Commodity Monthly Monitor

G-20 sets tone for further upside

22 Oct - 23 Nov 2018



Summary

Commodity prices decidedly fell last month. The commodity rally from 21 Sept to 22 Oct 2018 was short-lived. The short-covering that was driving the rally in precious metals and softs in during that period (21 Sept to 22 Oct 2018) fizzled out. Meanwhile oil prices tumbled in an eerily similar fashion to 2014.

However, as this document goes out to print, commodities are rallying. The upside corrections come after the G-20 summit that concluded this past weekend. The US softened its stance on trade with China, offering a 90-day truce on higher tariffs that were supposed to come into effect on US\$200bn of imports into the US. China also said it will reduce tariffs on US cars and will commit to importing an undisclosed amount of US agriculture, industrial and energy products. Russia and Saudi Arabia agreed to continue their cooperation on managing oil supply through 2019, which we believe will be a precursor to the Organization for the Petroleum Producing Countries (OPEC) coming together to cut supply at its meeting later this week. Qatar's exit from the OPEC group in January (announced this past weekend) is likely to have little impact if Saudi Arabia (largest OPEC member) and Russia (largest OPEC partner) push for supply cuts. The Canadian province of Alberta has also announced it will cut oil production in an unorthodox move for a non-OPEC associated country, which will also counter any negative effects of Qatar's exit.

While the US Dollar has appreciated most of the past month, the currency began to depreciate in response to a somewhat dovish tone from the Federal Reserve Chairman, Jerome Powell. Likewise, US Treasuries were yielding more than 3.2% earlier in the month but are now down to 3.0% (as on 29 Nov 2018). So, factors that appeared to have a negative weight on gold are now easing. Indeed, if Powell is bowing to criticism from President Trump, we could see the central bank allow the economy to run a little hot and generate upside surprises in inflation. That is likely to benefit gold prices. There are a plethora of risks that seemed to be ignored by gold futures markets and we believe that an upside correction is due. A key event in the European calendar is the Parliamentary vote on the Brexit proposal on December 11th. Investors should recall when the UK first voted to leave the EU, speculative positioning in gold futures hit an all-time high.

- Raised uncertainty across agricultural commodities ahead of the G-20 summit. As we approached the
 G-20 summit, net speculative positioning across agricultural commodities (except for wheat and
 coffee) turned bearish owing to rising uncertainty around trade negotiations between US and China.
 The sharp slump in crude oil prices have also dampened sentiment across key agricultural commodities
 used in ethanol production such as corn and sugar.
- Tighter fundamentals to support industrial metals higher. While industrial metals came under pressure
 last month due to the ongoing trade wars, we believe prices are ripe for a correction as stronger
 fundamentals are likely to eventually dominate investor sentiment.
- Natural gas and oil diverged significantly last month. Natural gas gained 34% while oil fell more than 23%. We believe both are likely to be transitory. Natural gas rose only because of a cold snap in the US. That will pass. Oil fell as US inventories have risen 9%. We believe OPEC will act later this week to stem production and hence the price slide.
- The short-covering rally in gold and silver has ended prematurely and shorts are being built up again. That remains baffling given the plethora of risks that should be supporting the two defensive assets. We believe that a covering rally will resume as the futures market acknowledges the risks that ETP investors and centrals banks have been expressing through their purchases.

Nitesh Shah

Director

Aneeka GuptaAssociate Director

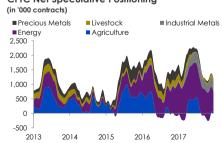
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	Current Price ²	Returns (-1 Mth)	Price vs 200 days MA	Inventories ³ (- 3 Mths)	Positioning⁴ (- 1 Mth)	Roll Yield ⁵	23 Nov Score	22 C Scc
WTI Oil	50	-24.1%	-24.9%	10.3%	-15%	-0.3%	(4)	(3
Brent Oil	59	-23.1%	-20.6%	-5.7%	-61%	-0.4%	(2)	0
Natural Gas	4.3	34.1%	45.4%	25.4%	275%	-1.1%	0	0
Gasoline	1.4	-24.3%	-30.5%	-4.2%	-17%	1.1%	0	(2
Heating Oil	1.9	-16.6%	-12.5%	26.9%	-77%	0.3%	(2)	(
Carbon	20.2	5.1%	23.6%	-	-	-0.5%	0	(2
Wheat	5.0	-1.8%	-0.5%	3.0%	-57%	-1.5%	(4)	(1
Corn	3.6	-3.0%	-2.8%	97.8%	-45%	-3.1%	(4)	(
Soybeans	9	2.7%	-5.1%	5.8%	-45%	-1.5%	(3)	(1
Sugar	0.1	-9.7%	4.5%	7.5%	-63%	-0.9%	(3)	ì
Cotton	0.7	-5.2%	-10.1%	-5.8%	-18%	-3.0%	(2)	(1
Coffee	1.1	-11.5%	-4.6%	-	32%	-3.4%	(1)	ì
Soybean Oil	0.3	-3.9%	-6.7%	6.7%	-1483%	-0.7%	(4)	(1
Cocoa	2,061	-5.8%	-13.3%	-	83%	-2.9%	(1)	(3
Aluminium	1,951	-2.3%	-8.0%	-8.9%	-11%	0.7%	0	C
Copper (COMEX)	2.8	0.3%	-4.9%	-27.3%	38%	-0.7%	1	C
Copper (LME)	6,227	0.5%	-4.2%	-47.7%	-6%	0.1%	1	C
Zinc	2,570	-5.4%	-10.2%	-43.8%	-10%	1.1%	0	3
Nickel	10,864	-11.8%	-19.1%	-12.1%	-30%	-0.2%	(2)	C
Lead	1,956	-2.7%	-11.9%	-18.9%	6%	-0.5%	0	(2
Γin	18,835	-2.7%	-6.3%	30.9%	18%	0.1%	0	3
Gold	1,223	-0.8%	-3.0%	-	-84%	-	(4)	2
Silver	14	-3.7%	-8.7%	-	-100%	-	(4)	2
Platinum	845	1.5%	-3.0%	-	79%	-	2	C
Palladium	1,115	-0.7%	12.2%	-	5%	-	2	4
ive Cattle	1.2	3.8%	4.3%	-	-14%	-3.2%	(1)	(1
Lean Hogs	0.6	8.3%	-8.9%	-	55%	-12.9%	0	(1
Feeder Cattle	1.5	-3.7%	1.6%	_	-159%	2.4%	0	(3

Performance ²	- 1 Mth	- 6 Mth	- 12 Mth		
All Commodities	-4.1%	-10.1%	-4.6%		
Energy	-7.4%	-7.8%	7.5%		
Industrial Metals	-3.4%	-14.2%	-11.1%		
Precious Metals	-1.5%	-7.2%	-8.7%		
Agriculture	-3.7%	-15.0%	-11.8%		
MSCI World	-2.3%	-7.0%	-3.4%		
US Aggregate Bond	0.4%	0.5%	-1.9%		
Bloomberg TR Indexes for basket returns, data to Friday 23 November 2018. Source: WisdomTree, Bloomberg					

CFTC Net Speculative Positioning



"." Information not available. Green = returns positive, inventories falling, positioning rising, roll yield positive. Red = the opposite. Black = neutral. ¹ Detailed explanation of the matrix calculations can be found at the end of this report. ² All prices are futures prices to July 20, 2018. Broad sector returns based on Bloomberg Commodily Index family. ³ % change in inventory over the past 3 months except for sugar and coffee which are based on past 6 months as data is updated bi-annually by USDA. ⁴ CFIC futures and LME COTR net positioning as at November 20, 2018 and November 23, 2018 respectively, % change from previous month. ⁵ Calculated as % difference between front month and second month futures prices on report date.

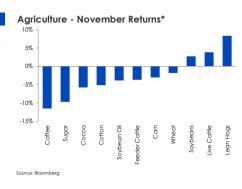
Historical performance is not an indication of future performance and any investments may go down in value.

