Commodity Monthly Monitor

Commodities hanging on the balance of a trade deal

18 Mar - 29 Apr 2019

WISDOMTREE

Summary

Commodity prices fell over the past month, with the complex losing steam following a stellar Q1 2019. The asset class has faced multiple headwinds. Firstly, the absence of any announcement on trade between China and the US (at least at the time of publication) has held back base metals and agriculture from performing. However, we believe it is only a matter of time before the two economic super-powers come to an agreement and we expect a continuation of the relief rally that started in January 2019 as a result. Secondly, US Dollar appreciation has muted commodity price performance (in Dollars). Thirdly, commodity markets have faded into the background in terms of market attention amid a strong rally in equities. The S&P 500 and Nasdaq posted fresh all-time highs earlier this week. In such an environment, speculative positioning in gold and silver futures have suffered substantial declines. This pattern looks eerily like what we saw last year, when investor sentiment towards gold fell in January 2018. When investors were reminded of market volatility in February 2018 and December 2018, gold prices rallied strongly.

We believe that a theme of short-covering could become pervasive across the commodity complex with shorts having become very elevated especially in agriculture and silver. With high supply concentration in cocoa (Africa), sugar (Brazil and India) and coffee (Brazil and Central America), a localised weather disturbance could act as a significant catalyst to unwind short positions.

The clear outlier in the commodity space has been energy, rising 3.8% over the past month, driven by supply tightness in oil. In addition to the intentional supply cuts by the Organization of Petroleum Exporting Countries (OPEC), involuntary cuts by Libya, Venezuela and Iran are leaving the market particularly tight. Waivers on US sanctions against Iran, offered by the US to consumers of Iranian oil are set to expire in a matter of days. The US has indicated it will not renew these waivers. That could remove more than 0.5 million barrels of exports from the country. Despite US President Trump's request to OPEC to lossen production policy, we don't expect OPEC to make any substantial changes before its June meeting. Given Trump's precedent of making a U-turn on Iranian policy (in November last year he announced the aforementioned waivers which were a surprise to the market given prior guidance and sent oil prices close to 33% lower at the time), OPEC are sceptical about making any policy moves before the US announces the waivers for the next set of 180 days. We expect continued volatility in oil markets over the coming month.

- Ample supply situation in most agricultural commodities weighed on prices. Most agricultural commodities dipped lower over the period owing to the ample supply situation especially in the case of wheat, soybean, sugar, cocoa and coffee markets. Lean hog futures were the exception aided by the outbreak of the African swine fever in China.
- Likely withdrawal of US sanction waivers for buyers of Iranian oil have resulted in further tightness in the market. Policy uncertainty continues to drive price volatility as it remains to be seen whether OPEC will increase its production to offset some of the supply tightness.
- Base metal performance loses steam after the Politburo meeting signalled less easing. Industrial metals
 staged weak performance after policymakers in China signalled no urgency to stimulate the Chinese
 economy after macro data in Q1 showed signs of improvement. Furthermore, the prospect of further
 delays on the US-China trade deal weighed on sentiment.
- Risk-on rally in cyclical assets has driven speculative gold positioning down. Gold has had a negative month on the back of recent investor confidence in risk assets. We however believe that the fundamental case for holding gold still remains strong.

	Current Price ²	Returns (-1 Mth)	Price vs 200 days MA	Inventories ³ (- 3 Mths)	Positioning ⁴ (- 1 Mth)	Roll Yield ⁵	29 Apr Score	18 M Scor
WTI Oil	64	5.6%	4.8%	3.3%	22%	-0.1%	0	(1)
Brent Oil	72	5.3%	4.3%	0.5%	35%	0.7%	2	3
Natural Gas	2.6	-2.6%	-17.2%	-39.1%	-152%	-1.8%	(2)	(1)
Gasoline	2.1	9.9%	18.2%	-12.3%	11%	2.6%	4	0
leating Oil	2.1	4.1%	0.1%	-0.9%	8%	0.0%	4	(2)
Carbon	26.3	22.5%	23.0%	-	-	-0.1%	0	0
Wheat	4.3	-6.8%	-14.9%	2.8%	-8%	-2.0%	(4)	(4)
Corn	3.5	-1.3%	-3.9%	1.7%	-96%	-2.7%	(4)	(1)
Soybeans	8	-4.2%	-3.8%	-6.9%	-238%	-1.5%	(2)	(1)
Sugar	0.1	-7.2%	-4.9%	-	108%	-5.7%	(1)	(2)
Cotton	0.8	-1.9%	-1.7%	4.4%	110%	-1.1%	(2)	(3)
Coffee	0.9	-3.3%	-10.7%	-	1%	-1.4%	(1)	(4)
Soybean Oil	0.3	-1.7%	-2.7%	-0.8%	-473%	-1.1%	(2)	(1)
Cocoa	2,392	4.9%	7.0%	-	93%	0.4%	4	(4)
Aluminium	1,804	-5.1%	-7.1%	-14.0%	-1%	-0.7%	(2)	(3)
Copper (COMEX)	2.9	-1.4%	4.4%	-60.3%	-77%	-0.1%	(1)	2
Copper (LME)	6,392	-1.5%	3.2%	57.3%	14%	0.0%	(1)	2
linc	2,871	-3.5%	8.7%	7.8%	-9%	1.4%	(1)	2
lickel	12,351	-4.4%	0.4%	-14.5%	-2%	-0.3%	(1)	2
.ead	1,964	-2.2%	-2.4%	-1.3%	-2%	-0.3%	(2)	1
in	19,727	-8.0%	-0.9%	-17.6%	-15%	0.2%	0	3
Gold	1,282	-0.9%	2.4%	-	-74%	-	(2)	(2)
ilver	15	-1.8%	-0.7%	-	-112%	-	(4)	(2)
Platinum	901	6.2%	9.0%	-	27%	-	4	4
alladium	1,362	1.5%	13.5%	-	-26%	-	0	0
ive Cattle	1.2	-0.7%	4.7%	-	4%	8.7%	3	4
ean Hogs	0.8	9.6%	36.6%	-	40%	-3.7%	1	1
eeder Cattle	1.4	-1.3%	-3.2%	-	18%	-5.1%	(1)	(1

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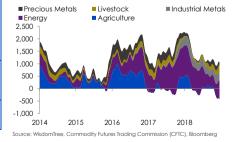
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Performance ²	- 1 Mth	- 6 Mth	- 12 Mth				
All Commodities	-0.5%	-3.4%	-7.8%				
Energy	3.8%	-7.1%	-1.2%				
Industrial Metals	-3.1%	2.7%	-9.1%				
Precious Metals	-1.2%	3.7%	-5.3%				
Agriculture	-3.0%	-8.7%	-19.5%				
MSCI World	3.3%	11.8%	4.6%				
US Aggregate Bond	-0.1%	4.9%	5.2%				
Bloomberg TR Indexes for basket returns, data to Monday 29 April 2019, Source:							

WisdomTree, Bloomberg

CFTC Net Speculative Positioning (in '000 contracts)



"-" 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 April 29, 2019. Broad sector returns based on Bloomberg Commodily Index family. ⁹% change in inventory over the past 3 months except for sugar and coffee which are based on past 6 months a data is updated bia-nnually by USDA.⁴ CFIC futures and LME COIR net positioning as at April 23, 2019 and April 26, 2019 respectively, % change from previous month. ⁵ Calculated as % difference between front month and second month futures prices to neport date.

Sector Overview



Agriculture

- Lean Hog futures led agricultural commodities, aided by the widespread outbreak of African swine fever in China which is likely to result in the death of hundreds of millions of hogs. The African swine flu is an extremely resilient virus for which there is no vaccine or treatment. It is easy to transmit and can only be controlled by blocking it from spreading via tight decontamination methods. Pork is the mainstay of China's local cuisine. China is using pork imports from the US to replace the current supply deficit. US pork imports to China hit a record high 77,000 tons as on April 4, 2019 despite the high import tariff of 62% imposed by China. The eradication of African swine fever takes about 5 years and we expect the epidemic to lend buoyancy to lean hog prices in the near term.
- Cocoa prices were up 3.5%, reflecting stronger growth in demand driven by the increase in cocoa
 grindings in the first quarter of 2019. According to the European Cocoa Association, 370,400 tons of
 cocoa beans were ground Europe-wide in the first quarter, up 3.3% over the prior year. Grinding in
 Malaysia grew significantly more sharply than in Europe, highlight a 35.5% increase in the first quarter
 versus the prior year. The International Cocoa Organisation (ICCO) is expecting a good mid-crop,
 owing to good weather conditions in the Ivory coast, the world's largest growing country, which could
 halt further upside of cocoa prices.

Industrial Metals

- Industrial metals were amongst the weakest performers across commodity markets. The unresolved trade dispute coupled with news that Chinese officials signalled no intention to implement any additional stimulus measures and reaffirmed their commitment to deleveraging the Chinese economy halted the momentum of the industrial metal complex witnessed since the start of the year. We believe the expansionary measures taken by the government and the central bank in preceding months have been bearing fruit and investor concerns about policy tightening are premature.
- While copper prices fell over the period, we believe copper prices are likely to benefit from the copper smelter maintenance in Q2 as several large smelters undertake comprehensive maintenance that occurs once in every two years. The global copper market has begun the year with a moderate supply deficit however we expect the supply deficit to be revised higher by International Copper Study Group in May as several copper mines struggle with problems. The supply of copper concentrate will be limited throughout the year since the world's second largest mine, Grasberg in Indonesia, transitions from open-pit to underground mining. Las Bambas in Peru is also dealing with problems over the short term and outages in Chile will also result in further shortage of copper. While Chinese copper imports in March rose 26% over the prior month but were 11% down over the year, the first quarter imports were considerably more than a year earlier.

