3%	0%	23%	-3%	0%	24%	-2%
=	Nickel	End of Nov	0%	42%	-2%	-3%	32%	5%	-3%	32%	5%
\perp		End of Oct	0%	26%	0%	0%	29%	0%	0%	29%	0%
S S	Gold	End of Nov	3%	14%	0%	1%	15%	0%	1%	16%	0%
Precious Metals		End of Oct	0%	14%	2%	0%	14%	1%	0%	15%	0%
Tree Me	Silver	End of Nov	2%	23%	2%	0%	24%	1%	1%	25%	1%
	Silver	End of Oct	2%	22%	5%	0%	24%	2%	0%	24%	1%
	Sugar	End of Nov	4%	29%	0%	0%	27%	1%	-1%	24%	1%
	Sugar	End of Oct	1%	25%	1%	-1%	28%	1%	-1%	27%	1%
<u> </u>	Coffee	End of Nov	1%	31%	3%	-2%	29%	2%	-2%	28%	2%
Softs	Coffee	End of Oct	0%	31%	3%	-2%	32%	2%	-2%	31%	2%
		End of Nov	0%	23%	4%	-1%	22%	2%	0%	21%	1%
	Cotton	End of Oct	2%	20%	4%	0%	20%	1%	0%	19%	0%
		End of Nov	8%	22%	1%	3%	20%	-3%	2%	18%	-2%
) 	Live Cattle	End of Oct			0%						
Livestock			4%	24%		2%	23%	-2%	1%	21%	-2%
Ľi	Lean Hogs	End of Nov	7%	24%	0%	4%	27%	-5%	3%	21%	-3%
		End of Oct	6%	39%	-7%	4%	32%	-6%	3%	23%	-5%

VOLATILITY: Historical 1-Year Realized

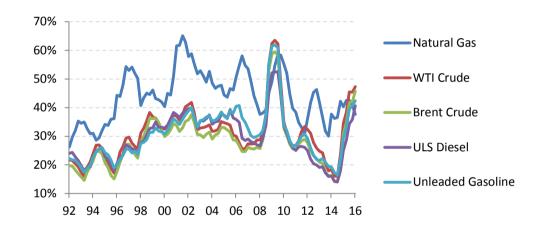
Bloomberg Commodity Composite Indices



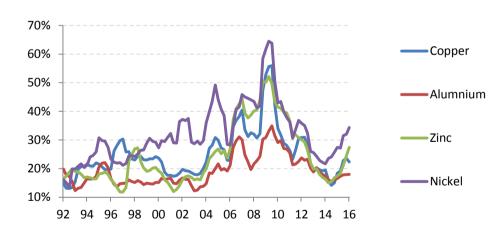
Commodities vs. Equities vs. Bonds vs. USD



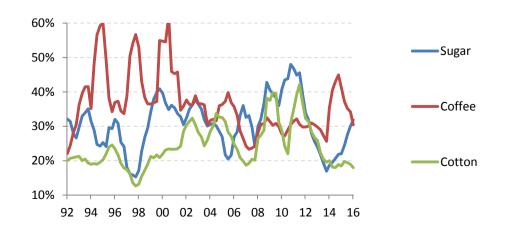
Bloomberg Commodity Energy Subindices



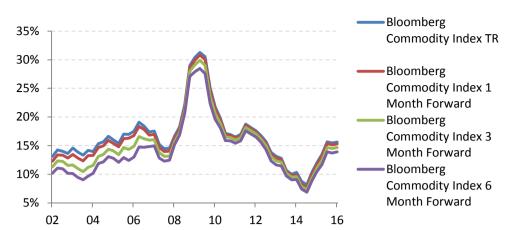
Bloomberg Commodity Industrial Metals Subindices



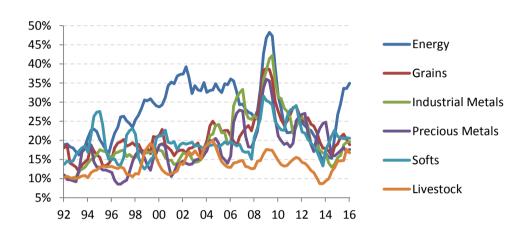
Bloomberg Commodity Softs Subindices



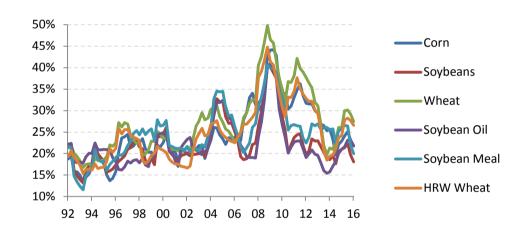
Bloomberg Commodity Forward Indices



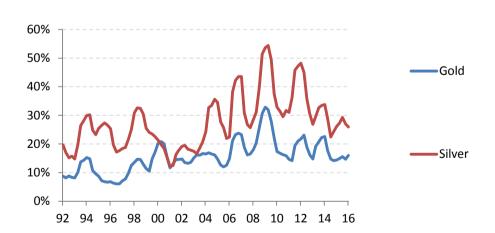
Bloomberg Commodity Group Subindices



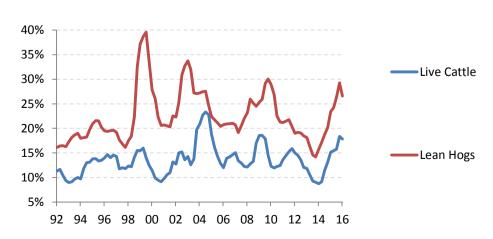
Bloomberg Commodity Grains Subindices



Bloomberg Commodity Precious Metals Subindices



Bloomberg Commodity Livestock Subindices



CORRELATION: BCOM Composites vs. Equities vs. Bond vs. Currency

	1-Year	Bloomberg Commodity	Roll Select	1 Month Forward	3 Month Forward	6 Month Forward	Energy	Petroleum	Agriculture	Grains	Industrial Metals	Precious Metals	Softs	Livestock	Ex-Energy	Ex-Ags & Livestock
	Bloomberg Commodity		99%	100%	99%	99%	89%	86%	57%	45%	60%	25%	39%	18%	72%	96%
1	Roll Select	99%		100%	100%	100%	87%	85%	58%	46%	61%	28%	39%	17%	74%	95%
1	1 Month Forward	100%	100%		100%	99%	88%	86%	58%	46%	61%	25%	39%	18%	73%	95%
1	3 Month Forward	99%	100%	100%		100%	87%	86%	58%	46%	61%	26%	39%	16%	74%	95%
٠,	6 Month Forward	99%	100%	99%	100%		86%	86%	57%	45%	62%	28%	38%	16%	74%	95%
Commodities	Energy	89%	87%	88%	87%	86%		96%	26%	17%	37%	0%	22%	13%	33%	94%
≒	Petroleum	86%	85%	86%	86%	86%	96%		26%	17%	38%	0%	23%	15%	34%	91%
l 일	Agriculture	57%	58%	58%	58%	57%	26%	26%		92%	31%	8%	53%	9%	79%	31%
ΙĒ	Grains	45%	46%	46%	46%	45%	17%	17%	92%		21%	3%	18%	5%	68%	21%
lē	Industrial Metals	60%	61%	61%	61%	62%	37%	38%	31%	21%		18%	23%	15%	69%	58%
_	Precious Metals	25%	28%	25%	26%	28%	0%	0%	8%	3%	18%		9%	-7%	51%	27%
1	Softs	39%	39%	39%	39%	38%	22%	23%	53%	18%	23%	9%		8%	47%	26%
1	Livestock	18%	17%	18%	16%	16%	13%	15%	9%	5%	15%	-7%	8%		19%	13%
1	Ex-Energy	72%	74%	73%	74%	74%	33%	34%	79%	68%	69%	51%	47%	19%		56%
	Ex-Agriculture & Livestock	96%	95%	95%	95%	95%	94%	91%	31%	21%	58%	27%	26%	13%	56%	
	S&P 500 Total Return Index	40%	40%	40%	40%	40%	41%	44%	18%	13%	37%	-17%	15%	19%	22%	39%
1	S&P Energy	67%	66%	67%	66%	67%	73%	76%	21%	15%	42%	-4%	16%	15%	30%	71%
1	S&P Financial	35%	34%	35%	35%	35%	37%	39%	15%	10%	39%	-26%	13%	14%	17%	35%
l	S&P Health Care	23%	23%	23%	23%	23%	21%	24%	12%	7%	27%	-15%	11%	15%	15%	21%
Equities	S&P Consumer Discretionary	27%	27%	27%	28%	28%	27%	30%	16%	13%	29%	-20%	12%	18%	16%	25%
≒	S&P IT	28%	29%	28%	29%	29%	30%	33%	16%	12%	25%	-19%	11%	17%	14%	27%
<u>B</u>	S&P Utilities	13%	14%	13%	13%	13%	9%	8%	10%	6%	6%	12%	14%	8%	14%	11%
	S&P Consumers Staples	15%	16%	15%	15%	16%	14%	15%	9%	4%	12%	-3%	11%	17%	11%	14%
1	S&P Industrials	40%	40%	40%	40%	41%	39%	41%	17%	12%	43%	-13%	14%	18%	25%	40%
1	S&P Telecommunication	26%	27%	27%	27%	27%	24%	24%	12%	10%	19%	7%	8%	13%	20%	26%
	S&P Materials	52%	52%	52%	52%	52%	50%	52%	23%	17%	45%	-4%	17%	16%	33%	52%
ъ	US Treasury	-25%	-24%	-25%	-24%	-24%	-33%	-35%	-7%	-5%	-27%	33%	-5%	-5%	-3%	-27%
Bond	USD IG Corporate	-16%	-14%	-15%	-14%	-14%	-23%	-25%	0%	-1%	-19%	24%	3%	-3%	1%	-19%
<u> </u>	USD HY Corporate	38%	40%	39%	40%	41%	41%	44%	19%	11%	26%	-12%	23%	11%	19%	38%
	Bloomberg U.S. Dollar Spot	-39%	-40%	-40%	-40%	-41%	-25%	-26%	-27%	-20%	-25%	-39%	-26%	1%	-43%	-36%
	EURUSD	17%	18%	18%	18%	18%	3%	2%	15%	9%	16%	39%	19%	1%	31%	15%
	JPYUSD	-7%	-7%	-7%	-8%	-7%	-19%	-20%	-1%	0%	-12%	54%	1%	-10%	14%	-7%
<i>></i>	CADUSD	62%	62%	62%	62%	62%	53%	56%	27%	20%	44%	28%	22%	9%	48%	62%
Currency	MXNUSD	49%	50%	50%	51%	51%	44%	47%	33%	26%	34%	4%	25%	0%	36%	46%
\	GBPUSD	28%	29%	29%	29%	30%	24%	26%	12%	8%	28%	5%	11%	3%	21%	28%
ŭ	AUDUSD	47%	48%	48%	48%	49%	32%	36%	31%	20%	49%	26%	29%	8%	50%	44%
	CHFUSD	6%	7%	6%	7%	7%	-8%	-8%	7%	2%	7%	40%	15%	-4%	23%	5%
	KRWUSD	37%	38%	38%	38%	39%	23%	24%	24%	14%	34%	30%	28%	3%	41%	34%
	CNYUSD	19%	19%	19%	19%	19%	11%	12%	14%	10%	21%	13%	15%	6%	23%	17%

	5-Year	Bloomberg Commodity	Roll Select	1 Month Forward	3 Month Forward	6 Month Forward	Energy	Petroleum	Agriculture	Grains	Industrial Metals	Precious Metals	Softs	Livestock	Ex-Energy	Ex-Ags & Livestock
	Bloomberg Commodity		99%	100%	99%	98%	82%	78%	62%	53%	60%	45%	39%	21%	80%	93%
	Roll Select	99%		99%	99%	99%	80%	77%	62%	53%	62%	47%	40%	20%	81%	93%
	1 Month Forward	100%	99%		100%	99%	81%	77%	63%	53%	61%	46%	40%	20%	80%	93%
	3 Month Forward	99%	99%	100%		100%	79%	77%	63%	53%	62%	48%	40%	20%	81%	92%
	6 Month Forward	98%	99%	99%	100%		78%	77%	61%	52%	63%	49%	40%	19%	81%	92%
es	Energy	82%	80%	81%	79%	78%		89%	23%	17%	30%	13%	17%	13%	31%	90%
Commodities	Petroleum	78%	77%	77%	77%	77%	89%		23%	16%	36%	17%	20%	13%	35%	84%
ا و ا	Agriculture	62%	62%	63%	63%	61%	23%	23%		94%	26%	19%	51%	11%	80%	31%
	Grains	53%	53%	53%	53%	52%	17%	16%	94%		18%	13%	21%	9%	70%	22%
5	Industrial Metals	60%	62%	61%	62%	63%	30%	36%	26%	18%		39%	24%	12%	69%	61%
	Precious Metals	45%	47%	46%	48%	49%	13%	17%	19%	13%	39%		17%	3%	63%	47%
	Softs	39%	40%	40%	40%	40%	17%	20%	51%	21%	24%	17%		9%	48%	25%
	Livestock	21%	20%	20%	20%	19%	13%	13%	11%	9%	12%	3%	9%		22%	14%
	Ex-Energy	80%	81%	80%	81%	81%	31%	35%	80%	70%	69%	63%	48%	22%		60%
	Ex-Agriculture & Livestock	93%	93%	93%	92%	92%	90%	84%	31%	22%	61%	47%	25%	14%	60%	
	S&P 500 Total Return Index	33%	33%	33%	34%	35%	29%	36%	14%	9%	34%	5%	13%	10%	24%	33%
	S&P Energy	57%	57%	57%	57%	57%	60%	66%	19%	13%	38%	15%	19%	9%	32%	61%
	S&P Financial	28%	29%	29%	30%	30%	26%	32%	11%	7%	34%	0%	13%	8%	20%	29%
	S&P Health Care	17%	18%	18%	18%	19%	14%	19%	8%	5%	22%	0%	8%	8%	14%	17%
Equities	S&P Consumer Discretionary	23%	24%	24%	24%	25%	20%	27%	11%	8%	28%	-1%	9%	9%	18%	23%
l ii	S&P IT	26%	27%	26%	27%	28%	22%	29%	12%	8%	29%	4%	11%	9%	20%	26%
P	S&P Utilities	11%	12%	12%	12%	12%	9%	10%	5%	4%	8%	9%	8%	1%	10%	12%
	S&P Consumers Staples	17%	18%	18%	18%	19%	14%	18%	8%	5%	19%	4%	9%	8%	14%	17%
	S&P Industrials	31%	32%	32%	33%	33%	26%	33%	14%	9%	37%	5%	13%	9%	25%	32%
	S&P Telecommunication	19%	20%	20%	20%	21%	17%	21%	7%	5%	18%	6%	7%	7%	14%	20%
	S&P Materials	43%	44%	44%	44%	45%	36%	44%	17%	12%	42%	17%	17%	10%	34%	44%
ح ا	US Treasury	-20%	-20%	-21%	-21%	-21%	-23%	-27%	-9%	-7%	-24%	15%	-4%	-6%	-9%	-21%
Bond	USD IG Corporate	-13%	-13%	-13%	-13%	-13%	-17%	-20%	-4%	-4%	-16%	14%	1%	-4%	-4%	-14%
	USD HY Corporate	29%	30%	30%	31%	32%	25%	30%	17%	12%	29%	3%	17%	11%	23%	27%
	Bloomberg U.S. Dollar Spot	-37%	-38%	-38%	-38%	-39%	-24%	-26%	-21%	-14%	-26%	-39%	-24%	-5%	-37%	-36%
	EURUSD	28%	29%	28%	29%	29%	12%	13%	15%	11%	27%	38%	18%	2%	34%	28%
	JPYUSD	0%	0%	-1%	0%	0%	-10%	-10%	3%	2%	-9%	34%	4%	-5%	10%	-1%
ا ج	CADUSD	52%	53%	52%	53%	54%	41%	47%	24%	16%	38%	34%	25%	10%	43%	52%
Currency	MXNUSD	43%	45%	44%	45%	46%	32%	38%	25%	17%	37%	25%	27%	5%	39%	42%
l uri	GBPUSD	28%	29%	29%	29%	30%	19%	22%	13%	8%	27%	24%	14%	5%	27%	29%
0	AUDUSD	43%	45%	44%	45%	46%	26%	30%	25%	17%	40%	38%	27%	9%	45%	41%
	CHFUSD	19%	19%	19%	19%	20%	5%	5%	9%	5%	21%	36%	13%	0%	27%	19%
	KRWUSD	30%	31%	31%	31%	32%	16%	19%	17%	10%	30%	28%	22%	3%	33%	29%
	CNYUSD	12%	12%	13%	13%	13%	8%	7%	11%	10%	10%	5%	6%	1%	13%	10%

