Commodity Monthly Monitor

Vaccine News Buoys Cyclical Sectors

27 October - 27 November 2020



Summary

Positive news on vaccines have largely overridden the negative news on rising COVID-19 cases globally spurring a risk rally spanning from equities, to high yield debt, to oil, to base metals. Bloomberg commodity total return index returned 1.7% in November largely driven by industrial metals (8.8%) and agriculture

Curiously, energy was a drag on performance despite the Bloomberg petroleum subindex (including crude, and petroleum products like gasoline and heating oil) returning close to 15%, owing to a decline in natural gas. While front month natural gas prices only fell in the region of 6%, the total return on the Bloomberg natural gas subindex was over 15% owing to a market in contango. While that contango has given way to seasonal backwardation at the end of month, a warm winter may not provide a stable footing for the commodity.

The oil price rally has been driven by hopes of demand improvement a la vaccine news. However, the major agencies like the International Energy Agency, Energy Information Administration, Organisation for Petroleum Exporting Countries (OPEC), maintain caution and have revised their 2021 demand figures downwards. After the data for this report has been cut, OPEC and its partner countries (OPEC+) decided to raise production in January 2021 (while the market was expecting it to rollover current quotas for another quarter). That decision was the product of a compromise with the United Arab Emirates who broke ranks with the traditional centre of power in the organisation, Saudi Arabia. We believe full compliance will wither without the buy-in by all members.

Gold and its closely correlated cousin, silver - both playing on defensive traits - have suffered in this risk rally. However, in recent days, we have witnessed a rise in price. At the end of November, our models were indicating that gold was around US\$100/oz undervalued and we are now seeing that quickly corrected. Looking into 2021, we believe gold prices could rise above US\$2400/oz if economic uncertainty is prolonged and central banks maintain an easing bias. Positive vaccine news aside, central banks have voiced caution and have highlighted the logistical challenges in getting vaccines out. The market is currently expecting the European Central Bank for example to extend its pandemic emergency purchase program (PEPP) to the end of 2021 and raise amounts by at least €400bn to take the total to €1750bn when it meets later this month. Central bank largess should be supportive for gold, which is seen as an alternative to the fiat currencies issued by central banks.

With one month to go till the end of this year, commodities as a group (measured by Bloomberg Commodity index) would need a boost of around 8% (from December 3rd 2020 levels) to have a positive return for the year. Despite having suffered one of the worst shocks to demand in living memory and having oil prices done the unthinkable (turning negative on the front month West Texas Intermediate (WTI) contract in April 2020), to have a fighting chance is an amazing feat. Economic policy support; hopes for a demand recovery; OPEC intervention; and, increasingly, a rising inflation outlook leave the commodity complex well supported.

Nitesh Shah Director

Mobeen Tahir Associate Director

- Gold and silver moved away from the limelight in November as vaccine news dominated market sentiment. We expect a resurgence in gold and silver as rising inflation and accommodative policy is likely to induce renewed demand for safe havens.
- Industrial metals shine bright on positive risk sentiment. Industrial metals, like equities, have defied lockdowns in Europe and the US to make further gains in November buoyed by vaccine news and encouraging economic data from China.
- A very strong month in the petroleum complex likely to stall as OPEC+ raises output in January 2021. At the end of November, the market was pricing in a rollover of current OPEC+ quotas. However, the group has decided to increase production in January 2021; a compromise reached after the UAE broke
- Another stellar month from the agricultural commodity complex, supported by production decline in several grains. Softs generally have idiosyncratic stories: cocoa driven by a futures versus bilateral contracts arbitrage by commercial players; coffee driven by hurricanes and sugar on falling global

rents.

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Commodities market overview	1
lummary tables	4
CFTC net positioning	5
nventories	9
Moving average and volumes	13
utures curves	17
Recent publications	21

Commodity Monthly Matrix ¹								
	Current Price ²	Returns (-1 Mth)	Price vs 200 days MA	Inventories ³ (- 3 Mths)	Positioning ⁴ (- 1 Mth)	Roll Yield ⁵	27 Nov Score	30 Oct Score
WTI Oil	45.5	15.1%	27.7%	-3.8%	8%	-0.5%	2	0
Brent Oil	48.2	16.9%	23.1%	1.4%	15%	-0.1%	0	(2)
Natural Gas	2.84	-5.8%	35.0%	15.2%	-48%	0.4%	(1)	0
Gasoline	1.28	12.1%	17.4%	-3.8%	32%	1.3%	4	0
Heating Oil	1.38	19.2%	21.8%	1.3%	18205%	-0.3%	0	(4)
Carbon	28.1	16.9%	16.7%	-	-	0.0%	2	(4)
Wheat	5.97	-3.1%	10.2%	1.2%	-46%	-1.6%	(3)	0
Corn	4.26	2.3%	21.1%	-8.2%	1%	-1.9%	2	2
Soybeans	11.9	10.1%	27.9%	-9.3%	-4%	-0.1%	0	4
Sugar	0.15	-0.1%	20.1%	-1.7%	-5%	5.7%	1	2
Cotton	0.72	-0.5%	15.5%	-3.3%	-12%	-2.1%	(1)	2
Coffee	1.22	13.8%	10.4%	-	21%	-2.0%	1	(4)
Soybean Oil	0.39	13.5%	28.3%	-1.9%	11%	0.7%	4	2
Cocoa	3,035	23.8%	23.6%	-	46%	9.7%	4	(4)
Aluminium	1,994	10.0%	19.6%	-11.5%	3%	-0.1%	2	4
Copper (COMEX)	3.40	10.0%	24.1%	-5.2%	11%	-0.2%	2	2
Copper (LME)	7,493	10.4%	23.9%	66.1%	-12%	-0.1%	(2)	(2)
Zinc	2,782	9.7%	25.9%	-7.5%	7%	-0.3%	2	0
Nickel	16,419	3.4%	21.1%	1.2%	7%	-0.1%	0	0
Lead	2,096	18.7%	17.1%	-5.7%	12%	-0.1%	2	0
Tin	18,936	4.7%	12.1%	1.0%	-1%	0.0%	0	0
Gold	1,782	-6.6%	-1.0%	-	-10%	-0.2%	(4)	0
Silver	22.6	-8.0%	9.3%	-	-1%	-0.2%	(3)	1
Platinum	963	9.2%	12.4%	-	91%	-0.2%	1	(1)
Palladium	2,424	3.3%	13.0%	-	-13%	-0.3%	(1)	0
Live Cattle	1.11	5.5%	8.8%	-	68%	-2.3%	1	(3)
Lean Hogs	0.66	-2.6%	13.2%	-	-5%	-2.0%	(3)	0
Feeder Cattle	1.40	4.1%	5.0%	-	117%	0.6%	4	0

Performance ²	- 1 Mth	- 6 Mth	- 12 Mth			
All Commodities	1.7%	19.5%	-4.0%			
Energy	-0.6%	12.6%	-41.7%			
Industrial Metals	8.8%	37.6%	17.2%			
Precious Metals	-7.2%	6.1%	21.1%			
Agriculture	5.1%	28.0%	14.7%			
MSCI World	9.3%	24.0%	15.4%			
US Aggregate Bond	0.5%	1.9%	7.2%			
Bloomberg TR Indexes for basket returns, data to Friday 27 November 2020. Source: WisdomTree, Bloomberg						

CFTC Net Speculative Positionina



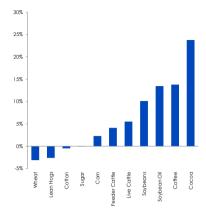
- Information not available. Green = returns positive, inventories falling, positioning rising, roll yield positive. Red = the opposite, Black = neutral. 1 Detailed explanation of the matrix calculations can be found at the end of this report. 2 All prices are futures prices to friday 27 Nov 20. Broad sector returns based on Bloomberg Commodily Index (amily, 3 % change in inventory over the past 3 months except for sugar and coffee which are based on past 4 months as data is updated bi-bi-anually by USDA. 4 CFIC futures and LME COTR net positioning as at Nov 24, 2020 and Nov 27, 2020 respectively, % change from previous month, 5 Calculated as % difference between front month and second month futures prices on report date.