Energy

- Crude oil had a positive month as both Brent and WTI extended their gains from the previous month. The US announcement that it would not extend sanction waivers to buyers of Iranian crude helped lend buoyancy to oil prices. We have long highlighted the risk of the US not renewing waivers, but as the time approached the market was clearly spooked at the prospect. We believe the supply tightness is now mostly priced in and risks to oil prices are skewed to the downside particularly if the US convinces OPEC to increase its output. The OPEC ministerial meeting in May followed by the official OPEC meeting in June will determine the course for oil prices for the rest of the year.
- Natural Gas had a negative month with mild temperatures resulting in declining demand for the commodity.
- Carbon stands out as a top performer in the category during the month. Carbon, which tends to be heavily influenced by regulation, found support this month when EU governments formally requested the European Commission to formalise its emission strategy in line with the Paris Agreement within a year. If the EU moves to further increase the price of carbon allowances, carbon prices could rise considerably further.

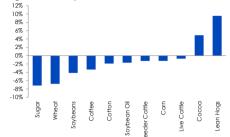
Precious Metals

- Gold had a slightly negative month as speculative positioning dropped driving down spot prices. This
 has primarily been driven by a risk-on rally in cyclical assets as buoyant equity markets attracted
 investor interest. We believe that market participants remain aware that financial market volatility can
 return very quickly making it important to hedge against a potential downside. Moreover,
 macroeconomic and geopolitical risks still remain with the ongoing US-China trade talks as well as
 Brexit uncertainty. These risks continue to support the fundamental case for holding gold. Additionally,
 we expect the US Fed to remain dovish for the next year which is expected to provide further price
 support to gold. Our base case forecast is for gold prices to reach US\$1385/oz at the end of Q1 2020.
- Silver, which typically has a strong correlation to gold, also had a slightly negative month. An increase
 in industrial demand for silver however means that the metal is now in a slight supply deficit which is
 expected to support prices and offset some of the impact from the considerable drop in speculative
 positioning.
- Palladium prices have had a slight recovery following a slump at the end of March which was driven
 primarily by speculative positioning and easing of supply pressures. Recent weakness in palladium has
 coincided with strength for platinum which is now perceived by some investors as oversold and is likely
 to see increased demand from the automobile industry.

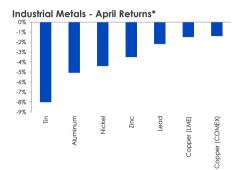
*Note: all returns are based on front month futures prices in the month to Monday 29 April 2019.

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

Agriculture - April Returns*

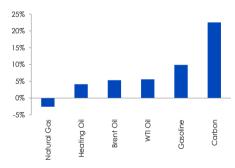


Source: Bloomberg



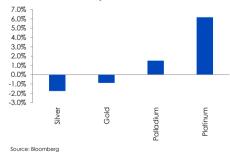
Source: Bloombera

Energy - April Returns*



Source: Bloomberg

Precious Metals - April Returns*



Technical Overview (as of Apr 29, 2019)



Positioning

- Speculative positioning across cotton, lean hogs, cocoa, sugar and feeder cattle improved as short positions eased considerably over the month by 39%, 51%, 31%, 9% and 26% respectively, reflecting growing positive sentiment among investors owing to improving fundamentals.
- Net short positions have hit a record high climbing to -270,560 contracts underpinning the extreme pessimism towards corn despite sizeable supply deficits expected both this and next crop year by the International Grains Council (IGC).
- Sentiment on the soybean market has been weakened evident from the reduction in net speculative positioning by 238% owing to the prospect of another very high crop in Brazil and the spread of African swine fever which is expected to reduce demand for fodder.
- Natural Gas's net speculative positioning has now fallen into negative territory reflecting the seasonal bearish sentiment on the commodity.
- Platinum has been an outlier among precious metals with its speculative positioning rising year-to-date while net positioning for gold, silver and palladium has been on the decline. This potentially reflects the price attractiveness of platinum in light of improving demand prospects.

Inventories

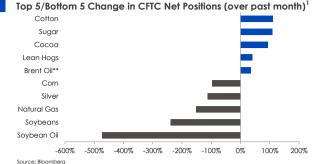
- The United States Department of Agriculture's (USDA) estimate for global wheat ending stocks for 2018/19 were raised 5.1mn tons mainly owing to higher supply and total use declining from lower Iran and EU feed and residual use.
- World ending cotton stocks in 2018/19 are forecast about 360,000 bales higher this month according to USDA as an increase in China's stocks more than offset the decline in stocks in Turkey, United States and Vietnam.
- Natural Gas inventories fell considerably over the month which is in line with expectations as inventories are typically lowest at the end of the winter season.
- Copper inventory trends are bifurcated across the exchanges. While copper inventories on the Comex Futures Exchange appear tight (down 60.3%), they appear plentiful (up 57.3%) on the LME.

Curve Dynamics

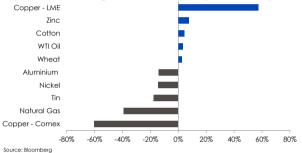
- Except for cocoa and live cattle, most agricultural commodities are in contango. Negative roll yields run as high as 6.3% for feeder cattle and 2.7% for corn which is usually an indication of market oversupply in the short-term.
- Gasoline is in backwardation and spot prices have risen over the month as winter blend inventories are wound down and the commodity transitions to a more expensive summer blend.
- LME zinc futures are in backwardation through the full length of the curve reflecting tightness in the metal, providing a positive 1.4% roll yield. As new capacities start going into operation, we could start to see zinc production pick up in the near term.
- Among the four precious metals, palladium is the only one in slight backwardation highlighting that the supply, despite easing a bit recently, remains tight relative to its demand.

Technicals

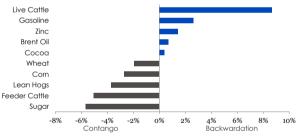
- Momentum for lean hogs are likely to continue owing to the outbreak of the African swine fever in China, prices have risen 36.6% above its 200- day moving average (dma) and are expected to trend higher.
- Wheat prices are trading 14.9% below its 200-dma as the global wheat supply situation is even more comfortable than previously envisaged which could continue to weigh on prices.
- Natural gas, which was trading around 10% below its 200-dma last month, is now trading at 17% below its 200-dma following the seasonal decline in price over the month.
- The International Aluminium Institute (IAI) confirmed that global aluminium
 production increased to 5.41 mn tons in March, marking the same level it attained a
 year ago in January. Its first quarter figure for aluminium production in China was
 higher than that released by the National Bureau of Statistics in China. Aluminium
 prices are trading 7.1% below their 200-dma and prices are expected to drift lower
 as the global aluminium market remains amply supplied.
- Palladium leads the precious metal pack with its current price around 14% above its 200-day moving average but has come down from being 38% above its 200-dma last month.



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

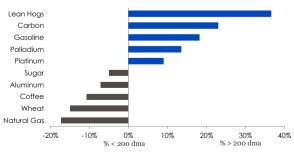


Top 5/Bottom 5 Roll Yields (front to next month)³



Source: Bloomberg

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



Source: Bloomberg

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 Apr 29, 2019.
 Percent difference between the front month futures price and its 200 day moving average on Apr 29, 2019.

