

The Demand Drivers for US Cattle Industry

2019/20 Ag Market Themes



- World Political/Economic "Order" is becoming "Disorder!" Regional Trade protectionism adds to ag market volatility going forward. We have Brexit, President Trump, Xi, Putin, Macri (Fernandez?) and Bolsonaro mixing politics into ag trading. Makes regional outlooks more difficult into 2020. It's about Nationalization not Globalization!
- China and the US are working on a bilateral Trade Deal that could mandate that China secure \$35-50 Bil Plus of US ag goods annually. This would include US corn, ethanol, wheat, meats and a host of other ag products. China initially said Yes and then No to a deal that took 6 months to negotiate. The odds that US/China cut a trade deal ahead of the 2020 US Presidential election are low! Yet, the US could push China to make periodic commodity purchases to forestall new US tariffs on \$500 Bil of Chinese goods. Today, China has a total ban on US ag imports so tariffs are of little importance!
- World weather patterns are changing. Climate change is real and starting to be better understood by science. Learning point; there will more areas that endure acute flooding and drought in the years ahead. If one wants to be bullish of US ag, you need adverse weather in South America, the EU or Black Sea.
- Historically wet spring weather has reduced the 2019 US soy crop by 470 Mil Bu and US corn crop 1.2 Bil Bu (from the May WASDE). Upside price risks remain into early Autumn with a secondary short crop top due in October. The US grain/feed markets are caught between large world crops (slow US export demand), trade disputes and failing US summer row crop production. The old saying that "short crops have long tails" will apply this year. Producers will want to use CBOT rallies to sell 2020 and 2021 crops at profitable margins. The outlook for the US grain farmer is pretty grim for the next 2-3 years.

2019/20 Ag/Beef Market Themes

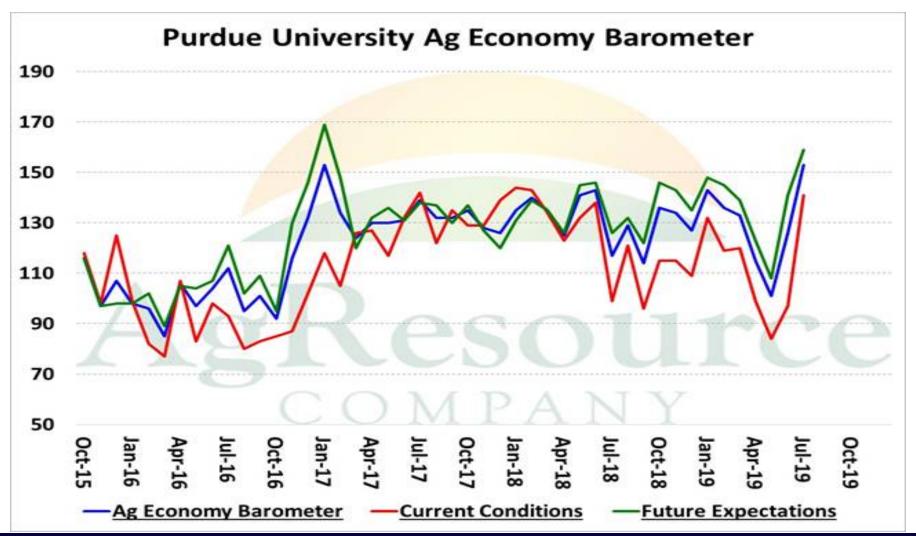


- African Swine Fever (ASF) is dramatically impacting the China hog herd with losses so far estimated at 30-50%. China soybean imports to slow going forward with 2019/20 imports estimated at 75-80 MMTs. From the 2018/19 WASDE forecast, China soybean imports to drop 22-26 MMTs annually.
- Today the US Cattle Market is struggling between the uncertainty of politics (trade) amid record large domestic beef demand and rising non-US Beef/pork prices. AgResource research argues that a seasonal low formed last week following the Tyson KS fire. A tightening US fed cattle supply starts in late September which will underpin cash cattle prices into early 2020. ARC targets a return to \$120-124 for 2020 early seasonal high without a US/China trade deal.
- The next 5 years offers a positive outlook for meats/bearish for the soy/grain amid differing trade opportunities. At some point, China ASF will shift world meat trade flows back to the US.



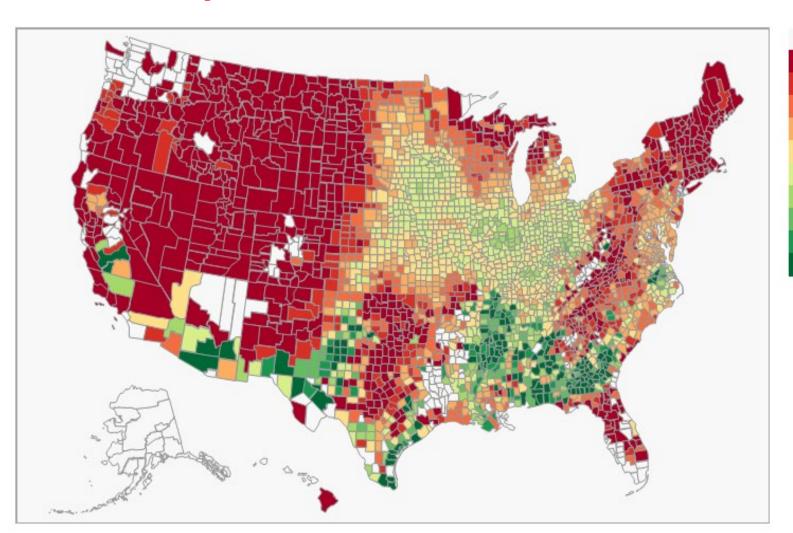
AgRes

Farmers Turned Bullish Basis Rising CBOT and MFP Payments



Delta and SE US Enjoying Largest MFP Payments \$85-150/acre

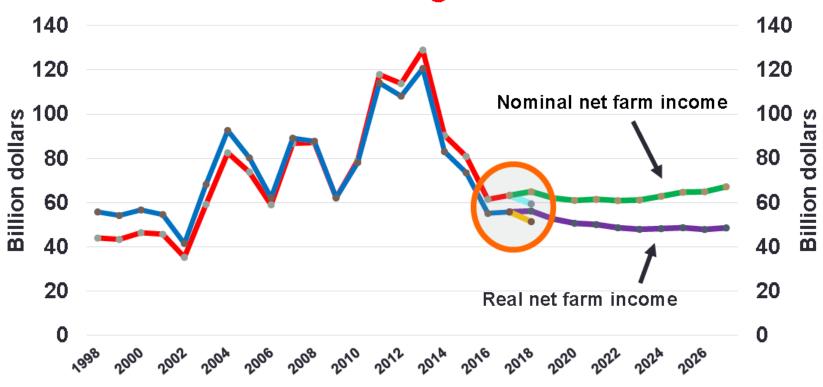




AgResource

US Net Farm Income Forecast to Be Stagnant into 2028

Real net farm income falling



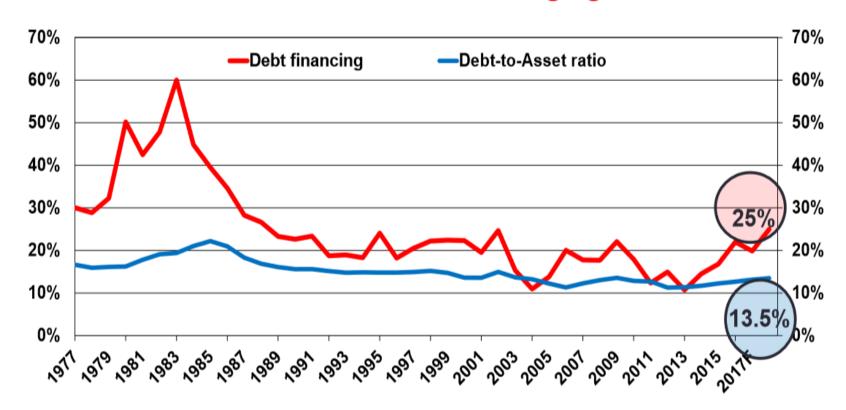
Data: USDA

Rising Pressure on the US Banker – Debt Financing Rising Sharply



Debt-to-assets remain low --- 13.5%

but debt financing highest since 1988



Data: USDA-ERS

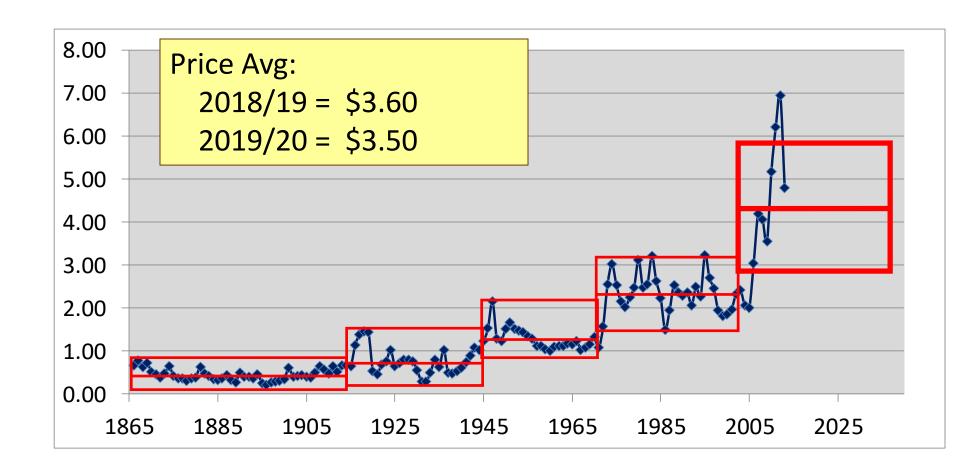
US Ag's Need For a Lasting Recovery? AgResource **A New Demand Driver!**





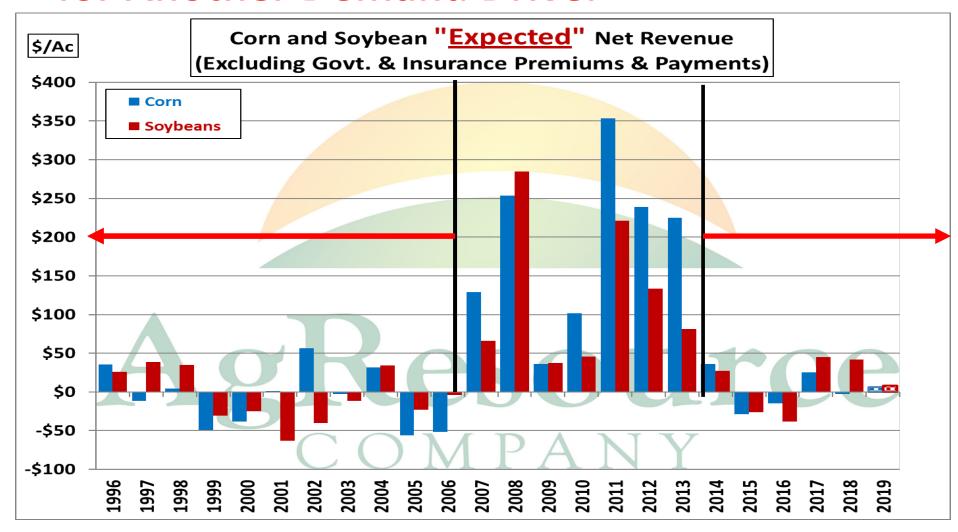
US Yearly Corn Prices - Plateau Theory (Nominal Corn Prices, 1866-2016)