Sector Overview



Aariculture

- Upward revisions to Chinese corn stocks over the past 10 years was the highlight of the United States Department of Agriculture (USDA) November World Agricultural Supply and Demand Estimate (WASDE) report. According to revised figures from the National Bureau of Statistics, Chinese corn supplies have been underreported by 149mn tons since 2007. The 2017 corn crop is now quoted at 259mn tons, 20% higher than the previous figure. As a result, USDA increased its projected 2018/19 Chinese corn ending stocks to 207mn, with the global corn stocks in 2018/19 nearly doubling versus its previous October estimate to 307mn tons, USDA's assessment situation of corn supply outside of China remains unchanged. China is now less likely to become an importer of corn over the next year unless demand increases significantly.
- The short covering rally in coffee and sugar futures lost momentum last month as prices declined 11.5% and 9.7% respectively. The sharp decline in crude oil prices over the prior month weighed on sugar prices as less sugarcane would be needed to produce ethanol. On the contrary, we expect oil prices to recover from current levels and ethanol to remain a competitive alternative source of energy. In addition, the outlook on the sugar market has improved considerably evident from the latest estimates from USDA and the International Sugar Organisation (ISO). Both agencies have lowered their forecasts of sugar production in 2018/19. India, Thailand and the EU are likely to produce less sugar.



Industrial Metals

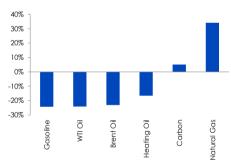
- Copper was the only exception in the industrial metals complex to end the period with a positive
 performance. The International Copper Study Group (ICSG) confirmed an unexpectedly higher deficit
 on the global copper market to the tune of 259,000 tons in the first 8 months of this year, owing to higher
 demand from China. In addition, concerns about supply disruptions owing to strikes and maintenance
 work—at the Spence copper mine in Chile, Codelco in Chile and Tuticorin copper smelter in India, is
 lending buoyancy to copper prices.
- Nickel prices declined below US\$11,000 per ton for the first time since December 2017. Concerns that more supply will be available next year are being reflected in the price decline. In addition, macro trade fears have risen, and electric vehicle exuberance has subsided. Following a 2-year environmental audit period for Philippines mines, the Department of Environment and Natural Resources confirmed that nine of the twelve mines that were shut over a year ago will be allowed to resume operations provided they resolve their shortcomings. If the mines in the world's second largest nickel producer, do re-open, it would allow the supply situation for nickel to stabilise. While International Nickel Study Group (INSG) has raised the prospect of an 8.4% production growth next year, the nickel market will continue to show a supply deficit of 33,000 tons next year. We remain of the view that investors are discounting the incremental demand opportunity from battery technology used in electric vehicles. We also believe the sharp decline in availability of nickel stocks should lend a tailwind to prices.



Energy

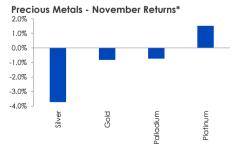
- Last month we saw the worst decline in oil prices since 2014. However, the events over the past weekend should plant the seeds for the Organization for the Petroleum Producing Countries (OPEC) to collaborate with their external partners to cut production at their meeting later this week. The G-20 meeting over the weekend provided fertile ground for fire-side discussion among policy makers from topics ranging from international trade (US President Trump and Chinese President Xi) to oil market policies (Saudi Arabian Energy Minister, Khalid A. Al-Falih and Russian Energy Minister, Alexander Novak). In the past meeting between Al-Falih and Novak have foreshadowed deals within OPEC and as we argued in our recent blog post OPEC: Déjà vu No thank you! it is in both countries' interest to see higher oil prices.
- A continued glut in US oil, underscored by inventories surprising to the upside in every week in the past
 month, has led to the WTI benchmark widening against the Brent benchmark. At over an \$8 spread we
 are a long way from the \$4 average spread we became accustomed to in July 2018. We expect
 international crude markets to remain tighter than the US until the US builds out the necessary
 infrastructure to export at higher volumes. Until we se the infrastructure, we expect Brent to continue to
 trade at a premium to WTI.
- Natural gas was the star performer in the commodity space in the past month, rallying 34% following a
 cold snap in the US. Approximately half of US natural gas is used for heating purposes. Inventories for
 the commodity are more than 1 standard deviation below the 5-year average, highlighting the
 tightness in the market.





Precious Metal:

- The short-covering rally that assisted gold prices in the prior month fizzled out and gold shorts are being re-built. Gold's failure to acknowledge a plethora of risks is baffling. Over the period that our data covered, there was very little certainty about the events that would take place over the past weekend at the G-20 meeting, Saudi Arabia's Crown Prince risked becoming ostracized by the international community, sanctions were re-imposed on Iran (which could have led to a retaliation by the nuclear nation), Russia exerted aggression towards Ukraine, Italy insisted on sticking to its budget that has been rejected by the European Commission. Gold futures market speculative positioning and price seem to have ignored all of these risks. A key event in the European calendar is the Parliamentary vote on the Brexit proposal on December 11th. Investors should recall when the UK first voted to leave the EU, speculative positioning in gold futures hit an all-time high. Central banks and exchange traded product (ETP) investors on the other hand have been buying gold. In October there were close to U\$\$100mn (16.6 tonnes) of inflows into gold ETPs according to World Gold Council data. The central banks of Hungary and Russia added substantially to their gold reserves in the month of October. We believe it is only a matter of time before the futures market sees what others are expressing through their purchases. Another short-covering rally could drive gold prices higher.
- Silver followed gold prices lower. In its usual demeanour, it moved further in the same direction. Shorts
 are also rising in silver. The gold to silver ratio is close to a 10-year high, indicating that silver is relatively
 cheap today. We believe a short-covering rally will also benefit silver. Any respite in trade protectionism
 could also help silver alongside industrial metals as the market has punished the complex due to their
 fears of demand destruction from higher prices.
- With European car sales having been front-loaded in the summer as consumers tried to avoid the
 introduction of new emission tests, we expect car sales to remain slow, potentially dampening demand
 for the platinum group metals.



Source: Bloomberg

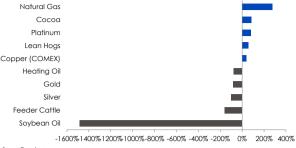
Technical Overview (as of Nov 23, 2018)



Positionina

- Net speculative positioning in cocoa increased 85.8% as short positions in cocoa were trimmed by 29% over the prior month. Despite all the concerns of higher supply from two of the world's largest producers in Ivory coast and Ghana, investors turned less bearish on the outlook for cocoa.
- Soybean oil saw the largest bearish positioning move. Net short positioning rose to 35,789 contracts over the prior month, more than 1-standard deviation below its 5year average. Rising uncertainty ahead of the G-20 summit coupled with the slump in crude oil prices weighed on sentiment. Not only has USDA lowered its forecast for Chinese soybean imports in 2018/19, it has raised its estimate of global oilseed stocks by 2.4mn tons mainly on higher stocks of soybeans.
- Speculative positioning in natural gas futures rose as the cold weather snap enticed investors to the asset. That's the first-time positioning has been net long in since May 2017. With inventories remaining more than 1 standard deviation below the 5-year average, the supply of gas remains tight. However, as the cold snap passes, we expect positioning will head back to net short.
- The short-covering rally in gold and silver proved to be transitory. Both gold and silver futures markets are back to net short again. The futures market is contradicting the

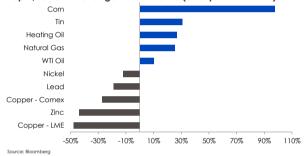
Top 5/Bottom 5 Change in CFTC Net Positions (over past month)¹



ETP market, where there have positive inflows into long gold products.

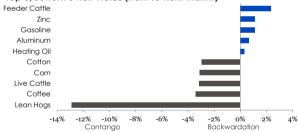
- Corn inventories have shown the most pronounced increase, up 97.8% over the past 3 months. This was largely due to the significant upward revision of Chinese corn crops over the last ten years reported by the National Bureau of Statistics. In accordance with the new figures from China, USDA increased its projected 2018/19 Chinese corn ending stocks to 207mn, with the global corn stocks in 2018/19 nearly doubling versus its previous October estimate to 307mn tons.
- The trend of declining inventory levels remains in place across most of the industrial metals. Only tin inventory levels rose over the past month. Backwardation in the London Metals Exchange (LME) copper curve continues to drive an inventory drawdown to a greater extent than COMEX copper which is now in contango.
- Natural gas inventories rose by 9.4%, due to seasonal injections, but that still left inventories at more than 1 standard deviation below the 5-year average. Supplies are tight and are likely have gotten tighter after the cold snap.