CORRELATION: BCOM Singles vs. Equities vs. Bond vs. Currency

Marcia Galla Marc		1-Year	Natural Gas	I Crude	nt Crude	Diesel	Unleaded Gasoline		Soybeans	Wheat	Soybean Oil	Soybean Meal	HRW Wheat	Copper	Alumnium	Zinc	Nickel	Gold	Silver	Sugar	Coffee	Cotton	e Cattle	Lean Hogs
Service 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			Nati	×	Brer	N S	J &		So	5	Soyl	os _	HRV	ŭ	Alu				<i>V</i> 1	S	S	Ō	Live	Lea
Part			220/	23%																				4% 13%
University Countries 120				98%	36/6																			13%
Section Sect							81%																	14%
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Secont Mean Column		'							38%	3070														2%
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SAF Consumers Sables	Eq.	S&P Utilities	9%	8%	8%	9%	4%	1%	8%	7%	4%	5%	10%	-1%	3%	14%	9%	9%	15%	8%	17%	5%	4%	9%
Sep Telecommunication 10		•																						15%
Sub- Materials																								13% 13%
Mathematical Math	Ш	S&P Materials	12%	53%	52%	49%	43%	12%	20%	8%	25%	12%	11%	40%	33%	31%	38%	-13%	11%	2%	33%	14%	11%	13%
Beominery U.S. Deliver Sport	l a																							3% 3%
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CHUSD 1496 -606 -995 -886 -1076 -198 -078 -198 -198 -198 -198 -198 -198 -198 -19	5	CADUSD		58%	56%		44%	16%	19%	16%	34%	11%	14%	36%	37%	35%			39%	6%	37%		3%	11%
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## Company September Septe		5-Year	atural Gas	/TI Crude	ent Crude	LS Diesel	Jnleaded Sasoline	Corn	oybeans		ybean Oil			Copper	lumnium	Zinc	Nickel	Gold	Silver	Sugar	Coffee	Cotton	ve Cattle	ean Hogs
ULS Diesel Unleaded Cascoline Un			Natural Gas	E M	Brent					Wheat	Soybean	Soybean Meal	HRW Wheat										Live	K Lean Hogs
Unleaded Casonine 10% 12% 12% 12% 12% 11% 15% 15% 75% Corn 10% 10% 12% 12% 12% 11% 10% 15% 75% Soybeans 60% 20% 19% 20% 17% 69% 67% 33% 31% 13% 10% 29% 97% 40% 61% 21% 18% 12% 18% 11% 13% 11% 13% 11% 13% 17% 76% 67% 12% 12% 11% 10% 15% 75% 12% 11% 11% 13% 13% 11% 13% 13% 13% 75% 12% 13% 13% 13% 75% 12% 13% 13% 13% 75% 12% 13% 13% 13% 75% 12% 13% 13% 13% 75% 12% 13% 13% 13% 13% 13% 13% 13% 13% 13% 13		Natural Gas	Natural	E M	Brent 15%	15%	12%	10%	6%	Wheat	Soybean %	Soybean Meal	HRW Wheat	0%	5%	1%	2%	-1%	1%	2%	2%	-2%	Live	Fean Hogs
Corn 10% 12% 12% 12% 12% 13%		Natural Gas WTI Crude Brent Crude	15% 15%	15% 94%	15% 94%	15% 90%	12% 83% 88%	10% 12% 12%	6% 20% 19%	7% 7% 7%	7% 32% 31%	Soybean Meal Meal	HRW 8% Wheat	0% 36% 33%	5% 30% 27%	1% 25% 23%	2% 28% 27%	-1% 14% 11%	1% 23% 21%	2% 15% 13%	2% 17% 14%	-2% 18% 17%	4% 11% 10%	5% 10% 9%
## Softward 7% 7% 7% 7% 7% 7% 7% 7		Natural Gas WTI Crude Brent Crude ULS Diesel	15% 15% 15%	15% 94% 90%	15% 94% 96%	15% 90% 96%	12% 83% 88%	10% 12% 12% 12%	6% 20% 19% 20%	7% 7% 7% 7%	7% 32% 31% 30%	200 Soybean Meal Meal Meal	HRW %8 %8 Wheat	0% 36% 33% 31%	5% 30% 27% 26%	1% 25% 23% 22%	2% 28% 27% 25%	-1% 14% 11% 12%	1% 23% 21% 21%	2% 15% 13% 14%	2% 17% 14% 14%	-2% 18% 17% 17%	4% 11% 10% 8%	5% 10% 9% 9%
Soybean Oil 7% 32% 31% 30% 23% 37% 61% 27% 51% 31% 30% 23% 37% 61% 27% 52% 31% 30% 23% 31% 30% 23% 31% 30% 31%		Natural Gas WTI Crude Brent Crude ULS Diesel Unleaded Gasoline Corn	15% 15% 15% 15%	15% 94% 90% 83%	15% 94% 96% 88%	15% 90% 96% 85% 12%	12% 83% 88% 85%	10% 12% 12% 12%	6% 20% 19% 20% 17%	7% 7% 7% 7% 6%	7% 32% 31% 30% 29%	200 Peau Peau Peau Peau Peau Peau Peau Peau	HRW 8% 8% 8% 8% Wheat	0% 36% 33% 31% 30% 11%	5% 30% 27% 26% 25%	1% 25% 23% 22% 20%	2% 28% 27% 25% 22%	-1% 14% 11% 12% 11%	1% 23% 21% 21% 20%	2% 15% 13% 14% 10% 13%	2% 17% 14% 14% 9%	-2% 18% 17% 17% 15%	4% 11% 10% 8% 8%	5% 10% 9%
Soybean Meal		Natural Gas WTI Crude Brent Crude ULS Diesel Unleaded Gasoline Corn Soybeans	15% 15% 15% 10% 6%	94% 90% 83% 12% 20%	15% 94% 96% 88% 12% 19%	15% 90% 96% 85% 12% 20%	12% 83% 88% 85% 11% 17%	10% 12% 12% 12% 11%	6% 20% 19% 20% 17% 59%	7% 7% 7% 6% 6%	7% 32% 31% 30% 29% 37% 61%	Useal Value of Value	7% 8% 8% 9% 8% 64% 40%	0% 36% 33% 31% 30% 11% 21%	5% 30% 27% 26% 25% 12% 19%	1% 25% 23% 22% 20% 8% 19%	2% 28% 27% 25% 22% 12% 19%	-1% 14% 11% 12% 11% 8% 11%	1% 23% 21% 21% 20% 11% 19%	2% 15% 13% 14% 10% 13% 15%	2% 17% 14% 14% 9% 11% 12%	-2% 18% 17% 17% 15% 15%	4% 11% 10% 8% 8% 7% 7%	5% 10% 9% 9% 7% 6% 5%
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Gold	nmodities	Natural Gas WTI Crude Brent Crude ULS Diesel Unleaded Gasoline Corn Soybeans Wheat Soybean Oil Soybean Meal HRW Wheat Copper	15% 15% 15% 12% 10% 6% 7% 4% 7% 0%	94% 90% 83% 12% 20% 7% 32% 11% 8% 36%	96% 88% 12% 19% 7% 31% 11% 8% 33%	15% 90% 96% 85% 12% 20% 7% 30% 13% 9% 31%	12% 83% 88% 85% 11% 17% 6% 29% 9% 8% 30%	10% 12% 12% 12% 11% 59% 67% 37% 54% 64% 11%	6% 20% 19% 20% 17% 59% 43% 61% 91% 40% 21%	7% 7% 7% 7% 6% 67% 43% 27% 39% 95% 9%	ready of the second of the sec	usadyos 4% 11% 11% 13% 9% 54% 91% 39% 31% 36% 14%	7% 8% 8% 9% 8% 64% 40% 95% 25% 36%	0% 36% 33% 31% 30% 11% 21% 9% 28% 14% 8%	5% 30% 27% 26% 25% 12% 19% 8% 25% 12% 8%	1% 25% 23% 22% 20% 8% 19% 5% 27% 12% 5%	2% 28% 27% 25% 22% 12% 19% 10% 24% 10% 57%	-1% 14% 11% 12% 11% 8% 11% 10% 16% 8% 9% 32%	1% 23% 21% 21% 20% 11% 19% 11% 26% 13% 10% 46%	2% 15% 13% 14% 10% 13% 15% 12% 10% 13% 10%	2% 17% 14% 14% 9% 11% 12% 14% 17% 7% 11%	-2% 18% 17% 17% 15% 15% 17% 14% 20% 12% 13% 22%	4% 11% 10% 8% 8% 7% 6% 11% 3% 7% 9%	5% 10% 9% 9% 7% 6% 5% 2% 7% 3%
Silver Sugar	Commodities	Natural Gas WTI Crude Brent Crude ULS Diesel Unleaded Gasoline Corn Soybeans Wheat Soybean Oil Soybean Meal HRW Wheat Copper Alumnium Zinc	15% 15% 15% 12% 10% 6% 7% 4% 7% 0% 5% 1%	15% 94% 90% 83% 12% 20% 7% 32% 11% 8% 36% 30% 25%	15% 94% 96% 88% 12% 19% 7% 31% 11% 8% 33% 27% 23%	15% 90% 96% 85% 12% 20% 7% 30% 13% 9% 31% 26% 22%	12% 83% 88% 85% 11% 17% 6% 29% 9% 8% 30% 25% 20%	10% 12% 12% 12% 11% 59% 67% 37% 54% 64% 11% 12% 8%	6% 20% 19% 20% 17% 59% 43% 61% 91% 40% 21% 19%	7% 7% 7% 7% 6% 67% 43% 27% 39% 95% 98% 5%	25% 25% 27%	usadyoo	7% 8% 8% 9% 8% 64% 40% 95% 25% 36%	0% 36% 33% 31% 30% 11% 21% 9% 28% 14% 8%	5% 30% 27% 26% 25% 12% 19% 8% 25% 12% 8% 63%	1% 25% 23% 22% 20% 8% 19% 5% 27% 12% 5% 66% 64%	2% 28% 27% 25% 22% 12% 19% 10% 24% 10% 57% 50%	-1% 14% 11% 12% 11% 8% 11% 10% 16% 8% 9% 32% 26% 27%	1% 23% 21% 21% 20% 11% 19% 11% 26% 13% 10% 46% 35% 36%	2% 15% 13% 14% 10% 13% 15% 12% 10% 13% 10% 15%	2% 17% 14% 14% 9% 11% 12% 14% 17% 7% 11% 15% 13%	-2% 18% 17% 17% 15% 15% 14% 20% 12% 13% 22% 16% 14%	4% 11% 10% 8% 8% 7% 6% 11% 3% 7% 9% 8% 6%	5% 10% 9% 9% 7% 6% 5% 2% 7% 3% 2% 10% 10%
Coffee	Commodities	Natural Gas WTI Crude Brent Crude ULS Diesel Unleaded Gasoline Corn Soybeans Wheat Soybean Oil Soybean Meal HRW Wheat Copper Alumnium Zinc Nickel	15% 15% 15% 12% 10% 6% 7% 4% 7% 0% 5% 1% 2%	15% 94% 90% 83% 12% 20% 7% 32% 11% 8% 36% 30% 25% 28%	15% 94% 96% 88% 12% 19% 7% 31% 11% 8% 33% 27% 23% 27%	15% 90% 96% 85% 12% 20% 7% 30% 13% 9% 31% 26% 22% 25%	12% 83% 88% 85% 11% 17% 6% 29% 9% 8% 30% 25% 20% 22%	10% 12% 12% 12% 11% 59% 67% 37% 54% 64% 11% 12%	6% 20% 19% 20% 17% 59% 43% 61% 91% 40% 21% 19% 19%	7% 7% 7% 7% 6% 67% 43% 27% 39% 95% 98% 5% 10%	25% 25% 24%	usadyoos 4% 11% 11% 13% 9% 54% 91% 39% 31% 36% 14% 12% 10%	7% 8% 8% 9% 8% 64% 40% 95% 25% 36% 8% 5% 10%	0% 36% 33% 31% 30% 11% 21% 9% 28% 14% 8%	5% 30% 27% 26% 25% 12% 8% 25% 12% 8% 63%	1% 25% 23% 22% 20% 8% 19% 5% 27% 12% 5% 66% 64%	2% 28% 27% 25% 22% 12% 10% 24% 10% 57% 50% 54%	-1% 14% 11% 12% 11% 8% 11% 10% 16% 8% 9% 32% 26% 27%	1% 23% 21% 21% 20% 11% 19% 11% 26% 13% 10% 46% 35% 36% 30%	2% 15% 13% 14% 10% 13% 15% 12% 10% 13% 15% 15% 15%	2% 17% 14% 14% 9% 11% 12% 14% 17% 7% 11% 15% 13% 16% 14%	-2% 18% 17% 15% 15% 14% 20% 12% 13% 22% 16% 14%	4% 11% 10% 8% 8% 7% 6% 11% 3% 7% 9% 8% 6% 1%	5% 10% 9% 9% 7% 6% 5% 2% 7% 3% 2% 10% 11% 6%
Cotton 2-9k 18-8k 17% 17-5k 15-8k 17-7k	Commodities	Natural Gas WTI Crude Brent Crude ULS Diesel Unleaded Gasoline Corn Soybeans Wheat Soybean Oil Soybean Meal HRW Wheat Copper Alumnium Zinc Nickel Gold	15% 15% 15% 12% 10% 6% 7% 4% 7% 0% 5% 11% 2% -1%	15% 94% 90% 83% 12% 20% 7% 32% 11% 8% 36% 30% 25% 28% 14%	15% 94% 96% 88% 12% 19% 7% 31% 11% 8% 27% 23% 27% 11%	15% 90% 96% 85% 12% 20% 7% 30% 13% 9% 31% 26% 22% 25% 12%	12% 83% 88% 85% 11% 6% 29% 9% 8% 30% 25% 20% 22% 11%	10% 12% 12% 12% 11% 59% 67% 37% 54% 64% 11% 12% 8%	6% 20% 19% 20% 17% 59% 43% 61% 91% 40% 21% 19% 19% 19%	7% 7% 7% 7% 6% 67% 43% 27% 39% 95% 9% 8% 5% 10% 10%	25% 25% 24% 16%	ueaq\lambda oS 4\% 11\% 11\% 13\% 9\% 54\% 91\% 39\% 31\% 14\% 12\% 12\% 10\% 8\%	7% 8% 8% 9% 8% 64% 40% 95% 25% 36% 8% 5% 10% 9%	0% 36% 33% 31% 30% 11% 21% 9% 28% 14% 8%	5% 30% 27% 26% 25% 12% 19% 8% 25% 12% 8% 63%	1% 25% 23% 22% 20% 8% 19% 5% 27% 12% 5% 66% 64%	2% 28% 27% 25% 22% 12% 19% 10% 24% 10% 57% 50% 54%	-1% 14% 11% 12% 11% 8% 11% 10% 16% 8% 9% 32% 26% 27% 19%	1% 23% 21% 21% 20% 11% 19% 11% 26% 13% 10% 46% 35% 36% 30%	2% 15% 13% 14% 10% 13% 15% 12% 10% 13% 15% 15% 16% 8%	2% 17% 14% 14% 9% 11% 12% 14% 17% 7% 11% 15% 13% 16% 14%	-2% 18% 17% 15% 15% 14% 20% 12% 13% 22% 16% 14% 19%	4% 11% 10% 8% 8% 7% 6% 11% 3% 7% 9% 8% 6% 1% -1%	5% 10% 9% 9% 7% 6% 5% 2% 7% 3% 2% 10% 10%