US Farmer Net Revenue Shows Need for Another Demand Driver

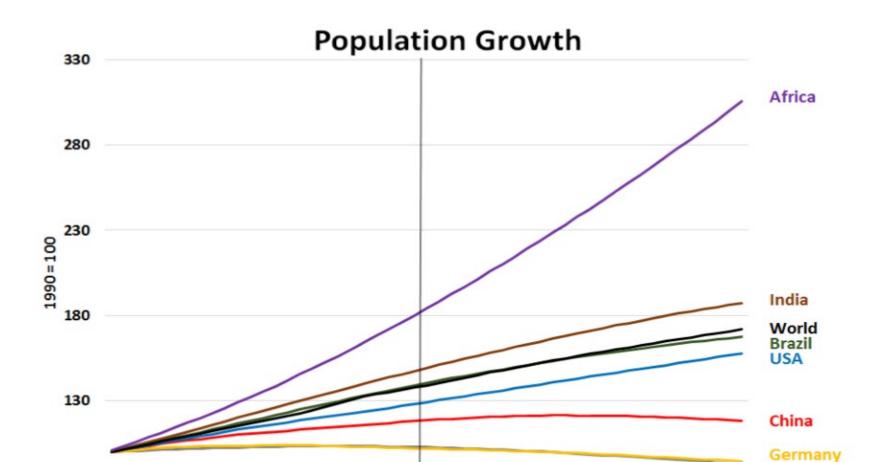




Long Term; Africa has to Drive Enlarged Wheat Demand

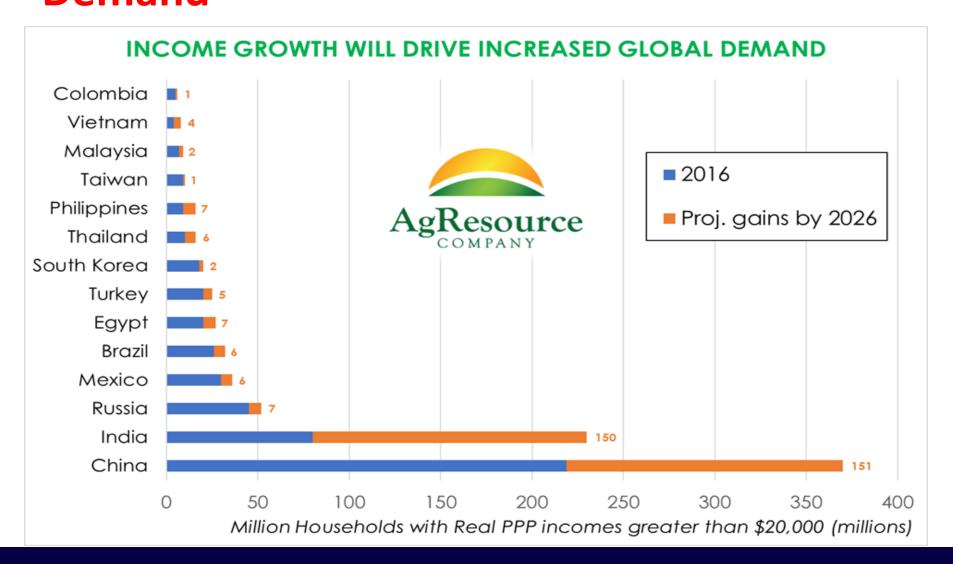


Japan



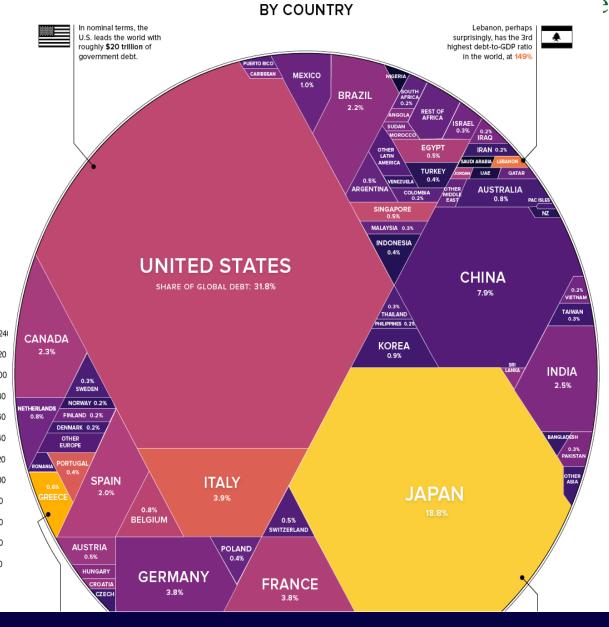
Income Growth To Push Global Food Demand





Percentage of World Debt

A World Awash Debt!



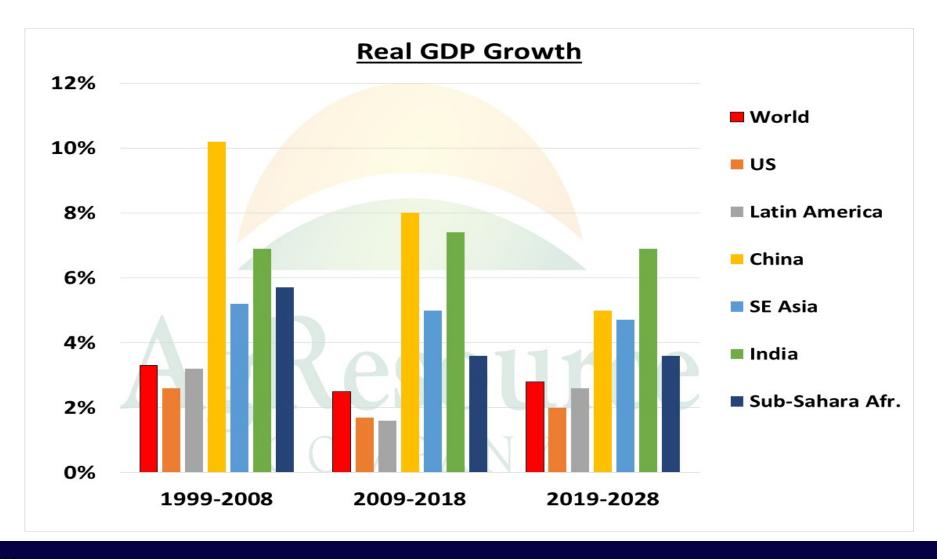
Global debt climbed by 42 percent in the fourth quarter from a decade earlier

Non-financial corporates Government Financial corporates Households

A \$237 Trillion Record

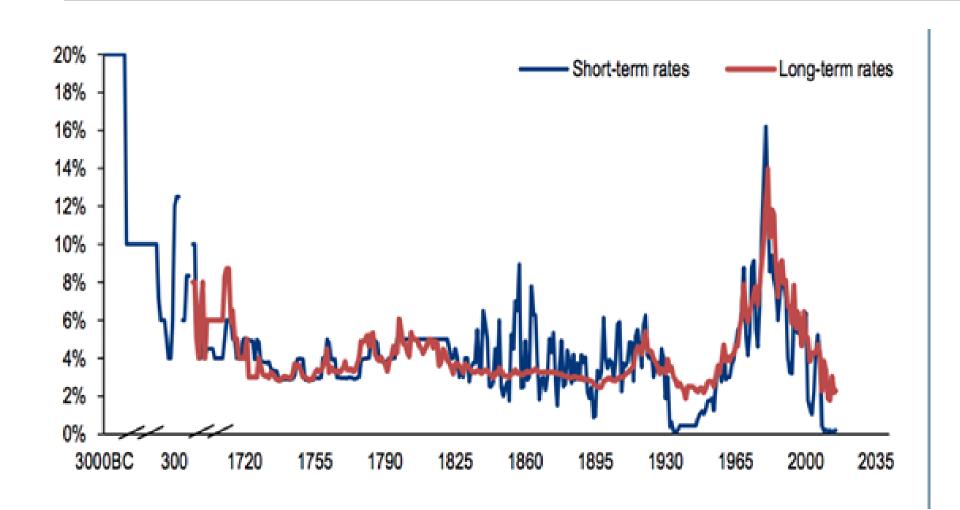
China, India and Sub Sahara Africa GDP is slowing in Each Decade





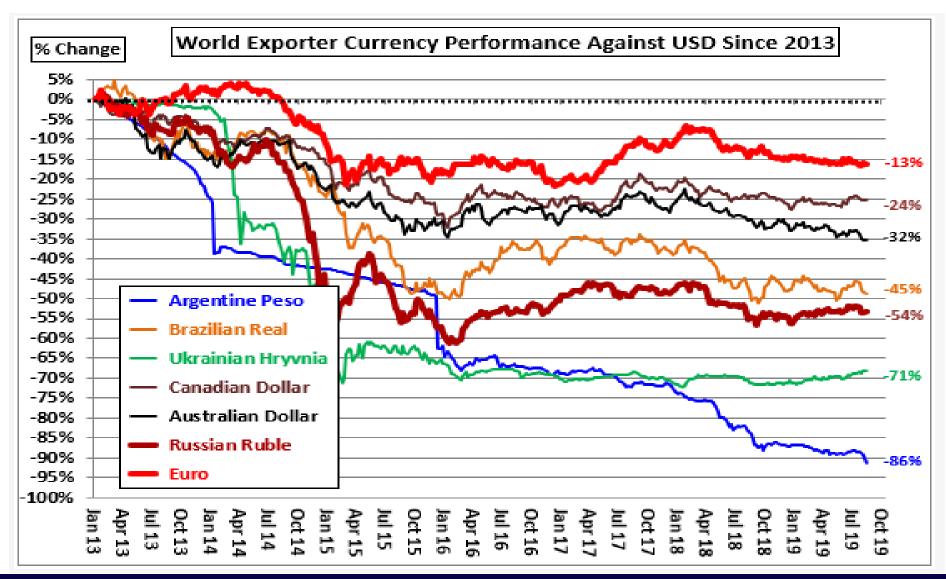
Average World Bank Lending Rates – Since 3000 BC – 1/3 of World Negative Interest Rates TODAY!