Top 5/Bottom 5 Change in Inventories (over past 3 months)²



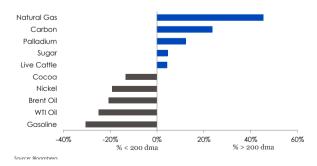
- All agricultural commodities, except for feeder cattle are in contango. Negative roll yields run as high as 3.4% for coffee and 3.1% for corn.
- The front end of the zinc futures curve is now in steep backwardation with a roll yield of 1.1% signifying tight supply. The deficit on the zinc market was revised significantly upwards last month by the International Lead and Zinc Study Group (ILZSG) and a renewed deficit is expected next year which should keep prices higher.
- Gasoline is the only energy commodity currently sporting front month backwardation (with a positive roll yield of 1.1%). That is in line with seasonal trends. As the season has progresses, we are likely to go back to contango markets by next month. The backwardation in Brent and WTI oil gave way to contango over a month ago and now provide more than a 0.3% roll yield drag. While front month natural gas is in contango, between month 3 and month 5 there is very steep backwardation owing to the sudden price surge in near month contracts.

Top 5/Bottom 5 Roll Yields (front to next month)3



- Sugar is trading 4.5% above its 200-daily moving average (dma), we expect prices to recover as supply on the global sugar market is expected to tighten next year.
- Cocoa prices are trading 13.3% below their 200-dma. While short positions in cocoa futures have been unwound over the past month, cocoa prices are likely to remain under pressure owing to higher supply from the world's largest cocoa producers.
- Nickel is trading 19.1% below its 200-dma. Sentiment has turned bearish over fears of higher supply from the Philippines. We believe investors are discounting the impact of higher demand from battery technology used in electric vehicles and prices
- The energy sector dominated both the top and bottom of the chart to our right. At the top, natural gas and carbon are trading 45% and 24% above their respective 200 day moving averages. The surge in natural gas prices was due to weather and likely to be transitory. At the bottom of the chart are gasoline, Brent and WTI oil trading 31%, 25%, 21% below their respective 200 day moving averages
- Although palladium prices pared back last month, they are still trading 12% above its 200 day-moving average and 3% above its 50 day-moving average.

Top 5/Bottom 5 Price Diff to 200 day moving av. (dma)⁴



CFIC futures net positioning as at report date, percent change from previous month. ² Percent change in inventory based on 3 month change (in %) Roll yields calculated as percent change between front month futures price and next month futures price on Nov 23, 2018.

Percent difference between the front month futures price and its 200 day moving average on Nov 23, 2018.