Live Cattle	Commodities	Natural Gas WTI Crude Brent Crude ULS Diesel Unleaded Gasoline Corn Soybeans Wheat Soybean Oil Soybean Meal HRW Wheat Copper Alumnium Zinc Nickel Gold Silver Sugar	15% 15% 15% 12% 10% 6% 7% 4% 7% 0% 5% 11% 2% -1% 11%	15% 94% 90% 83% 12% 20% 7% 32% 11% 8% 36% 30% 25% 28% 14% 23% 15%	15% 94% 96% 88% 12% 19% 7% 31% 11% 8% 27% 23% 27% 11% 21% 13%	15% 90% 96% 85% 12% 20% 7% 30% 13% 9% 31% 26% 22% 25% 12% 21%	12% 83% 88% 85% 11% 17% 6% 29% 9% 8% 30% 25% 20% 22% 11% 20% 10%	10% 12% 12% 12% 11% 59% 67% 37% 54% 64% 11% 12% 8% 11% 13%	6% 20% 19% 20% 17% 59% 43% 61% 91% 40% 21% 19% 19% 11% 19%	7% 7% 7% 6% 67% 43% 27% 39% 95% 910% 10% 11% 12%	25% 25% 24% 16% 26% 10%	4% 11% 11% 13% 9% 54% 91% 39% 31% 36% 14% 12% 10% 8% 13% 13%	7% 8% 8% 9% 8% 64% 40% 95% 25% 36% 8% 5% 10% 9% 10%	0% 36% 33% 31% 30% 11% 21% 9% 28% 14% 8% 66% 57% 32% 46% 15%	5% 30% 27% 26% 25% 12% 8% 25% 12% 8% 63% 64% 50% 26% 35% 13%	1% 25% 23% 22% 20% 8% 19% 5% 27% 12% 5% 66% 64% 54% 27% 36% 15%	2% 28% 27% 25% 22% 12% 10% 24% 10% 57% 50% 54%	-1% 14% 11% 12% 11% 8% 11% 10% 16% 8% 9% 32% 26% 27% 19%	1% 23% 21% 21% 20% 11% 19% 11% 26% 13% 10% 46% 35% 36% 30% 84%	2% 15% 13% 14% 10% 13% 15% 12% 10% 13% 15% 16% 8% 12%	2% 17% 14% 14% 9% 11% 12% 14% 17% 7% 11% 15% 13% 16% 14% 14%	-2% 18% 17% 15% 15% 14% 20% 12% 13% 22% 16% 14% 19% 10% 15%	4% 11% 10% 8% 8% 7% 6% 11% 3% 7% 9% 8% 6% 11% 44% 6%	5% 10% 9% 9% 7% 6% 5% 22% 7% 3% 2% 10% 11% 6% 2% 3% 5%
S&P 500 Total Return Index S&P 500 Total Return Index S&P 676 675% 65% 62% 569% 10% 15% 65% 24% 7% 9% 37% 31% 26% 29% 10% 21% 14% 111% 20% 88% 5&P finergy S&P Finergy 13% 67% 655% 62% 569% 10% 15% 65% 24% 7% 9% 37% 31% 26% 29% 10% 21% 14% 111% 20% 88% 5&P finergy S&P Finergy S&P Health Care -2% 20% 20% 18% 16% 33% 8% 11% 10% 5% 2% 21% 18% 15% 19% -4% 66% 5% 4% 14% 99% 5% 11% 14% 11% 20% 16% 5% 34% 24% 24% 25% 56% 19% 99% 7% 17% 111% 11% 20% 18% 15% 19% 14% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15	Commodities	Natural Gas WTI Crude Brent Crude ULS Diesel Unleaded Gasoline Corn Soybeans Wheat Soybean Oil Soybean Meal HRW Wheat Copper Alumnium Zinc Nickel Gold Silver Sugar Coffee	15% 15% 15% 12% 10% 6% 7% 4% 7% 0% 5% 11% 2% 2% 2%	15% 94% 90% 83% 12% 20% 7% 32% 11% 8% 36% 30% 25% 28% 14% 23% 15% 17%	15% 94% 96% 88% 12% 19% 7% 31% 11% 8% 27% 23% 27% 11% 21% 13% 14%	15% 90% 96% 12% 20% 7% 30% 13% 9% 31% 26% 22% 25% 12% 21% 14%	12% 83% 88% 85% 11% 6% 29% 9% 8% 30% 25% 20% 22% 11% 20% 10% 9%	10% 12% 12% 11% 59% 67% 37% 54% 64% 11% 12% 8% 11% 13% 11%	6% 20% 19% 20% 17% 59% 43% 61% 91% 40% 21% 19% 19% 11% 19% 15% 12%	7% 7% 7% 6% 67% 43% 27% 39% 95% 910% 10% 11% 12% 14%	25% 25% 24% 16% 26% 17%	4% 11% 13% 9% 54% 91% 39% 31% 36% 14% 12% 10% 8% 13% 13% 7%	7% 8% 8% 9% 8% 64% 40% 95% 25% 36% 8% 10% 9% 10% 11%	0% 36% 33% 31% 30% 11% 21% 9% 28% 14% 8% 66% 57% 32% 46% 15%	5% 30% 27% 26% 25% 12% 19% 8% 25% 12% 8% 63% 64% 50% 26% 35% 13%	1% 25% 23% 22% 20% 8% 19% 5% 27% 12% 5% 66% 64% 54% 27% 36% 15% 16%	2% 28% 27% 25% 22% 12% 19% 10% 24% 10% 57% 50% 54%	-1% 14% 11% 12% 11% 8% 11% 10% 16% 8% 9% 32% 26% 27% 19% 84% 8% 14%	1% 23% 21% 21% 20% 11% 19% 11% 26% 13% 10% 46% 35% 36% 30% 84%	2% 15% 13% 14% 10% 13% 15% 12% 10% 13% 15% 16% 8% 12%	2% 17% 14% 14% 9% 11% 12% 14% 17% 7% 11% 15% 13% 16% 14% 14% 19% 26%	-2% 18% 17% 15% 15% 14% 20% 12% 13% 22% 16% 14% 19% 10% 15%	4% 11% 10% 8% 8% 7% 6% 11% 3% 7% 9% 8% 6% 11% 44% 6% 44%	5% 10% 9% 9% 7% 6% 5% 22% 7% 3% 2% 10% 11% 6% 2% 3% 5% 7%
S&P Energy S&P Financial S&P Consumer Discretionary S&P Financial S&P Consumer Discretionary S&P Financial S&P Consumer Discretionary S&P Financial S&P Fina	Commodities	Natural Gas WTI Crude Brent Crude ULS Diesel Unleaded Gasoline Corn Soybeans Wheat Soybean Oil Soybean Meal HRW Wheat Copper Alumnium Zinc Nickel Gold Silver Sugar Coffee Cotton Live Cattle	15% 15% 15% 12% 10% 6% 7% 4% 7% 0% 5% 11% 2% -1% 1% 2% -2% 4%	15% 94% 90% 83% 12% 20% 7% 32% 11% 8% 36% 30% 25% 28% 14% 23% 15% 17% 18% 11%	15% 94% 96% 88% 12% 19% 7% 31% 11% 8% 27% 23% 27% 11% 21% 13% 14% 17% 10%	15% 90% 96% 12% 20% 7% 30% 13% 9% 31% 26% 22% 21% 14% 14% 14% 17% 8%	12% 83% 88% 85% 11% 6% 29% 9% 8% 30% 25% 20% 22% 11% 20% 10% 9% 15% 8%	10% 12% 12% 11% 59% 67% 37% 54% 64% 11% 12% 8% 11% 13% 11% 15% 7%	6% 20% 19% 20% 17% 59% 43% 61% 91% 40% 21% 19% 19% 11% 19% 15% 12% 17% 7%	7% 7% 7% 6% 67% 43% 27% 39% 95% 910% 10% 11% 12% 14% 6%	25% 25% 26% 10% 17% 27%	4% 11% 13% 9% 54% 91% 39% 31% 36% 14% 12% 10% 8% 13% 13% 7% 12% 3%	7% 8% 8% 9% 8% 64% 40% 95% 25% 36% 8% 5% 10% 9% 10% 11% 13% 7%	0% 36% 33% 31% 30% 11% 21% 9% 28% 14% 8% 66% 57% 32% 46% 15% 15% 22% 9%	5% 30% 27% 26% 25% 12% 19% 8% 25% 12% 8% 63% 64% 50% 26% 35% 13% 16% 8%	1% 25% 23% 22% 20% 8% 19% 5% 27% 12% 5% 66% 64% 54% 27% 36% 15% 16% 14% 6%	2% 28% 27% 25% 22% 12% 19% 10% 24% 10% 57% 50% 54% 19% 30% 16% 14% 19%	-1% 14% 11% 12% 11% 8% 11% 10% 16% 8% 9% 32% 26% 27% 19% 84% 8% 14% 10% -1%	1% 23% 21% 21% 20% 11% 19% 11% 26% 13% 10% 46% 35% 36% 30% 84%	2% 15% 13% 14% 10% 13% 15% 12% 10% 13% 15% 16% 8% 12%	2% 17% 14% 14% 9% 11% 12% 14% 17% 7% 11% 15% 13% 16% 14% 14% 19% 26%	-2% 18% 17% 15% 15% 14% 20% 12% 13% 22% 16% 14% 19% 10% 15% 12%	4% 11% 10% 8% 8% 7% 6% 11% 3% 7% 9% 8% 6% 11% 4% 4% 4%	5% 10% 9% 9% 7% 6% 5% 22% 7% 3% 2% 10% 11% 6% 2% 3% 5%
S&P Financial S&P Financial S&P Financial S&P Financial S&P Health Care -2% 20% 20% 18% 16% 3% 8% 11% 15% 15% 29% 21% 18% 15% 19% -4% 6% 5% 9% 9% 7% 17% 11% 19% 28% 25% 25% 21% 18% 15% 19% -4% 6% 5% 4% 11% 9% 24% 58% 25% 21% 19% 24% 23% 21% 19% 24% 23% 21% 19% 24% 25% 25% 28% 21% 19% 24% 25% 25% 25% 28% 21% 19% 24% 25% 25% 25% 28% 23% 21% 24% 20% 11% 24% 20% 21% 20% 22% 24% 22% 24% 22% 24% 22% 24% 23% 21% 24% 23% 23% 21% 24% 20% 23% 21% 24% 20% 23% 21% 24% 20% 22% 24% 24	Commodities	Natural Gas WTI Crude Brent Crude ULS Diesel Unleaded Gasoline Corn Soybeans Wheat Soybean Oil Soybean Meal HRW Wheat Copper Alumnium Zinc Nickel Gold Silver Sugar Coffee Cotton Live Cattle Lean Hogs	15% 15% 15% 12% 10% 6% 7% 4% 5% 1% 2% -1% 1% 2% -2% 4% 5%	15% 94% 90% 83% 12% 20% 7% 32% 11% 8% 36% 30% 25% 28% 14% 23% 15% 117% 18% 11% 10%	15% 94% 96% 88% 12% 19% 7% 31% 11% 8% 27% 23% 27% 11% 13% 14% 17% 10% 9%	15% 90% 96% 12% 20% 7% 30% 13% 9% 31% 26% 22% 25% 12% 21% 14% 14% 17% 8%	12% 83% 88% 85% 11% 6% 29% 9% 8% 30% 25% 20% 22% 11% 20% 10% 9% 15% 8% 7%	10% 12% 12% 11% 59% 67% 37% 54% 64% 11% 12% 8% 11% 13% 11% 15% 7% 6%	6% 20% 19% 20% 17% 59% 43% 61% 91% 40% 21% 19% 19% 11% 19% 15% 17% 7% 5%	7% 7% 7% 6% 67% 43% 27% 39% 95% 910% 10% 11% 12% 14% 6% 2%	25% 25% 26% 10% 17% 21% 27%	4% 11% 13% 9% 54% 91% 39% 31% 36% 14% 12% 10% 8% 13% 13% 7% 12% 3% 3%	7% 8% 8% 9% 8% 64% 40% 95% 25% 36% 8% 10% 9% 10% 11% 13% 7% 2%	0% 36% 33% 31% 30% 11% 21% 9% 28% 14% 8% 66% 57% 32% 46% 15% 22% 9% 10%	5% 30% 27% 26% 25% 12% 19% 8% 25% 12% 8% 63% 64% 50% 26% 35% 13% 16% 8% 10%	1% 25% 23% 22% 20% 8% 19% 5% 27% 12% 5% 66% 64% 54% 27% 36% 15% 16% 14% 6% 11%	2% 28% 27% 25% 22% 12% 19% 10% 24% 10% 57% 50% 54% 19% 30% 16% 14% 19% 1% 6%	-1% 14% 11% 12% 11% 8% 11% 10% 16% 8% 9% 32% 26% 27% 19% 84% 8% 14% 10% -1% 2%	1% 23% 21% 21% 20% 11% 19% 11% 26% 13% 10% 46% 35% 36% 30% 84% 12% 19% 15% 4% 3%	2% 15% 13% 14% 10% 13% 15% 12% 10% 13% 15% 16% 8% 12% 26% 12% 6% 5%	2% 17% 14% 14% 9% 11% 12% 14% 17% 7% 11% 15% 13% 16% 14% 14% 19% 26%	-2% 18% 17% 15% 15% 14% 20% 12% 13% 22% 16% 14% 19% 10% 15% 12% 4% 3%	4% 11% 10% 8% 8% 7% 6% 11% 3% 7% 9% 8% 6% 11% 44% 44% 44%	5% 10% 9% 9% 7% 6% 5% 22% 10% 10% 11% 6% 2% 3% 5% 7% 3% 26%
S&P Consumer Discretionary	Commodities	Natural Gas WTI Crude Brent Crude ULS Diesel Unleaded Gasoline Corn Soybeans Wheat Soybean Oil Soybean Meal HRW Wheat Copper Alumnium Zinc Nickel Gold Silver Sugar Coffee Cotton Live Cattle Lean Hogs S&P 500 Total Return Index	15% 15% 15% 12% 10% 6% 7% 4% 5% 10% 5% 11% 22% -1% 11% 22% 44% 5%	15% 94% 90% 83% 12% 20% 32% 11% 8% 36% 30% 25% 28% 14% 23% 15% 17% 18% 11% 10%	15% 94% 96% 88% 12% 19% 7% 31% 11% 8% 27% 23% 27% 11% 13% 14% 17% 10% 9%	15% 90% 96% 12% 20% 7% 30% 13% 9% 31% 26% 22% 21% 14% 14% 17% 8% 9%	12% 83% 88% 85% 11% 6% 29% 9% 8% 30% 25% 20% 22% 11% 20% 10% 9% 15% 8% 7%	10% 12% 12% 11% 59% 67% 37% 54% 64% 11% 12% 8% 11% 13% 11% 15% 7% 6%	6% 20% 19% 20% 17% 59% 43% 61% 91% 40% 21% 19% 19% 15% 12% 17% 7% 5%	7% 7% 7% 6% 67% 43% 27% 39% 95% 9% 8% 5% 10% 11% 12% 14% 6% 2% 4%	25% 25% 26% 10% 17%	4% 11% 11% 13% 9% 54% 91% 39% 31% 36% 14% 12% 10% 8% 13% 13% 7% 12% 3% 3% 7%	7% 8% 8% 9% 8% 64% 40% 95% 25% 36% 8% 8% 5% 10% 9% 11% 13% 7% 2% 6%	0% 36% 33% 31% 30% 11% 21% 9% 28% 14% 8% 66% 57% 32% 46% 15% 22% 9% 10% 34%	5% 30% 27% 26% 25% 12% 19% 8% 25% 12% 8% 63% 64% 50% 26% 35% 13% 16% 8% 10% 27%	1% 25% 23% 22% 20% 8% 19% 5% 27% 12% 5% 66% 64% 54% 27% 36% 15% 16% 14% 6% 11%	2% 28% 27% 25% 22% 12% 19% 10% 24% 10% 57% 50% 54% 19% 30% 16% 14% 19% 14% 19% 6%	-1% 14% 11% 12% 11% 8% 11% 10% 16% 8% 9% 32% 26% 27% 19% 84% 8% 14% 10% -1% 2% 0%	1% 23% 21% 21% 20% 11% 19% 11% 26% 13% 10% 46% 35% 36% 30% 84% 12% 19% 15% 4% 3%	2% 15% 13% 14% 10% 13% 15% 12% 10% 13% 15% 16% 8% 12% 26% 12% 6% 5%	2% 17% 14% 14% 9% 11% 12% 14% 17% 7% 11% 15% 13% 16% 14% 14% 19% 26%	-2% 18% 17% 15% 15% 17% 14% 20% 12% 13% 22% 16% 14% 19% 10% 15% 12% 4% 3% 20%	4% 11% 10% 8% 8% 7% 6% 11% 3% 7% 9% 8% 6% 11% 4% 4% 4% 4%	5% 10% 9% 9% 7% 6% 5% 22% 7% 3% 2% 10% 11% 6% 2% 3% 5% 7% 3%
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CORRELATION: US CPI vs. BCOM Indices & Other Benchmarks