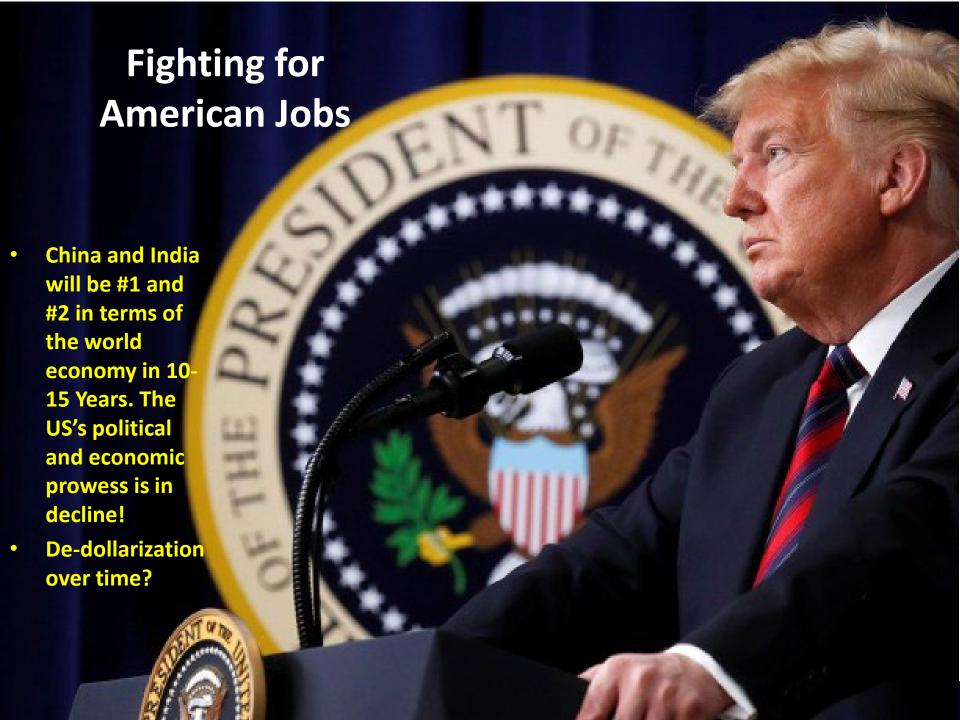




Exchange Rates Favor Non US Farmers – Margins Continue Expansion Overseas

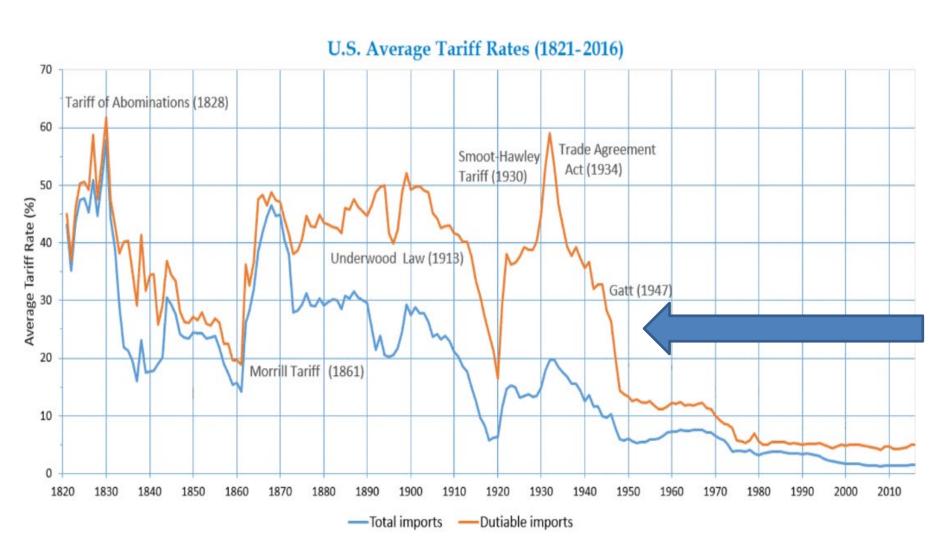






US Tariffs Rise to Post WW II Levels





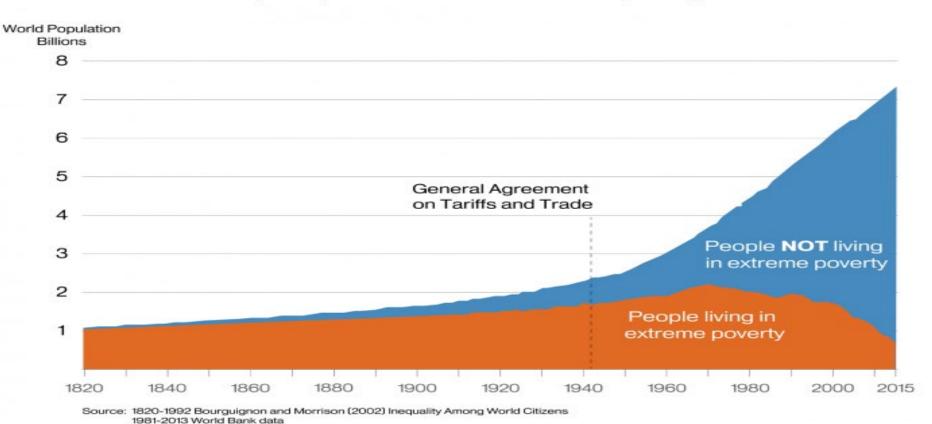
Source: US Departement of Commerce, Bureau of the Census, Historical Statistics of the United States 1789-1945, U.S. International Trade Commission, dataweb.usitc.gov





World Population Living in Extreme Poverty, 1820-2015

Extreme poverty is defined as living at a consumption (or income) level below 1.90 "international \$" per day. International dollars are adjusted for price differences between countries and for price changes over time (inflation).



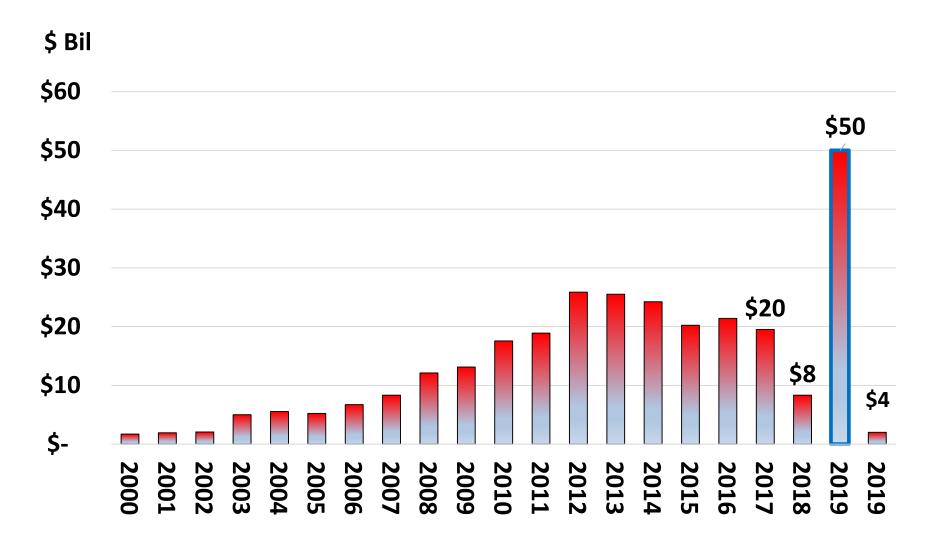






Value of US Ag Exports to China





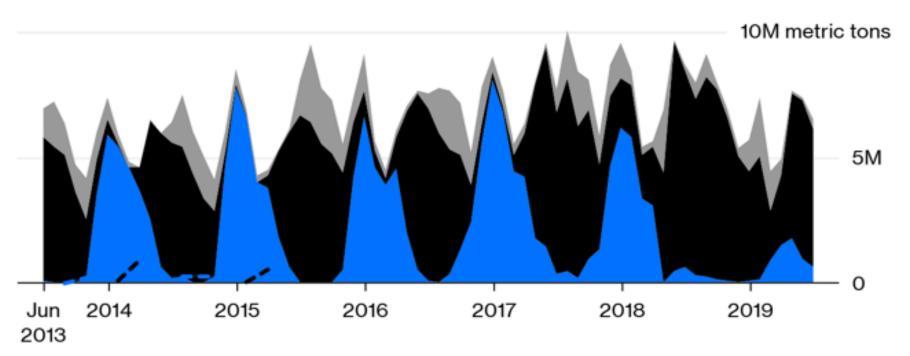
Notice the Big Change in Soybean Trade Flows by Month



Gone in 60 Seconds

Chinese imports of American soybeans have all but dried up over the past year





Source: China Customs General Administration, Bloomberg, Bloomberg

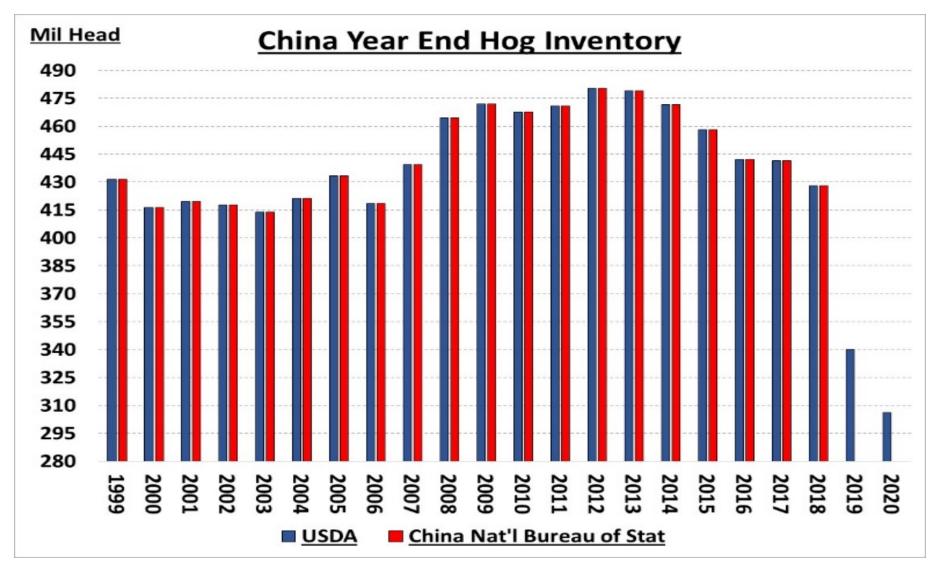
China'S Biggest Threat





Attaché: Hog herd will drop 29% from 2019, and drop again in 2020. Official estimates 21-26%.





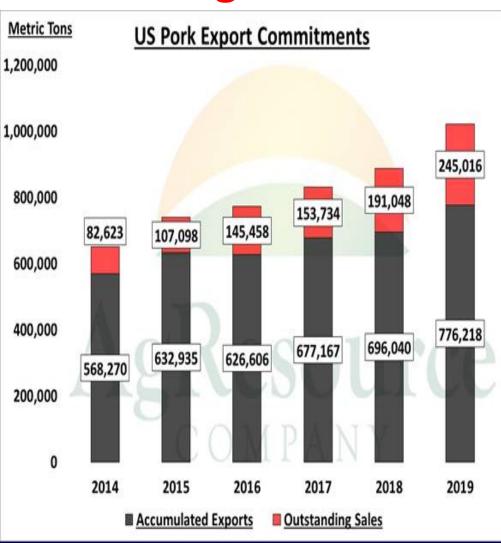
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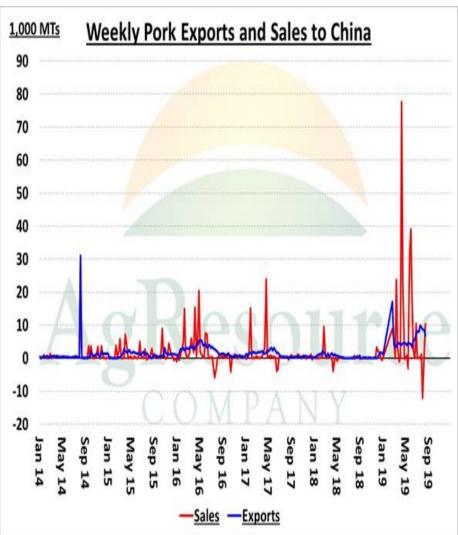
Chinese Hog Prices Rally Sharply; Broiler Prices Surprisingly Decline