Summary Tables



PRICES ¹ Energy	Current	Unit	1 Month	3 Month	6 Month	1 Year	ROLL YIELDS ² Energy	Unit	Exchange	29-Apr	1 Week	1 Month	3 Mo
WTI Oil	64	USD/bbl.	5.6%	19.1%	-5.3%	-6.8%	WTI Oil	USD/bbl.	NYMEX	-0.1%	0.1%	-0.2%	-0.5
Brent Oil	72	USD/bbl.	5.3%	17.5%	-6.9%	-3.5%	Brent Oil	USD/bbl.	ICE	0.7%	0.8%	1.2%	0.2
Natural Gas	2.6	USD/MMBtu		-12.1%	-18.6%	-6.4%	Natural Gas		NYMEX	-1.8%	-1.8%	-1.9%	1.6
Gasoline	2.1	USd/gal.	9.9%	54.2%	14.1%	-2.1%	Gasoline	USd/gal.	NYMEX	2.6%	2.4%	0.7%	-1.6
leating Oil	2.1	USd/gal.	4.1%	8.3%	-10.0%	-4.5%		USd/gal.	NYMEX	0.0%	-0.1%	0.1%	0.2
Carbon	26.3	EUR/MT	22.5%	13.2%	57.7%	94.5%	Carbon	EUR/MT	ICE	-0.1%	-0.1%	-0.2%	-0.2
Agriculture	2010	Longith	LLIG	1012/0	0, 1, ,0	/ 110/0	Agriculture	2010/111	102	01170	0.170	012/0	012
Vheat	4.3	USd/bu.	-6.8%	-16.9%	-15.9%	-13.9%	Wheat	USd/bu.	CBOT	-2.0%	-1.4%	-1.2%	-1.2
Corn	3.5	USd/bu.	-1.3%	-6.7%	-4.0%	-9.6%	Corn	USd/bu.	CBOT	-2.7%	-2.5%	-2.7%	-2.3
oybeans	8.5	USd/bu.	-4.2%	-7.8%	1.0%	-18.9%	Soybeans	USd/bu.	CBOT	-1.5%	-1.5%	-1.5%	-1.5
ugar	0.1	USd/lb.	-7.2%	-8.4%	-13.9%	3.7%	Sugar	USd/lb.	NYBOT	-5.7%	-1.6%	-0.9%	-0.8
Cotton	0.8	USd/lb.	-1.9%	2.7%	-1.3%	-10.8%	Cotton	USd/lb.	NYBOT	-1.1%	-1.7%	-0.9%	-1.8
Coffee	0.8	USd/lb.	-3.3%	-11.0%	-20.0%	-24.1%	Coffee	USd/lb.	NYBOT	-1.1%	-1.9%	-2.6%	-1.0
oybean Oil	0.3	USd/lb.	-1.7%	-7.4%	0.0%	-8.4%	Soybean Oil		CBOT	-1.1%	-1.1%	-1.2%	-1.1
	2,392	USD/MT	4.9%	8.0%	9.0%	-16.1%	Cocoa	USD/MT	NYBOT	0.4%	0.5%	0.4%	-1.6
ndustrial Metals							Industrial Me			0.72	0.797		
luminum	1,804	USD/MT	-5.1%	-4.2%	-8.7%	-19.0%	Aluminum	USD/MT	LME	-0.7%	-0.7%	-0.1%	-0.
opper	2.9	USD/Ib.	-1.4%	6.2%	5.6%	-5.0%	Copper	USd/lb.	COMEX	-0.1%	-0.2%	-0.2%	-0.3
opper (LME)	6,392	USD/MT	-1.5%	5.8%	3.5%	-5.6%	Copper (LME		LME	0.0%	-0.1%	0.0%	-0.
nc	2,871	USD/MT	-3.5%	7.5%	7.3%	-8.2%	Zinc	USD/MT	LME	1.4%	1.0%	0.7%	0.0
ickel	12,351	USD/MT	-4.4%	2.4%	5.6%	-10.8%	Nickel	USD/MT	LME	-0.3%	-0.3%	-0.2%	-0.:
ead	1,964	USD/MT	-2.2%	-5.1%	0.6%	-16.4%	Lead	USD/MT	LME	-0.3%	-0.4%	-0.3%	-0.:
n	19,727	USD/MT	-8.0%	-5.2%	2.8%	-6.0%	Tin	USD/MT	LME	0.2%	0.2%	0.0%	0.
recious Metals							Precious Met	als					
old	1,282	USD/t oz.	-0.9%	-2.1%	4.7%	-3.2%	Gold	USD/† oz.	COMEX	-0.5%	-0.3%	-0.4%	-0.
lver	14.8	USD/t oz.	-1.8%	-6.3%	2.8%	-9.5%	Silver	USD/† oz.	COMEX	-0.6%	-0.5%	-0.6%	-0.
latinum	901	USD/t oz.	6.2%	11.3%	8.3%	-1.6%	Platinum	USD/t oz.	NYMEX	-0.6%	-0.5%	-0.6%	-0.
alladium	1,362	USD/t oz.	1.5%	4.5%	26.2%	41.4%	Palladium	USD/t oz.	NYMEX	0.2%	0.3%	0.7%	0.8
vestock							Livestock						
ve Cattle	1.2	USd/lb.	-0.7%	-1.3%	9.2%	0.3%	Live Cattle	USd/lb.	CME	8.7%	5.9%	5.6%	-1.(
ean Hogs	0.8	USd/lb.	9.6%	47.9%	44.1%	28.3%	Lean Hogs	USd/lb.	CME	-3.7%	-4.9%	-4.9%	-8.4
eeder Cattle	1.4	USd/lb.	-1.3%	0.5%	-6.8%	1.0%	Feeder Cattl	USd/lb.	CME	-5.1%	-6.3%	-2.4%	-1.
ic net positioni	ING ³	Current	5 Yr Average	1 Month	6 Month	1 Year	INVENTOR'	Y LEVELS ⁴	Current	5 Yr Average	1 Month	3 Month	6 Mc
ergy							Energy						
VTI Oil		581,229	429,515	474,644	482,706	755,241	Oil - US		460,633	0.7%	2%	3%	8
rent Oil**		185,639	170,654	137,641	246,947	508,872	Oil - OECD Eur	rope**	329	-2%	3%	1%	-7
		-60,595	-113,997	-24,043	-14,801	-99,258	Natural Gas -	DOE	1,339	-25%	18%	-39%	-57
atural Gas		98,956	70,342	88,950	93,673	87,051	Gasoline - DO	E	225,826	-2%	-5%	-12%	0
		-12,192	11,986	-13,209	37,935	24,816	Heating Oil - D		11,507	0%	10%	-1%	10
atural Gas Gasoline eatina Oil								-					
asoline eating Oil						1		als					7
asoline eating Oil culture			-44 877	-51 848	-15 418	-28 417	Industrial Mete	als	1 707 105	-41%	-8%	-14%	_0
asoline eating Oil culture /heat		-56,260	-44,877 73,439	-51,868	-15,418 87 295	-28,417	Industrial Mete		1,707,105	-41% -57%	-8%	-14% -18%	
asoline eating Oil culture /heat :orn		-56,260 -270,560	73,439	-137,983	87,295	263,600	Industrial Meto Aluminum Aluminum - LN	٨E	1,069,075	-57%	-5%	-18%	2
asoline eating Oil culture /heat orn oybeans		-56,260 -270,560 -110,318	73,439 43,017	-137,983 -32,618	87,295 -33,353	263,600 190,817	Industrial Mete Aluminum Aluminum - LN Aluminium - St	٨E	1,069,075 638,030	-57% 44%	-5% -13%	-18% -7%	29 -22
asoline eating Oil culture /heat orn oybeans ugar		-56,260 -270,560 -110,318 5,144	73,439 43,017 66,056	-137,983 -32,618 -65,837	87,295 -33,353 67,901	263,600 190,817 -111,945	Industrial Meter Aluminum Aluminum - LN Aluminium - St Copper	۸E HFE	1,069,075 638,030 486,635	-57% 44% -7%	-5% -13% 3%	-18% -7% 37%	29 -22 8 9
asoline eating Oil culture d'heat orn oybeans ugar otton		-56,260 -270,560 -110,318 5,144 42,548	73,439 43,017 66,056 57,391	-137,983 -32,618 -65,837 20,237	87,295 -33,353 67,901 56,116	263,600 190,817 -111,945 99,224	Industrial Mete Aluminum Aluminum - LN Aluminium - SH Copper Copper - LME	ΛE HFE	1,069,075 638,030 486,635 232,225	-57% 44% -7% -5%	-5% -13% 3% 38%	-18% -7% 37% 57%	29 -22 8 9 62
asoline eating Oil culture /heat orn oybeans ugar otton offee		-56,260 -270,560 -110,318 5,144 42,548 -66,070	73,439 43,017 66,056 57,391 -6,579	-137,983 -32,618 -65,837 20,237 -66,410	87,295 -33,353 67,901 56,116 -38,341	263,600 190,817 -111,945 99,224 -50,188	Industrial Meta Aluminum Aluminum - LN Aluminium - SH Copper - LME Copper - SHFE	иЕ HFE	1,069,075 638,030 486,635 232,225 219,679	-57% 44% -7% -5% 24%	-5% -13% 3% 38% -16%	-18% -7% 37% 57% 83%	25 -22 8 5 62 47
asoline eating Oil culture (heat orn bybeans ugar otton offee bybean Oil		-56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628	73,439 43,017 66,056 57,391 -6,579 35,230	-137,983 -32,618 -65,837 20,237 -66,410 7,947	87,295 -33,353 67,901 56,116 -38,341 -2,844	263,600 190,817 -111,945 99,224 -50,188 -1,518	Industrial Meta Aluminum - LN Aluminium - SH Copper - LME Copper - SHFE Copper - CON	иЕ HFE	1,069,075 638,030 486,635 232,225 219,679 34,731	-57% 44% -7% -5% 24% -66%	-5% -13% 3% 38% -16% -20%	-18% -7% 37% 57% 83% -60%	25 -22 85 62 47 -78
asoline eating Oil culture /heat orn oybeans ugar otton offee oybean Oil ocoa		-56,260 -270,560 -110,318 5,144 42,548 -66,070	73,439 43,017 66,056 57,391 -6,579	-137,983 -32,618 -65,837 20,237 -66,410	87,295 -33,353 67,901 56,116 -38,341	263,600 190,817 -111,945 99,224 -50,188	Industrial Meta Aluminum - LN Aluminium - SH Copper - LME Copper - SHFE Copper - CO/ Nickel - LME	иЕ HFE	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634	-57% 44% -7% -5% 24% -66% -51%	-5% -13% 3% 38% -16% -20% -5%	-18% -7% 37% 57% 83% -60% -14%	29 -22 89 62 47 -78 - 2 1
asoline eating Oil culture /heat orn oybeans ugar otton offee oybean Oil occa strial Metals ⁵		-56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345	73,439 43,017 66,056 57,391 -6,579 35,230 24,852	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297	Industrial Meta Aluminum - LN Aluminium - SH Copper - LME Copper - SHFE Copper - CO/ Nickel - LME Zinc	иЕ HFE	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724	-57% 44% -5% 24% -66% -51% -70%	-5% -13% 3% -16% -20% -5% -1%	-18% -7% 37% 57% 83% -60% -14% 8%	2 -22 8 62 47 -78 -2 -2
asoline eating Oil culture /heat orn oybeans ugar otton offee oybean Oil occa strial Metals ⁵ opper (COMEX)		-56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 869	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918	Industrial Meta Aluminum - LN Aluminium - SH Copper - LME Copper - SHFE Copper - CO/ Nickel - LME Zinc Zinc - LME	иЕ HFE	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325	-57% 44% -5% 24% -66% -51% -70%	-5% -13% 3% 38% -16% -20% -5% -1% 55%	-18% -7% 37% 57% 83% -60% -14% 8% -29%	2 -22 82 62 47 -78 -2 -20 -4
asoline eating Oil culture d'heat orn oybeans gar otton offee opbean Oil occa strial Metals ⁵ opper (COMEX) opper (LME)		-56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 869 42,659	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486	Industrial Meta Aluminum - LN Aluminium - SH Copper - LME Copper - SHFE Copper - CO/ Nickel - LME Zinc Zinc - LME Zinc - SHFE	иЕ HFE	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325 79,399	-57% 44% -5% 24% -66% -51% -70% -79% -42%	-5% -13% 3% 38% -16% -20% -5% -1% 55% -28%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130%	2 -22 8 62 47 -78 -2 -2 -4 : 64
asoline eating Oil culture d'heat orn oybeans gar otton offee oybean Oil occa strial Metals ⁵ opper (COMEX) opper (LME) luminum		-56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 869 42,659 157,722	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065 157,477	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356 159,311	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070 187,331	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486 140,759	Industrial Meta Aluminum - LM Aluminium - Sł Copper - LME Copper - LME Copper - CO/ Nickel - LME Zinc - LME Zinc - SHFE Lead	иЕ HFE	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325 79,399 104,029	-57% 44% -5% 24% -66% -51% -70% -79% -42% -49%	-5% -13% 3% -16% -20% -5% -1% 55% -28% -10%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130% -1%	2 -2: 8 62 47 -78 -2 -2 -4 -4 -4 -4 -11
asoline eating Oil culture d'heat orn oybeans gar otton offee oybean Oil occa strial Metals ⁵ opper (COMEX) opper (LME) luminum		56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 869 42,659 157,722 20,523	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486	Industrial Meta Aluminum - LN Aluminium - Sł Copper - LME Copper - LME Copper - COł Nickel - LME Zinc - LME Zinc - SHFE Lead Lead - LME	иЕ HFE	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325 79,399	-57% 44% -5% 24% -66% -51% -70% -79% -42%	-5% -13% 3% 38% -16% -20% -5% -1% 55% -28%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130% -1% -4%	2 -2: 8 62 47 -78 -2 -2 -4 -4 -4 -4 -11
asoline eating Oil culture d'heat orn oybeans ugar otton offee oybean Oil occa strial Metals ⁶ opper (COMEX) opper (LME) luminum ickel		-56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 869 42,659 157,722	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065 157,477	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356 159,311	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070 187,331	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486 140,759	Industrial Meta Aluminum - LM Aluminium - Sł Copper - LME Copper - LME Copper - CO/ Nickel - LME Zinc - LME Zinc - SHFE Lead	иЕ HFE	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325 79,399 104,029	-57% 44% -5% 24% -66% -51% -70% -79% -42% -49%	-5% -13% 3% -16% -20% -5% -1% 55% -28% -10%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130% -1%	21 -22 83 62 47 -78 -21 -20 -47 64 -12 -33
asoline eating Oil culture d'heat orn oybeans Jgar otton offee oybean Oil occa strial Metals ⁵ opper (COMEX) opper (LME) luminum ickel nc		56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 869 42,659 157,722 20,523	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065 157,477 13,389	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356 159,311 20,947	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070 187,331 3,709	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486 140,759 21,781	Industrial Meta Aluminum - LN Aluminium - Sł Copper - LME Copper - LME Copper - COł Nickel - LME Zinc - LME Zinc - SHFE Lead Lead - LME	иЕ HFE	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325 79,399 104,029 74,700	-57% 44% -5% 24% -66% -51% -70% -79% -42% -49% -55%	-5% -13% 3% -16% -20% -5% -1% 55% -28% -10% -5%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130% -1% -4%	21 -22 83 62 47 -78 -21 -20 -47 -47 -47 -47 -47 -33 378