									US (CPI Ind	ices							
	5-Year	All items	Core	Food	Food at home	Food away from home	Energy	Energy Commodities	Fuel Oil	Motor Fuel	Energy services	Electricity	Utility gas service	Commodities less food and energy	Services less energy services	Shelter	Medical care	Transportation
	Bloomberg Commodity	60%	-10%	-2%	-2%	-4%	64%	62%	69%	62%	16%	-6%	34%	-24%	7%	3%	5%	15%
es	Energy	67%	-15%	-2%	0%	-8%	76%	76%	78%	75%	16%	-2%	29%	-15%	-6%	-1%	-9%	4%
BCOM Composites	Petroleum	73%	-3%	-7%	-5%	-8%	78%	79%	81%	79%	1%	-4%	6%	-6%	3%	-7%	-6%	12%
g	Agriculture	22%	-10%	-1%	0%	0%	25%	24%	22%	25%	6%	-18%	28%	-35%	15%	6%	2%	24%
5	Grains	13%	-9%	5%	6%	1%	14%	14%	12%	15%	-2%	-21%	19%	-27%	10%	-3%	0%	22%
ĮΣ	Industrial Metals	45%	7%	-4%	-3%	-5%	43%	40%	48%	39%	2%	5%	0%	5%	7%	0%	22%	3%
181	Precious Metals	13%	10%	-3%	-5%	7%	6%	0%	21%	0%	13%	6%	16%	-7%	17%	10%	32%	0%
m	Softs	24%	-12%	-9%	-10%	1%	29%	27%	25%	27%	25%	1%	40%	-39%	12%	23%	6%	14%
	Livestock	9%	2%	30%	30%	12%	4%	3%	2%	3%	7%	-10%	23%	5%	2%	-27%	1%	16%
	Natural Gas	15%	-27%	10%	13%	-6%	24%	22%	21%	21%	39%	4%	60%	-24%	-17%	13%	-5%	-15%
	WTI Crude	68%	-3%	-2%	-1%	-3%	73%	74%	74%	74%	3%	-2%	8%	-9%	5%	-8%	-3%	13%
	Brent Crude	72%	-6%	-10%	-8%	-11%	78%	78%	82%	78%	2%	-3%	8%	-6%	0%	-8%	-7%	10%
	ULS Diesel	69%	-11%	-10%	-9%	-7%	75%	75%	85%	74%	3%	-3%	9%	-11%	-3%	-3%	-10%	6%
	Unleaded Gasoline	81%	3%	-8%	-5%	-11%	85%	86%	77%	86%	-8%	-10%	-1%	1%	6%	-3%	-14%	19%
	Corn	9%	-9%	5%	5%	2%	10%	11%	12%	11%	-2%	-21%	19%	-23%	7%	-1%	-4%	20%
	Soybeans	24%	-6%	-7%	-5%	-7%	25%	25%	24%	25%	-3%	-16%	13%	-30%	17%	0%	4%	24%
	Wheat	1%	-12%	17%	16%	10%	2%	2%	-8%	3%	-1%	-22%	21%	-25%	5%	-7%	2%	17%
ا پر ا	Soybean Oil	32%	13%	-16%	-16%	-5%	30%	28%	15%	29%	2%	-10%	14%	-3%	21%	10%	4%	31%
BCOM Singles	Soybean Meal	18%	-9%	1%	3%	-3%	21%	22%	26%	22%	-5%	-15%	8%	-35%	16%	0%	1%	19%
Sin	HRW Wheat	8%	-10%	21%	20%	8%	8%	6%	-2%	7%	12%	-12%	31%	-17%	2%	-12%	3%	18%
Σ	Copper	47%	7%	-10%	-9%	-6%	45%	43%	52%	43%	-5%	6%	-12%	15%	0%	-12%	19%	-3%
8	Alumnium	36%	2%	-1%	-3%	3%	33%	32%	33%	32%	-8%	-9%	-2%	-1%	3%	11%	7%	3%
8	Zinc	37%	10%	-17%	-14%	-16%	35%	31%	42%	31%	9%	12%	4%	-1%	12%	7%	28%	4%
	Nickel	31%	7%	21%	23%	-4%	28%	24%	32%	24%	21%	10%	25%	-6%	13%	2%	21%	12%
	Gold	7%	10%	1%	-2%	11%	0%	-6%	16%	-6%	13%	5%	17%	-5%	15%	9%	30%	-1%
	Silver	24%	10%	-9%	-10%	0%	18%	12%	28%	12%	13%	8%	14%	-10%	19%	11%	30%	0%
	Sugar	16%	-12%	-28%	-30%	-2%	23%	23%	22%	23%	10%	-2%	18%	-35%	10%	11%	10%	11%
	Coffee	16%	-12%	23%	22%	11%	17%	13%	11%	13%	37%	8%	52%	-28%	4%	25%	-2%	1%
	Cotton	29%	6%	-14%	-12%	-13%	28%	25%	27%	25%	12%	-6%	27%	-18%	20%	14%	13%	27%
	Live Cattle	14%	-1%	21%	21%	8%	12%	11%	11%	11%	3%	3%	3%	10%	-6%	-23%	7%	7%
	Lean Hogs	2%	4%	30%	29%	11%	-3%	-4%	-7%	-4%	9%	-15%	31%	1%	7%	-22%	-1%	16%
S	S&P 500 Total Return Index	38%	-31%	-12%	-10%	-10%	47%	45%	37%	46%	9%	10%	3%	-20%	-22%	-25%	-5%	-3%
Benchmarks	US Treasury	-55%	-1%	8%	3%	25%	-58%	-59%	-43%	-59%	7%	3%	8%	1%	-4%	-2%	18%	-14%
E	USD IG Corporate	-10%	-15%	-1%	-5%	17%	-6%	-7%	5%	-8%	16%	6%	20%	-8%	-15%	-6%	7%	-13%
l si	USD HY Corporate	43%	-15%	-14%	-15%	0%	53%	52%	60%	52%	14%	4%	19%	-6%	-13%	-13%	-1%	-2%
B	Bloomberg U.S. Dollar Spot	-49%	-2%	2%	1%	2%	-48%	-45%	-41%	-45%	-11%	-1%	-19%	8%	-8%	3%	-2%	-16%