AgResource

US Pork Sales Were Solid to China until August 2nd Ban on Retaliation

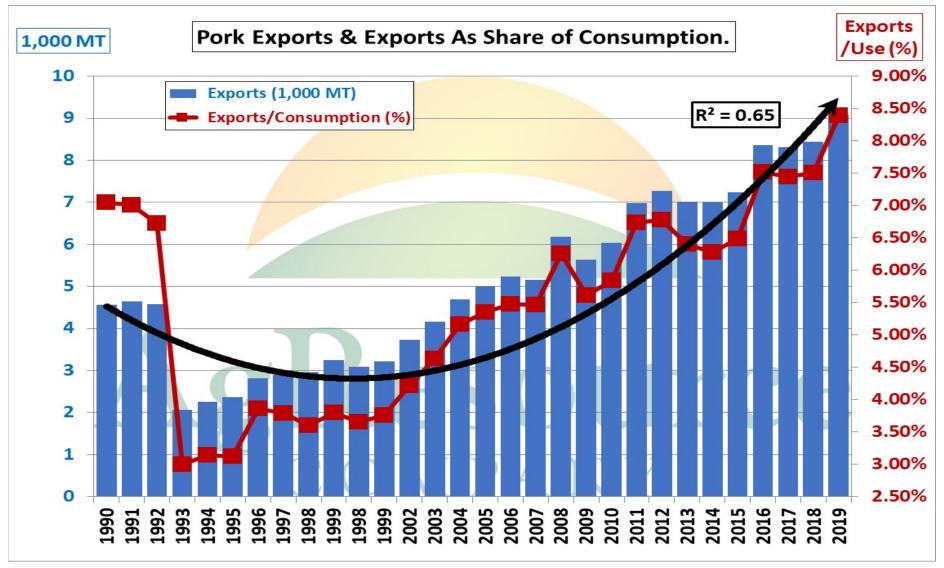






World Pork Exports To Record Highs; China Secures EU and Brazilian Pork

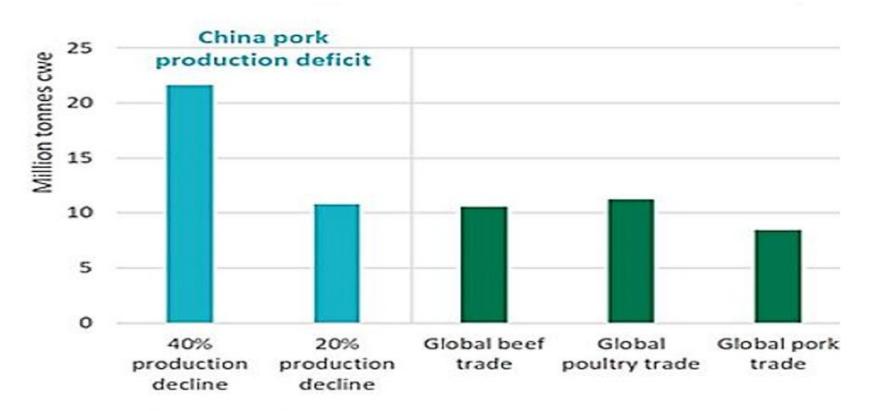




China ASF is just BIG!



Putting ASF pork shortage into perspective

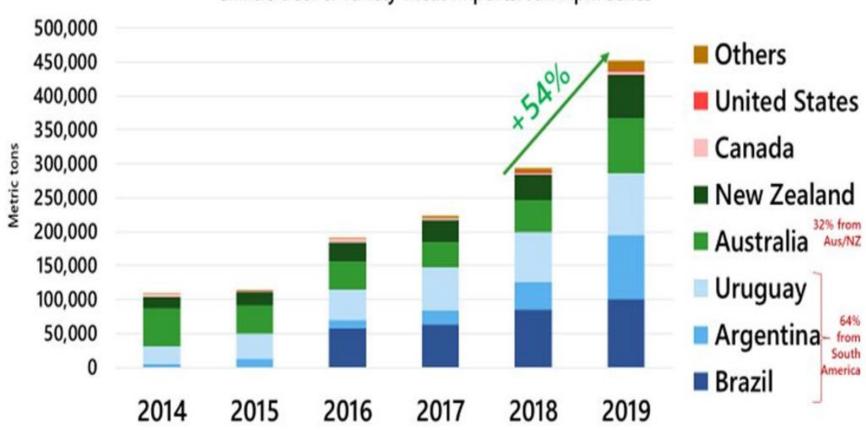


Source: MLA, ABS, USDA All based off 2018 figures

AgResource

China Beef Import Demand Rising Sharply – US Not Participating

China's Beef & Variety Meat Imports: Jan-April series



Grain-fed accounts for about 6% of China's import volume and is mostly from: Australia (20,000 mt, +66%), Canada (5,000 mt, +237%) and the U.S. (2,300 mt, steady)



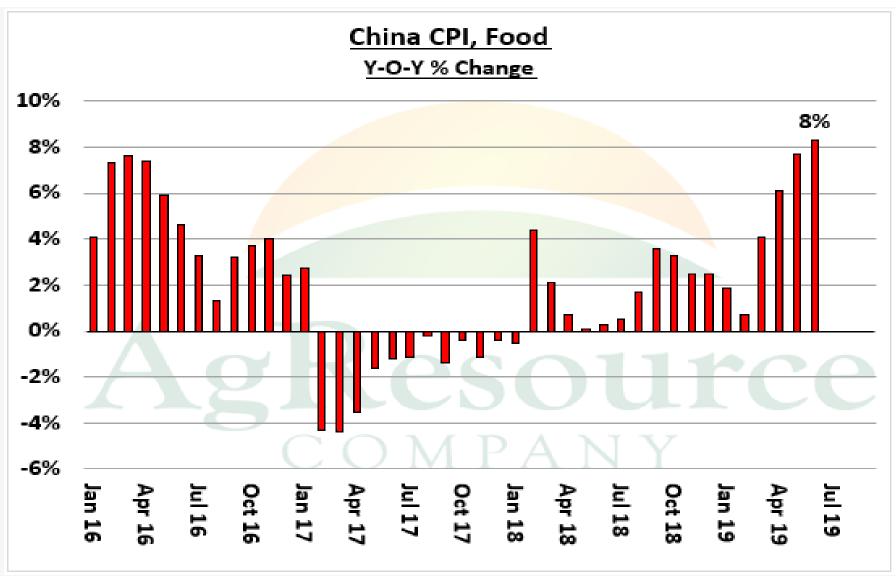




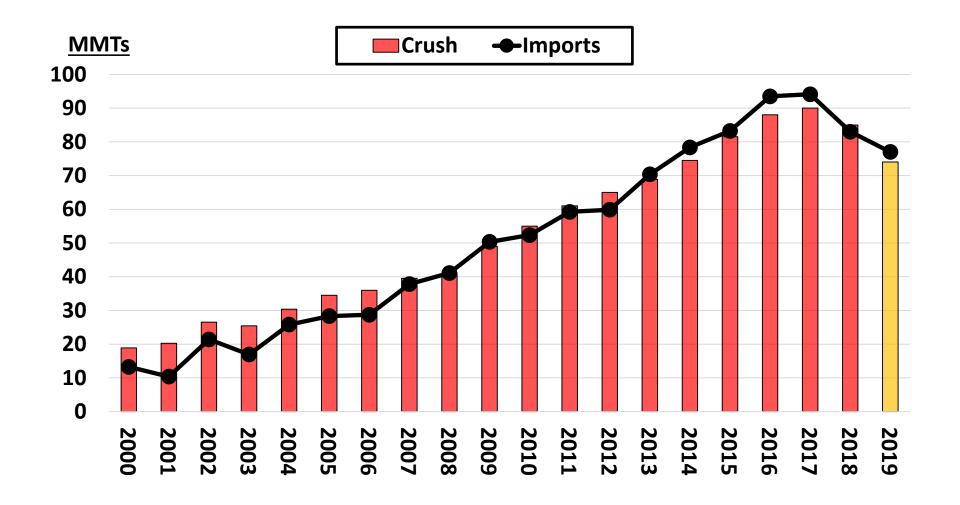
June 25 2019 First shipment of Namibian beef arrives in China

Chinese Food Inflation Is Rising



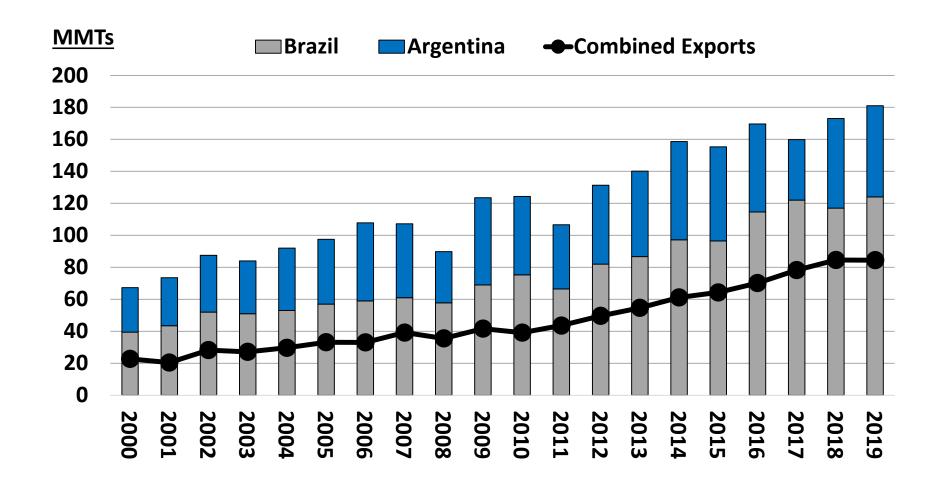


Chinese Annual Soybean Crush and Imports Resource 2000 – Was to Be 107 MMTs in 2020!



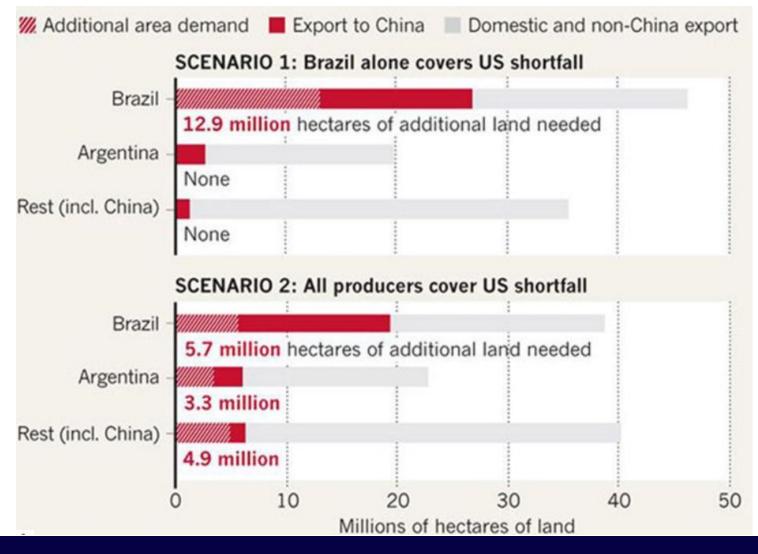
Brazilian/Argentine Soybean Production and Exports





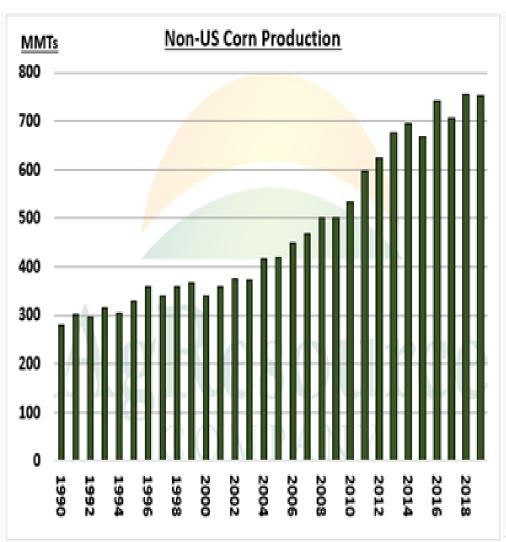
Longer US/China Trade War Lasts: Advantage South America!