asoline eating Oil culture d'heat orn oybeans ugar ottan offee oybean Oil occa strial Metals ⁵ opper (COMEX) opper (LME) luminum ickel nc		56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 869 42,659 157,722 20,523 59,078	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065 157,477 13,389 46,207	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356 159,311 20,947 64,620	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070 187,331 3,709 45,153	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486 140,759 21,781 55,483	Industrial Meta Aluminum - LN Aluminium - SH Copper - LME Copper - LME Copper - CON Nickel - LME Zinc - LME Zinc - SHFE Lead Lead - LME Lead - SHFE	иЕ HFE	1,069,075 638,030 486,635 232,225 219, <i>6</i> 79 34,731 173,634 160,724 81,325 79,399 104,029 74,700 29,329	-57% 44% -5% 24% -66% -51% -70% -42% -42% -55% -20%	-5% -13% 3% 38% -16% -20% -5% -1% 55% -28% -10% -5% -21%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130% -1% -4% 7%	29 -22 89 62 47 -78 -21 -20 -47 64 -11 -33 379 -21
asoline eating Oil culture //heat orn bybeans ugar otton offee bybean Oil ocoa strial Metals ⁵ opper (COMEX) opper (LME) luminum ickel nc ead		56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 -2,345 -2,345 -2,345 -2,345 -2,345 -2,523 59,078 45,788	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065 157,477 13,389 46,207 51,295	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356 159,311 20,947 64,620 46,698	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070 187,331 3,709 45,153 45,946	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486 140,759 21,781 55,483 55,793	Industrial Meta Aluminum - LN Aluminium - SH Copper - LME Copper - LME Copper - COH Nickel - LME Zinc Zinc - LME Zinc - SHFE Lead Lead - LME Lead - SHFE Tin	иЕ HFE	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325 79,399 104,029 74,700 29,329 8,334	-57% 44% -5% 24% -66% -51% -79% -42% -42% -55% -20% -13%	-5% -13% 3% 38% -16% -20% -5% - 1% -28% -28% -10% -5% -21% -21%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130% -1% -4% 7% -4% 7% - 18%	29 -22 89 62 47 -78 -21 -20 -47 -47 -44 -11 -33 376 -21 -77
asoline eating Oil culture /heat orn oybeans ugar otton offee oybean Oil ocoa strial Metals ⁵ opper (COMEX) opper (LME) luminum ickel nc ead n		56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 -2,345 -2,345 -2,345 -2,345 -2,345 -2,523 59,078 45,788	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065 157,477 13,389 46,207 51,295	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356 159,311 20,947 64,620 46,698	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070 187,331 3,709 45,153 45,946	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486 140,759 21,781 55,483 55,793	Industrial Meta Aluminum - LN Aluminium - SH Copper - LME Copper - LME Copper - CON Nickel - LME Zinc - LME Zinc - LME Lead - LME Lead - LME Lead - SHFE Tin Tin - LME	иЕ HFE	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325 79,399 104,029 74,700 29,329 8,334 905	-57% 44% -7% -5% 24% -66% -51% -79% -42% -42% -55% -20% -13% -82%	-5% -13% 3% 38% -16% -20% -5% -1% -28% -10% -5% -21% -9% -10%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130% -1% -4% 7% -18% -52%	29 -22 89 62 47 -78 -21 -20 -47 -47 -44 -11 -33 376 -21 -77
asoline eating Oil culture //heat orn oybeans ugar otton offee oybean Oil ocoa strial Metals ⁵ opper (COMEX) opper (LME) luminum lickel nc ead n		56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 869 42,659 157,722 20,523 59,078 45,788 7,947	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065 157,477 13,389 46,207 51,295 7,858	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356 159,311 20,947 64,620 46,698 9,375	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070 187,331 3,709 45,153 45,946 7,035	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486 140,759 21,781 55,483 55,793 7,991	Industrial Meta Aluminum - LN Aluminium - SH Copper - LME Copper - SHFE Copper - CON Nickel - LME Zinc - LME Zinc - SHFE Lead - LME Lead - SHFE Lead - SHFE Tin - LME Tin - LME Tin - SHFE	AE iFE MEX	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325 79,399 104,029 74,700 29,329 8,334 905	-57% 44% -7% -5% 24% -66% -51% -79% -42% -42% -55% -20% -13% -82%	-5% -13% 3% 38% -16% -20% -5% -1% -28% -10% -5% -21% -9% -10%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130% -1% -4% 7% -18% -52%	29 -22 47 -78 -21 -20 -47 -47 -47 -33 377 -21 -77
asoline eating Oil culture //heat corn bybeans ugar cotton coffee bybean Oil cocoa striat Metals ⁵ copper (COMEX) copper (LME) luminum ickel nc ead n cous Metals cold liver		56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 -2,345 -2,345 -2,345 -2,345 -2,345 -2,523 59,078 45,788 7,947	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065 157,477 13,389 46,207 51,295 7,858	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356 159,311 20,947 64,620 46,698 9,375	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070 187,331 3,709 45,153 45,946 7,035	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486 140,759 21,781 55,483 55,793 7,991	Industrial Meta Aluminum - LN Aluminium - SH Copper - LME Copper - SHFE Copper - CON Nickel - LME Zinc - LME Zinc - SHFE Lead - LME Lead - LME Lead - SHFE Tin Tin - LME Tin - SHFE Agriculture	AE iFE MEX	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325 79,399 104,029 74,700 29,329 8,334 905 7,429	-57% 44% -7% -5% 24% -66% -51% -79% -42% -42% -49% -20% -13% -82% 68%	-5% -13% 3% 38% -16% -20% -5% -1% -28% -28% -28% -28% -21% -5% -21% -9%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130% -1% -4% 7% -18% -52% -10%	229 -222 85 62 47 -78 -21 -20 -47 -47 -47 -47 -47 -33 378 -21 -71 05
asoline eating Oil culture /heat orn oybeans ugar otton offee oybean Oil occa strial Metals ⁵ opper (COMEX) opper (COMEX) opper (LME) luminum ickel nc ead n cious Metals old lver iatinum		56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 -2,345 -2,345 -2,345 -2,345 -2,345 -2,523 59,078 45,788 7,947 -3,071	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065 157,477 13,389 46,207 51,295 7,858 134,276 36,219	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356 159,311 20,947 64,620 46,698 9,375 137,125 26,627	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070 187,331 3,709 45,153 45,946 7,035 28,404 -5,651	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486 140,759 21,781 55,483 55,793 7,991	Industrial Meta Aluminum - LN Aluminium - SH Copper - LME Copper - SHFE Copper - CON Nickel - LME Zinc - LME Zinc - SHFE Lead - LME Lead - LME Lead - LME Lead - SHFE Tin - LME Tin - SHFE Agriculture Wheat - USDA	AE iFE MEX	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325 79,399 104,029 74,700 29,329 8,334 905 7,429	-57% 44% -7% -5% 24% -66% -79% -79% -42% -49% -20% -13% -82% 68%	-5% -13% 3% 38% -16% -20% -5% -28% -10% -21% -9% -10% -9%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130% -1% -4% 7% -1% -52% -10%	222 -222-222 -222-22 -22 -22 -22 -22 -2
asoline eating Oil culture //heat orn oybeans ugar otton offee oybean Oil occoa strial Metals ⁵ opper (COMEX) opper (COMEX) opper (LME) luminum ickel nc ead n icious Metals iold lver tatinum alladium		56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 -2,345 -2,345 -2,345 -2,345 -2,345 -2,523 59,078 45,788 7,947 -3,071 32,468	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065 157,477 13,389 46,207 51,295 7,858 134,276 36,219 25,344	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356 159,311 20,947 64,620 46,698 9,375 137,125 26,627 25,619	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070 187,331 3,709 45,153 45,946 7,035 28,404 -5,651 12,840	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486 140,759 21,781 55,793 7,991 141,913 10,307 17,714	Industrial Meta Aluminum - LN Aluminium - SH Copper - LME Copper - SHFE Copper - CON Nickel - LME Zinc - LME Zinc - SHFE Lead - LME Lead - LME Lead - SHFE Tin - LME Tin - SHFE Agriculture Wheat - USDA	AE iFE MEX	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325 79,399 104,029 74,700 29,329 8,334 905 7,429 275,610 314,010	-57% 44% -5% 24% -66% -51% -79% -42% -42% -49% -55% -20% -13% -82% 68%	-5% -13% 3% -16% -20% -5% -1% 55% -28% -28% -28% -28% -21% -9% -21% -9% -10% -9%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130% -1% -4% 7% -18% -52% -10%	222 -222-222 -222-22 -222 -22 -22 -22 -
asoline eating Oil culture //heat corn bybeans ugar cotton coffee bybean Oil cocoa copper (COMEX) copper (COMEX) copper (LME) luminum ickel nc ead n cious Metals cold lver latinum alladium stock		-56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 869 42,659 157,722 20,523 59,078 45,788 7,947 36,022 -3,071 32,468 8,962	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065 157,477 13,389 46,207 51,295 7,858 134,276 36,219 25,344 14,832	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356 159,311 20,947 64,620 46,698 9,375 137,125 26,627 25,619 12,193	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070 187,331 3,709 45,153 45,946 7,035 28,404 -5,651 12,840 13,600	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486 140,759 21,781 55,483 55,793 7,991 141,913 10,307 17,714 11,178	Industrial Meta Aluminum - LM Aluminium - Sł Copper - LME Copper - LME Copper - CON Nickel - LME Zinc - LME Zinc - SHFE Lead Lead - LME Lead - LME Lead - SHFE Tin Tin - LME Tin - SHFE Metat - USDA Corn - USDA Soybeans - US	AE HFE MEX	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325 79,399 104,029 74,700 29,329 8,334 905 7,429 275,610 314,010 107,360 52,850	-57% 44% -5% 24% -66% -51% -79% -42% -42% -49% -55% -20% -13% -82% -82% -82% -82% -82% -82% -82% -82	-5% -13% 3% -16% -20% -5% -1% -5% -28% -28% -21% -9% -10% -9% 1.0% -9%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130% -1% -4% 7% -18% -52% -10% 2.8% 1.7% -6.9% -	-88 29 -22 85 622 -22 85 622 -22 -22 -22 -22 -22 -21 -22 -47 -47 -47 -64 -47 -47 -64 -47 -71 -05 -5.5.5.5 -22 -22 -22 -22 -22 -22 -22 -22 -22 -2
asoline eating Oil culture //heat iorn bybeans ugar iothon iooffee bybean Oil iocoa istrial Metals ⁵ copper (COMEX) ioopper (COMEX) ioopper (LME) luminum ickel nc ickel nc icious Metals ioold lver latinum alladium		56,260 -270,560 -110,318 5,144 42,548 -66,070 -29,628 -2,345 -2,345 -2,345 -2,345 -2,345 -2,345 -2,523 59,078 45,788 7,947 -3,071 32,468	73,439 43,017 66,056 57,391 -6,579 35,230 24,852 3,616 40,065 157,477 13,389 46,207 51,295 7,858 134,276 36,219 25,344	-137,983 -32,618 -65,837 20,237 -66,410 7,947 -31,483 3,795 37,356 159,311 20,947 64,620 46,698 9,375 137,125 26,627 25,619	87,295 -33,353 67,901 56,116 -38,341 -2,844 -22,679 8,648 48,070 187,331 3,709 45,153 45,946 7,035 28,404 -5,651 12,840	263,600 190,817 -111,945 99,224 -50,188 -1,518 60,297 40,918 50,486 140,759 21,781 55,793 7,991 141,913 10,307 17,714	Industrial Meta Aluminum - LM Aluminium - SH Copper - LME Copper - LME Copper - CON Nickel - LME Zinc - LME Zinc - SHFE Lead Lead - LME Lead - LME Lead - SHFE Tin Tin - LME Tin - SHFE Mheat - USDA Corn - USDA Soybeans - USDA	ne HFE MEX	1,069,075 638,030 486,635 232,225 219,679 34,731 173,634 160,724 81,325 79,399 104,029 74,700 29,329 8,334 905 7,429 275,610 314,010 107,360	-57% 44% -5% 24% -66% -51% -79% -42% -42% -49% -55% -20% -13% -82% 68%	-5% -13% 3% -16% -20% -5% -1% 55% -28% -28% -28% -28% -21% -9% -10% -9% -10% -9%	-18% -7% 37% 57% 83% -60% -14% 8% -29% 130% -1% -4% 7% -18% -52% -10% 2.8% 1.7% -6.9%	222 -222-222 -222-22 -222 -22 -22 -22 -