Sector Overview



- Front month ICE US Cocoa prices rose 24% in November. It's a strange occurrence given that demand for cocoa has generally been weak in the COVID-19 pandemic era. Grinding data both in US and Europe highlight this weakness. The price gain was driven by commercial traders taking delivery of the December 2020 futures contract, diverting their trade away from bilateral contracts in Ghana and Côte d'Ivoire. These two countries have increased the price of cocoa this year to provide farmers what they call a living income differential. However, the big confectioners like Mars, Hershey and Olam have been publicly named and shamed by the countries. According to the press, Hershey has also been banned from operating sustainability programs in the two countries. The question now remains whether the March 2021 futures contract will follow in the steps of the December 2020 contract as we get close to expiry, If these confectioners seek to resolve the relations with Ghana and Côte d'Ivoire - who produce 60% of the world's cocoa - we may not see them diverting trade to the futures contract again. However, with the dominance of these two countries in cocoa production, their selling price including living income differential should have the greatest influence on the market price.
- Hurricanes Eta and lota which ravaged Honduras and other parts of Central America (accounting for 13% of world arabica production) threatened to damage the coffee crop in the region. Coffee prices rose close to 14% in November as a result but have started to ease in recent days. The US Department of Agriculture's (USDA) assessment of Brazil's arabica crop (accounting for 47% of world production) indicates that bean size and cup quality are above historic average. Moreover, yield is expected to rise to 32.33 bags per hectare up from 29.66 last year in part reflecting the biannual cycle for the crop in Brazil, but also notching a new high.
- The soybean complex (including soybeans, soybean oil and soybean meal) all rose as the USDA revised downwards their US production forecast for 2020/21 to 4170 million bushels from 4268 million bushels last month. Ending stocks in the US are expected to decline from 290 million bushels to 190 million bushels as a result, significantly reducing the inventory.

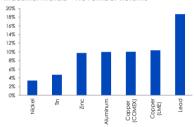
Agriculture - November Returns*



Industrial Metals

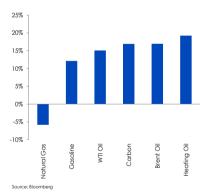
- Industrial metals built on their recent momentum and had another strong month. The sector was up 8.8% last month as positive risk sentiment in equity markets from vaccine news permeated across to cyclical commodifies. Ongoing weakness in the US dollar and improving economic data – particularly from China – are also key factors driving the industrial metals basket.
- Aluminium was up 10% last month. While aluminium remains in a supply surplus, as evident from the contango in its futures curve, short-term support is coming from falling inventory levels on exchanges, i.e. the entire global supply is not accessible to end users. It is possible that as prices recover further – on account of the macroeconomic tailwinds for the sector and accelerating demand growth from China - producers start releasing larger quantities of the total raw supply. Thus aluminium potentially presents a compelling opportunity in the short-term.
- Copper prices made further gains of over 10% last month continuing their charge from recent months on account of strong fundamentals. Copper has benefitted this year not just from Covid-related supply disruption, but strong demand from China. China's manufacturing Purchasing Managers' Index (PMI) has continued to improve over the fourth quarter signalling a robust recovery for the world's secondlargest economy. New export orders PMI also presents an encouraging picture for the economy as it has continued to improve after it started signalling an expansion in activity in September – for the first time this year. This points to an improvement in the global economy – which is as important for China as the state of its domestic economy.

Industrial Metals - November Returns*



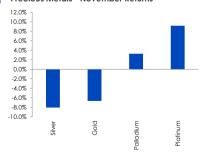
- Oil prices have rallied strongly in the past month on the expectation that positive vaccine news will revive demand, while the Organization for Petroleum Exporting Countries (OPEC) and its partner countries (combined as OPEC+) will extend its current quota into the first quarter of 2021 (instead of tapering it as originally planned). The United Arab Emirates, traditionally a stalwart supporter of Saudi Arabia and the Gulf Cooperation Council (GCC), broke ranks, insisting on a close to 2 million barrel per day production rise as originally planned. The compromise is that they will increase by 500 thousand barrels per day in January 2021 and meet every month to decide policy for the following month. This discord echoes failed OPEC discussions in the past which have resulted in either no gareement or weak compliance when implemented.
- Front month natural gas prices fell close to 6% in the past month as supply disruptions from hurricanes are now behind us. The total return on natural gas however was much more negative given the contango on the curve that existed for most of the month. The natural gas curve has now shifted into seasonal backwardation which will reduce this performance drag. With the National Ceanic and Atmospheric Administration forecasting above average temperatures for the winter, natural gas demand could be subdued however, weighing on prices
- In October and November, carbon prices have been marching higher, reversing the August and September slump. Continued commitments to reducing greenhouse gases and an uptick in economic activity have served carbon prices a tailwind.

Energy - November Returns*



- Gold prices shed 6.6% last month over the stated period as positive vaccine news stirred a strong risk-on sentiment in markets. Gold is expected to remain highly relevant and important for investors in the coming year for many reasons: accommodative fiscal and monetary policy in major economies including the US; weakness in the US dollar; rising levels of inflation as the global economy recovers; and the continued prevalence of negative-yielding debt. Physical gold held in exchange traded products (ETPs) globally sold off only slightly in November standing at just under 108m tonnes at the end of the month, compared to a high of 111m tonnes in October, and 83m tonnes at the start of the yea
- Silver, typically a leveraged play on gold, dropped by 8% last month. In addition to its correlation with gold, an improving global industrial outlook also bodes well for silver given its use in numerous applications including electronics, electric vehicles, and solar power generation. Like gold, physical silver held in ETPs remains elevated at around 87m tonnes at the end of November compared to a peak of 90m tonnes earlier in the month and 61m tonnes at the start of the year.
- Platinum shined bright last month with a gain of 9.2% driven by an improvement in sentiment towards the precious metal – as evident from an increase in net speculative positioning. The World Platinum Investment Council attribute a drop in supply in 2020 to COVID-related mine closures and the outage of the Anglo-American Platinum converter plant (ACP) in Rustenburg, South Africa since Q1 this year. The Council forecasts total platinum supply to be down by 18% in 2020 compared to 2019. Supply is, however, expected to pick up again in 2021 – up 17% from 2020 levels with a rebound in both refined production and recycling. Palladium made a steady gain of 3.3% last month. The metal remains in a supply deficit with strong autocatalyst demand – due to constantly tightening environmental standards giving palladium good prospects going forward.

Precious Metals - November Returns*



Technical Overview (as of Nov 27, 2020)



Positioning

- Net long positioning in platinum increased by 91.2% last month. In addition to current supply disruption, platinum's cheapness relative to gold can also become a positive factor for investor sentiment.
- Net longs in palladium fell by 13.2% while already being relatively low compared
 to levels seen last year. This is despite the ongoing tightness in the supply of the
 metal. A recovery in car sales as the global economy picks up could bolster
 sentiment towards palladium.
- Net positioning in natural gas had pulled back in November, after reaching a five year high in October 2020. Positioning still remains positive in a market where net short is more often the norm. Weather conditions heading into the winter however don't look greatly supportive.
- Positioning in heating oil (ultralow sulphur diesel) shifted from net short to net long in November and currently sits around the long-term average.
- Positioning in live and feeder cattle rose last month by 68% and 117% respectively.
 However, both remain very subdued relative to average over the past five years.
- Positioning in wheat pulled back from close to a two-year high last month but still remains quite bullish at over one standard deviation above the five-year historic average.