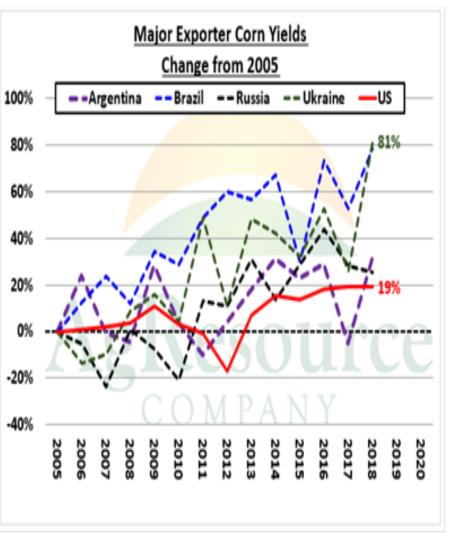




Growing Potential for Non US Corn Production -

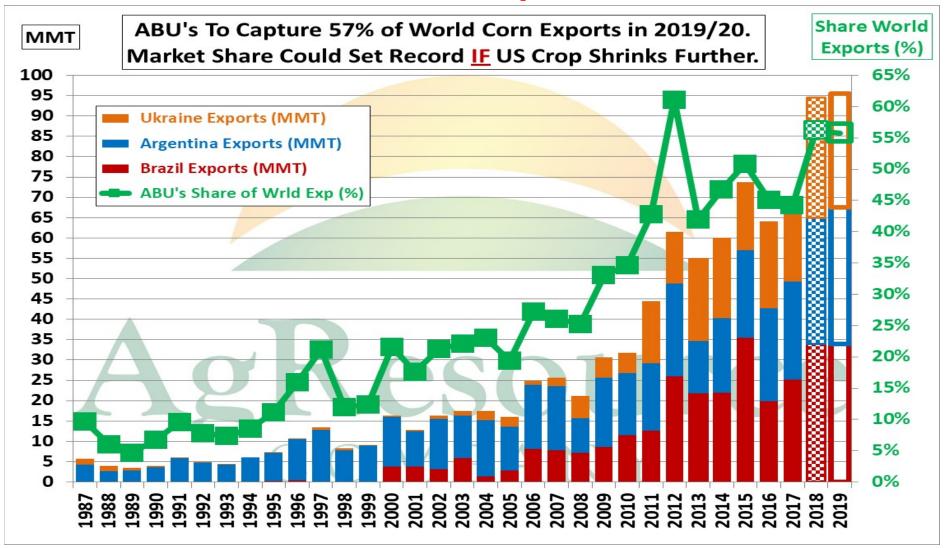






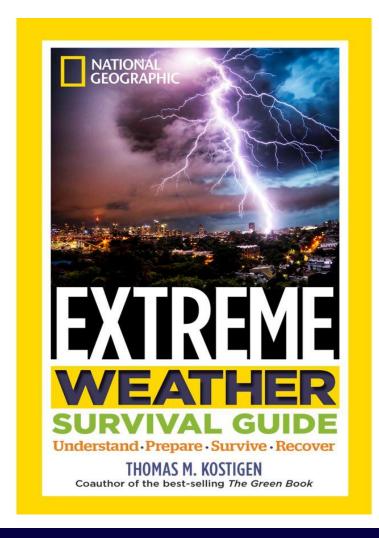
ABU's Account For 57-62% of Global Corn Exports!







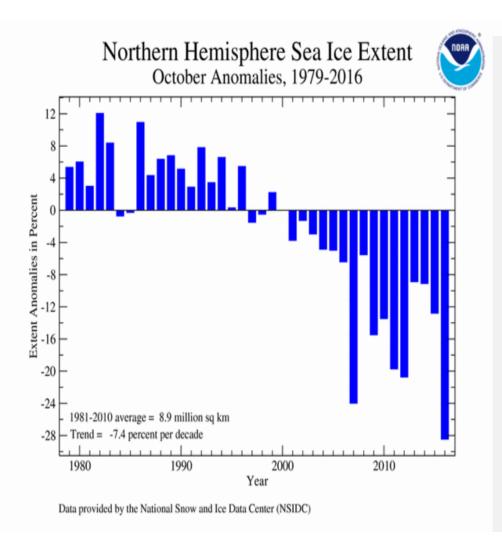


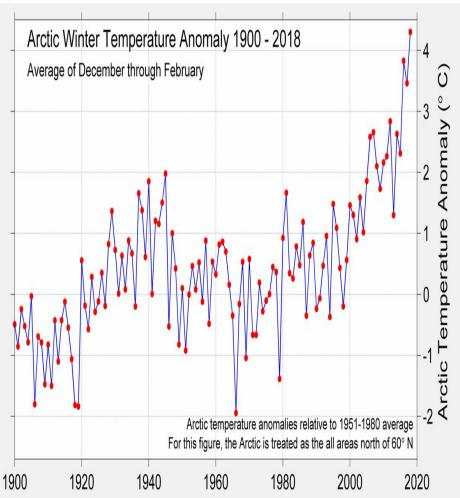




Poles Are Warming Dramatically which is Slowing the Jet Stream Allowing for "Pattern Stagnation"





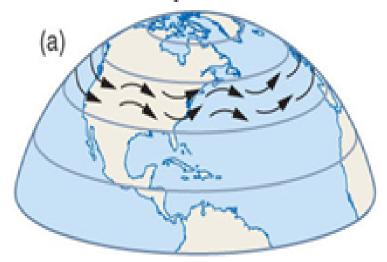


Weaker Jet Stream = Stronger Storms/ Stagnant Patterns



Stronger Jet Stream

Predominantly west-to-east flow



- Less variability in temperatures
 - Milder seasons
- More consistent weather pattern

More variability in temperatures
 Cold air outbreaks in winter
 Late-season frost events
 Less consistent weather pattern

Weaker Jet Stream

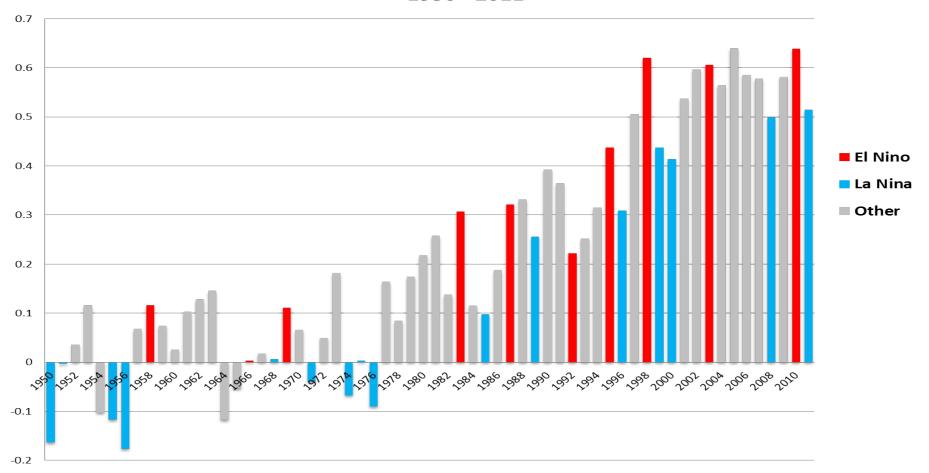
Meandering flow

Image: Jones & Bartlett Learning - www.jblearning.com





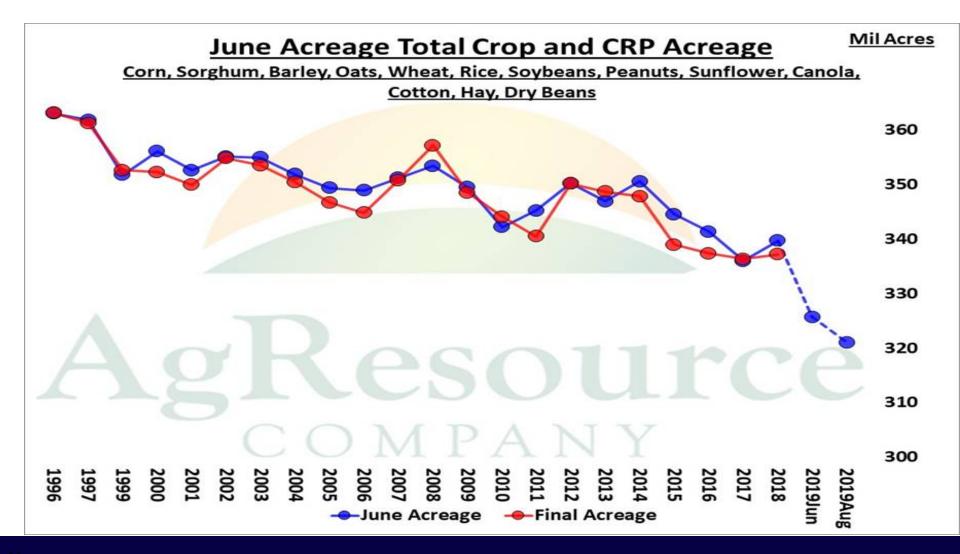
Annual Global Temperature Anomalies 1950 - 2011



US Spring Weather- Delayed Seeding/Production Risks



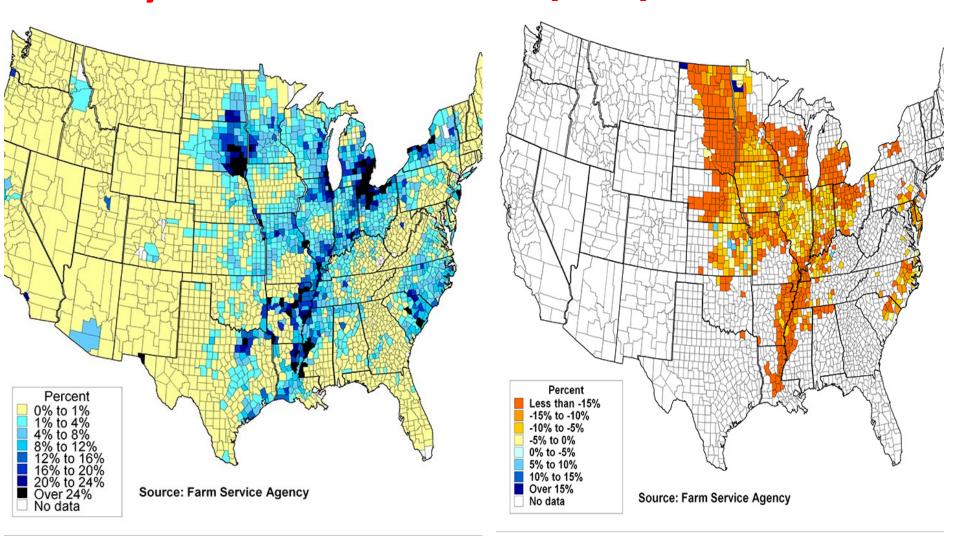
19 Mil Acres of US Prevent Plant Acres Due to the Cold/Wet Spring