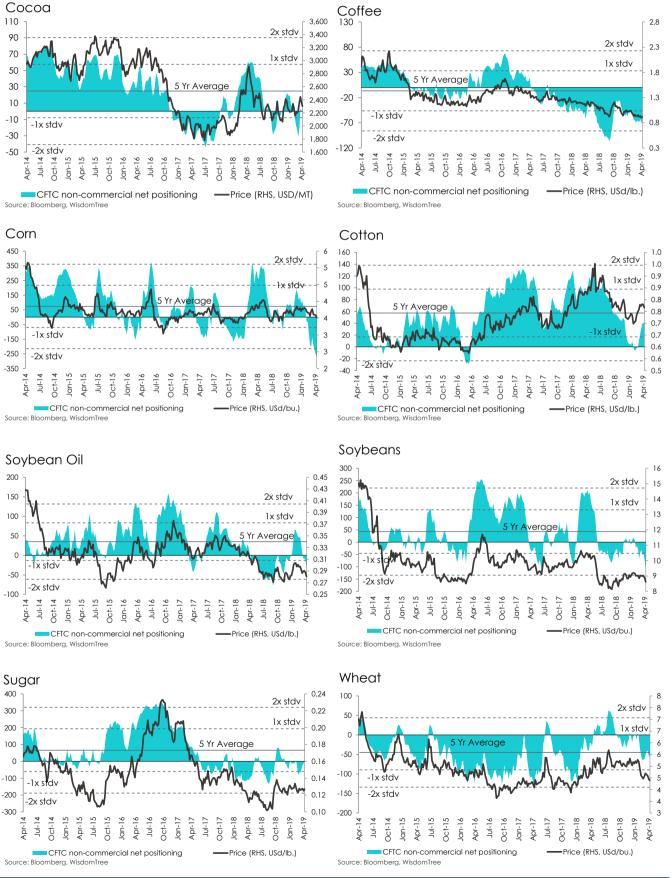
1Performance of front month futures from 29 Apr 18 (1 Year), 29 Oct 18 (6 Month), 29 Jan 19 (3 Month) and 29 Mar 19 (1 Month) to 29 Apr 19. 2Roll return non-annualised from front month futures into second "month on 29 Jan 19 (3 Month), 29 Mar 19 (1 Month), 23 Apr 19 (1 Week), 29 Apr 19.

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 = Jan 2019. Historical performance is not an indication of future performance and any investments may go down in value.



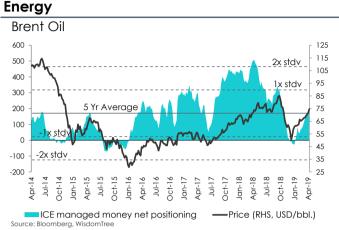
CFTC Speculative Net Long Futures Positions





Note: positioning in '000 contracts. Standard deviation based on 5 year average CFTC non-commercial net positioning All commodity futures price data is denominated in USD unless otherwise indicated.