Top 5/Bottom 5 Change in CFTC Net Positions (over past month) Heating Oil Feeder Cattle Platinum Live Cattle Cocoa Cotton Copper (LME) Palladium Wheat

50%

100%

150%

200%

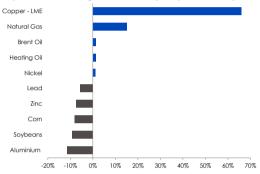
Source: Bloomber

-100%

Inventorie:

- While LME inventory of copper has risen, COMEX and SHFE inventories have declined with the total change in inventories across the exchanges being broadly flat over the last 3 months.
- Aluminium inventories rose slightly in October but dropped again in November returning to the trend since July and supporting prices despite the metal being in a supply surplus otherwise.
- Natural gas inventory is sitting close to a standard deviation above seasonal average for this time of year. Despite hurricane related disruptions, COVID-19 has dampened demand to leave inventory plentiful.
- Heating oil inventory remains close to one standard deviation below season
 average for this time of year. Although there may be less freight ships sailing around
 the globe today than in prior years, the implementation of the International Marine
 Organisation 2020 sulphur emissions limits at the beginning of this year has boosted
 demand for ultralow sulphur diesel at the cost of bunker fuel.
- Corn and soybean inventories have been revised down by the USDA at a global level, mainly driven by downward revisions in the US. At the global level corn inventory is likely to fall to a five-year low while soybean falls to a three-year low based on the USDA's forecasts.

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

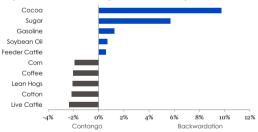


Source: Bloomberg

Curve Dynamics

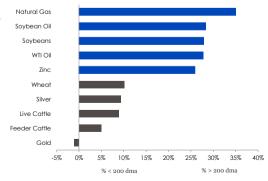
- The small backwardation in gasoline futures on the chart on the right has now been replaced by seasonal contango as we head into December.
- Backwardation in the cocoa futures curve reached a 35-year high on account of the spiking price for the front month contract after commercial traders opted for delivery.
- Sugar exhibits the second-highest backwardation in the commodity complex
 indicating lightness of production relative to demand. Speculative positioning in
 sugar at over one standard deviation above historia norms echoes the bullishness.
 While the USDA's recent assessment of the global sugar market revised downward
 global production estimates, the big producers Brazil (23% of global production) and
 India (18% of global production) will respectively see 40% and 15% increase in
 production versus last year.

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



- Despite the pullback in prices last month, silver is trading 9.3% above its 200-day moving gyerage (dmg)
- Following a price gain of 9.7% last month, zinc is trading at 25.9% above its 200-dma.
 Bullish sentiment in net speculative positioning is driving zinc prices with net longs being two standard deviations above the historic average.
- Despite natural gas's recent pullback, it is still trading 35% above the 200-dma.
- The recent WTI rally has pushed the price to 28% above its 200-dma.
- Soybean and soybean oil are trading 28% above their respective 200-dma prices, reflecting the bullishness behind the soybean complex following downward revisions to production and inventory.
- The 50-dma price for coffee has fallen below the 200-dma for coffee, which in technical analysis parlance is known as a "death cross". We will see whether that omen holds true. For reference, cocoa reached a similar point the prior month before rallying 24%: quite the opposite to what technical analysts would have pointed to.

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



Source: Bloomberg

CFTC futures net positioning as at report date, percent change from previous month. ² Percent change in inventory based on 3 month change (in %)

³ Roll yields calculated as percent change between front month futures price and next month futures price on Nov 27, 4 Percent difference between the front month futures price and its 200 day moving average on Nov 27, 2020.

rescent americae between the front month hutures price and its 200 day moving average on Nov 27, 2020.