Corn (right)/ Soybean (Left) PP Acres

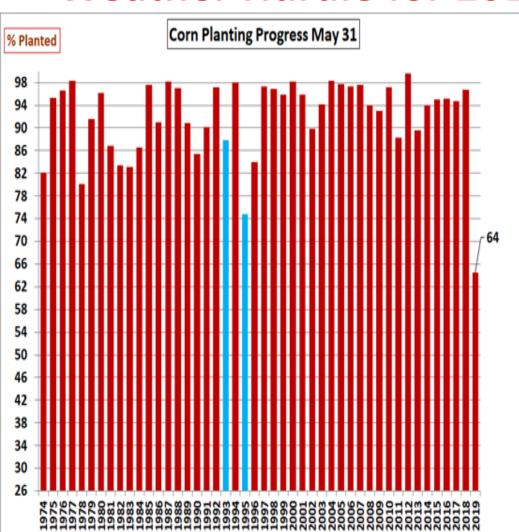


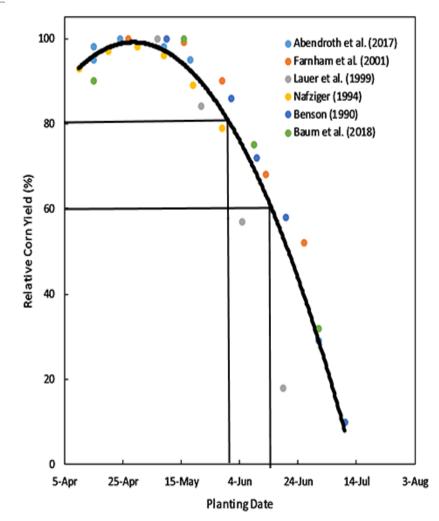
Soybeans were the Crop Impacted



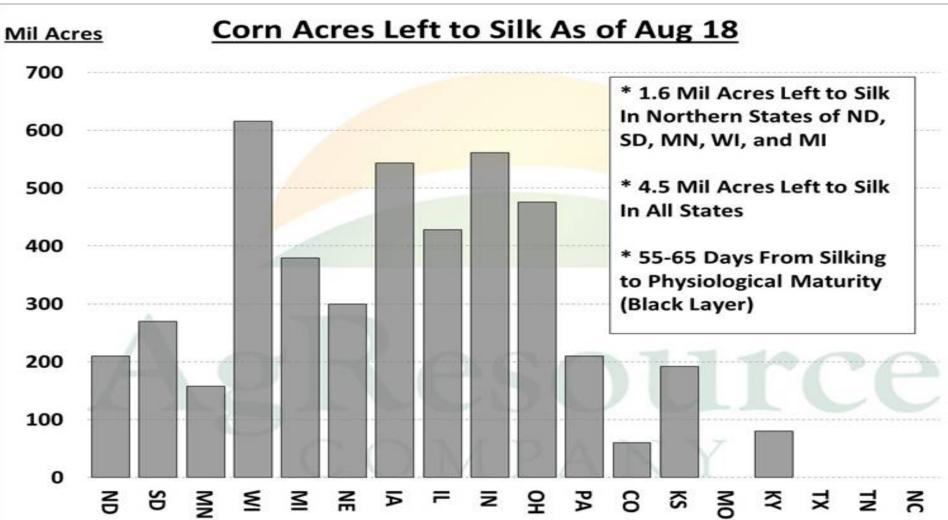
Late Seeding Dates Cause Final Weather Hurdle for 2019 Crops







US Corn Crop Must Have At Least Normal Frost/Freeze Dates



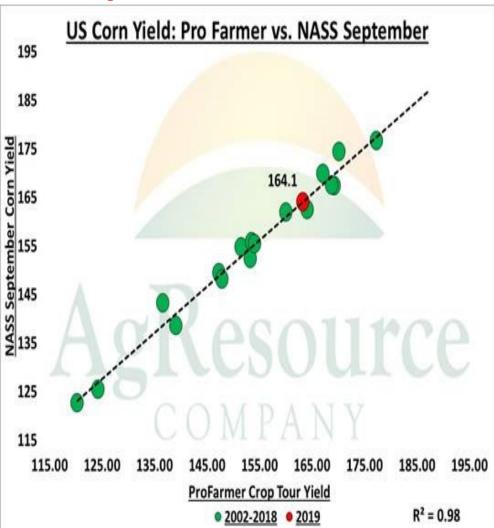


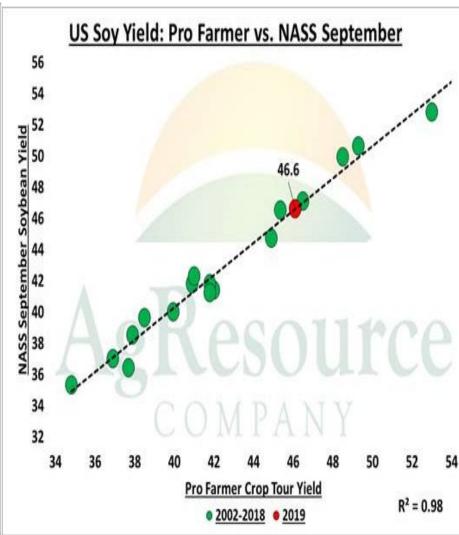
'19 US Corn Yield Needs to Fall Below 157 BPA to Stimulate \$4.50 CBOT

h							
	2017/18	2018/19	2018/19	2018/19	2019/20	2019/20	2019/20
CORN	USDA	USDA	USDA	ARC	USDA	USDA	ARC
	Final	Jul	Aug	Aug	Jul	Aug	Aug
Mln Acres or Bushels							
Area Planted	90.2	89.1	89.1	89.1	91.7	90.0	90.0
Abandonment	8.3%	8.3%	8.3%	8.3%	8.8%	8.9%	8.9%
Area Harvested	82.7	81.7	81.7	81.7	82.4	82.0	82.0
Yield	176.6	176.4	176.4	176.4	166.0	169.5	166.0
Production	14,609	14,420	14,420	14,420	13,875	13,901	13,610
Beginning Stocks	2,293	2,140	2,140	2,140	2,340	2,340	2,435
Imports	36	35	30	30	50	50	75
Supply, Total	16,939	16,595	16,595	16,600	16,265	16,311	16,120
Feed and Residual	5,304	5,275	5,275	5,250	5,175	5,175	5,150
Food, Seed, Industrial	7,057	6,880	6,855	6,855	6,930	6,905	6,830
Ethanol & By-Products 1/	5,605	5,450	5,425	5,425	5,500	5,475	5,400
Food, Other Industrial 2/	1,422	1,400	1,400	1,400	1,400	1,400	1,400
Seed	29	30	30	30	30	30	30
Domestic, Total	12,361	12,155	12,130	12,105	12,105	12,080	11,980
Exports	2,438	2,100	2,100	2,050	2,150	2,050	1,900
Use, Total	14,798	14,255	14,230	14,155	14,255	14,130	13,880
Ending Stocks	2,140	2,340	2,360	2,435	2,010	2,181	2,240
Ending Stocks/Use	14.5%	16.4%	16.4%	17.2%	14.1%	15.4%	16.1%
Crop Insurance Price (\$/Bu)	3.96	3.96	3.96	3.96	4.00	4.00	4.00
Avg. Farm Price (\$/Bu) 3/	3.36	3.60	3.60	3.55	3.80	3.60	<u>3.25</u>
Fut-Based Forecast (\$/Bu) 4/		3.60	3.60	3.60	3.80	3.80	3.80
Price Ratio: Corn/Soy (%)	36%	41%	41%	42%	44%	44%	39%

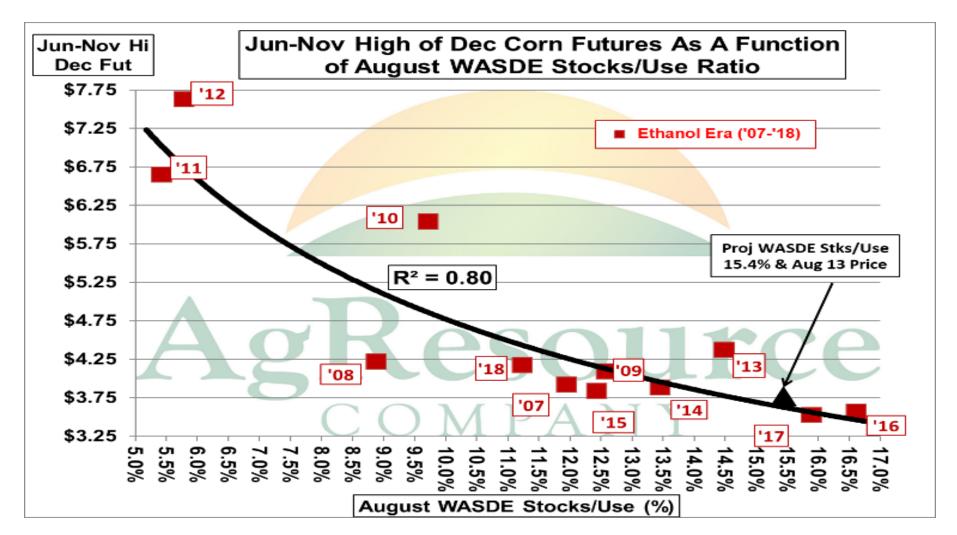
Use Pro Farmer Tour Results for September NASS Estimate







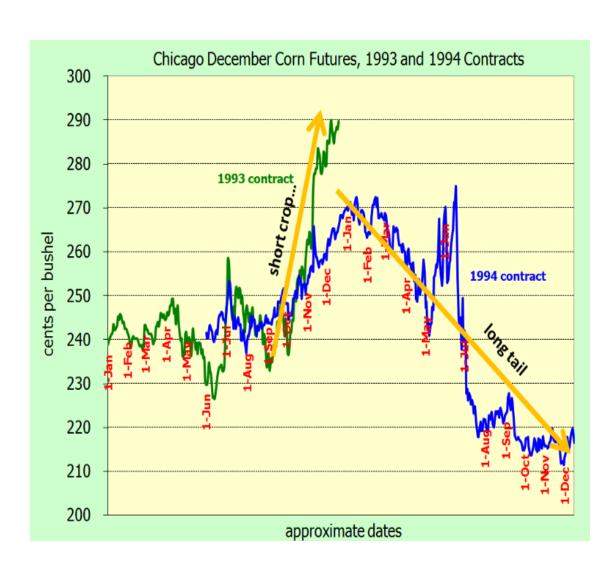
Corn Market Decline Backed by Stock/Use Price Modeling \$3.55-4.20



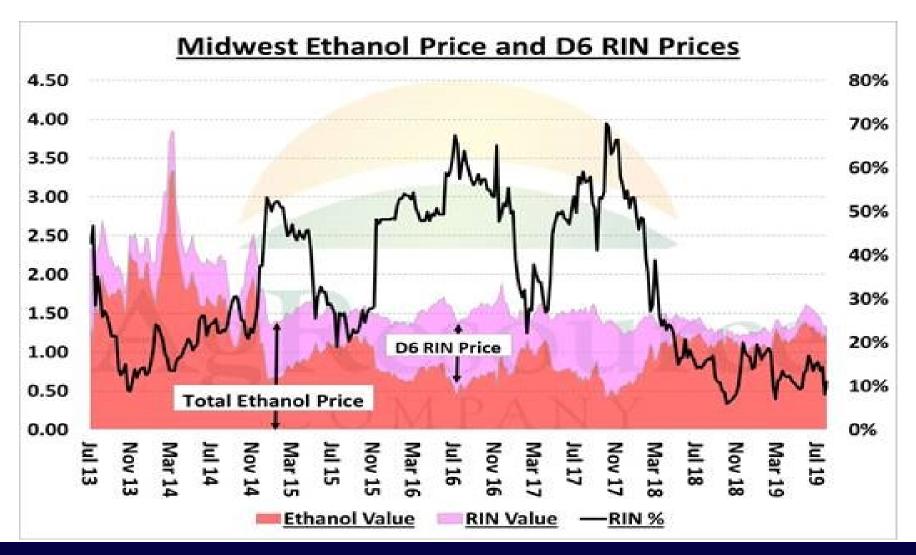
Short Crops Have A Long Price Tail!