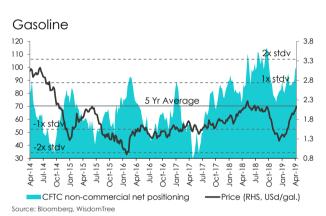






CFTC non-commercial net positioning —Price (RHS, USD/MMBtu) Source: Bloomberg, WisdomTree



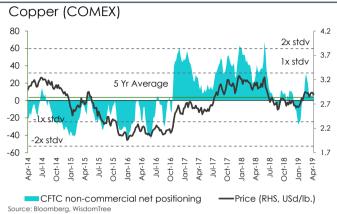


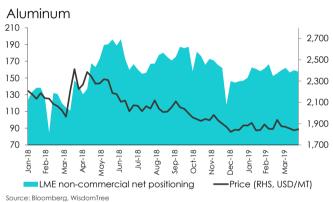
Heating Oil





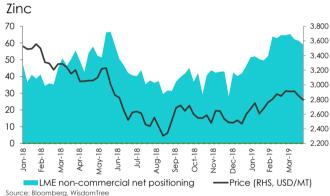
Industrial Metals



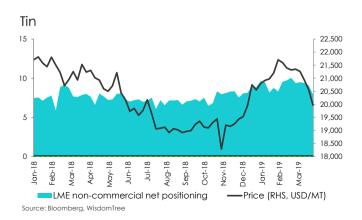


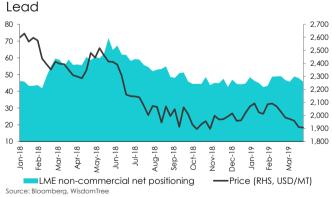
Copper (LME) 70 7,400 7.200 60 7,000 50 6,800 40 6,600 6,400 30 6,200 20 6.000 10 5.800 0 5,600 Jan-18 Apr-18 Aug-18 🛔 Sep-18 ß 8 Jun-18 Jul-18 20 6 Feb-19 6 20 8 Oct-18 Feb. Mar-] May-Nov-Dec-Jan Mar-] Price (RHS, USD/MT) LME non-commercial net positioning

Source: Bloomberg, WisdomTree





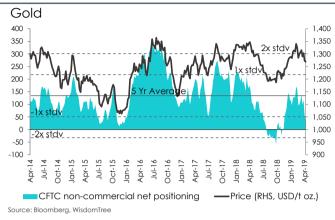


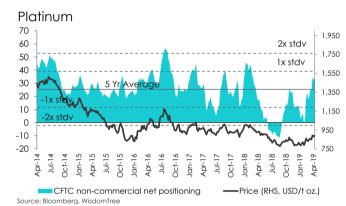


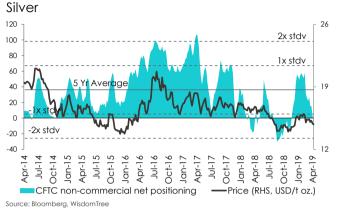
Note: positioning in '000 contracts. Standard deviation based on 5 year average CFTC non-commercial net positioning. LME non-commercial net positions from 30 January 2018 post MIFID II data and respective graphs represent daily data. All commodity futures price data is denominated in USD unless otherwise indicated. Historical performance is not an indication of future performance and any investments may go down in value. 7

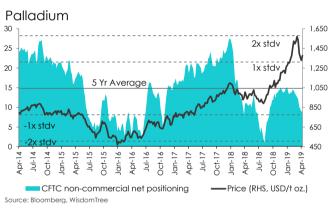


Precious Metals

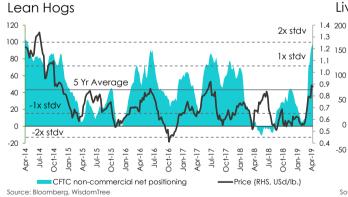








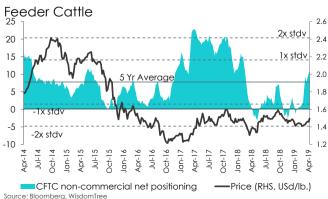
Livestock



1.0 100 50

Live Cattle





Note: positioning in '000 contracts. Standard deviation based on 5 year average CFTC non-commercial net positioning, respective graphs represent daily data. All commodity futures 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.

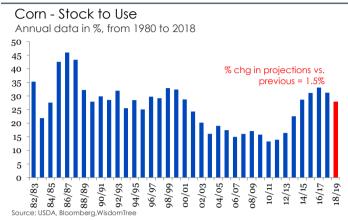
1.8

2x stdv

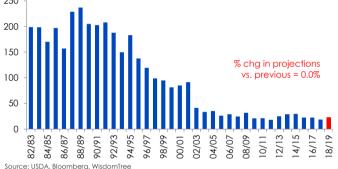


Inventories

Agriculture



Coffee - Stock to Use Annual data in %, from 1980 to 2018



Cotton - Stock to Use

Annual data in %, from 1980 to 2018



Soybeans - Stock to Use Annual data in %, from 1980 to 2018





Corn - Ending Stocks Annual data in mln tons, from 1980 to 2018 400 350 chg in projections vs. previous = 5.2 300 250 200 150 100 50

98/99

00/01 02/03 04/05 06/07

76/96

08/09

11/01 12/13 14/15 6/17 8/19



92/93 94/95

90/91

Wisdo

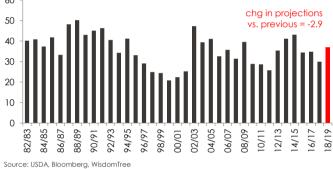
0

Source

84/85 86/87 88/89

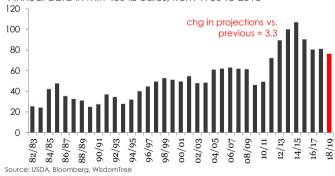
82/83

Annual data in mln bags (60 kg), from 1980 to 2018

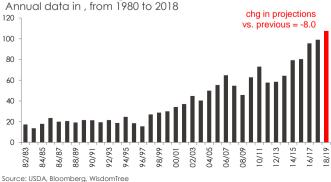


Cotton - Ending Stocks

Annual data in mln 480 lb Bales, from 1980 to 2018

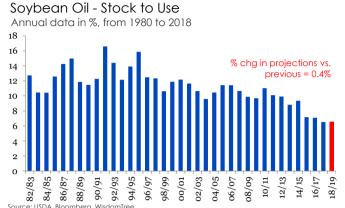


Soybeans - Ending Stocks

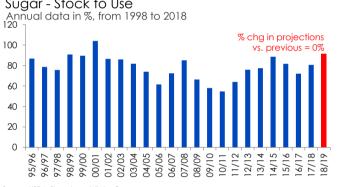


Note: Ending stocks, inventories and stock to use data from the USDA are annual with monthly update of 2017/2018 estimates













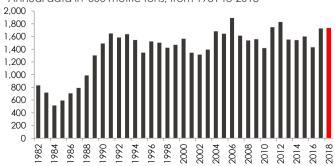
Cocoa - Inventory

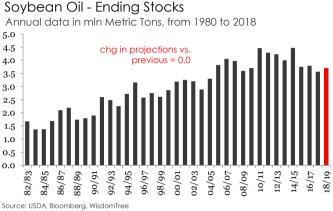
Source: Inte



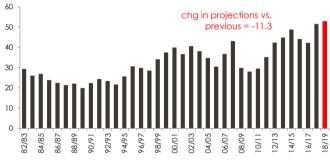
Organisation

Bloc





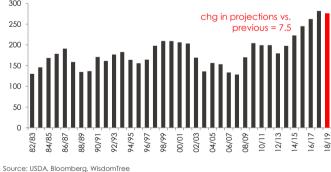
Sugar - Ending Stocks Annual data in mIn Metric Tons, from 1980 to 2018



Source: USDA, Bloomberg, WisdomTree

Wheat - Ending Stocks

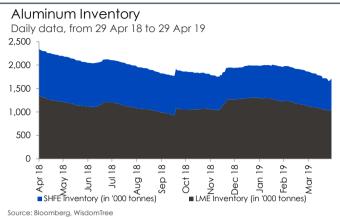
Annual data in mln tons, from 1980 to 2018 $_{300}$



rg, WisdomTree

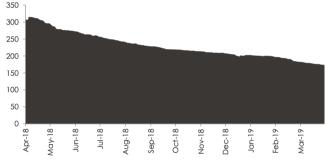


Industrial Metals



Nickel Inventory

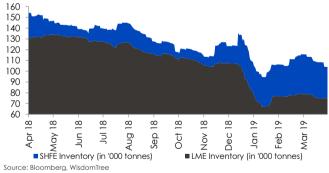
Daily data in '000 MT, from 29 Apr 18 to 29 Apr 19



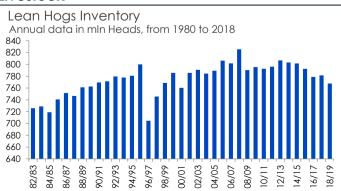
Source: LME, Bloomberg, WisdomTree

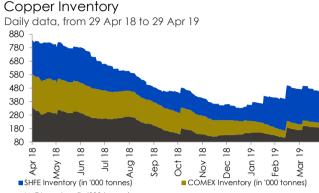
Lead Inventory

Daily data, from 29 Apr 18 to 29 Apr 19



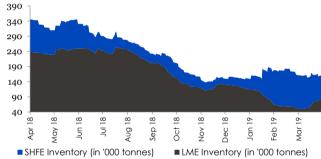
Livestock





■LME Inventory (in '000 tonnes) ce: Bloomberg, WisdomTree Source

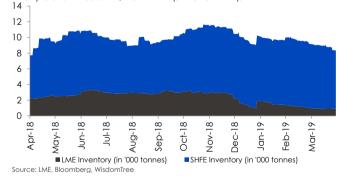
Zinc Inventory Daily data, from 29 Apr 18 to 29 Apr 19



Source: Bloomberg, WisdomTree

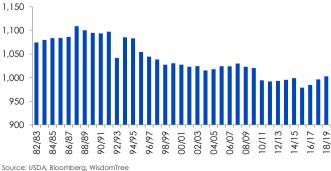
Tin Inventory

Daily data in '000 MT, from 29 Apr 18 to 29 Apr 19



Live Cattle Inventory

Annual data in mln Heads, from 1980 to 2018

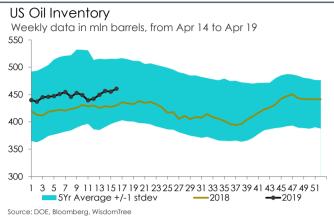


Source: USDA, Bloomberg,

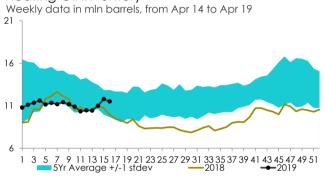
Note: Ending stocks, inventories and stock to use data from the USDA are annual with monthly update of 2017/2018 estimates.