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

Summary Tables



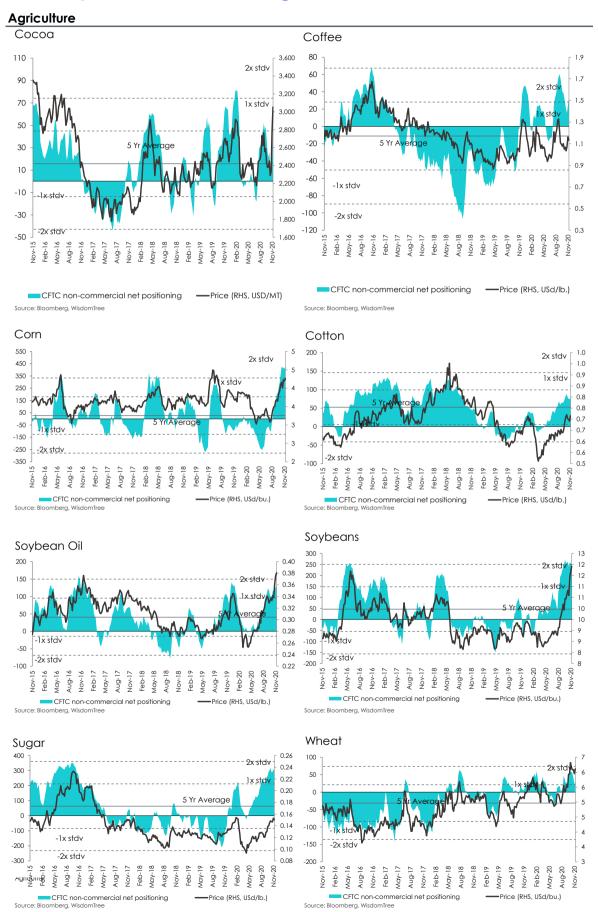
PRICES ¹	Current	Unit	1 Month	3 Month	6 Month	1 Year	Roll Yields ²	Unit	Exchange	27-Nov	1 Week	1 Month	3 Mor
Energy WTI Oil	45.5	USD/bbl.	15.1%	5.8%	38.8%	-21.6%	Energy WTI Oil	USD/bbl.	NYMEX	-0.5%	-0.4%	-0.8%	-0.69
Brent Oil	48.2	USD/bbl.	16.9%	6.9%	38.7%	-24.8%	Brent Oil	USD/bbl.	ICE	-0.1%	-0.4%	-1.0%	-1.19
Natural Gas	2.84	USD/MMBtu	-5.8%	10.2%	65.1%	13.7%	Natural Gas	USD/MMBtu	NYMEX	0.4%	-4.7%	-8.8%	-4.89
Gasoline	1.28	USd/gal.	12.1%	-0.2%	29.1%	-23.7%	Gasoline	USd/gal.	NYMEX	1.3%	0.3%	1.3%	5.49
Heating Oil	1.38	USd/gal.	19.2%	14.0%	42.0%	-29.1%	Heating Oil	USd/gal.	NYMEX	-0.3%	-0.5%	-0.1%	-1.5
Carbon	28.1	EUR/MT	16.9%	-0.8%	32.3%	12.0%	Carbon	EUR/MT	ICE	0.0%	0.0%	0.0%	0.09
Agriculture							Agriculture						
Wheat	6.0	USd/bu.	-3.1%	10.0%	18.2%	12.9%	Wheat	USd/bu.	CBOT	-1.6%	-1.2%	0.0%	-1.5
Corn	4.3	USd/bu.	2.3%	23.6%	32.8%	17.3%	Corn	USd/bu.	CBOT	-1.9%	-1.1%	-0.1%	-4.0
Soybeans	11.9	USd/bu.	10.1%	27.2%	40.5%	35.1%	Soybeans	USd/bu.	CBOT	-0.1%	0.2%	0.5%	-0.5
Sugar	0.15	USd/lb.	-0.1%	16.1%	37.2%	15.9%	Sugar	USd/lb.	NYBOT	5.7%	6.0%	6.6%	-4.6
Cotton	0.72	USd/lb.	-0.5%	10.7%	22.9%	10.4%	Cotton	USd/lb.	NYBOT	-2.1%	-3.3%	-1.0%	-0.9
Coffee	1.22	USd/lb.	13.8%	-1.0%	18.7%	3.8%	Coffee	USd/lb.	NYBOT	-2.0%	-2.1%	-2.4%	0.5
Soybean Oil	0.39	USd/lb.	13.5%	16.2%	40.2%	27.4%	Soybean Oil	USd/lb.	CBOT	0.7%	0.8%	0.6%	0.0
Cocoa	3,035	USD/MT	23.8%	17.2%	28.4%	14.7%	Cocoa Industrial Met	USD/MT	NYBOT	9.7%	9.4%	-0.1%	2.0
Industrial Metals Aluminum	1,994	USD/MT	10.0%	13.9%	31.9%	12.7%	Aluminum	USD/MT	LME	-0.1%	-0.2%	-0.3%	-0.9
Copper (LME)	3.40	USd/lb.	10.0%	14.7%	41.5%	27.1%	Copper (LME)	USd/lb.	COMEX	-0.2%	0.0%	0.1%	-0.1
Copper (LME) Zinc	7,493 2,782	USD/MT USD/MT	10.4% 9.7%	13.0% 12.7%	43.0% 45.0%	26.2% 19.8%	Copper (LME) Zinc	USD/MT	LME LME	-0.1% -0.3%	-0.1% -0.2%	-0.1% -0.2%	0.1 -0.4
unc Nickel	16,419	USD/MT	9.7% 3.4%	8.3%	45.0% 36.1%	14.5%	Nickel	USD/MT	LME	-0.3% -0.1%	-0.2% -0.1%	-0.2% -0.1%	-0.4
Nickei Lead	2,096	USD/MT	3.4% 18.7%	6.8%	28.9%	8.3%	Lead	USD/MT	LME	-0.1% -0.1%	-0.1% -0.3%	-0.1% -0.3%	-0.1
Tin	18,936	USD/MT	4.7%	6.8%	28.9% 22.4%	8.3% 15.4%	Tin	USD/MT	LME	-0.1%	-0.3% 0.1%	-0.3% 0.0%	0.0
Precious Metals	10,700	008/1111	117 70	0.270	ZZ. 170	10.170	Precious Meto		EIVIE	0.070	0.170	0.070	0.0
Gold	1,782	USD/t oz.	-6.6%	-7.3%	4.2%	22.6%	Gold	USD/t oz.	COMEX	-0.2%	0.0%	0.0%	0.0
Silver	22.6	USD/t oz.	-8.0%	-16.5%	27.5%	33.4%	Silver	USD/t oz.	COMEX	-0.2%	-0.1%	-0.1%	-0.1
Platinum	963	USD/t oz.	9.2%	4.1%	10.2%	7.9%	Platinum	USD/t oz.	NYMEX	-0.2%	-0.1%	-0.1%	-0.1
Palladium	2,424	USD/t oz.	3.3%	12.4%	23.0%	33.8%	Palladium	USD/t oz.	NYMEX	-0.3%	-0.1%	-0.1%	-0.1
.ivestock							Livestock						
ive Cattle	1.11	USd/lb.	5.5%	7.4%	9.7%	-8.9%	Live Cattle	USd/lb.	СМЕ	-2.3%	-2.1%	0.8%	-3.0
	0.66	USd/lb.	-2.6%	18.2%		8.6%	Lean Hogs	USd/lb.	CME	-2.0%	1.0%	-0.6%	-1.5
Lean Hogs					9.5%		=						
Feeder Cattle	1.40	USd/lb.	4.1%	-1.5%	4.3%	-2.4%	Feeder Cattle	USU/ID.	СМЕ	0.6%	0.9%	1.5%	0.5
TC NET POSITIONI	NG ³	Current	5 Yr Average	1 Month	6 Month	1 Year	INVENTOR'	Y LEVELS⁴	Current	5 Yr Average	1 Month	3 Month	6 Mo
ergy							Energy						
WTI Oil		550,172	478,354	507,268	548,336	477,604	Oil - US		488,721	4.7%	-1%	-4%	-99
Brent Oil**		-185,023	175,936	-218,436	-59,405	353,656	Oil - OECD Euro	pe**	379	4%	0.7%	1.4%	89
Natural Gas		25,499	-84,818	49,458	-58,119	-188,289	Natural Gas - D	OE	3,940	7.0%	0%	15%	51
Gasoline		64,820	75,063	49,059	62,087	87,814	Gasoline - DOE		230,147	4.1%	2%	-4%	-10
Heating Oil		14,122	15,083	-78	2,541	4,916	Heating Oil - Do	DE	8,841	-23%	-3%	1%	-3
iculture							Industrial Meta	ls					
Wheat		31,372	-31,372	58,298	-13,542	18,115	Aluminum		1,598,398	-21%	-6%	-12%	-12
Corn		429,378	27,311	423,973	-241,711	-76,261	Aluminum - LM	E	1,378,025	-12%	-6%	-12%	-8
Soybeans		250,758	46,873	260,683	29,858	-19,516	Aluminium - SHI	FE	220,373	-52%	-7%	-11%	-32
Sugar		299,148	63,753	316,046	48,255	-87,467	Copper		325,279	-39%	-21%	-7%	-35
Cotton		77,065	52,329	87,728	4,228	-357	Copper - LME		150,775	-35%	-15%	66%	-43
Coffee		32,989	-11,117	27,229	12,418	11,222	Copper - SHFE		92,912	-51%	-40%	-46%	-47
Soybean Oil		129,322	40,648	116,083	13,387	89,922	Copper - COM	EX	81,592	-25%	2%	-5%	41
Cocoa		37,468	15,666	25,746	-1,775	67,081	Nickel - LME		241,752	-17%	2%	1%	39
ustrial Metals ⁵							Zinc		277,571	-21%	-1%	-8%	28
		74,156	7,266	67,086	-9,619	-37,679	Zinc - LME		221,325	-7%	0%	-1%	109
Copper (COMEX)		63,825	39,681	72,788	31,724	35,286	Zinc - SHFE		56,246	-50%	-7%	-28%	-49
		200,393	165,126	193,766	189,547	159,084	Lead		148,578	-7%	-3%	-6%	78
Copper (LME)		38,867	22,766	36,392	24,143	36,935	Lead - LME		112,675	-13%	-12%	-10%	48
Copper (LME) Numinum			46,397	71,709	41,070	51,677	Lead - SHFE		35,903	20%	47%	11%	385
Copper (LME) Numinum Nickel		76,522			50,991	58,317	Tin		8,885	-1%	-2%	1%	41
Copper (LME) Aluminum vickel iinc ead		52,012	52,819	46,533			Tin - LME		3,880	-1%	-18%	-26%	32
Copper (LME) Numinum Nickel iinc ead in				46,533 8,992	8,743	8,081							49
Copper (LME) Numinum Nickel Iinc Lead Iin Sious Metals		52,012 8,902	52,819 8,424	8,992			Tin - SHFE		5,005	0%	17%	40%	
Copper (LME) Aluminum Nickel Vinc Lead Tin Cious Metals Gold		52,012 8,902 221,211	52,819 8,424 188,806	8,992 246,356	253,644	270,136	Agriculture						
Copper (LME) Aluminum Vickel Vinc Lead Vin Cious Metals Gold Vilver		52,012 8,902 221,211 46,720	52,819 8,424 188,806 41,604	8,992 246,356 47,204	253,644 36,356	270,136 53,348	Agriculture Wheat - USDA		320,450	61.7%	-0.3%	1.2%	3.3
Copper (LME) Aluminum Nickel Linc Lead Lin Linc Linc Lodd Lini Linus Metals Gold Linus Platinum		52,012 8,902 221,211 46,720 19,077	52,819 8,424 188,806 41,604 24,208	8,992 246,356 47,204 9,978	253,644 36,356 21,930	270,136 53,348 44,777	Agriculture Wheat - USDA Corn - USDA		320,450 291,430	61.7% 100%	-0.3% -3.0%	1.2% -8.2%	3.3 -14.
Copper (LME) Aluminum vlickel tine Lead in Sious Metals Gold Silver Palladium		52,012 8,902 221,211 46,720	52,819 8,424 188,806 41,604	8,992 246,356 47,204	253,644 36,356	270,136 53,348	Agriculture Wheat - USDA Corn - USDA Soybeans - USD)A	320,450 291,430 86,520	61.7% 100% 38%	-0.3% -3.0% -2.5%	1.2% -8.2% -9.3%	3.3 -14. -12
Copper (LME) Aluminum Vickel Vinc Lead Vinc Lious Metals Gold Silver Cletinum Valladium Stock		52,012 8,902 221,211 46,720 19,077 3,039	52,819 8,424 188,806 41,604 24,208 11,244	8,992 246,356 47,204 9,978 3,500	253,644 36,356 21,930 743	270,136 53,348 44,777 12,024	Agriculture Wheat - USDA Corn - USDA Soybeans - USD Sugar - USDA)A	320,450 291,430 86,520 42,807	61.7% 100% 38% 19%	-0.3% -3.0% -2.5% -1.7%	1.2% -8.2% -9.3% -1.7%	3.3 -14. -12 -2
Copper (COMEX) Copper (LME) Aluminum Nickel Pinc Lead In Lious Metals Gold Silver Plotinum Palladium Stock Live Cattle		52,012 8,902 221,211 46,720 19,077 3,039 61,382	52,819 8,424 188,806 41,604 24,208 11,244 79,564	8,992 246,356 47,204 9,978 3,500 36,620	253,644 36,356 21,930 743 41,077	270,136 53,348 44,777 12,024	Agriculture Wheat - USDA Corn - USDA Soybeans - USD Sugar - USDA Cotton - USDA)A	320,450 291,430 86,520 42,807 101,440	61.7% 100% 38% 19% 42%	-0.3% -3.0% -2.5% -1.7% 0.3%	1.2% -8.2% -9.3% -1.7% -3.3%	3.3 -14. -12 -2
Copper (LME) Aluminum Vickel Vinc Lead Vinc Lious Metals Gold Silver Cletinum Valladium Stock		52,012 8,902 221,211 46,720 19,077 3,039	52,819 8,424 188,806 41,604 24,208 11,244	8,992 246,356 47,204 9,978 3,500	253,644 36,356 21,930 743	270,136 53,348 44,777 12,024	Agriculture Wheat - USDA Corn - USDA Soybeans - USD Sugar - USDA		320,450 291,430 86,520 42,807	61.7% 100% 38% 19%	-0.3% -3.0% -2.5% -1.7%	1.2% -8.2% -9.3% -1.7%	3.3 -14. -12 -2