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Summary Tables



PRICES ¹	Current	Unit	1 Month	3 Month	6 Month	1 Year	ROLL YIELDS ²	Unit	Exchange	23-Nov	1 Week	1 Month	3 Mont
Energy							Energy						
WTI Oil	50	USD/bbl.	-24.1%	-25.7%	-29.8%	-13.1%	WTI Oil	USD/bbl.	NYMEX	-0.3%	-0.4%	-0.3%	0.4%
Brent Oil	59	USD/bbl.	-23.1%	-21.3%	-26.3%	-7.5%	Brent Oil	USD/bbl.	ICE	-0.4%	-0.4%	0.4%	-0.5%
Natural Gas	4.3	USD/MMBtu		45.3%	47.8%	45.1%		USD/MMBtu	NYMEX	-1.1%	-0.4%	-2.2%	0.4%
Gasoline	1.4	USd/gal.	-24.3%	-32.4%	-38.4%	-21.3%	Gasoline	USd/gal.	NYMEX	1.1%	0.6%	0.1%	5.3%
Heating Oil	1.9	USd/gal.	-16.6%	-13.8%	-18.1%	-2.9%		USd/gal.	NYMEX	0.3%	0.3%	-0.1%	-0.2%
Carbon	20.2	EUR/MT	5.1%	-0.7%	26.5%	163.8%	Carbon	EUR/MT	ICE	-0.5%	-0.6%	-0.7%	-0.1%
Agriculture Wheat	5.0	USd/bu.	-1.8%	-4.3%	-5.9%	18.2%	Agriculture Wheat	USd/bu.	CBOT	-1.5%	-1.6%	-3.8%	-3.6%
Corn	3.6	USd/bu.	-3.0%	3.5%	-3.7% -12.1%	4.0%	Corn	USd/bu.	CBOT	-3.1%	-1.6%	-3.2%	-3.9%
Soybeans	3.6 8.8	USd/bu.	-3.0% 2.7%	3.5% 4.6%	-12.1%	-11.7%	Soybeans	USd/bu.	CBOT	-3.1% -1.5%	-2.9% -1.5%	-3.2% -1.5%	-3.9% -1.4%
Sugar	0.0	USd/lb.	-9.7%	23.2%	1.0%	-11.7%	Sugar	USd/lb.	NYBOT	-0.9%	-1.2%	-0.9%	-8.0%
Cotton	0.7	USd/lb.	-7.7 % -5.2%	-8.3%	-13.8%	5.9%	Cotton	USd/lb.	NYBOT	-3.0%	-1.2%	-0.7% -2.1%	0.3%
Coffee	1.1	USd/lb.	-3.2% -11.5%	10.2%	-10.2%	-14.0%	Coffee	USd/lb.	NYBOT	-3.4%	-3.2%	-2.1%	-4.2%
Soybean Oil	0.3	USd/lb.	-3.9%	-1.4%	-10.2%	-14.0%	Soybean Oil		CBOT	-3.4% -0.7%	-3.2% -0.7%	-3.0% -0.8%	-4.2% -0.5%
Cocoa	2,061	USD/MT	-5.8%	-12.3%	-12.8%	-16.6%	Cocoa	USD/MT	NYBOT	-0.7%	-0.7 %	-0.6%	0.5%
Industrial Metals	2,061	U3D/MI	-3.0%	-12.3/0	-21.3/0	-Z./ /o	Industrial Me	-	NIBOI	-Z.7/o	-1.0/0	-1.0/6	0.5%
Aluminum	1,951	USD/MT	-2.3%	-5.4%	-14.3%	-7.1%	Aluminum	USD/MT	LME	0.7%	-0.8%	-0.6%	-0.4%
Copper	2.8	USd/lb.	-2.3% 0.3%	-3.4% 4.2%	-14.3% -9.6%	-7.1% -11.8%	Copper	USd/lb.	COMEX	-0.7%	-0.6% -0.4%	-0.8% -0.8%	-0.4%
Copper (LME)	6,227	USD/MT	0.5%	4.2%	-9.1%	-10.3%	Copper (LME		LME	0.1%	0.1%	0.0%	-0.1%
Zinc	2,570	USD/MT	-5.4%	3.5%	-15.3%	-21.2%	Zinc	USD/MT	LME	1.1%	1.8%	1.0%	0.2%
Nickel	10,864	USD/MT	-11.8%	-17.8%	-25.6%	-8.6%	Nickel	USD/MT	LME	-0.2%	-0.2%	-0.2%	-0.2%
Lead	1,956	USD/MT	-2.7%	-4.7%	-21.1%	-20.3%	Lead	USD/MT	LME	-0.5%	-0.6%	-0.2%	-0.2%
Tin	18,835	USD/MT	-2.7 <i>%</i> -2.7%	-4.7 % -1.7%	-21.1 <i>%</i> -8.9%	-3.4%	Tin	USD/MT	LME	0.1%	-0.8%	0.1%	0.2%
Precious Metals	10,000	03D/WII	-2.7 /0	-1.7 /6	-0.7/6	-3.4/0	Precious Met		LIVIL	0.176	-0.176	0.176	0.2/6
Gold	1,223	USD/t oz.	-0.8%	3.0%	-5.1%	-5.3%	Gold	USD/t oz.	COMEX	-0.5%	-0.5%	-0.3%	-0.2%
Silver	14.2	USD/t oz.	-3.7%	-2.1%	-12.8%	-16.8%	Silver	USD/t oz.	COMEX	-0.9%	-0.9%	-0.8%	-0.7%
Platinum	845	USD/t oz.	1.5%	8.6%	-6.2%	-10.2%	Platinum	USD/† oz.	NYMEX	-0.5%	-0.5%	-0.4%	-0.4%
Palladium	1,115	USD/t oz.	-0.7%	22.3%	14.8%	11.2%	Palladium	USD/t oz.	NYMEX	0.3%	0.5%	0.8%	1.1%
Livestock	1,110	000/1 02.	0.7 70	22.070	14.070	11.270	Livestock	000/1 02.	TTTWEX	0.070	0.070	0.070	1.170
Live Cattle	1.2	USd/lb.	3.8%	8.5%	11.0%	-1.6%	Live Cattle	USd/lb.	CME	-3.2%	-3.7%	-3.7%	-0.7%
Lean Hogs	0.6	USd/lb.	8.3%	15.4%	-20.8%	-6.0%	Lean Hogs	USd/lb.	CME	-12.9%	-10.0%	-11.2%	0.6%
Feeder Cattle	1.5	USd/lb.	-3.7%	0.2%	10.7%	-2.2%	Feeder Cattl		CME	2.4%	1.8%	-0.5%	-0.1%
FTC NET POSITIONII	NG ³	Current	5 Yr Average	1 Month	6 Month	1 Year	INVENTOR'	Y LEVELS⁴	Current	5 Yr Average	1 Month	3 Month	6 Mont
nergy							Energy						
WTI Oil		411,794	428,588	482,706	680,342	613,976	Oil - US		450,485	7%	7%	10%	3%
Brent Oil**		97,447	170,411	246,947	425,985	430,863	Oil - OECD Eu	ropo**	340	5%	-4%	-6%	0%
Natural Gas		25,925	-119,660	-14,801	-64,455	-79,072	Natural Gas -		3,054	-17%	-4% -1%	25%	87%
Gasoline		77,496					Gasoline - DC			4%	-1%	-4%	
		77,496 8,844	67,910 11,917	93,673 37,935	110,651 43,232	84,140 60,410			224,551 10,921	4% -21%	-2% 2%	-4% 27%	-4% 16%
Heating Oil		0,044	11,717	37,733	43,232	60,410	Heating Oil - I		10,721	-Z1/o	Z/0	27 /0	10/0
griculture		04.150	45.070	15 410	17.007	01.024	Aluminum	ais	1 017 000	4.407	207	007	1007
Wheat		-24,158	-45,068	-15,418	17,996	-81,034		45	1,817,229	-44%	-3%	-9%	-18%
Corn		48,308	82,339	87,295	334,162	-148,288	Aluminum - LA		1,067,000	-62%	1%	-3%	-13%
Soybeans		-48,525	60,057	-33,353	127,823	34,027	Aluminium - SI	HFE	750,229	86%	-9%	-16%	-24%
Sugar		25,316	74,117	67,901	-44,286	34,270	Copper		414,234	-22%	-9%	-32%	-49%
Cotton		46,280	59,957	56,116	121,308	64,229	Copper - LME		139,550	-46%	-8%	-48%	-53%
Coffee		-25,889	-740	-38,341	-37,808	-39,673	Copper - SHFE		133,163	-24%	-5%	-9%	-50%
Soybean Oil		-45,022	33,022	-2,844	-2,912	65,793	Copper - COI	VIEX	141,521	47%	-13%	-27%	-43%
Cocoa		-3,950	31,328	-22,679	59,443	15,844	Nickel - LME		214,188 157,002	-41% -74%	-2% -28%	-12% -44%	-28% -50%
dustrial Metals ⁵ Copper (COMEX)		11,940	2,494	8,648	37,324	40,125	Zinc Zinc - LME		121,550	-7 4 % -74%	-2 6% -26%	- 44 / 6 -51%	-47%
			39,840		49,606	40,123							
Copper (LME) Aluminum		45,346 165,839	158,143	48,070 187,331	49,606 163,062		Zinc - SHFE Lead		35,452 117,470	-77% -46%	-34% -6%	15% -19%	-59% -21%
Nickel		2,611	14,264	3,709	16,022		Lead - LME		108,175	-39% 7097	-5%	-15%	-19%
Zinc		40,807	43,558	45,153	57,847		Lead - SHFE		9,295	-78%	-16%	-49% 219 7	-40%
Load		48,516 8 333	54,025 7.384	45,946 7,035	58,545 7,475		Tin Tin - LME		11,621	19%	15%	31%	16%
Lead		8,333	7,386	7,035	7,675		Tin - LME		2,905 8,716	-50% 121%	-2% 22%	1% 46%	13% 17%
Tin									0,/10	121%	ZZ70	40%	1/%
Tin ecious Metals		A Z 10	132 /00	20 40 4	77 410	205 7 47	A aria di di						
Tin ecious Metals Gold		4,618	133,680	28,404	77,410	205,747	Agriculture		247710	24 007	0 507	2 007	0.00
Tin ecious Metals Gold Silver		-11,291	35,002	-5,651	14,508	66,215	Wheat - USDA	Λ.	266,710	36.2%	2.5%	3.0%	0.9%
Tin ecious Metals Gold Silver Platinum		-11,291 22,973	35,002 26,864	-5,651 12,840	14,508 1,919	66,215 26,979	Wheat - USDA Corn - USDA		307,510	111%	93.0%	97.8%	93.2%
Tin ecious Metals Gold Silver Platinum Palladium		-11,291	35,002	-5,651	14,508	66,215	Wheat - USDA Corn - USDA Soybeans - US		307,510 112,080	111% 84%	93.0% 1.9%	97.8% 5.8%	93.2% 29%
Tin ecious Metals Gold Silver Platinum Palladium vestock		-11,291 22,973 14,268	35,002 26,864 15,510	-5,651 12,840 13,600	14,508 1,919 10,801	66,215 26,979 22,639	Wheat - USDA Corn - USDA Soybeans - US Sugar - USDA	SDA	307,510 112,080 52,850	111% 84% 47%	93.0% 1.9% 7.5%	97.8% 5.8% 7.5%	93.2% 29% 8%
Tin ecious Metals Gold Silver Platinum Palladium vestock Live Cattle		-11,291 22,973 14,268 83,548	35,002 26,864 15,510 87,501	-5,651 12,840 13,600 97,625	14,508 1,919 10,801 19,776	66,215 26,979 22,639 148,895	Wheat - USDA Corn - USDA Soybeans - US Sugar - USDA Cotton - USDA	SDA A	307,510 112,080 52,850 72,610	111% 84% 47% 2%	93.0% 1.9% 7.5% -2.5%	97.8% 5.8% 7.5% -5.8%	93.2% 29% 8% -13.3%
Tin ecious Metals Gold Silver Platinum Palladium vestock		-11,291 22,973 14,268	35,002 26,864 15,510	-5,651 12,840 13,600	14,508 1,919 10,801	66,215 26,979 22,639	Wheat - USDA Corn - USDA Soybeans - US Sugar - USDA	SDA A	307,510 112,080 52,850	111% 84% 47%	93.0% 1.9% 7.5%	97.8% 5.8% 7.5%	93.2% 29%

1Performance of front month futures from 23 Nov 17 (1 Year), 23 May 18 (6 Month), 23 Aug 18 (3 Month) and 23 Oct 18 (1 Month) to 23 Nov 18.
2Roll return non-annualised from front month futures into second "month on 23 Aug 18 (3 Month), 23 Oct 18 (1 Month), 16 Nov 18 (1 Week), 23 Nov 18.