Energy



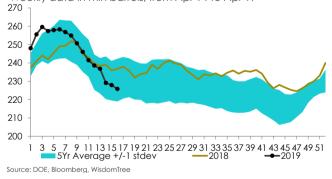
Heating Oil Inventory



Source: DOE, Bloomberg, WisdomTree

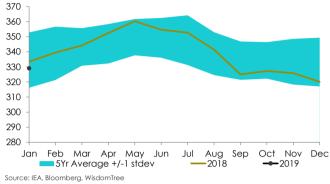
Gasoline Inventory

Weekly data in mln barrels, from Apr 14 to Apr 19



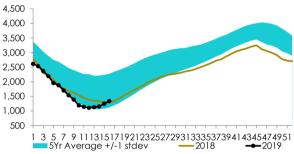
OECD Europe Oil Industry Inventory

Monthly data in mln barrels, from Jan 14 to Oct 18



Natural Gas Inventory

Weekly data in billion cubic feet, from Apr 14 to Apr 19

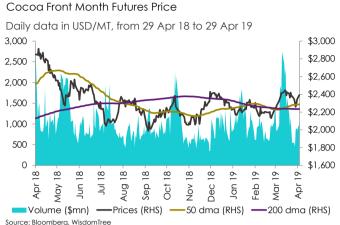


Source: DOE, Bloomberg, WisdomTree



Commodities Front Month Futures and Trading Volumes

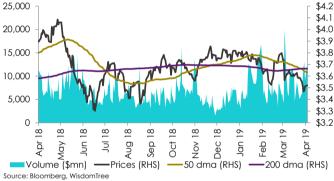
Agriculture



coolect blockbolg, machined

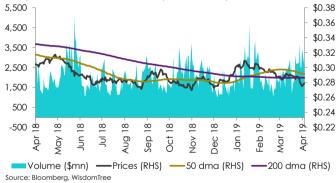
Corn Front Month Futures Price

Daily data in USd/bu., from 29 Apr 18 to 29 Apr 19 25,000 $\ensuremath{\urcorner}$



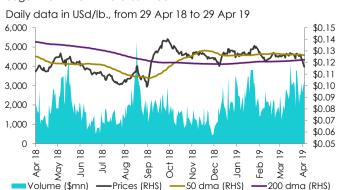
Soybean Oil Front Month Futures Price

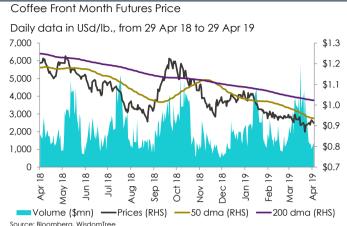
Daily data in USd/lb., from 29 Apr 18 to 29 Apr 19



Sugar Front Month Futures Price

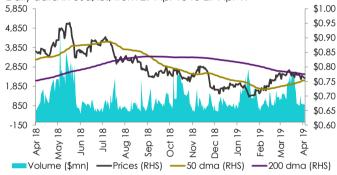
Source: Bloomberg, WisdomTree





Cotton Front Month Futures Price

Daily data in USd/lb., from 29 Apr 18 to 29 Apr 19



Source: Bloomberg, WisdomTree

Soybeans Front Month Futures Price

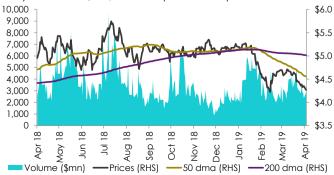
Daily data in USd/bu., from 29 Apr 18 to 29 Apr 19



Wheat Front Month Futures Price

Source: Bloomberg, WisdomTree

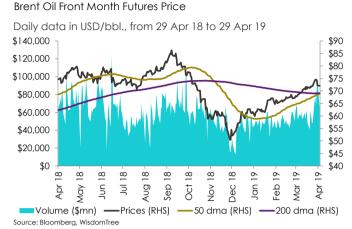
Daily data in USd/bu., from 29 Apr 18 to 29 Apr 19



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

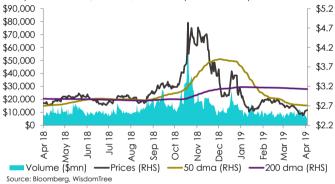


Energy



Natural Gas Front Month Futures Price

Daily data in USD/MMBtu, from 29 Apr 18 to 29 Apr 19



Heating Oil Front Month Futures Price

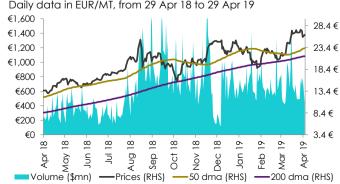
Daily data in USd/gal., from 29 Apr 18 to 29 Apr 19



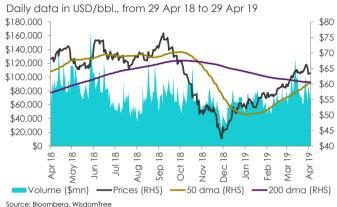


Source: Bloomberg, WisdomTree



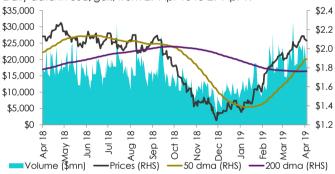


WTI Oil Front Month Futures Price





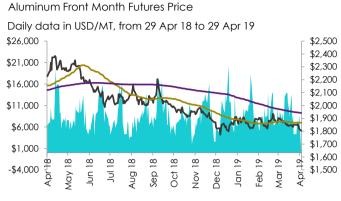
Daily data in USd/gal., from 29 Apr 18 to 29 Apr 19



Source: Bloomberg, WisdomTree



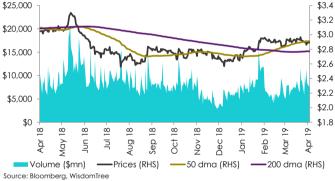
Industrial Metals



-Prices (RHS) -50 dma (RHS) -200 dma (RHS) Volume (\$mn) – Source: Bloomberg, WisdomTree

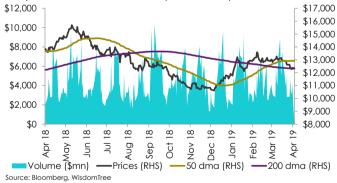
Copper (COMEX) Front Month Futures Price

Daily data in USd/lb., from 29 Apr 18 to 29 Apr 19 \$25.000



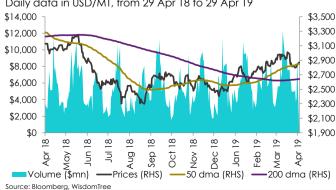
Nickel Front Month Futures Price

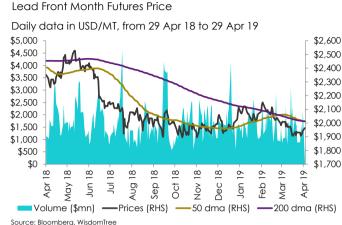
Daily data in USD/MT, from 29 Apr 18 to 29 Apr 19



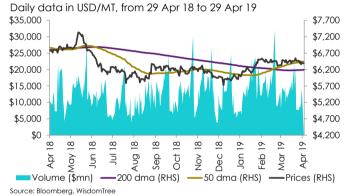
Zinc Front Month Futures Price





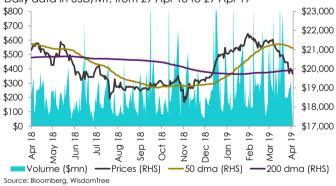


Copper (LME) Front Month Futures Price



Tin Front Month Futures Price

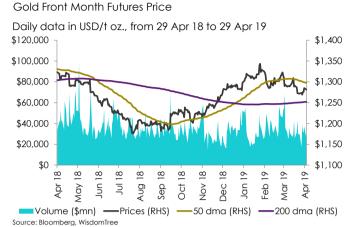
Daily data in USD/MT, from 29 Apr 18 to 29 Apr 19



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.

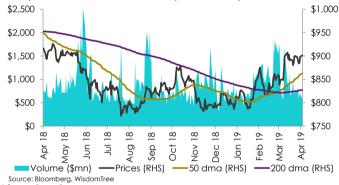


Precious Metals



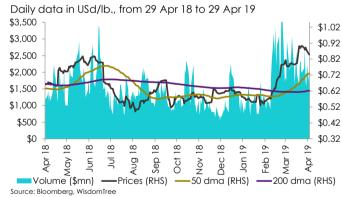
Platinum Front Month Futures Price

Daily data in USD/t oz., from 29 Apr 18 to 29 Apr 19



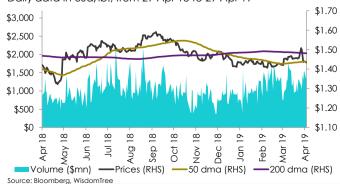
Livestock

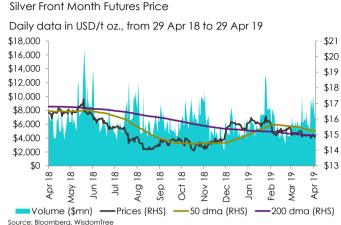
Lean Hogs Front Month Futures Price



Feeder Cattle Front Month Futures Price

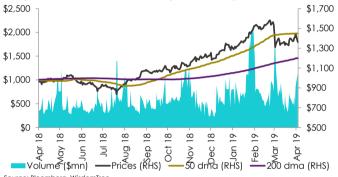
Daily data in USd/lb., from 29 Apr 18 to 29 Apr 19





Palladium Front Month Futures Price

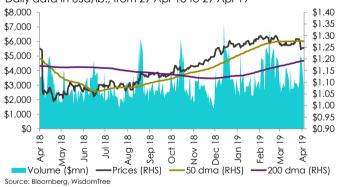
Daily data in USD/t oz., from 29 Apr 18 to 29 Apr 19



Source: Bloomberg, WisdomTree

Live Cattle Front Month Futures Price

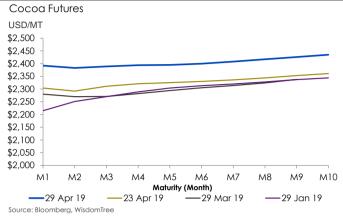
Daily data in USd/lb., from 29 Apr 18 to 29 Apr 19