1Performance of front month futures from 27 Nov 19 (1 Year), 27 May 20 (6 Month), 27 Aug 20 (3 Month) and 27 Oct 20 (1 Month) to 27 Nov 20. 2Roll return non-annualised from front month futures into second "month on 27 Aug 20 (3 Month), 27 Oct 20 (1 Month), 19 Nov 20 (1 Week), 27 Nov 20.

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. 5All Industrial metals positioning data (excluding copper) is sourced from LME COTR data in Bloomberg from 30 January 2018 (flist available date) under post-MIFID rules. **Brent 5 Yr average of net positions from January 2011 as positions were not reported by CFIC before then and inventory data (oECD) reported with 4 month lag with current = July 2020 Historical performance is not an indication of future performance and any investments may go down in value.

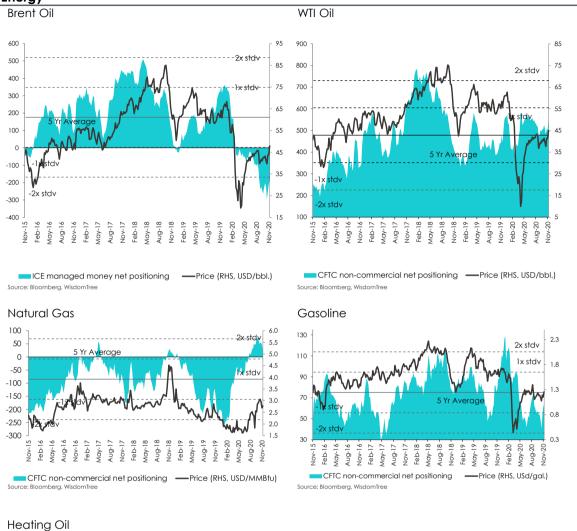


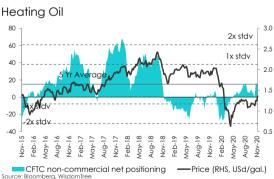
CFTC Speculative Net Long Futures Positions





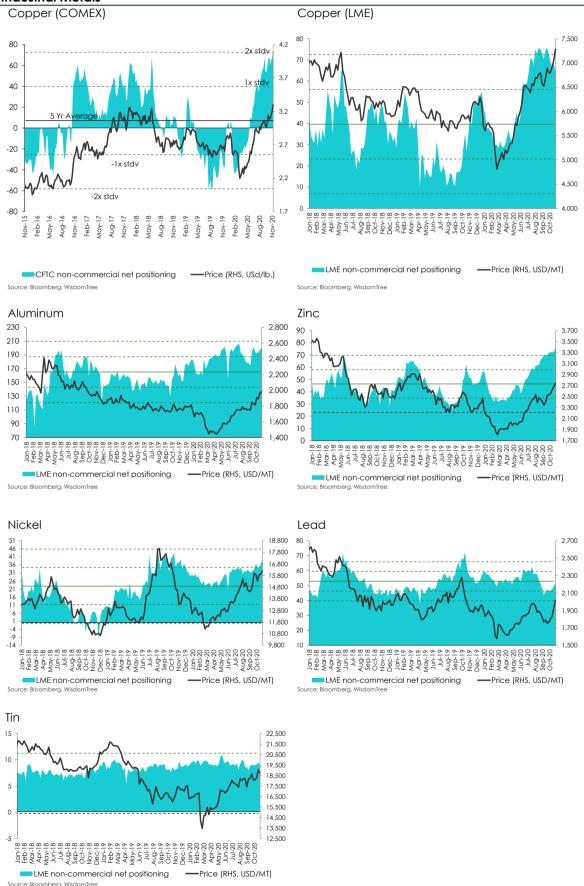




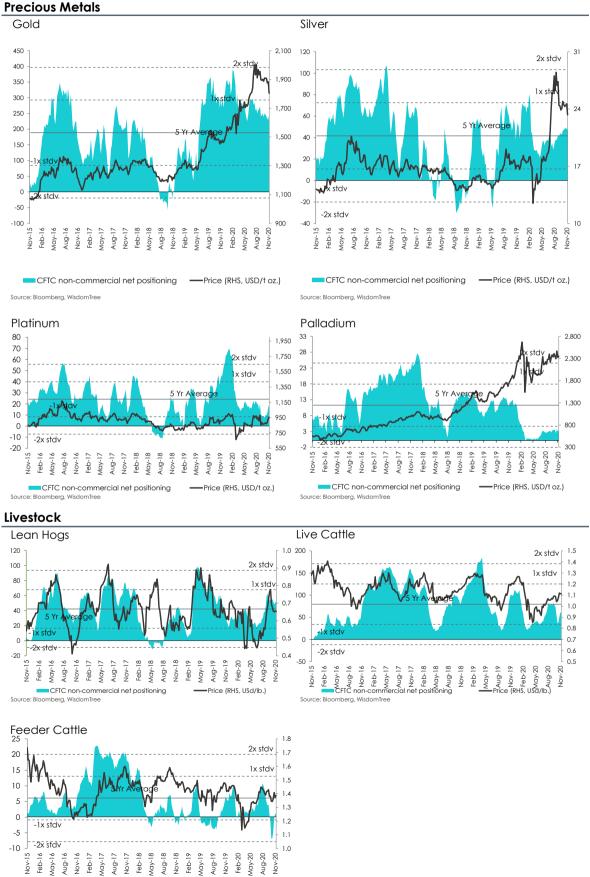




Industrial Metals







-Price (RHS, USd/lb.)