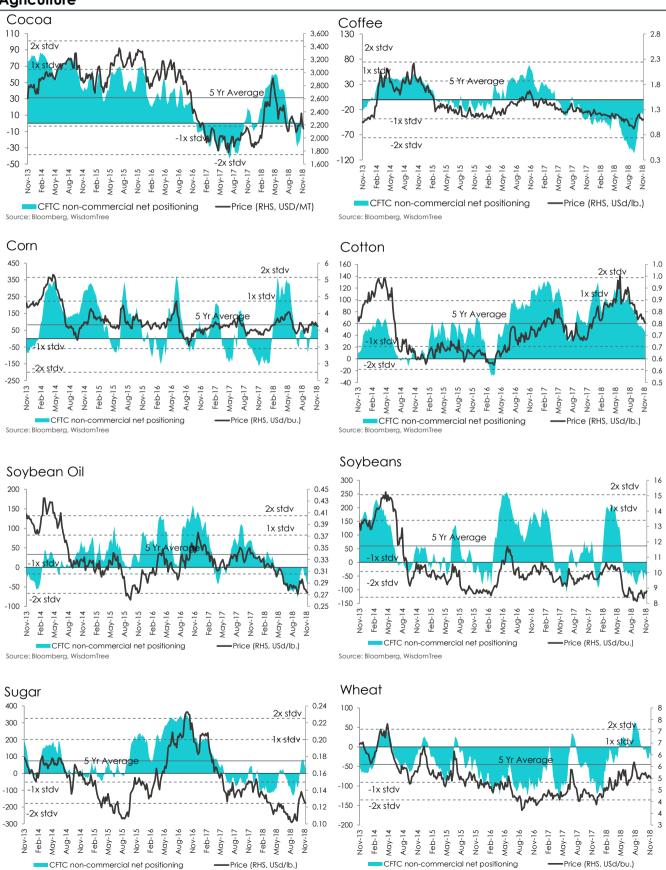
³Net positions in number of contracts. ⁴Current inventories relative to 1, 3, 6 months ago. Under the column "5 yr average" is the current inventory level relative to 5 year average inventory. For energy, 5 yr average is the average of the same month as report month over the past 5 years. SHFE started reporting inventory data from April 2015. SAll Industrial metals positioning data (excluding copper) is sourced from LME COTR data in Bloomberg from 30 January 2018 (first available date) under post-MIFID rules. **Brent 5 Yr average of net positions from January 2011 as positions were not reported by CFTC before then and inventory data (OECD) reported with 3 month lag with current = Aug 2018.

Historical performance is not an indication of future performance and any investments may go down in value.



CFTC Speculative Net Long Futures Positions

Agriculture

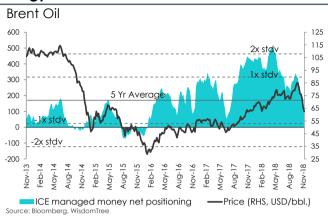


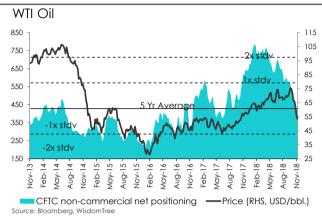
Source: Bloomberg, WisdomTree

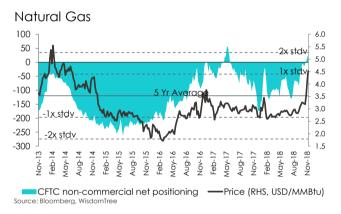
Source: Bloomberg, WisdomTree



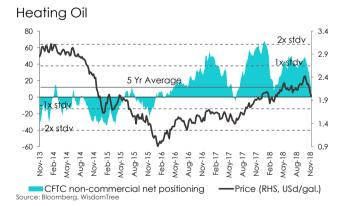
Energy





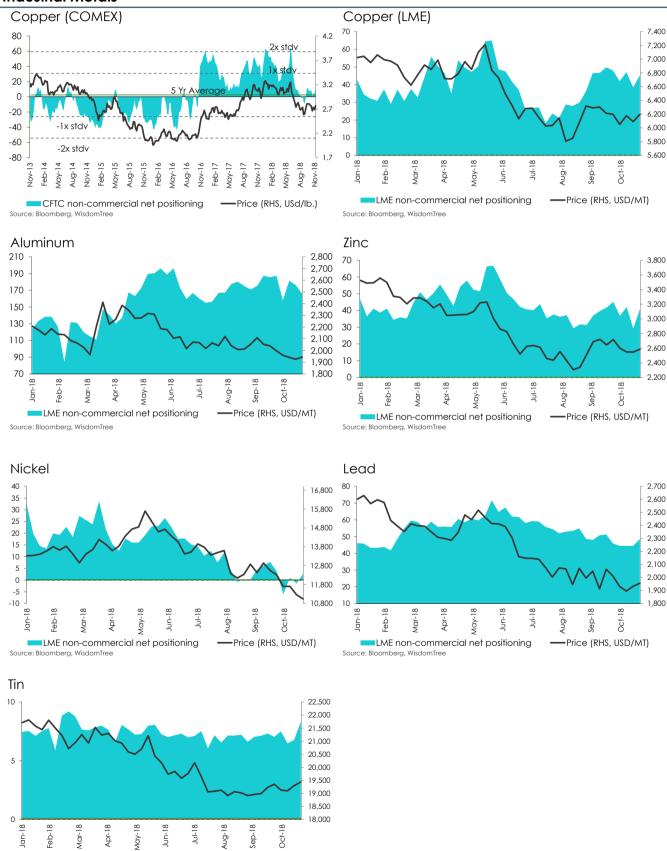








Industrial Metals



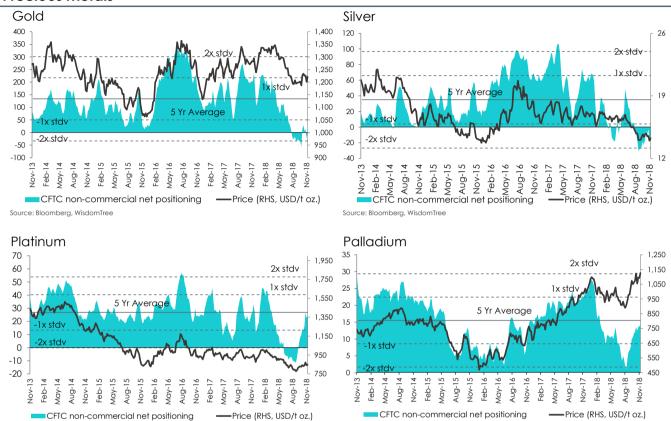
Price (RHS, USD/MT)