- 2020 US corn Seeding Likely to Rise to 96-100 Mil acres.
- South America Corn/ Soy Seeding to Expand.
- No China soybean demand increase due to ASF!
- Dec 2020 corn to peak at \$4.20-4.30 with harvest lows next year at \$3.00-3.20.
- So only take feed use coverage into yearend.

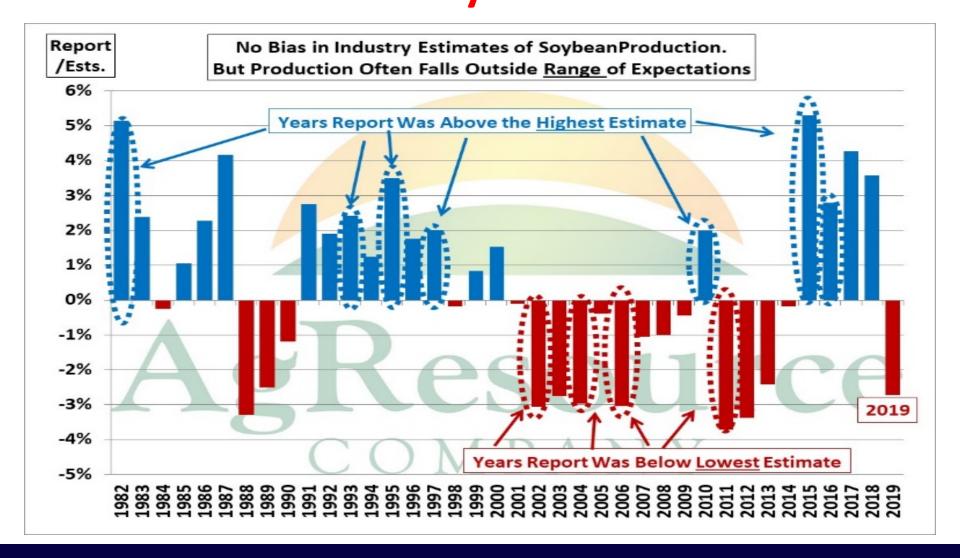


Waivers Have Killed the US Ethanol Outlook – D6 Rin Price!



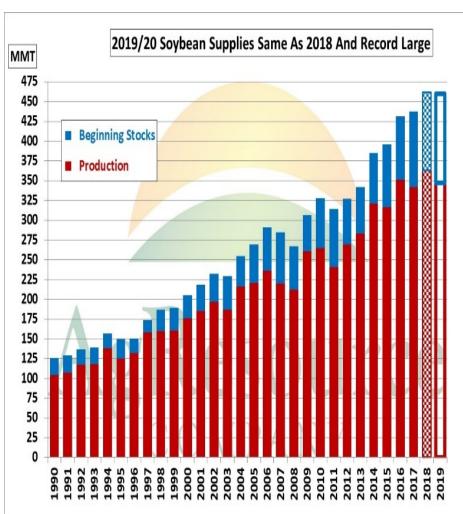
2019 US Soybean Crop Has Declined 470 Mil Bu Since May WASDE

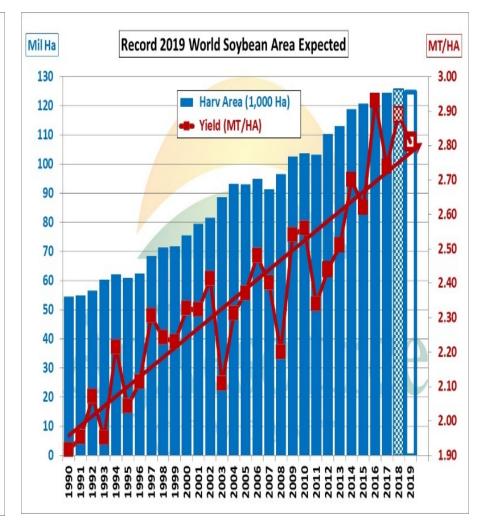






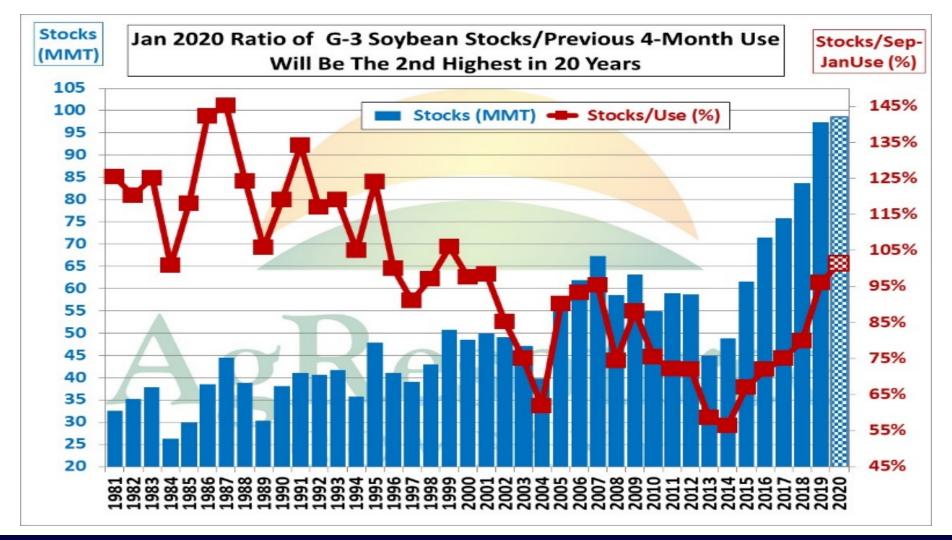






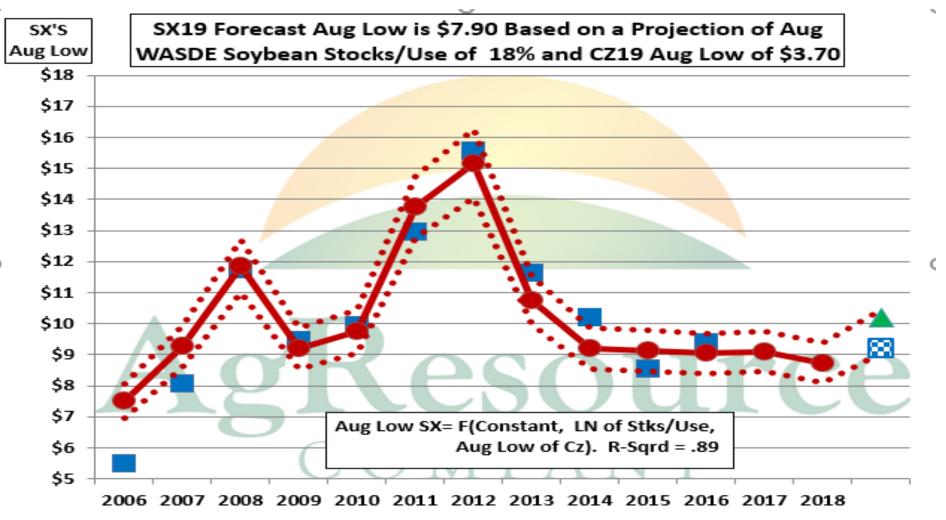


G3 Stocks Rise to a Record in January 2020 – Caps CBOT \$9.25

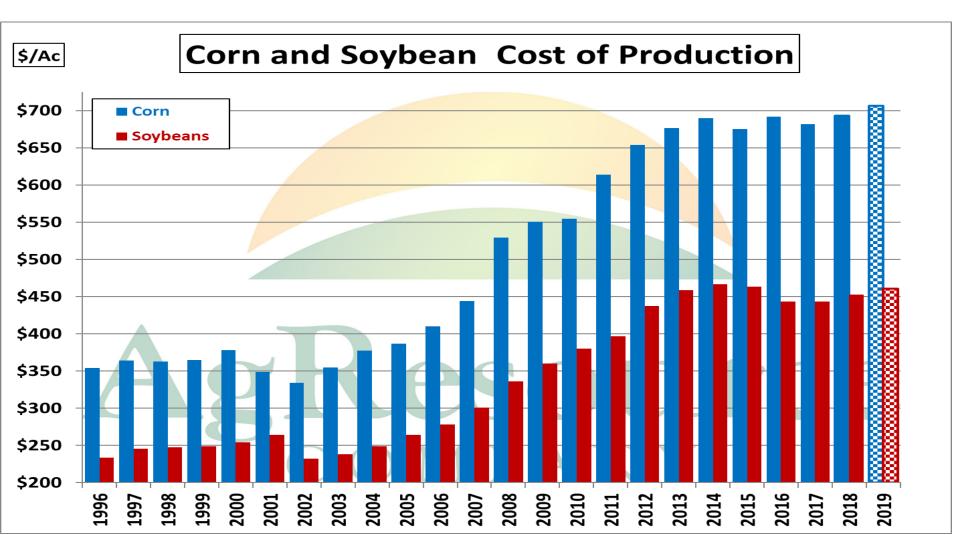


Soybean Modeling Forecast Range of \$7.55-9.20 into 2020





US Corn/Soybean Costs Estimated to be 2-4% Higher in 2019



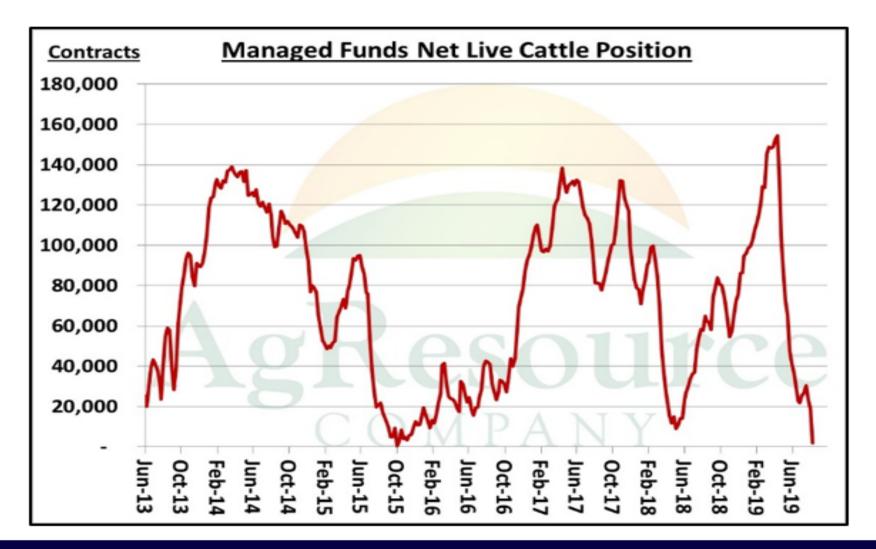




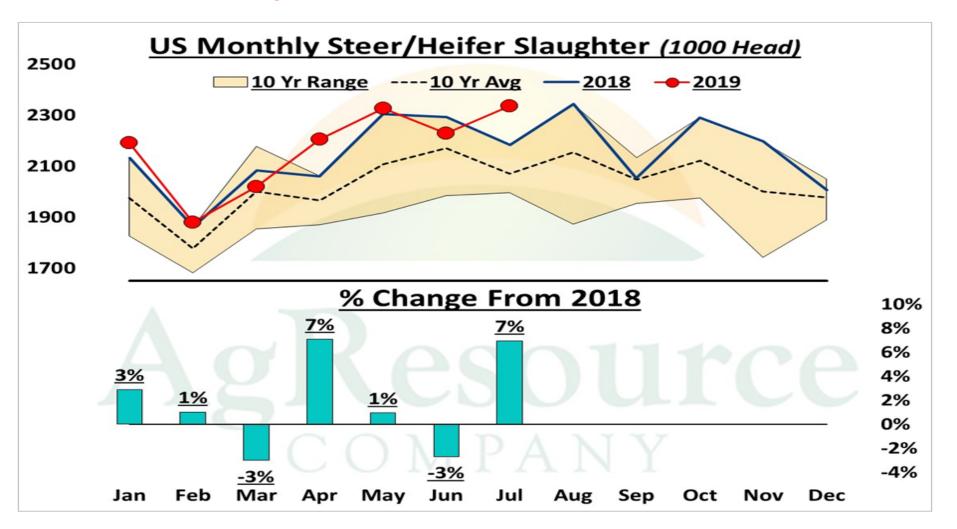
- Cattle Outlook into 2020;
- Tightening Fed Supplies into March; Cash Cattle to form Seasonal lows in next few weeks (\$100-102) with a top due in Q1 at \$122-128. US cattle Outlook Turning Bullish