									US (CPI Ind	ices							
	20-Year	All items	Core	Food	Food at home	Food away from home	Energy	Energy Commodities	Fuel Oil	Motor Fuel	Energy services	Electricity	Utility gas service	Commodities less food and energy	Services less energy services	Shelter	Medical care	Transportation
	Bloomberg Commodity	68%	5%	3%	7%	-13%	69%	67%	67%	66%	30%	-3%	40%	-1%	9%	1%	6%	19%
es	Energy	68%	0%	8%	12%	-10%	72%	70%	70%	69%	37%	-2%	48%	-3%	5%	-1%	0%	13%
BCOM Composites	Petroleum	72%	3%	7%	10%	-8%	76%	77%	72%	76%	22%	0%	28%	1%	6%	-1%	2%	16%
 ω	Agriculture	29%	7%	-2%	-1%	-7%	27%	27%	25%	26%	4%	-4%	9%	-1%	9%	7%	4%	15%
l ö	Grains	23%	7%	3%	3%	-3%	20%	20%	20%	20%	0%	-4%	4%	-1%	10%	9%	3%	11%
\	Industrial Metals	43%	7%	-8%	-6%	-13%	44%	43%	42%	43%	12%	1%	14%	4%	6%	0%	9%	10%
5	Precious Metals	29%	5%	0%	0%	1%	27%	24%	26%	24%	11%	7%	11%	4%	5%	-6%	15%	15%
×	Softs	26%	2%	-10%	-8%	-14%	28%	27%	21%	27%	11%	-2%	16%	1%	0%	-3%	4%	17%
	Livestock	14%	-4%	18%	22%	-7%	11%	9%	8%	9%	14%	7%	15%	-12%	7%	2%	7%	4%
	Natural Gas	36%	-6%	7%	12%	-13%	39%	33%	38%	32%	47%	-4%	61%	-4%	-2%	-2%	-6%	2%
	WTI Crude	67%	4%	8%	10%	-6%	71%	72%	69%	71%	21%	2%	26%	-1%	8%	1%	4%	16%
	Brent Crude	70%	5%	8%	10%	-8%	73%	75%	70%	74%	18%	1%	23%	2%	6%	-1%	2%	15%
	ULS Diesel	70%	0%	10%	12%	-5%	73%	73%	77%	72%	26%	1%	33%	0%	3%	-5%	0%	17%
	Unleaded Gasoline	79%	3%	4%	7%	-12%	83%	84%	67%	84%	20%	-4%	27%	5%	2%	-4%	-2%	15%
	Corn	22%	5%	6%	7%	-3%	19%	19%	20%	18%	3%	-4%	7%	3%	4%	5%	-5%	8%
	Soybeans	22%	6%	-3%	-2%	-8%	20%	21%	21%	20%	-1%	-1%	1%	-3%	12%	8%	3%	15%
	Wheat	15%	7%	3%	2%	5%	13%	13%	9%	13%	0%	-5%	3%	-4%	11%	11%	10%	3%
S	Soybean Oil	30%	15%	-2%	-1%	-6%	25%	24%	23%	24%	4%	-3%	8%	4%	16%	12%	9%	15%
BCOM Singles	Soybean Meal	16%	3%	-1%	0%	-6%	16%	17%	17%	17%	-1%	3%	-1%	-5%	8%	5%	0%	15%
Sin	HRW Wheat	23%	8%	4%	3%	4%	21%	20%	15%	20%	6%	0%	9%	2%	8%	8%	11%	2%
Σ	Copper	43%	10%	-10%	-8%	-10%	42%	43%	40%	42%	9%	0%	11%	10%	5%	-3%	8%	12%
8	Alumnium	41%	5%	0%	3%	-9%	41%	39%	44%	39%	19%	2%	23%	1%	6%	4%	3%	8%
"	Zinc	24%	6%	-21%	-19%	-16%	26%	26%	21%	26%	1%	-1%	2%	7%	3%	1%	5%	2%
	Nickel	32%	-4%	-5%	0%	-18%	35%	36%	30%	36%	5%	-1%	9%	-11%	4%	-2%	12%	7%
	Gold	27%	4%	5%	4%	6%	24%	22%	24%	22%	12%	10%	10%	2%	5%	-6%	14%	15%
	Silver	28%	6%	-7%	-6%	-7%	26%	24%	26%	24%	10%	2%	11%	5%	3%	-4%	15%	12%
	Sugar	18%	6%	-12%	-11%	-6%	19%	17%	13%	17%	11%	3%	13%	9%	0%	-3%	4%	13%
	Coffee	13%	4%	-1%	1%	-8%	13%	13%	8%	13%	3%	1%	6%	2%	-2%	2%	-3%	1%
	Cotton	27%	-7%	-6%	-3%	-18%	29%	29%	32%	28%	8%	-7%	13%	-1%	-7%	-10%	4%	18%
	Live Cattle	20%	-7%	20%	24%	-8%	19%	17%	12%	17%	15%	11%	12%	-15%	8%	6%	10%	2%
	Lean Hogs	3%	-3%	12%	14%	-5%	2%	-1%	2%	-1%	10%	3%	12%	-8%	2%	-3%	4%	4%

CORRELATION: World CPI vs. BCOM Indices & Other Benchmarks

										CPI b	у Соц	ıntry								
	5-Year	SN	China	Japan	Germany	UK	France	India	Brazil	Italy	Canada	South Korea	Australia	Mexico	Spain	Russia	Indonesia	Turkey	Netherlands	Switzerland
	Bloomberg Commodity	60%	28%	24%	53%	60%	38%	35%	-65%	27%	22%	35%	63%	65%	46%	-64%	-15%	13%	42%	80%
l sa l	Energy	67%	42%	34%	63%	70%	43%	51%	-76%	32%	19%	37%	78%	75%	47%	-66%	13%	20%	57%	78%
sit	Petroleum	73%	57%	18%	83%	85%	68%	62%	-86%	59%	24%	57%	68%	76%	66%	-79%	-3%	36%	69%	65%
BCOM Composites	Agriculture	22%	-2%	-21%	23%	26%	18%	21%	-21%	18%	-2%	12%	9%	28%	37%	-44%	-46%	-17%	16%	43%
ö	Grains	13%	0%	-38%	39%	35%	36%	43%	-30%	44%	-20%	18%	3%	37%	60%	-32%	-38%	-22%	44%	13%
\frac{1}{5}	Industrial Metals	45%	-13%	51%	6%	11%	-9%	0%	-35%	-18%	8%	-6%	35%	36%	4%	-13%	4%	-1%	2%	68%
ਨੂੰ	Precious Metals	13%	14%	-35%	7%	12%	26%	-25%	14%	23%	35%	42%	-18%	-16%	19%	-21%	-78%	24%	-9%	-14%
<u>\@</u>	Softs	24%	-1%	20%	-22%	-8%	-22%	-36%	11%	-37%	36%	-2%	8%	-12%	-30%	-33%	-30%	9%	-45%	55%
	Livestock	9%	21%	71%	23%	34%	17%	11%	-57%	6%	42%	24%	69%	57%	0%	-32%	33%	37%	15%	59%
	Natural Gas	15%	5%	52%	-2%	14%	-24%	8%	-24%	-35%	7%	-14%	68%	36%	-14%	-14%	42%	-13%	8%	69%
	WTI Crude	68%	53%	29%	76%	79%	61%	57%	-85%	50%	25%	50%	70%	76%	55%	-74%	9%	38%	62%	69%
	Brent Crude	72%	62%	14%	84%	88%	72%	61%	-85%	62%	27%	63%	68%	73%	67%	-81%	-9%	38%	69%	63%
	ULS Diesel	69%	61%	12%	89%	90%	76%	62%	-87%	67%	25%	65%	70%	76%	74%	-73%	-5%	37%	75%	56%
	Unleaded Gasoline	81%	62%	-4%	90%	91%	78%	69%	-78%	72%	22%	67%	61%	70%	81%	-80%	-23%	33%	81%	47%
	Corn	9%	11%	-59%	42%	40%	45%	39%	-17%	54%	-16%	31%	-3%	27%	66%	-22%	-50%	-16%	51%	-13%
	Soybeans	24%	4%	-8%	40%	36%	29%	44%	-48%	29%	-12%	9%	15%	45%	44%	-56%	-22%	-14%	30%	55%
	Wheat	1%	-33%	-29%	4%	-2%	-1%	27%	-1%	11%	-40%	-17%	-12%	17%	31%	4%	-19%	-44%	20%	0%
_s	Soybean Oil	32%	10%	-61%	9%	10%	15%	0%	19%	16%	-2%	18%	-31%	-20%	29%	-37%	-70%	-13%	2%	0%
ge	Soybean Meal	18%	-13%	9%	32%	24%	23%	39%	-52%	26%	-16%	-2%	12%	50%	37%	-34%	-4%	-15%	25%	45%
Sin	HRW Wheat	8%	-7%	5%	31%	33%	20%	41%	-42%	25%	-15%	9%	36%	54%	45%	-20%	-7%	-20%	41%	38%
BCOM Single	Copper	47%	7%	31%	41%	39%	22%	34%	-56%	17%	-3%	13%	46%	54%	39%	-31%	4%	2%	40%	62%
8	Alumnium	36%	-22%	43%	-20%	-13%	-29%	-25%	-5%	-37%	9%	-18%	15%	8%	-19%	11%	0%	-6%	-20%	48%
"	Zinc	37%	-26%	44%	-11%	-10%	-24%	-17%	-19%	-34%	0%	-23%	12%	20%	-13%	-5%	3%	-11%	-18%	63%
1 1	Nickel	31%	-7%	66%	9%	18%	-3%	4%	-45%	-13%	22%	3%	49%	47%	1%	-20%	10%	11%	2%	74%
	Gold	7%	18%	-34%	12%	17%	34%	-23%	8%	31%	39%	49%	-19%	-11%	22%	-24%	-77%	31%	-5%	-19%
	Silver	24%	2%	-31%	-6%	0%	5%	-27%	28%	1%	23%	25%	-13%	-26%	9%	-12%	-72%	6%	-17%	-1%
	Sugar	16%	21%	-25%	5%	11%	10%	-10%	5%	2%	21%	19%	-18%	-18%	0%	-54%	-59%	12%	-22%	26%
1 1	Coffee	16%	-12%	64%	-24%	-10%	-21%	-47%	-7%	-37%	55%	2%	35%	16%	-35%	-9%	-2%	26%	-41%	55%
	Cotton	29%	-14%	0%	-31%	-22%	-49%	-6%	35%	-54%	-23%	-42%	16%	-26%	-27%	12%	30%	-41%	-19%	37%
	Live Cattle	14%	-8%	76%	3%	5%	2%	-13%	-38%	-4%	34%	7%	47%	46%	-12%	17%	41%	30%	1%	23%
	Lean Hogs	2%	41%	36%	34%	48%	24%	31%	-52%	14%	33%	31%	60%	44%	13%	-68%	7%	27%	22%	71%
S	S&P 500 Total Return Index	38%	-4%	44%	32%	27%	7%	43%	-60%	1%	-25%	-15%	44%	59%	20%	-15%	50%	-15%	33%	66%
ark	US Treasury	-55%	-11%	10%	-28%	-19%	-13%	-27%	10%	-10%	14%	-2%	-14%	-2%	-33%	0%	-19%	8%	-39%	-12%
볼	USD IG Corporate	-10%	2%	1%	1%	3%	12%	-9%	-16%	11%	16%	11%	-9%	14%	-8%	-29%	-37%	7%	-24%	12%
Benchmarks	USD HY Corporate	43%	29%	-23%	31%	32%	33%	18%	-33%	27%	1%	23%	-1%	19%	26%	-46%	-36%	-7%	12%	30%
&	Bloomberg U.S. Dollar Spot	-49%	-46%	-1%	-39%	-52%	-31%	-24%	35%	-18%	-31%	-41%	-47%	-28%	-30%	80%	38%	-18%	-23%	-69%

								CPI b	ру Соц	ıntry						
	20-Year		China	Japan	Germany	UK	France	India	Brazil	Canada	South Korea	Australia	Mexico	Russia	Turkey	Switzerland
	Bloomberg Commodity	78%	45%	2%	54%	18%	69%	-34%	21%	67%	20%	35%	4%	-14%	5%	67%
es	Energy	75%	28%	8%	49%	4%	63%	-41%	32%	68%	19%	39%	19%	0%	20%	69%
Sit	Petroleum	80%	40%	5%	57%	17%	72%	-36%	24%	66%	17%	36%	12%	-4%	10%	71%
BCOM Composites	Agriculture	46%	64%	9%	49%	38%	54%	0%	7%	39%	27%	13%	-13%	-33%	-16%	34%
<u>ö</u>	Grains	42%	62%	6%	53%	34%	54%	-4%	3%	34%	19%	15%	-16%	-27%	-17%	28%
\	Industrial Metals	51%	21%	-4%	23%	9%	34%	-22%	-8%	32%	-6%	14%	-10%	-10%	-10%	42%
5	Precious Metals	40%	33%	-31%	26%	39%	49%	0%	-8%	29%	18%	22%	-32%	-20%	-31%	35%
×	Softs	31%	34%	6%	17%	29%	27%	4%	14%	35%	31%	4%	5%	-26%	0%	28%
	Livestock	38%	33%	22%	31%	0%	28%	-34%	18%	37%	0%	16%	5%	-20%	6%	20%
	Natural Gas	53%	12%	27%	25%	-14%	32%	-36%	35%	55%	24%	26%	28%	3%	26%	46%
	WTI Crude	79%	38%	9%	55%	15%	70%	-37%	23%	65%	16%	35%	16%	1%	12%	73%
	Brent Crude	81%	38%	0%	59%	23%	72%	-34%	17%	66%	16%	36%	13%	-1%	11%	73%
	ULS Diesel	81%	46%	3%	60%	22%	75%	-36%	27%	69%	18%	41%	5%	-10%	2%	70%
	Unleaded Gasoline	77%	39%	-5%	55%	18%	69%	-30%	23%	65%	17%	31%	7%	-10%	8%	61%
	Corn	40%	58%	6%	49%	48%	47%	6%	-3%	35%	20%	18%	-11%	-20%	-14%	19%
	Soybeans	33%	56%	8%	43%	24%	50%	-3%	13%	25%	21%	6%	-17%	-34%	-18%	26%
	Wheat	38%	52%	2%	46%	15%	45%	-18%	1%	31%	-1%	19%	-24%	-19%	-22%	30%
S	Soybean Oil	47%	56%	1%	48%	28%	59%	-2%	2%	34%	35%	15%	-22%	-29%	-16%	36%
gle	Soybean Meal	22%	45%	2%	38%	13%	40%	-16%	13%	20%	0%	15%	-20%	-34%	-20%	22%
BCOM Singles	HRW Wheat	54%	53%	12%	55%	29%	54%	-15%	-6%	44%	14%	26%	-11%	-14%	-14%	45%
Σ	Copper	54%	29%	-5%	29%	16%	42%	-17%	-10%	30%	-1%	16%	-12%	-14%	-17%	45%
	Alumnium	62%	25%	5%	33%	9%	44%	-29%	0%	47%	4%	20%	-6%	-5%	0%	54%
"	Zinc	22%	0%	-1%	-4%	-4%	-1%	-13%	-15%	4%	-20%	-9%	-2%	-9%	-8%	10%
	Nickel	29%	2%	-17%	5%	-2%	20%	-29%	1%	27%	-20%	11%	-10%	0%	-6%	29%
	Gold	38%	33%	-34%	26%	38%	53%	-4%	-1%	32%	7%	31%	-41%	-20%	-40%	36%
	Silver	38%	30%	-22%	23%	34%	37%	1%	-16%	24%	28%	8%	-16%	-14%	-14%	30%
	Sugar	38%	13%	-19%	17%	15%	34%	-12%	27%	41%	20%	30%	-8%	-28%	-6%	34%
	Coffee	20%	34%	41%	12%	27%	8%	6%	-1%	15%	28%	-29%	33%	-9%	13%	19%
	Cotton	18%	37%	-2%	2%	27%	13%	18%	10%	26%	3%	6%	-10%	-12%	-20%	10%
	Live Cattle	32%	29%	25%	23%	-7%	28%	-40%	24%	39%	1%	11%	2%	-10%	1%	17%
	Lean Hogs	32%	29%	11%	31%	7%	22%	-22%	11%	26%	-1%	20%	1%	-32%	5%	16%