LME non-commercial net positioning

Source: Bloomberg, WisdomTree

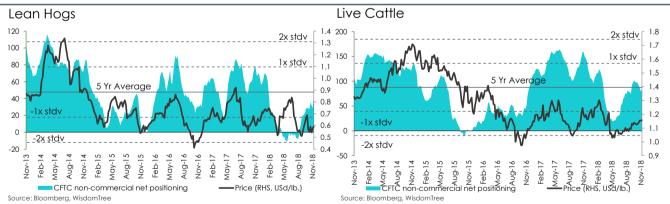


Precious Metals

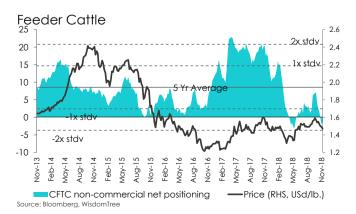


Livestock

Source: Bloomberg, WisdomTree



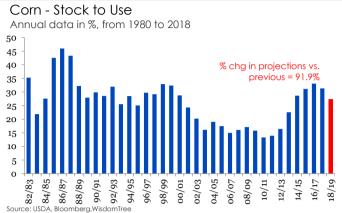
Source: Bloomberg, WisdomTree

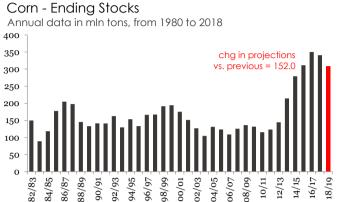


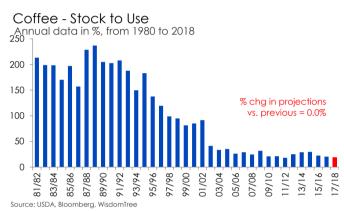


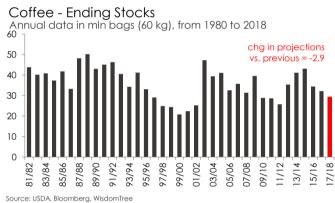
Inventories

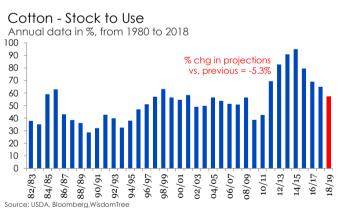
Agriculture

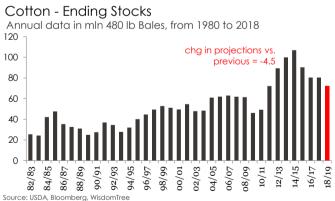


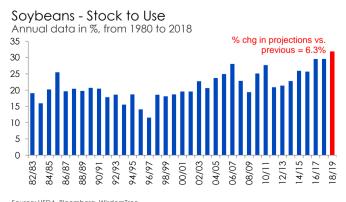


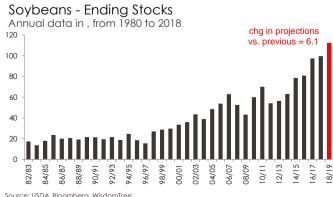








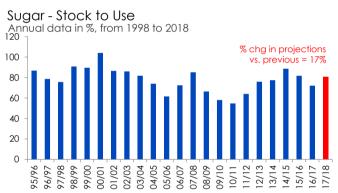


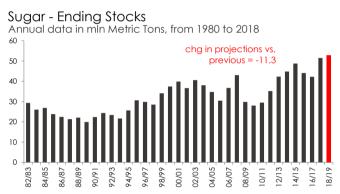


Note: Ending stocks, inventories and stock to use data from the USDA are annual with monthly update of 2017/2018 estimates.



Soybean Oil - Stock to Use Annual data in %, from 1980 to 2018 18 16 % chg in projections vs 14 previous = 7.1%12 10 8 6 4 02/03 12/13 82/83 68/88 26/96 66/86 00/01 10/11

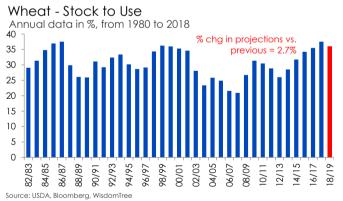


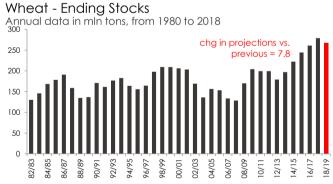






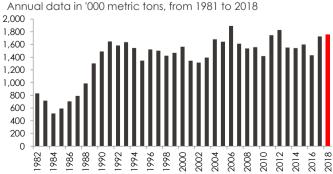
Source: USDA, Bloomberg, WisdomTree





Source: USDA, Bloomberg, WisdomTree

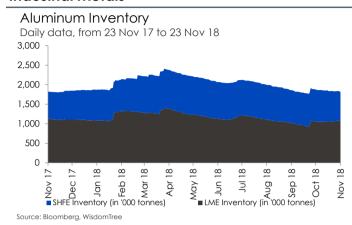
Cocoa - Inventory

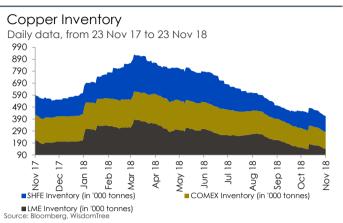


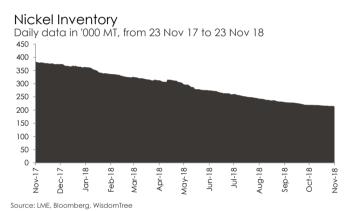
Source: International Cocoa Organisation, Bloomberg, WisdomTree

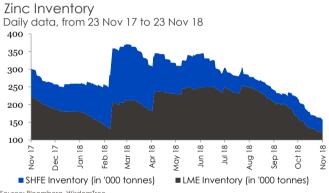


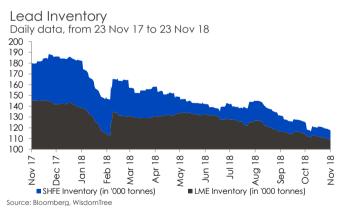
Industrial Metals

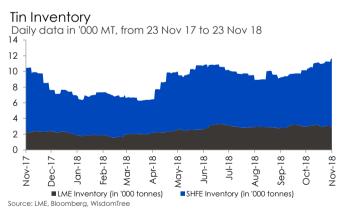




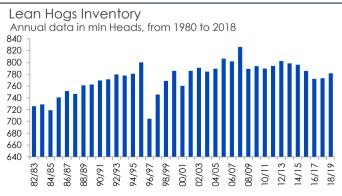


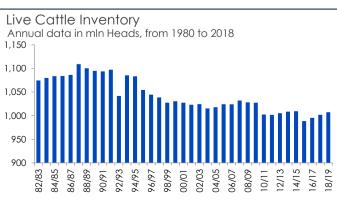






Livestock





Source: USDA, Bloomberg, WisdomTree



Energy

US Oil Inventory Weekly data in mln barrels, from Nov 13 to Nov 18 550 450 400 350 300

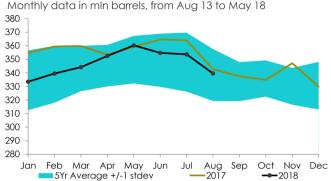
3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51

-2017

-2018

Source: DOE, Bloomberg, WisdomTree

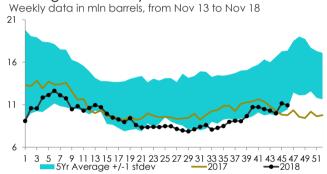
OECD Europe Oil Industry Inventory Monthly data in mln barrels, from Aug 13 to May 18