CFTC non-commercial net positioning Bloomberg, WisdomTree

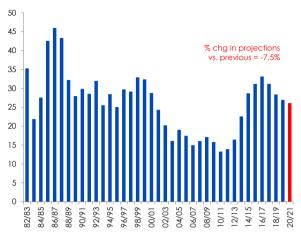


Inventories

Agriculture

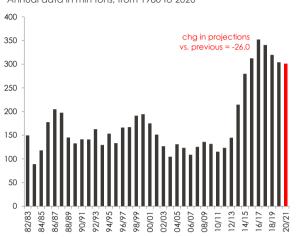
Corn - Stock to Use

Annual data in %, from 1980 to 2020



Corn - Ending Stocks

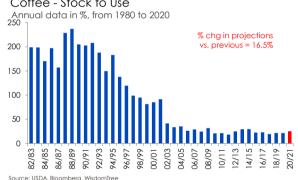
Annual data in mln tons, from 1980 to 2020



Source: USDA, Bloomberg, WisdomTree

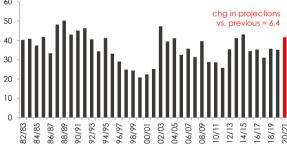
Source: USDA, Bloomberg, WisdomTree

Coffee - Stock to Use



Coffee - Ending Stocks

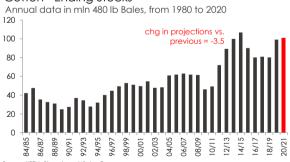
Annual data in mln bags (60 kg), from 1980 to 2020 60 $_{\rm T}$



Cotton - Stock to Use

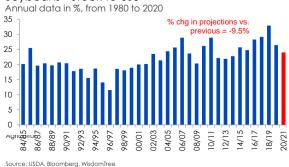


Cotton - Ending Stocks



Source: USDA, Bloomberg, WisdomTro

Soybeans - Stock to Use



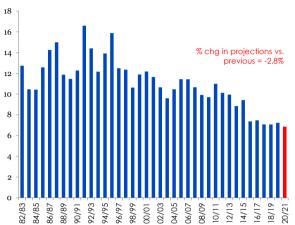
Soybeans - Ending Stocks

Annual data in '000 metric tons, from 1980 to 2020 120 chg in projections 100 80 60 40 20 0



Soybean Oil - Stock to Use

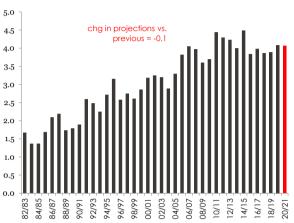
Annual data in %, from 1980 to 2020



Source: USDA, Bloomberg, WisdomTree

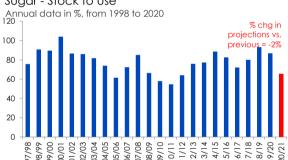
Soybean Oil - Ending Stocks

Annual data in mln Metric Tons, from 1980 to 2020



Source: USDA, Bloomberg, WisdomTree

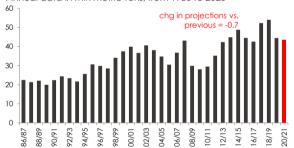
Sugar - Stock to Use



Source: USDA, Bloomberg, WisdomTre

Sugar - Ending Stocks





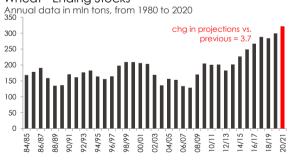
Source: USDA, Bloomberg, WisdomTree

Wheat - Stock to Use



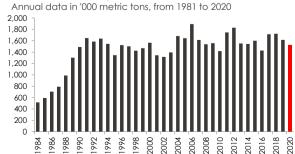
Source: USDA, Bloomberg, WisdomTree

Wheat - Ending Stocks



Source: USDA, Bloomberg, WisdomTree

Cocoa - Inventory



Source: International Cocoa Organisation, Bloomberg, WisdomTree



Industrial Metals

Aluminum Inventory

Daily data, from 27 Nov 19 to 27 Nov 20 2,000 1,800 1,600 1,400 1,200 1.000 800 600 400 200

■SHFE Inventory (in '000 tonnes) ■ LME Inventory (in '000 tonnes)

Apr 20

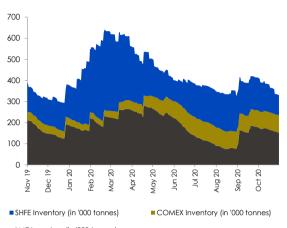
Source: Bloomberg, WisdomTree

20

6

Copper Inventory

Daily data, from 27 Nov 19 to 27 Nov 20



■ LME Inventory (in '000 tonnes)

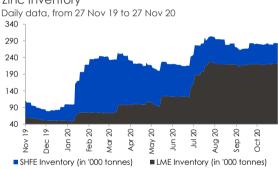
Nickel Inventory

Daily data in '000 MT, from 27 Nov 19 to 27 Nov 20 300 250 200 150 100 50

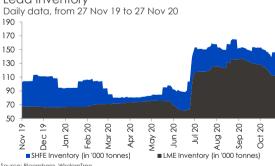
Source: LME, Bloomberg, WisdomTree

Zinc Inventory

Oct 20

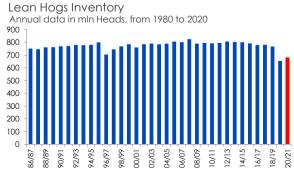


Lead Inventory





Livestock



Live Cattle Inventory



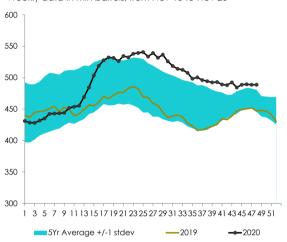
Source: USDA, Bloomberg, WisdomTree



Energy

US Oil Inventory

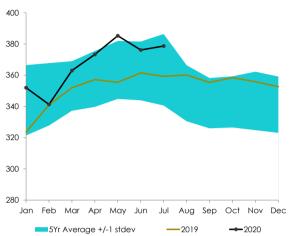
Weekly data in mln barrels, from Nov 15 to Nov 20



Source: DOE, Bloomberg, WisdomTree

OECD Europe Oil Industry Inventory

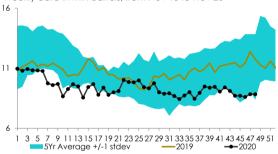
Monthly data in mln barrels, from Jul 15 to Jul 20



Source: IEA, Bloomberg, WisdomTree

Heating Oil Inventory

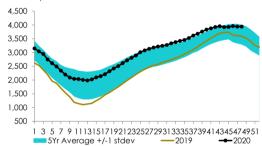
Weekly data in mln barrels, from Nov 15 to Nov 20