CORRELATION: World GDP vs. BCOM Indices & Other Benchmarks

										GDP	by Co	untry								
	5-Year		China	Japan	Germany	ž	France	India	Brazil	Italy	Canada	South Korea	Australia	Mexico	Spain	Russia	Indonesia	Turkey	Netherlands	Switzerland
	Bloomberg Commodity	21%	70%	20%	-17%	19%	-8%	61%	48%	-41%	61%	-5%	4%	14%	-48%	65%	8%	-13%	-56%	16%
l sa	Energy	27%	61%	7%	-6%	27%	-12%	53%	61%	-34%	60%	3%	-3%	0%	-49%	64%	-3%	-10%	-69%	24%
BCOM Composites	Petroleum	29%	73%	-4%	-18%	28%	-26%	70%	65%	-54%	55%	-13%	3%	15%	-72%	78%	-2%	-22%	-82%	14%
gt	Agriculture	-16%	47%	17%	-26%	16%	1%	44%	38%	-36%	43%	-2%	12%	0%	-37%	50%	12%	-11%	-25%	19%
l ö	Grains	-31%	46%	5%	-39%	12%	-3%	41%	47%	-51%	29%	-5%	6%	-12%	-55%	48%	6%	-2%	-41%	14%
\frac{1}{2}	Industrial Metals	30%	38%	29%	-9%	1%	7%	23%	7%	-2%	32%	-16%	-19%	27%	-6%	12%	9%	-3%	-22%	-9%
	Precious Metals	9%	45%	21%	-18%	-11%	-9%	46%	-4%	-44%	13%	-31%	27%	39%	-32%	36%	14%	-18%	-7%	-16%
×	Softs	18%	24%	28%	11%	12%	8%	28%	3%	5%	39%	0%	21%	23%	12%	26%	14%	-21%	17%	15%
	Livestock	33%	34%	7%	5%	26%	-6%	27%	29%	-15%	28%	-14%	0%	13%	-13%	30%	-3%	-17%	-45%	14%
	Natural Gas	17%	14%	28%	25%	10%	20%	-1%	23%	19%	43%	39%	-8%	-29%	20%	12%	-4%	19%	-13%	28%
	WTI Crude	31%	65%	-2%	-11%	30%	-23%	63%	62%	-43%	52%	-12%	1%	14%	-62%	71%	-3%	-22%	-78%	14%
	Brent Crude	30%	79%	1%	-20%	23%	-27%	77%	62%	-60%	57%	-13%	9%	20%	-74%	83%	-2%	-21%	-82%	10%
	ULS Diesel	29%	86%	5%	-22%	17%	-26%	81%	59%	-64%	56%	-12%	12%	23%	-77%	85%	-1%	-14%	-87%	6%
	Unleaded Gasoline	19%	83%	-2%	-26%	21%	-25%	79%	66%	-69%	54%	-18%	10%	15%	-85%	87%	-4%	-19%	-86%	10%
	Corn	-31%	57%	17%	-28%	-3%	2%	51%	41%	-59%	20%	-8%	22%	-9%	-59%	53%	3%	9%	-42%	4%
	Soybeans	-9%	37%	-5%	-37%	30%	-19%	36%	50%	-34%	46%	3%	-8%	-2%	-46%	51%	15%	-20%	-38%	24%
	Wheat	-47%	-2%	-8%	-36%	14%	15%	-11%	25%	-12%	7%	1%	-18%	-37%	-18%	-2%	-1%	7%	-7%	22%
l s	Soybean Oil	-15%	43%	22%	-11%	-1%	2%	49%	17%	-32%	33%	-10%	32%	19%	-34%	47%	14%	-8%	-4%	-2%
gle	Soybean Meal	-10%	18%	-18%	-45%	28%	-23%	13%	39%	-27%	26%	-1%	-27%	-4%	-36%	27%	14%	-16%	-35%	21%
Sin	HRW Wheat	-20%	47%	13%	-35%	18%	12%	33%	45%	-36%	34%	-3%	-4%	-18%	-41%	38%	-4%	3%	-50%	16%
BCOM Singles	Copper	20%	66%	27%	-19%	0%	-5%	51%	23%	-26%	47%	-16%	-7%	34%	-38%	43%	7%	3%	-49%	-13%
	Alumnium	27%	26%	44%	7%	-10%	18%	12%	-12%	10%	9%	-15%	-8%	21%	15%	-8%	7%	2%	1%	-19%
"	Zinc	31%	0%	16%	-4%	3%	2%	-13%	-9%	22%	22%	-12%	-41%	21%	19%	-20%	17%	-2%	9%	0%
	Nickel	37%	26%	13%	-14%	11%	8%	15%	16%	-2%	27%	-13%	-24%	17%	-4%	13%	5%	-14%	-27%	5%
	Gold	9%	43%	16%	-19%	-11%	-13%	45%	-1%	-50%	6%	-36%	26%	40%	-36%	35%	13%	-21%	-10%	-16%
	Silver	8%	45%	29%	-16%	-11%	0%	44%	-10%	-29%	24%	-18%	24%	35%	-20%	32%	12%	-14%	2%	-14%
	Sugar	11%	29%	9%	-4%	8%	-13%	40%	14%	-19%	34%	-6%	25%	29%	-20%	43%	19%	-32%	6%	9%
	Coffee	26%	15%	29%	15%	10%	13%	10%	-4%	6%	18%	-13%	9%	19%	24%	5%	6%	-14%	6%	10%
	Cotton	-3%	17%	38%	22%	9%	34%	17%	-4%	38%	54%	46%	17%	-12%	32%	17%	6%	19%	21%	18%
	Live Cattle	25%	19%	15%	10%	0%	9%	7%	-2%	-4%	-8%	-25%	-3%	19%	6%	-5%	-6%	8%	-32%	-13%
	Lean Hogs	26%	34%	-4%	-2%	41%	-18%	35%	49%	-19%	52%	2%	2%	1%	-27%	53%	0%	-36%	-37%	35%
S	S&P 500 Total Return Index	19%	21%	1%	0%	18%	2%	11%	34%	11%	28%	19%	-28%	-15%	-11%	12%	3%	7%	-42%	12%
ar F	US Treasury	-17%	26%	33%	10%	-19%	29%	32%	4%	-11%	0%	-13%	56%	28%	2%	23%	-2%	0%	3%	-16%
H	USD IG Corporate	-9%	3%	-1%	-16%	13%	-10%	13%	16%	-22%	-14%	-11%	25%	-1%	-14%	14%	1%	-46%	0%	2%
Benchmarks	USD HY Corporate	23%	-7%	-28%	-27%	35%	-50%	-1%	17%	-30%	-1%	-5%	-31%	-23%	-27%	7%	15%	-40%	-6%	15%
l &	Bloomberg U.S. Dollar Spot	-24%	-56%	-11%	12%	-25%	17%	-57%	-39%	34%	-65%	-1%	-14%	-15%	41%	-66%	-9%	35%	31%	-22%

						G[OP by	Count	try				
	20-Year		China	Japan	Germany	UK	France	Canada	South Korea	Australia	Mexico	Spain	Switzerland
	Bloomberg Commodity	40%	48%	12%	29%	31%	34%	53%	3%	2%	39%	32%	39%
es	Energy	35%	17%	6%	9%	23%	22%	39%	3%	-3%	22%	32%	23%
BCOM Composites	Petroleum	37%	29%	7%	14%	25%	21%	44%	6%	-2%	27%	24%	29%
od	Agriculture	9%	49%	1%	22%	12%	15%	38%	-15%	2%	29%	-1%	21%
l ö	Grains	2%	44%	-1%	13%	6%	10%	32%	-13%	5%	21%	-5%	15%
\	Industrial Metals	48%	66%	27%	50%	39%	50%	50%	15%	6%	48%	41%	60%
Ιġ	Precious Metals	11%	62%	1%	23%	7%	10%	30%	6%	2%	23%	-8%	20%
×	Softs	18%	31%	3%	29%	17%	21%	34%	-11%	-3%	35%	5%	22%
	Livestock	44%	15%	20%	27%	35%	34%	23%	6%	14%	31%	31%	39%
	Natural Gas	27%	-5%	3%	0%	13%	19%	19%	-13%	-8%	11%	39%	11%
	WTI Crude	37%	28%	7%	13%	24%	21%	43%	8%	0%	25%	27%	28%
	Brent Crude	38%	33%	6%	16%	25%	23%	49%	11%	0%	29%	21%	32%
	ULS Diesel	33%	30%	5%	11%	21%	15%	41%	3%	-6%	25%	18%	27%
	Unleaded Gasoline	39%	29%	10%	19%	28%	27%	50%	4%	-4%	33%	18%	32%
	Corn	-5%	28%	-6%	7%	-10%	5%	19%	-19%	4%	14%	-17%	6%
	Soybeans	8%	38%	1%	8%	12%	8%	36%	-11%	5%	26%	-6%	14%
	Wheat	1%	50%	4%	24%	16%	13%	32%	-4%	-2%	14%	10%	22%
۱,,	Soybean Oil	10%	55%	-2%	14%	13%	11%	32%	-14%	9%	18%	8%	15%
l se	Soybean Meal	-2%	25%	1%	7%	6%	5%	30%	-2%	-6%	22%	-13%	15%
Singles	HRW Wheat	8%	57%	0%	27%	18%	18%	37%	-5%	-4%	21%	12%	24%
Σ	Copper	42%	68%	23%	47%	34%	42%	49%	13%	3%	47%	31%	54%
BCOM	Alumnium	48%	51%	20%	44%	34%	48%	43%	6%	6%	40%	47%	54%
@	Zinc	48%	51%	36%	54%	38%	51%	40%	12%	5%	53%	41%	60%
	Nickel	47%	56%	29%	44%	43%	52%	53%	28%	12%	41%	42%	54%
	Gold	2%	62%	2%	15%	4%	-4%	22%	12%	-3%	14%	-15%	12%
	Silver	24%	56%	1%	34%	12%	32%	40%	-3%	7%	34%	6%	33%
	Sugar	7%	21%	0%	14%	5%	4%	18%	-11%	-18%	18%	0%	9%
	Coffee	27%	26%	4%	19%	13%	25%	25%	-10%	13%	38%	11%	32%
1	Cotton	15%	24%	9%	36%	17%	27%	40%	1%	-9%	30%	1%	25%
	Live Cattle	46%	22%	18%	27%	34%	39%	26%	8%	17%	33%	35%	37%
	Lean Hogs	30%	7%	19%	19%	29%	19%	14%	1%	8%	21%	17%	31%

COMMITMENT OF TRADERS: Commodity Futures & Options, Money Managers

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* Click hyperlinks to open in Bloomberg

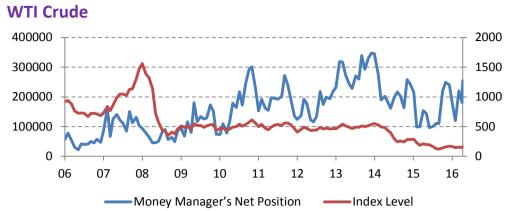
Group	Commodity	End-Nov Net Position	End-Oct Net Position	Notional Change (\$m) using end- Nov price	End-Nov Notional (\$m)
	Natural Gas	<u>27,556</u>	<u>137,031</u>	-3,670	924
	WTI Crude	<u>188,324</u>	<u>268,189</u>	-3,949	9,311
Enorgy	Brent Crude	<u>292,764</u>	<u>376,710</u>	-4,237	14,776
Energy	ULS Diesel	<u>3,359</u>	<u>12,356</u>	-594	222
	Gasoline	<u>17,013</u>	40,730	-1,485	1,065
	Total			-13,933	26,297
	Corn	-60,394	-68,962	144	-1,017
	Soybeans	113,644	<u>98,605</u>	776	5,865
	Wheat	-114,222	-123,387	174	-2,173
Grains	Soybean Oil	95,533	115,154	-433	2,109
	Soybean Meal	19,377	14,488	155	613
	HRW Wheat	10,905	5,405	108	213
	Total			924	5,611
	Copper	<u>76,346</u>	<u>-16,694</u>	1 6,098	5,004
Industrial	Aluminum	<u>169,882</u>	<u>152,244</u>	1 759	7,314
Metals	Zinc	<u>76,584</u>	<u>71,591</u>	1 336	5,149
ivietais	Nickel	<u>56,116</u>	<u>60,423</u>	-285	3,717
	Total			1 6,907	21,185
Precious	Gold	121,235	151,807	-3,579	14,194
Metals	Silver	42,846	40,679	178	3,515
ivietais	Total			-3,402	17,709
	Sugar	176,851	<u>257,536</u>	-1,790	3,924
Softs	Coffee	50,722	50,651	4	2,806
Softs	Cotton	80,553	68,030	454	2,918
	Total			-1,333	9,648
	Live Cattle	58,059	34,994	1,022	2,572
Livestock	Lean Hogs	31,931	26,669	107	652
	Total			1,129	3,224
Total				-9,707	83,673

HISTORICAL CORRELATION: BCOM Indices vs. Money Manager Positions

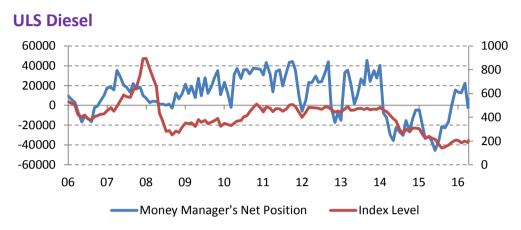
Group	Commodity	Long Po	osition	Short I	Position	Net Po	osition
		1-Year	5-Year	1-Year	5-Year	1-Year	5-Year
	Natural Gas	30%	27%	-35%	-36%	43%	46%
	WTI Crude	18%	28%	-55%	-50%	57%	53%
Energy	Brent Crude	36%	27%	-59%	-43%	54%	40%
	ULS Diesel	2%	22%	-46%	-35%	41%	42%
	Gasoline	46%	30%	-48%	-23%	61%	41%
	Corn	54%	52%	-53%	-51%	56%	61%
	Soybeans	55%	62%	-48%	-55%	62%	70%
Cuaina	Wheat	63%	52%	-67%	-63%	71%	67%
Grains	Soybean Oil	49%	48%	-71%	-63%	68%	66%
	Soybean Meal	56%	55%	-63%	-45%	71%	63%
	HRW Wheat	8%	19%	-44%		47%	50%
	Copper	27%	46%	-60%	-59%	59%	61%
Industrial	Aluminum	42%		-14%		46%	
Metals	Zinc	55%		-10%		77%	
	Nickel	17%		-39%		51%	
Precious	Gold	84%	68%	-53%	-58%	83%	71%
Metals	Silver	59%	48%	-39%	-49%	63%	58%
	Sugar	55%	49%	-60%	-59%	62%	64%
Softs	Coffee	67%	46%	-67%	-64%	76%	66%
	Cotton	54%	58%	-47%	-48%	61%	62%
Livesteels	Live Cattle	36%	23%	3%	-4%	26%	18%
Livestock	Lean Hogs	2%	12%	0%	-11%	2%	8%