Source: DOE, Bloomberg, WisdomTree

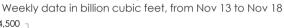
Heating Oil Inventory

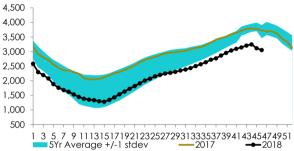
5Yr Average +/-1 stdev



Source: DOE, Bloomberg, WisdomTree

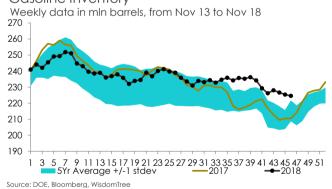
Natural Gas Inventory





Source: DOE, Bloomberg, WisdomTree

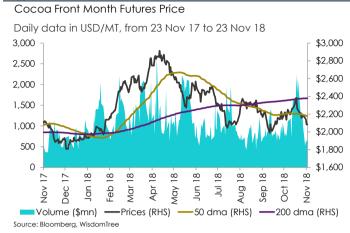
Gasoline Inventory



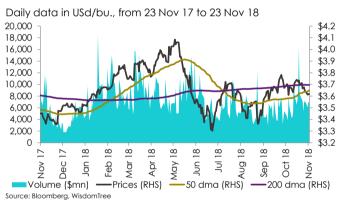


Commodities Front Month Futures and **Trading Volumes**

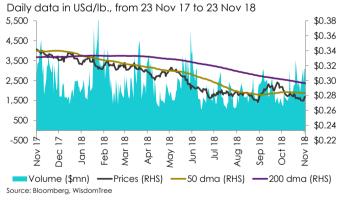
Agriculture



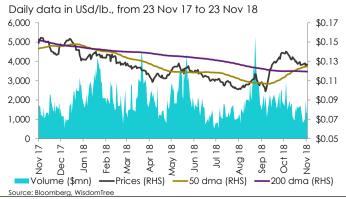
Corn Front Month Futures Price



Soybean Oil Front Month Futures Price



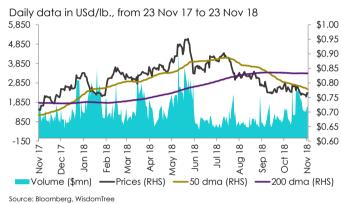
Sugar Front Month Futures Price



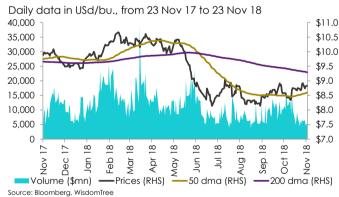
Coffee Front Month Futures Price



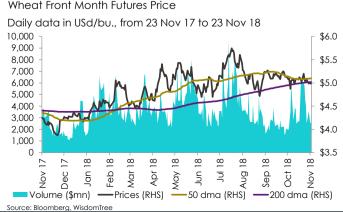
Cotton Front Month Futures Price



Soybeans Front Month Futures Price

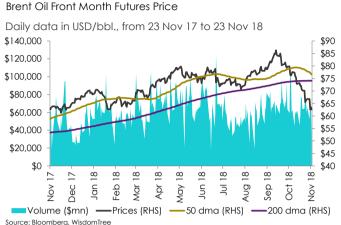


Wheat Front Month Futures Price

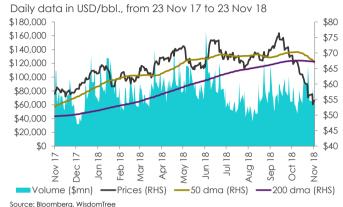




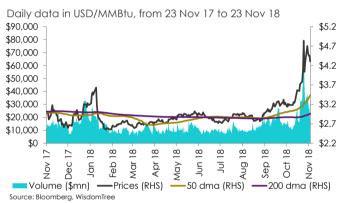
Energy



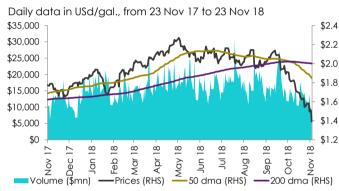
WTI Oil Front Month Futures Price



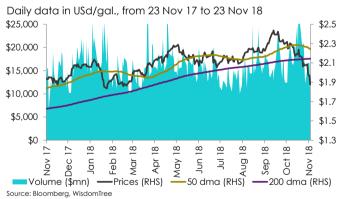
Natural Gas Front Month Futures Price



Gasoline Front Month Futures Price



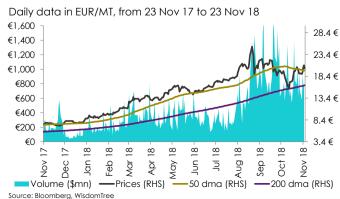
Heating Oil Front Month Futures Price



Source: Bloomberg, WisdomTree

Carbon



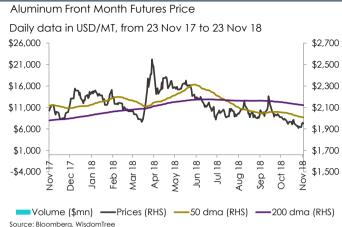


Note: all commodity futures trading volume and price data is denominated in USD unless otherwise indicated

Historical performance is not an indication of future performance and any investments may go down in value.



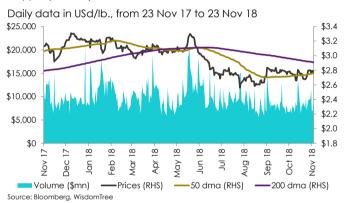
Industrial Metals



Lead Front Month Futures Price



Copper (COMEX) Front Month Futures Price



Copper (LME) Front Month Futures Price



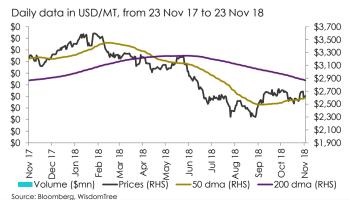
Nickel Front Month Futures Price



Tin Front Month Futures Price

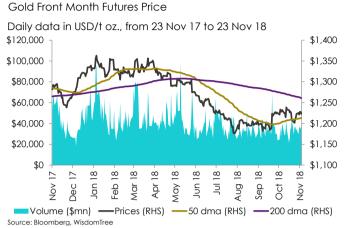


Zinc Front Month Futures Price





Precious Metals



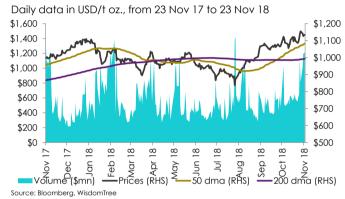
Silver Front Month Futures Price Daily data in USD/t oz., from 23 Nov 17 to 23 Nov 18 \$18,000 \$21 \$16,000 \$20 \$14,000 \$19 \$12,000 \$18 \$10,000 \$17 \$8,000 \$16 \$6,000 \$15 \$4,000 \$14 \$2,000 \$13 \$0 œ œ œ Aug May N ⋽ Sep g Apr Oct Volume (\$mn) Prices (RHS) -50 dma (RHS) -200 dma (RHS)

Platinum Front Month Futures Price

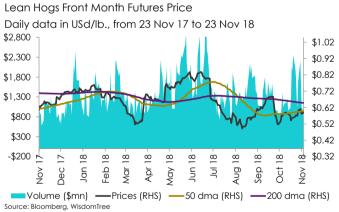


Palladium Front Month Futures Price

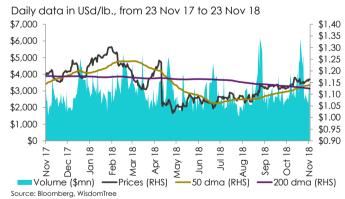
Source: Bloomberg, WisdomTree



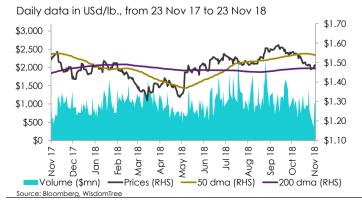
<u>Livestock</u>



Live Cattle Front Month Futures Price



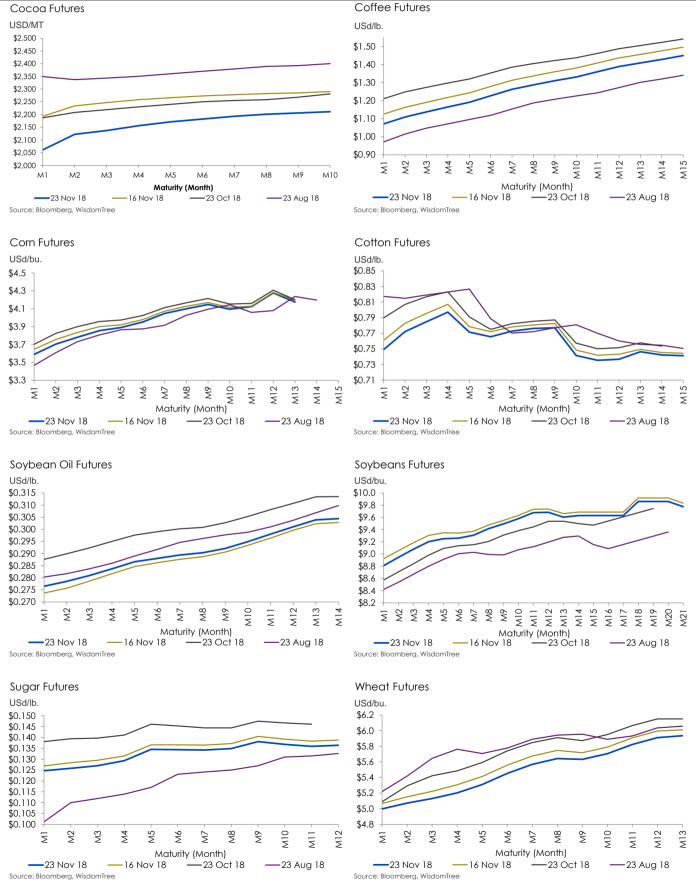
Feeder Cattle Front Month Futures Price





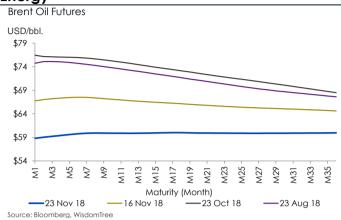
Futures Curves

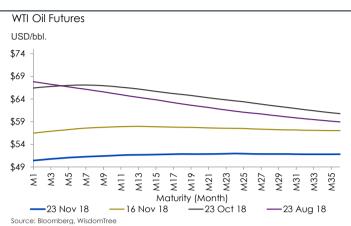




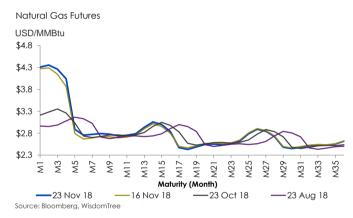


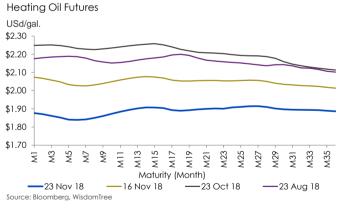




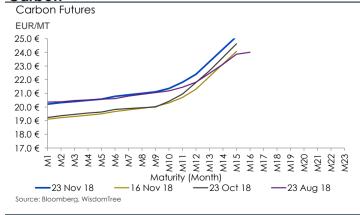


Gasoline Futures USd/gal. \$2.20 \$2.10 \$2.00 \$1.90 \$1.80 \$1.70 \$1.60 \$1.50 \$1.40 \$1.30 M15 M17 M19 M23 M33 M21 M31 Maturity (Month) -16 Nov 18 -23 Nov 18 -23 Oct 18 -23 Aug 18 Source: Bloomberg, WisdomTree