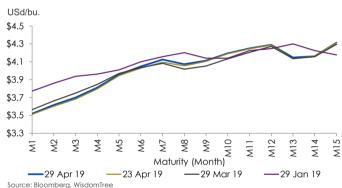


Futures Curves

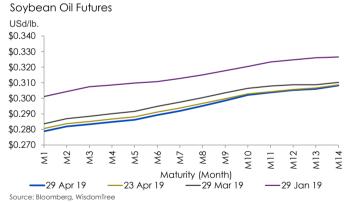
Agriculture

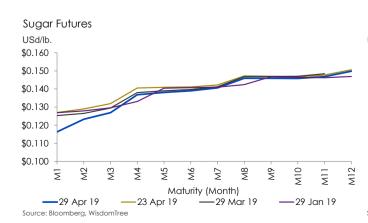


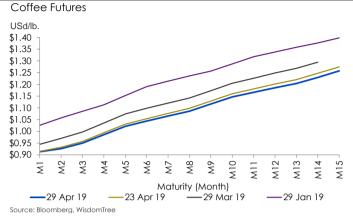




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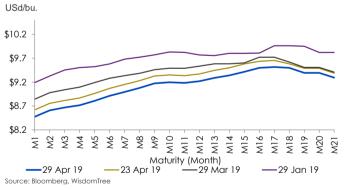




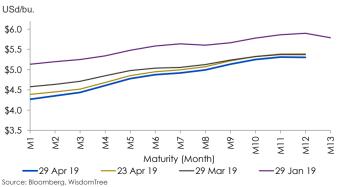




Soybeans Futures

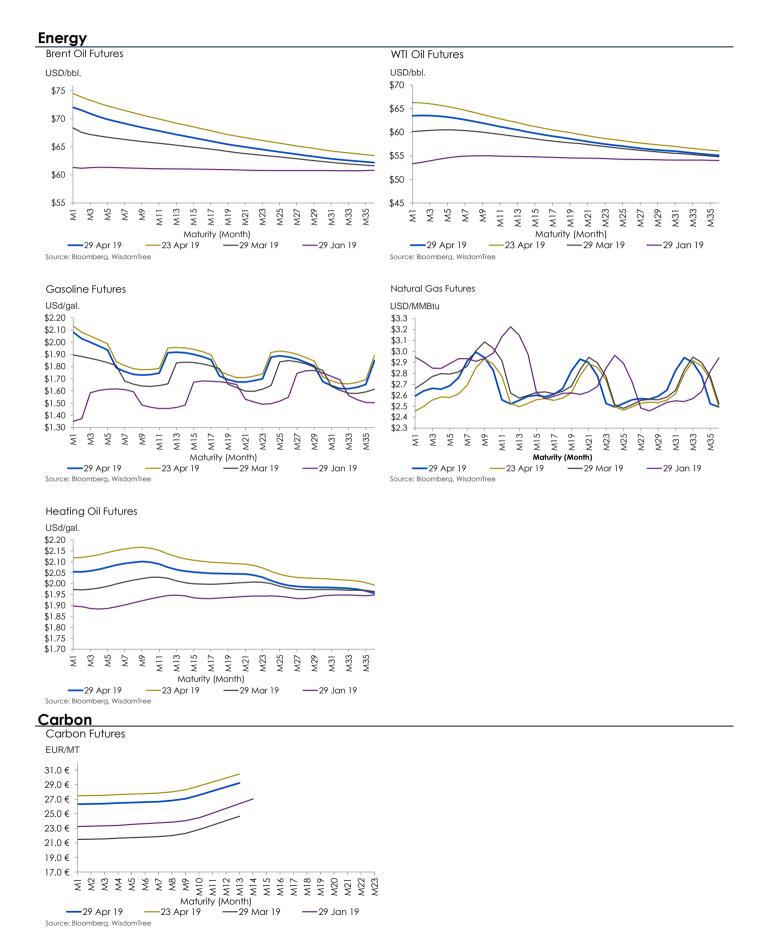


Wheat Futures



Note: all commodity futures 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.

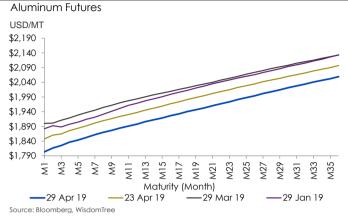




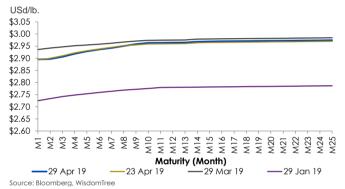
Note: all commodity futures price data is denominated in USD unless otherwise indicated. Historical performance is not an indication of future performance and any investments may go down in value.



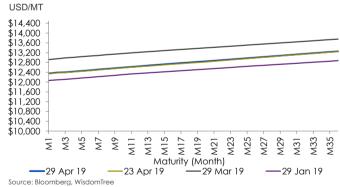
Industrial Metals

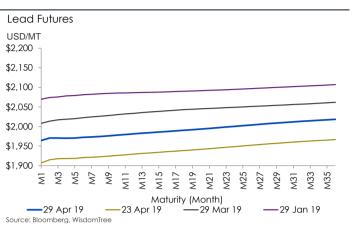




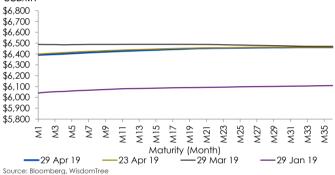


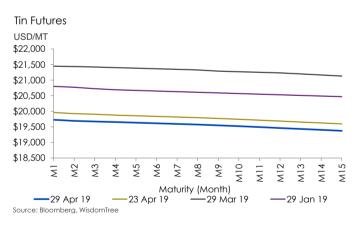




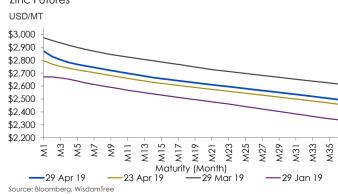








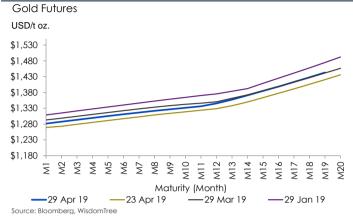




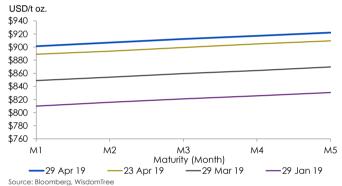
Note: all commodity futures price data is denominated in USD unless otherwise indicated. Historical performance is not an indication of future performance and any investments may go down in value.

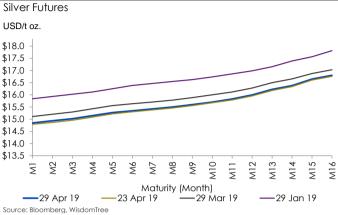


Precious Metals

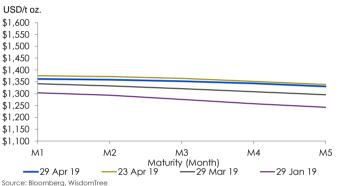




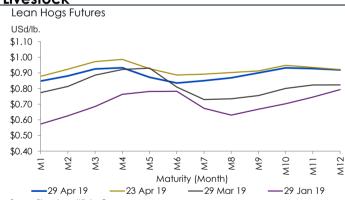






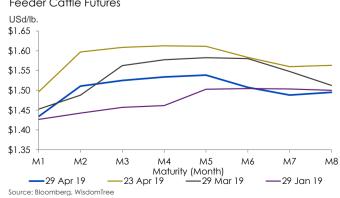


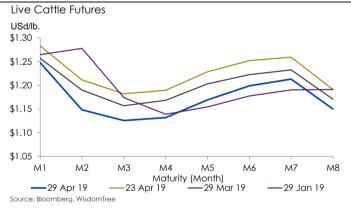
<u>Livestock</u>



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 - R	ecent Blogs							
30-Apr-19	Lidia Treiber		Turning the coin over on negative bond yields with yield enhancing solutions					
23-Apr-19	Aneeka Gupta	נ	Electric Vehicle adoption to augment commodity demand					
17-Apr-19	Gaurav Sinha		India: Observations from the ground					
15-Apr-19	Nitesh Shah		Gold: how we value the precious metal					
10-Apr-19	Lidia Treiber		The rise of floating rate notes					
08-Apr-19	Aneeka Gupta		Electric Vehicles are ICEing traditional cars					
04-Apr-19	Aneeka Gupta		Coffee Outlook: Plentiful supply and prices down					
01-Apr-19	Christopher Gannatti		Fixed income investors have a problem					
27-Mar-19	Christopher Go	annatti	Brexit's impact for equity investors					
19-Mar-19	Lidia Treiber		Can AT1 CoCos be the better way to play the European bank trade?					
13-Mar-19	Kevin Flanagan		Manufacturing a slowdown					
11-Mar-19	Christopher Gannatti		China's supremacy in Artificial Intelligence may be greatly exaggerated					
06-Mar-19	ar-19 WisdomTree		Take your currency bets off the table					
WisdomTree - Past Issues of Commodity Monthly Monitor								
Feb - Mar 2019	Research Tean	n	Dovish Fed counters a delayed trade deal					
Nov - Feb 2019	ov - Feb 2019 Research Team		<u>Commodities – a phoenix rising from the ashes</u>					
Oct - Nov 2018	Oct - Nov 2018 Research Team		G-20 sets tone for further upside					
Sept - Oct 2018	Sept - Oct 2018 Research Team		Past peak bearishness					
Aug - Sept 2018	Aug - Sept 2018 Research Team		Supply tightness aids cyclical commodities					
The research notes are for qualified investors only.								
Key Reports								
Current	Next release							
09-Apr-19	10-May-19	USDA	World Agricultural Supply and Demand Estimates					
09-Apr-19	07-May-19	EIA	Short-Term Energy Outlook					

DISCLAIMER

10-Apr-19

11-Apr-19

Important Information

14-May-19

15-May-19

OPFC.

IEA

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OPEC Oil Market Report

IEA Oil Market Report

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