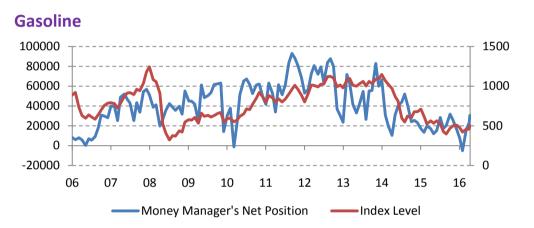
COMMITMENT OF TRADERS: Money Manager Net Positions vs. BCOM Levels



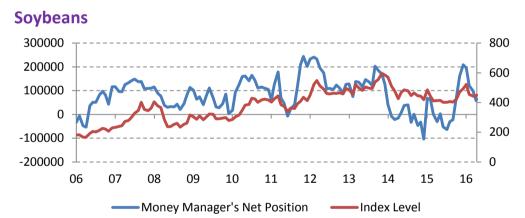


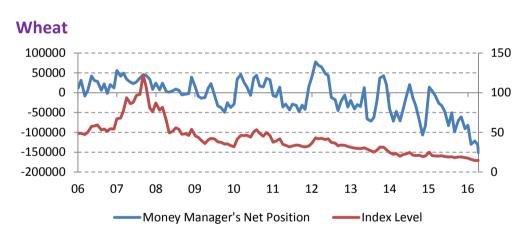


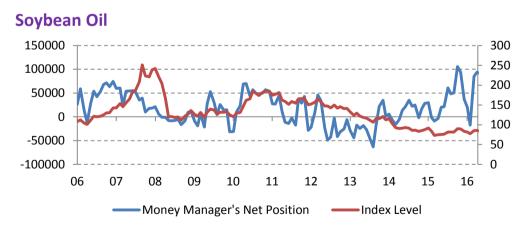




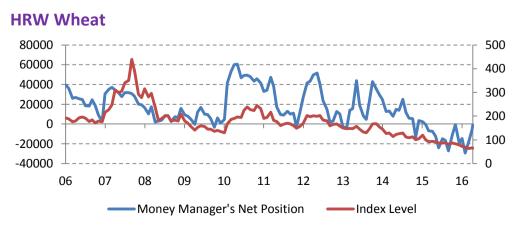


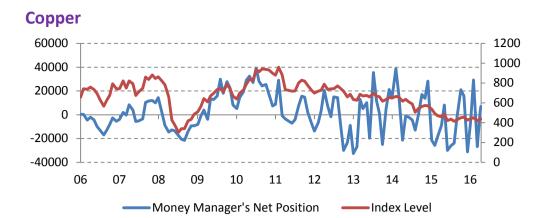




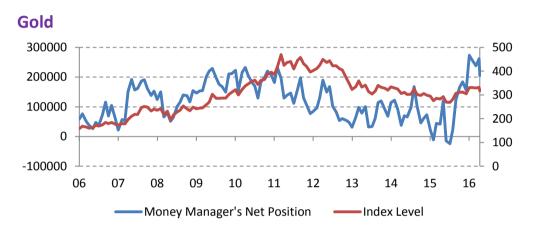


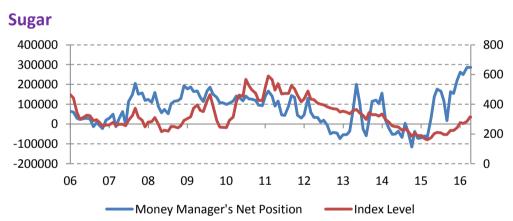


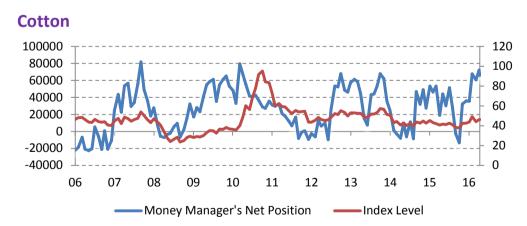








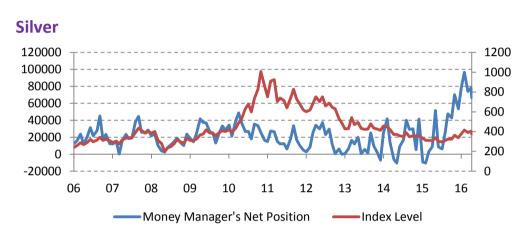




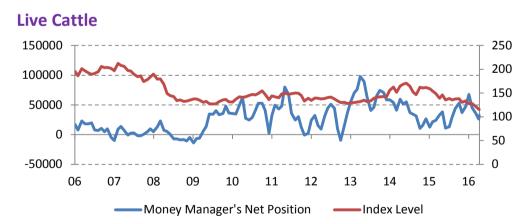












COMMODITY INVENTORY & SALES

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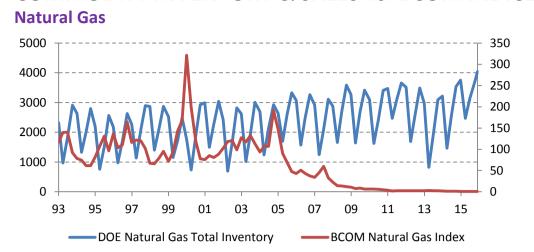
* Click hyperlinks to open in Bloomberg

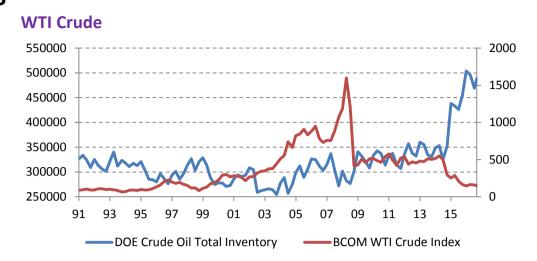
Group	Inventory/Sales	Ticker	Unit	End-Nov	End-Oct	Change (%)
	DOE Natural Gas Total Inventory	DOENUST1	bcf	4,045	3,909	1 3%
Energy	DOE Crude Oil Total Inventory	DOESCRUD	mm barrels	488	468	1 4%
	DOE Cushing Oklahoma Crude Oil Total Stocks	DOESCROK	mm barrels	62	58	1 5%
	DOE Distillate Fuel Oil Total Inventory	DOESDIST	mm barrels	154	152	1%
	DOE Motor Gasoline Total Inventory	DOESTMGS	mm barrels	226	226	1 0%
	USDA Corn Total Export Sales	SALECNUM	thousand MT	1,689	799	111%
	USDA Soybeans Total Export Sales	SALESYBN	thousand MT	1,899	2,045	- -7%
Grains	USDA All Wheat Total Export Sales	SALEWEAL	thousand MT	713	673	1 6%
	USDA Soybean Oil Total Export Sales	SALESYOL	thousand MT	26	25	1 7%
	USDA Soybean Cake Meal Total Export Sales	SALESCML	thousand MT	224	147	1 53%
	Comex Copper Total Inventory	COMXCOPR	thousand short ton	78	72	1 8%
Industrial	LME Copper Total Inventory	<u>NLSCA</u>	thousand MT	235	326	- -28%
Metals	LME Primary Aluminum Total Inventory	<u>NLSAH</u>	thousand MT	2,155	2,144	1%
ivietais	LME Zinc Total Inventory	NLSZS	thousand MT	443	451	- -2%
	LME Nickel Total Inventory	NLSNI	thousand MT	367	362	1%
Precious	Comex Gold Total Inventory	COMXGOLD	mm ounces	10	11	-5%
Metals	Comex Silver Total Inventory	COMXSILV	mm ounces	179	173	1 3%
Softs	USDA All Upland Cotton Total Export Sales	SALECNUA	thousand bales	299	129	131%
Livesteel	USDA Cattle Slaughter Estimates Daily	SLGTCATT	thousand heads	116	116	1 0%
Livestock	USDA Hogs Slaughter Estimates Daily	SLGTHOGS	thousand heads	441	460	-4%

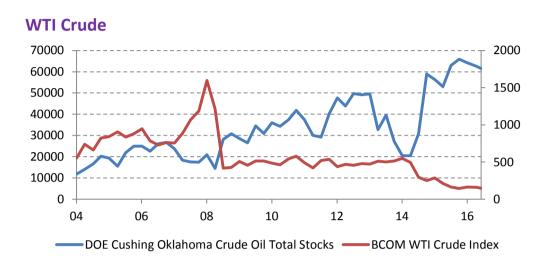
HISTORICAL CORRELATION: Inventory & Sales vs. BCOM Indices

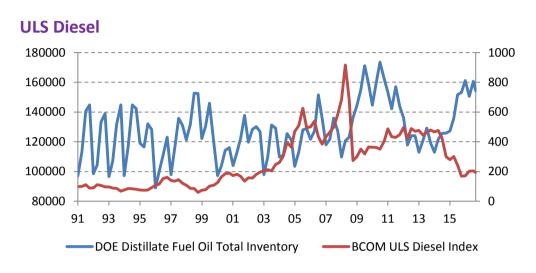
Group	Inventory/Sales	BCOM Index	1-Year	5-Year
	DOE Natural Gas Total Inventory	BCOM Natural Gas Index	67%	-24%
	DOE Crude Oil Total Inventory	BCOM WTI Crude Index	9%	-93%
Energy	DOE Cushing Oklahoma Crude Oil Total Stocks	BCOM WTI Crude Index	-18%	-79%
	DOE Distillate Fuel Oil Total Inventory	BCOM ULS Diesel Index	-66%	-80%
	DOE Motor Gasoline Total Inventory	BCOM Unleaded Gasoline Index	-58%	-53%
	USDA Corn Total Export Sales	BCOM Corn Index	1%	-42%
	USDA Soybeans Total Export Sales	BCOM Soybeans Index	35%	-9%
Grains	USDA All Wheat Total Export Sales	BCOM Wheat Index	-31%	16%
	USDA Soybean Oil Total Export Sales	BCOM Soybean Oil Index	-19%	-8%
	USDA Soybean Cake Meal Total Export Sales	BCOM Soybean Meal Index	13%	9%
	Comex Copper Total Inventory	BCOM Copper Index	41%	10%
Industrial	LME Copper Total Inventory	BCOM Copper Index	-4%	25%
Metals	LME Primary Aluminum Total Inventory	BCOM Alumnium Index	-78%	75%
ivietais	LME Zinc Total Inventory	BCOM Zinc Index	-31%	26%
	LME Nickel Total Inventory	BCOM Nickel Index	-85%	-74%
Precious	Comex Gold Total Inventory	BCOM Gold Index	70%	81%
Metals	Comex Silver Total Inventory	BCOM Silver Index	8%	-71%
Softs	USDA All Upland Cotton Total Export Sales	BCOM Cotton Index	15%	-12%
Livesteels	USDA Cattle Slaughter Estimates Daily	BCOM Live Cattle Index	-29%	-16%
Livestock	USDA Hogs Slaughter Estimates Daily	BCOM Lean Hogs Index	6%	-14%

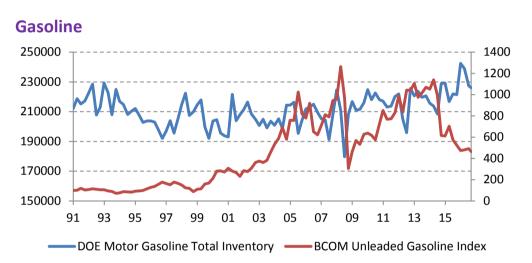
COMMODITY INVENTORY & SALES vs. BCOM INDICES