Source: DOE, Bloomberg, WisdomTree

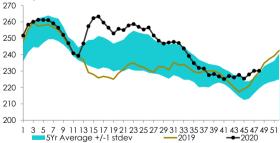
Natural Gas Inventory

Weekly data in billion cubic feet, from Nov 15 to Nov 20



Source: DOE, Bloomberg, WisdomTree

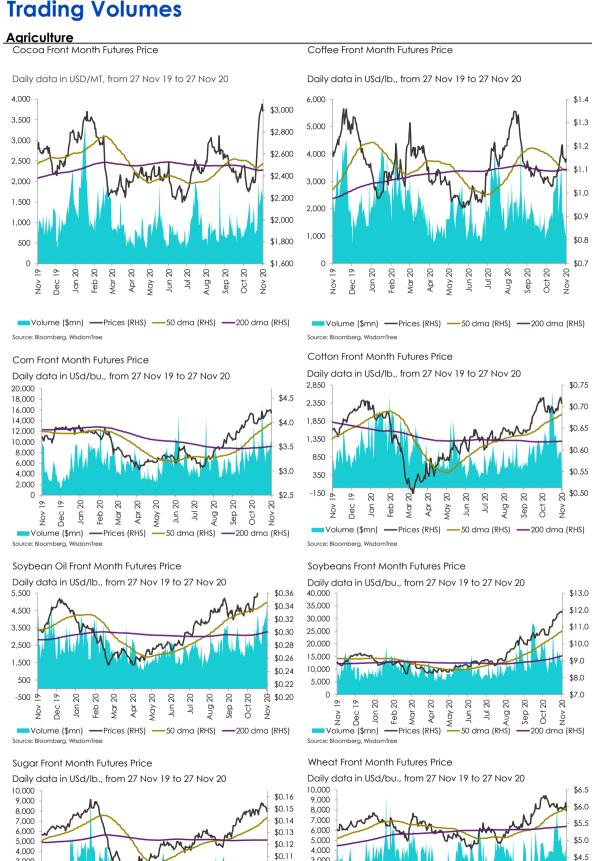
Gasoline Inventory



Source: DOE, Bloomberg, WisdomTree



Commodities Front Month Futures and Trading Volumes



3,000

2,000

1.000

20

Jan

Source: Bloomberg, WisdomTree

Volume (\$mn) — Prices (RHS)

₹

·50 dma (RHS)

\$0.10

\$0.09

\$0.08

ģ

200 dma (RHS)

₹

Jun

3.000

2,000

20 20 20 20

þ Feb

Prices (RHS)

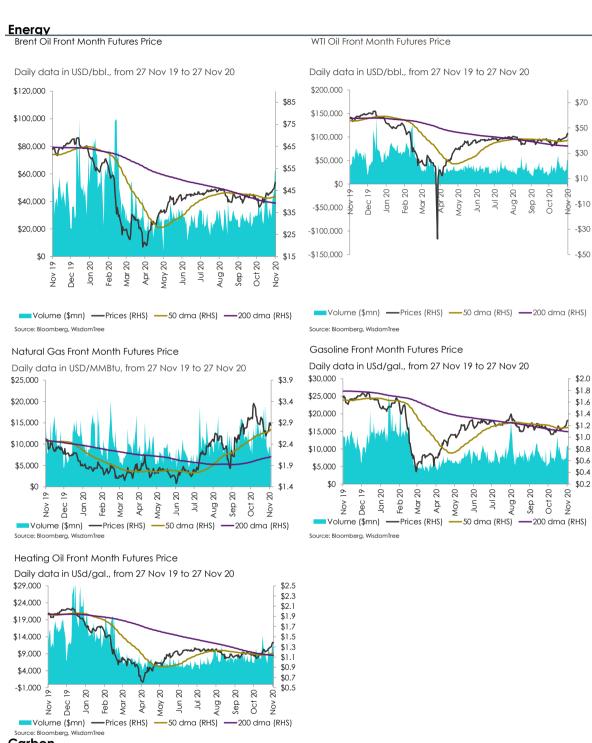
Volume (\$mn)

Source: Bloomberg, WisdomTree

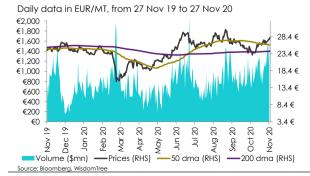
\$4.0

\$3.5





Carbon Carbon Front Month Futures Price

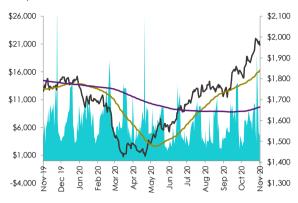




Industrial Metals

Aluminum Front Month Futures Price

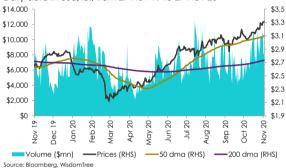
Daily data in USD/MT, from 27 Nov 19 to 27 Nov 20



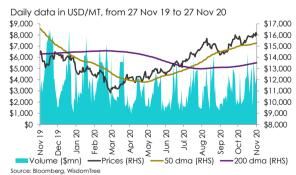


Copper (COMEX) Front Month Futures Price

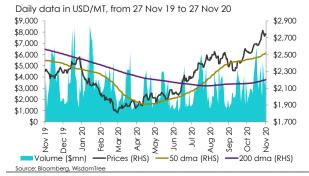
Daily data in USd/lb., from 27 Nov 19 to 27 Nov 20



Nickel Front Month Futures Price

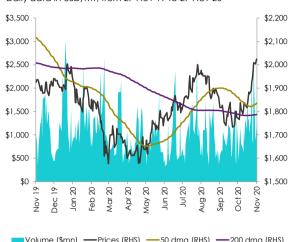


Zinc Front Month Futures Price



Lead Front Month Futures Price

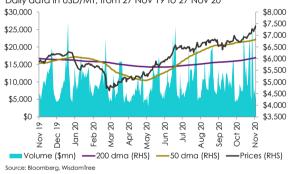
Daily data in USD/MT, from 27 Nov 19 to 27 Nov 20