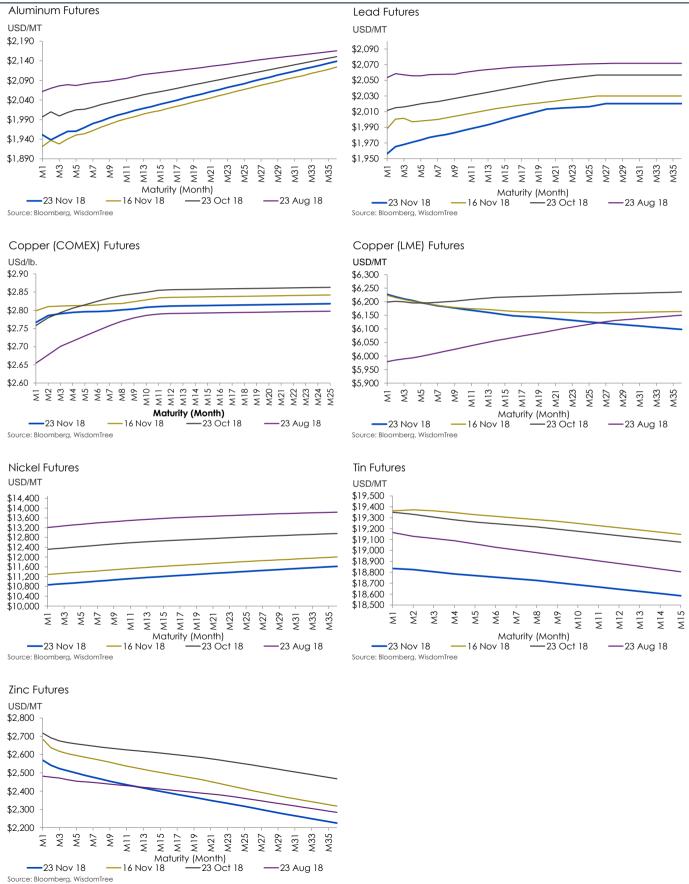


Carbon



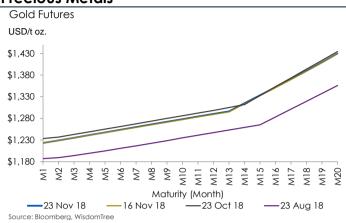


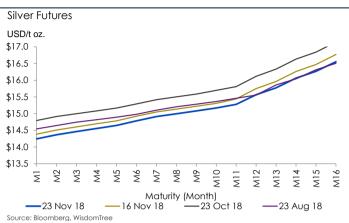
Industrial Metals



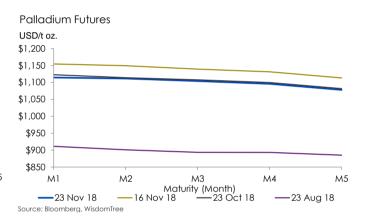


Precious Metals

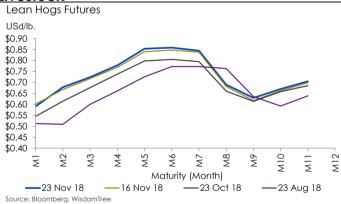


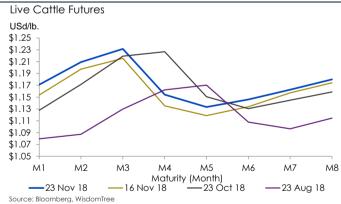


Platinum Futures USD/t oz. \$880 \$860 \$840 \$820 \$800 \$780 \$760 M4 M5 Maturity (Month) —23 Oct 18 -23 Nov 18 —16 Nov 18 —23 Aug 18 Source: Bloomberg, WisdomTree

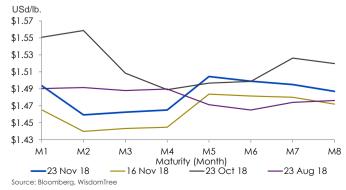


Livestock





Feeder Cattle Futures





Commodity Monthly Matrix Explained

Score based on unweighted sum of four fundamental/technical measures detailed below with each measure awarded a possible score of -1, 0, or 1 depending on whether variable is viewed as fundamentally negative, neutral or positive. Score ranging from -4 to +4. For commodities where data is not available or not relevant, scores are calculated on remaining variables and adjusted to the -4 to +4 scale. The score matrix is designed to highlight significant changes in key variables but should not be viewed as predictor of performance.

The four fundamental/technical measures are as follow:

- price vs. 200 days moving average: 1 when price is above 200dma and return is positive, -1 when price is below 200dma and return is negative, 0 otherwise
- % change in net positioning over the past month: 1 when % change is positive, -1 when % change is negative, 0 when no change
- % change in inventory level over the past 3 months: 1 when % is negative, -1 when % is positive, 0 when no change
- roll yield between the front and second month futures contracts: 1 when in backwardation, -1 when in contango, 0 when no change

CALENDAR

WisdomTree - R	ecent Blogs	
03-Dec-18	Nitesh Shah	OPEC: Déjà vu – No thank you!
28-Nov-18	WisdomTree	Global Dividend Stream: Where we saw growth in 2018
26-Nov-18	Aneeka Gupta	Beyond the US Midterm Elections
21-Nov-18	Aneeka Gupta	In charge with Electric Vehicles
19-Nov-18	Kevin Flanagan	Is US wage growth finally stepping out?
16-Nov-18	Aneeka Gupta	<u>Oil lords battle it out</u>
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12-Nov-18	Nitesh Shah	Oil: Backwardation to the future
07-Nov-18	Christopher Gannatti	How to multifactor: Diversifying exposure across all factors at all times
06-Nov-18	WisdomTree	Will Eurozone bonds go 'back to the future'?
30-Oct-18	Christopher Gannatti	WisdomTree US Multifactor: Not the low volatility you're used to
29-Oct-18	Nitesh Shah	Silver: set for a rebound?
29-Oct-18	Nitesh Shah	Managing commodity risks
WisdomTree P	Past Issues of Commodity Monthly Monit	

WisdomTree - Past Issues of Commodity Monthly Monitor

Jan - Feb 2018Research TeamUS dollar gives transitory boost to commoditiesFeb - Mar 2018Research TeamCommodities buck cyclical shakedownMar - Apr 2018Research TeamCommodities see-saw amidst geopolitics and rising yields

Apr - May 2018 Research Team

Apr - May 2018 Research Team

Mill the dichotomy of geopolitical risk in oil and gold last?

May - Jun 2018 Research Team

Oil falls on OPEC but trade wars trip everything else

The research notes are for qualified investors only.

Key Reports

KCy KCPOITS			
Current	Next release		
08-Nov-18	11-Dec-18	USDA	World Agricultural Supply and Demand Estimates
06-Nov-18	11-Dec-18	EIA	Short-Term Energy Outlook
13-Nov-18	12-Dec-18	OPEC	OPEC Oil Market Report
14-Nov-18	13-Dec-18	IEA	IEA Oil Market Report

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