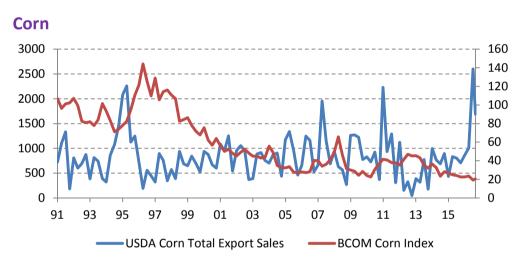


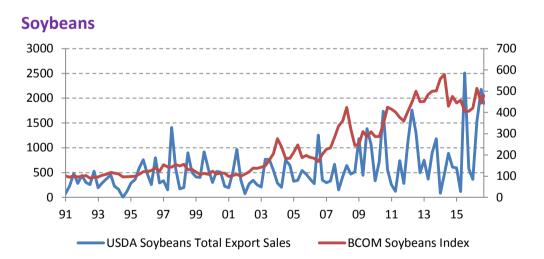


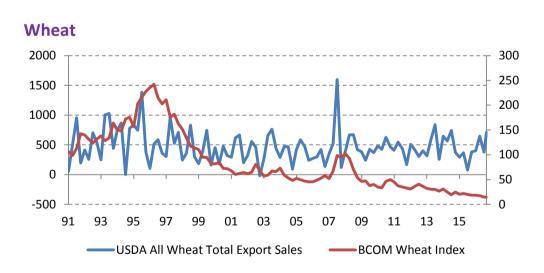


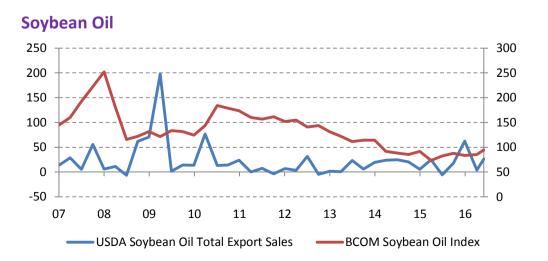


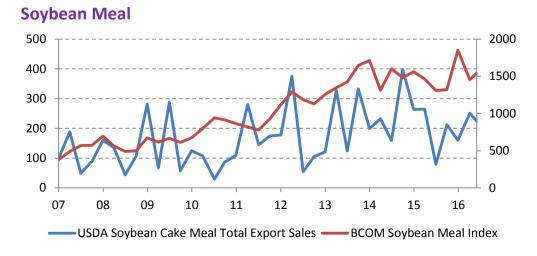


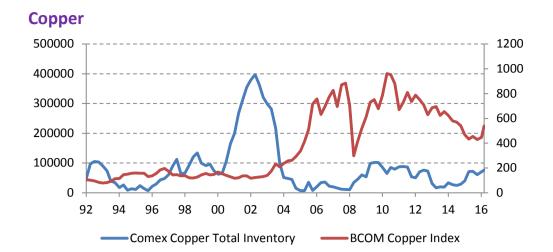


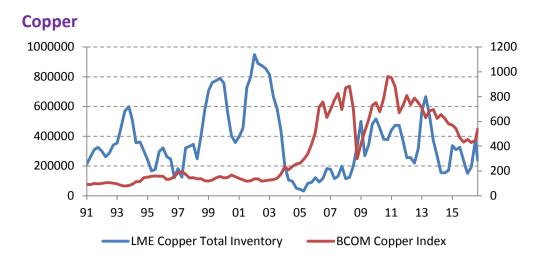




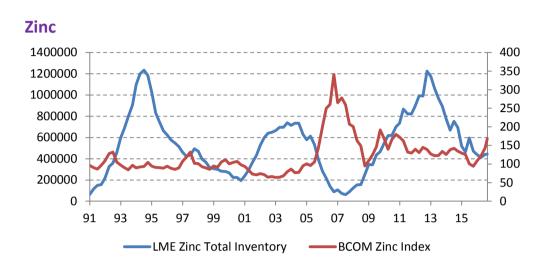


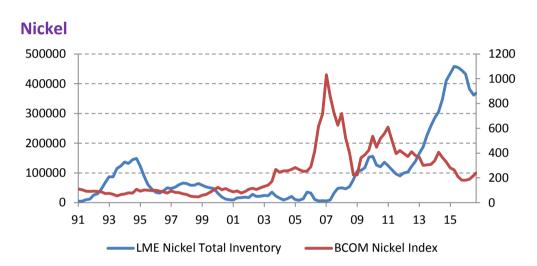






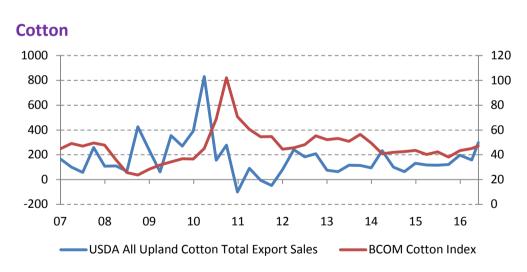


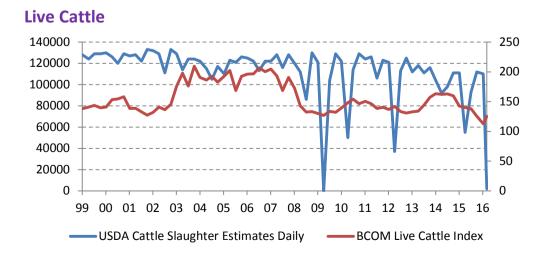


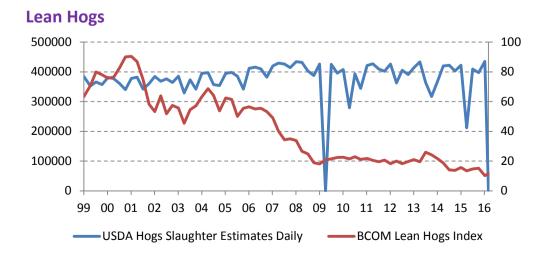












COMMODITY FUND FLOWS FOR US-LISTED ETPS

XLTP XETFM <GO>

Report Period: 31 Oct 2016 - 30 Nov 2016

Sector	Net Flows (\$m)	Beginning Fund Market Cap (\$m)	% of Funds Market Cap
Broad Based	-125.1	6,684.5	-1.9%
Energy	807.0	8,271.7	9.8%
Agriculture	-93.1	1,565.0	-5.9%
Livestock	3.8	28.2	13.5%
Industrial Metals	29.0	336.8	8.6%
Precious Metals	-3,705.7	59,104.5	-6.3%
Commodity	-3,084.1	75,990.8	-4.1%

Top 10 Creations

^{*} Click hyperlinks to open in Bloomberg

Name	Ticker	Net Flows (\$m)	Beginning Fund Market Cap (\$m)	% of Funds Market Cap
United States Oil Fund LP	USO US	600.7	2,882.1	20.8%
VelocityShares 3x Long Crude ETN	<u>UWTI US</u>	208.4	1,110.0	18.8%
ProShares Ultra Bloomberg Crude Oil	UCO US	175.5	762.7	23.0%
PowerShares Optimum Yield Dive	PDBC US	72.8	381.3	19.1%
United States Natural Gas Fund LP	UNG US	67.4	570.2	11.8%
VelocityShares 3x Long Natural Gas ETN	UGAZ US	45.7	334.4	13.7%
PowerShares DB Base Metals Fund	DBB US	27.2	236.2	11.5%
PowerShares DB Oil Fund	DBO US	18.5	411.4	4.5%
VelocityShares 3x Inverse Natural Gas ETN	DGAZ US	15.0	80.6	18.6%
iPath Bloomberg Copper Subindex Total Return ETN	JJC US	9.0	41.9	21.4%

Top 10 Redemptions

Name	Ticker	Net Flows (\$m)	Beginning Fund Market Cap (\$m)	% of Funds Market Cap
SPDR Gold Shares	GLD US	-2,215.5	38,740.3	-5.7%
iShares Gold Trust	IAU US	-1,113.8	9,498.1	-11.7%
iShares Silver Trust	SLV US	-246.3	6,447.8	-3.8%
VelocityShares 3x Inverse Crude ETN	<u>DWTI US</u>	-219.2	393.2	-55.7%
iShares Commodities Select Strategy ETF	COMT US	-144.6	321.4	-45.0%
ProShares UltraShort Bloomberg Crude Oil	SCO US	-88.1	227.9	-38.6%
PowerShares DB Precious Metals Fund	DBP US	-53.3	234.1	-22.8%
First Trust Global Tactical Commodity Strategy Fund	FTGC US	-51.8	225.1	-23.0%
PowerShares DB Agriculture Fund	DBA US	-28.6	788.0	-3.6%
PowerShares DB Energy Fund	DBE US	-26.4	200.6	-13.2%

COMMODITY FUTURES TERM STRUCTURE

ENERGY GROUP

DEC 16

MAR 17

SEP 17

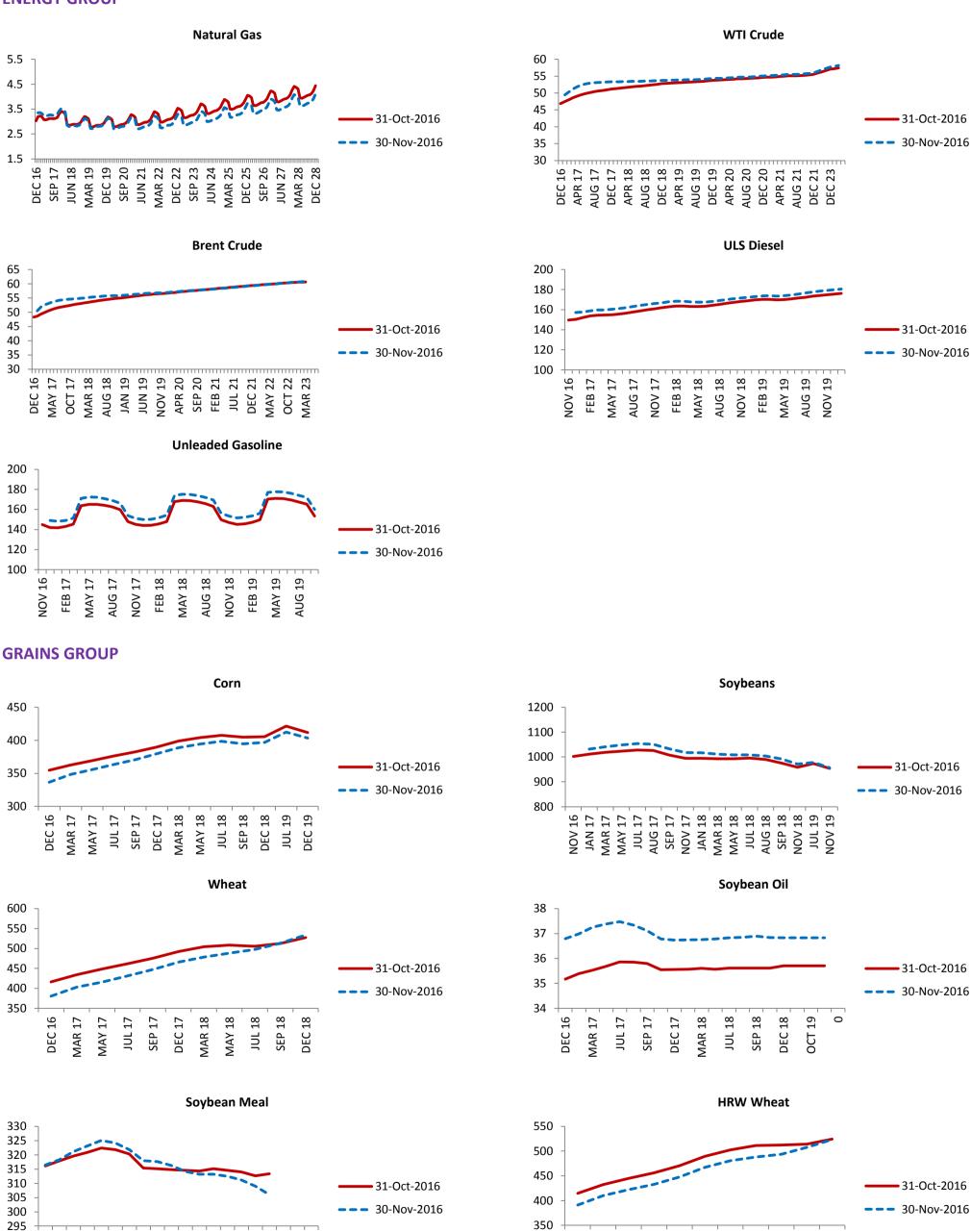
JUL 17

DEC 17

MAR 18

JUL 18

SEP 18



MAR 18 MAY 18

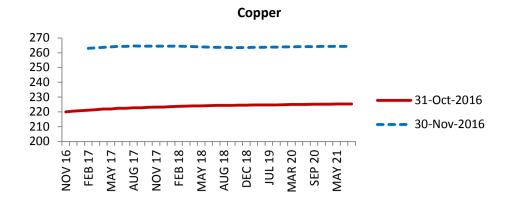
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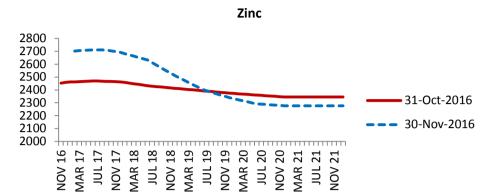
JUL 17

MAR 17 MAY 17 **SEP 18**

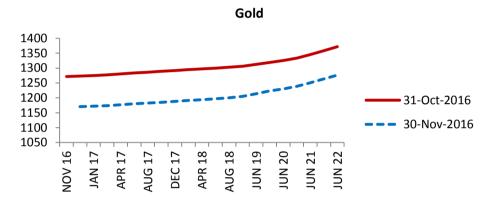
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INDUSTRIAL METALS GROUP

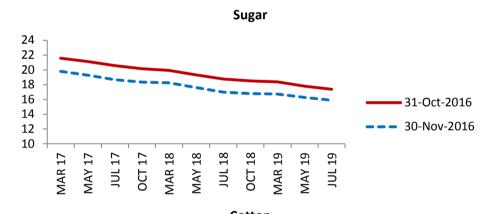


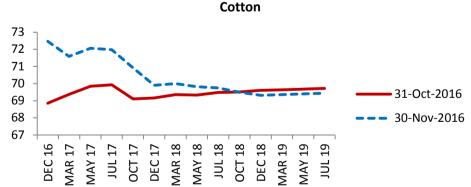


PRECIOUS METALS GROUP

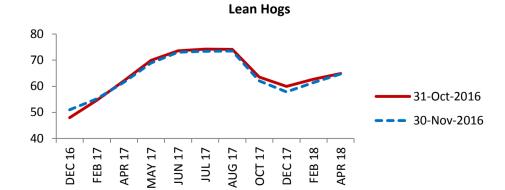


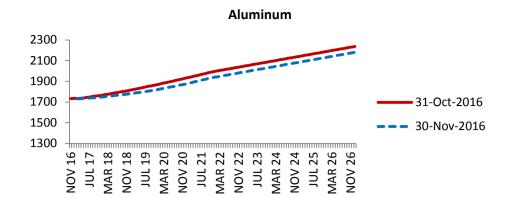
SOFTS GROUP

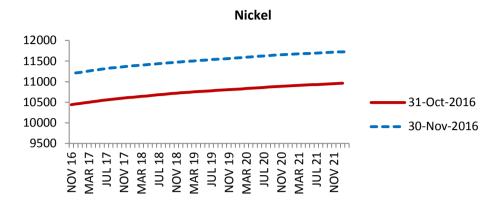


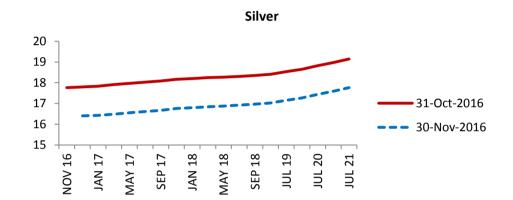


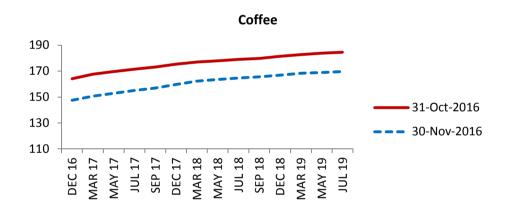
LIVESTOCK GROUP

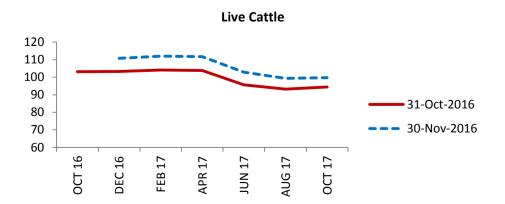












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Precious Metal Mining: BI PMET <GO>



Agricultural Chemicals: BI AGCH <GO>



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US exchange traded product fund flows	ETF

Commodity Indices

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Base metals dashboard	BI BMET
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Metals Bulletin	MB
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Agriculture spot prices	<u>AGGP</u>
Agriculture supply & demand	AGSD
Crop calendar	CCAL

BCOM QUICK FACTS Index Methodology

Weighting Bias	2/3 market liquidity and 1/3 world production
No. of Commodities	20
Re-balancing Frequency	Annual
Roll Schedule	Monthly (5 day roll)
Caps/Limits	Single commodity: max 15%
	Single commodity and its derivatives: max 25%
	Related commodity groups: max 33%
First Value Date	30 December 1990

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