Copper (LME) Front Month Futures Price

Daily data in USD/MT, from 27 Nov 19 to 27 Nov 20

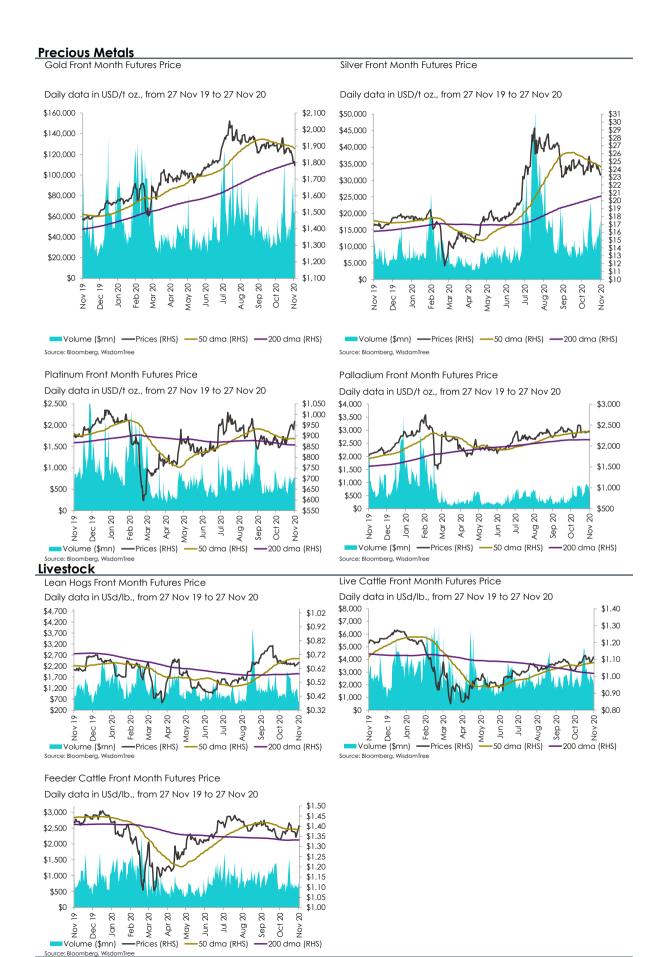


Tin Front Month Futures Price

Daily data in USD/MT, from 27 Nov 19 to 27 Nov 20

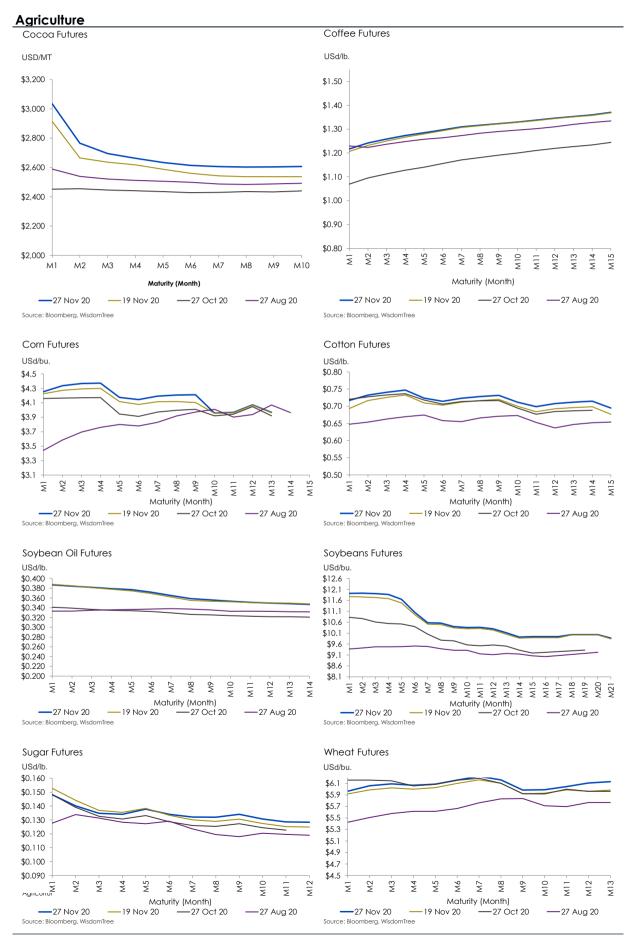




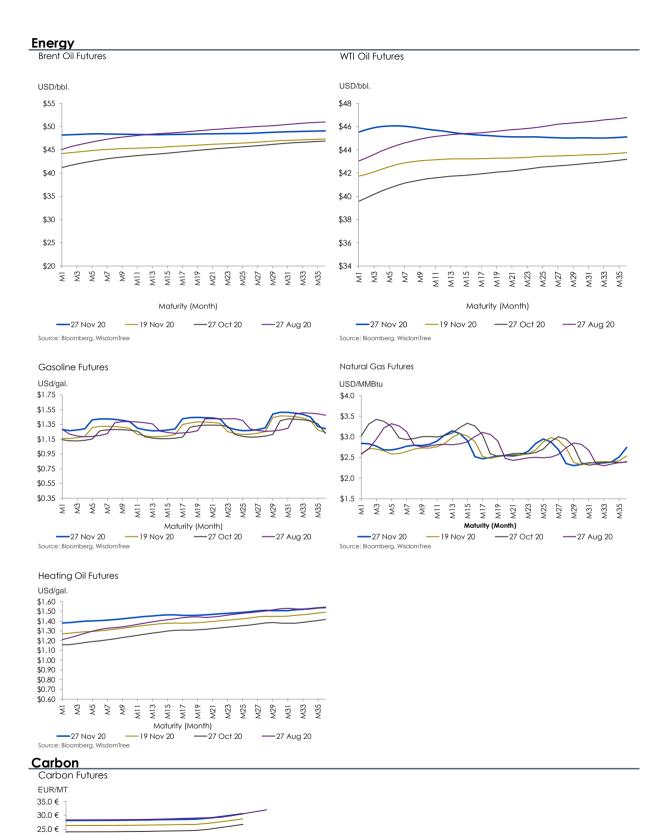




Futures Curves







-27 Oct 20

---27 Aug 20

Matnuith (Woutp)

---- 19 Nov 20

20.0 € 15.0 € 10.0 € 5.0 €

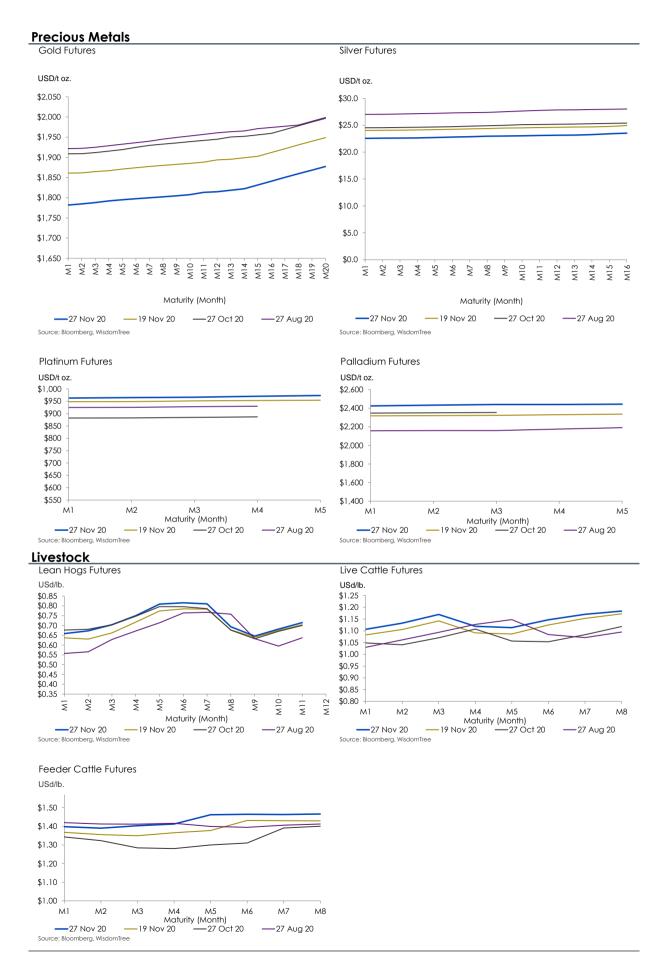
-27 Nov 20

Source: Bloomberg, WisdomTree











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 - Re	ecent Blogs		
03-Nov-20	Mobeen Tahir		The dynamic metal – How silver is unique and presents a compelling investment opportunity
02-Nov-20	Pierre Debru		<u>\$&P 500 or \$&P 5? (Part 1)</u> - Is the current concentration sustainable long term?
28-Oct-20	Mobeen Tahir		Copper – Inducing a sustainable future
27-Oct-20	Mobeen Tahir		A moment in markets – The big movers coming up
26-Oct-20	Nitesh Shah		To have your cake and eat it: A case for currency hedging gold exposure
21-Oct-20	Mobeen Tahir		A moment in markets – The China trade
16-Oct-20	Lidia Treiber		<u>Fiscal stimulus plans and the impact on FX in a nutshell</u>
15-Oct-20	Pierre Debru		Looking back at Equity Factors in Q3 with WisdomTree
13-Oct-20	Mobeen Tahir		A moment in markets – Positioning for a fiscal stimulus
06-Oct-20	Nitesh Shah		Nickel's role in electrifying cars
05-Oct-20	Mobeen Tahir		A moment in markets – Dollar weakness bodes well for commodities
01-Oct-20	WisdomTree		Why Salesforce Ventures invested in Snowflake
29-Sep-20	Mobeen Tahir		A moment in markets – Looking beyond battery days into a battery future
WisdomTree - Po	ast Issues of Com	modity Monthly Monit	or
Sep - Oct 2020	Research Team	ı	A positive, albeit volatile start to the final quarter of 2020
Aug - Sep 2020	Research Team	ı	Awaiting a US fiscal stimulus
Jul- Aug 2020	Research Team	ı	Best month for commodities in over 4 years
Jun - Jul 2020	Research Team	ı	Firing on all cylinders
May - Jun 2020	Research Team	ı	Brent: A fleeting moment of backwardation
	otes are for qualif	ied investors only.	
Key Reports			
Current	Next release		
10-Nov-20	10-Dec-20	USDA	World Agricultural Supply and Demand Estimates
10-Nov-20	08-Dec-20	EIA	Short-Term Energy Outlook
11-Nov-20	14-Dec-20	OPEC	OPEC Oil Market Report

DISCLAIMER

12-Nov-20

15-Dec-20

IFA

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IEA Oil Market Report

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