Cattle Futures (like many US ag markets) Controlled by Funds

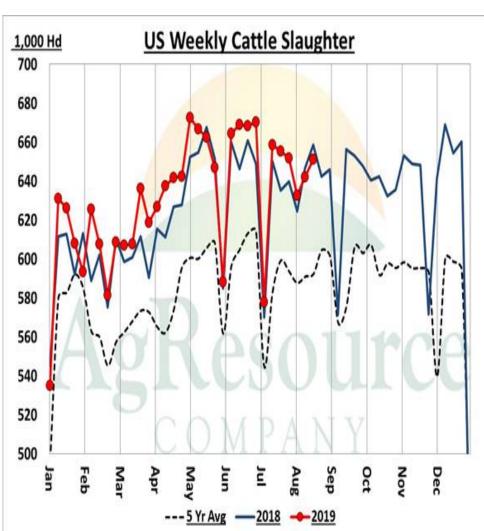


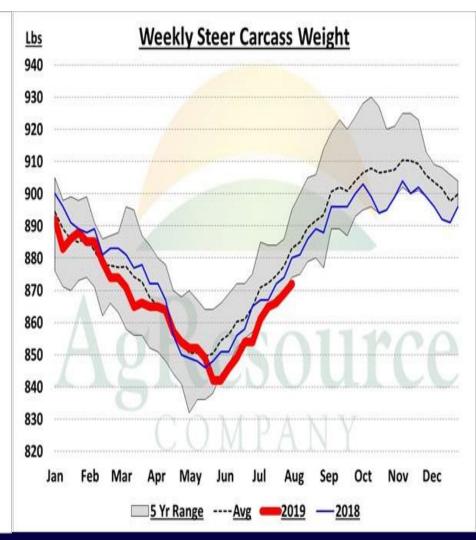
Worked Through Large July Supplies at Resource Prices \$3-4/cwt Better Than Forecast



Weekly Kills Holding Above Last Year Even without Tyson - Weights Down

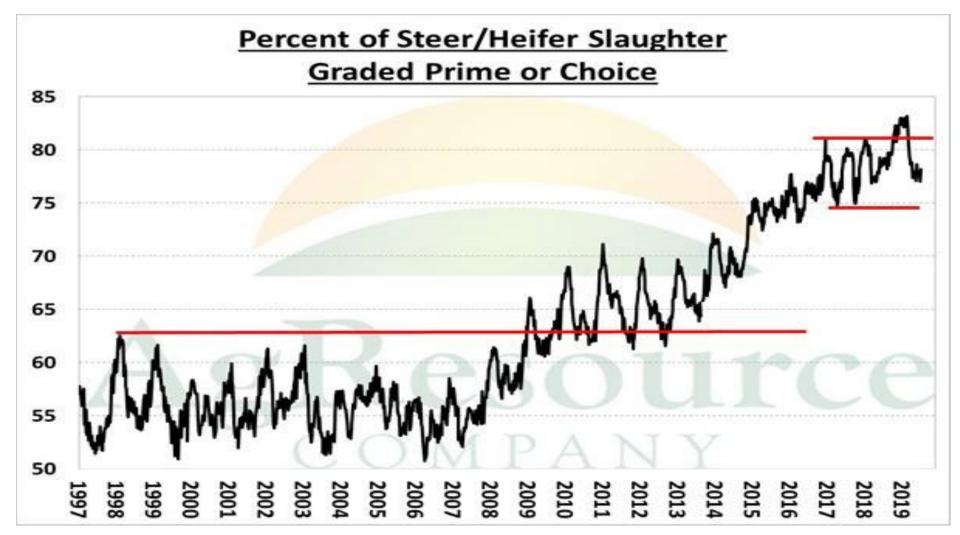






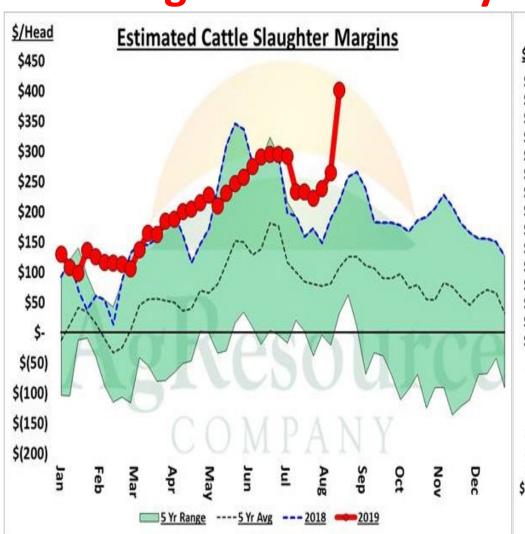


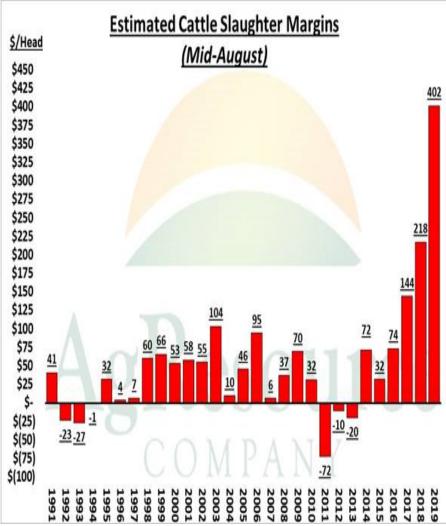
Genetics and Feeding Practices Leading to Sizeable Grade Gains



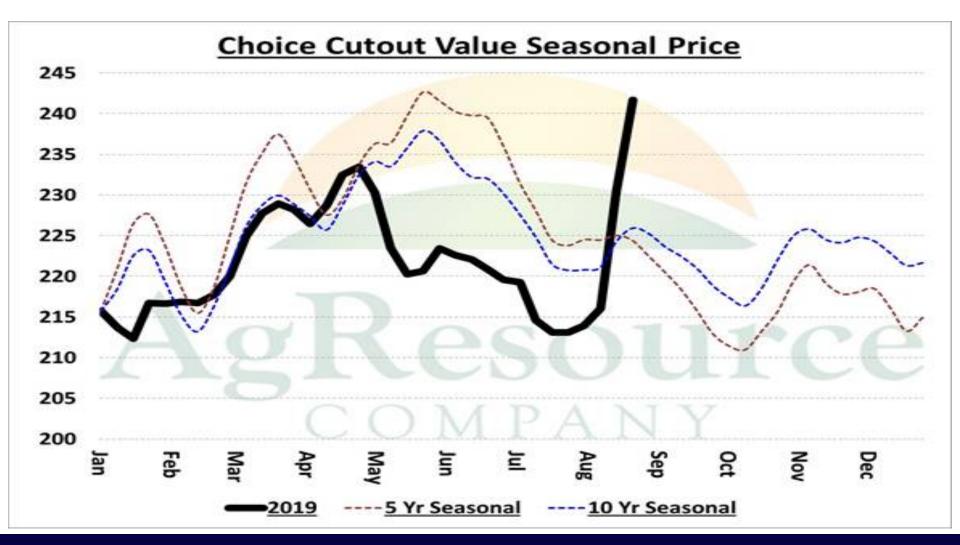
Packer Kill Margins at \$452/head as of Aug 27th- Record by Wide Margin!



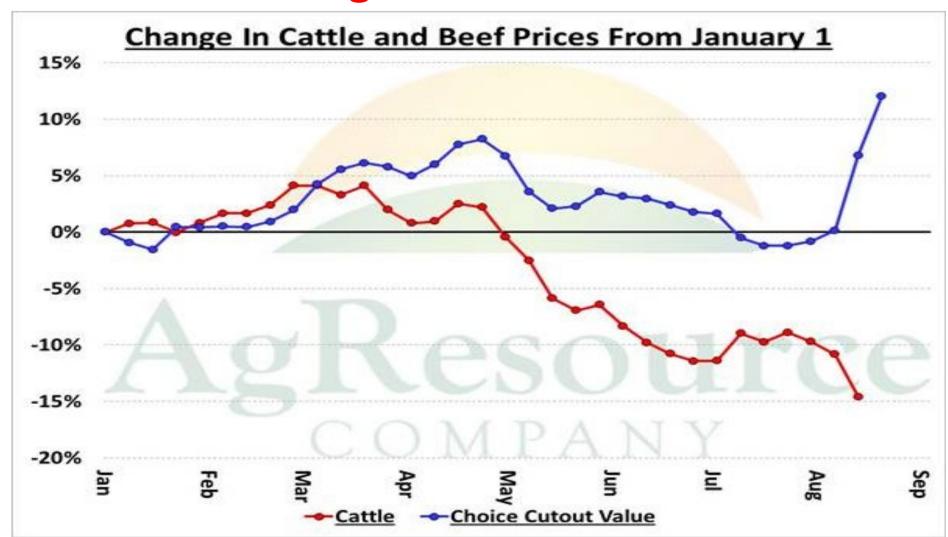




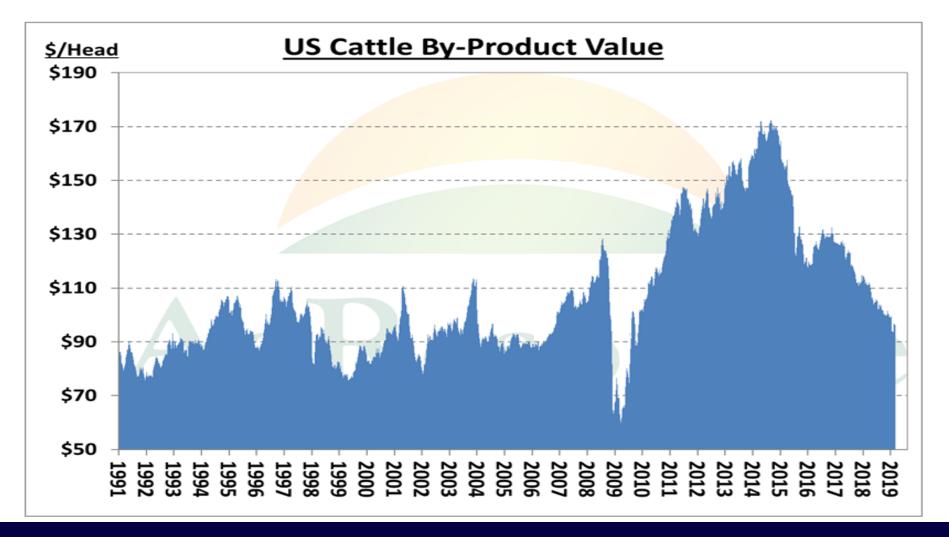
Choice Boxes Have Led The Rally on Strong Domestic Demand



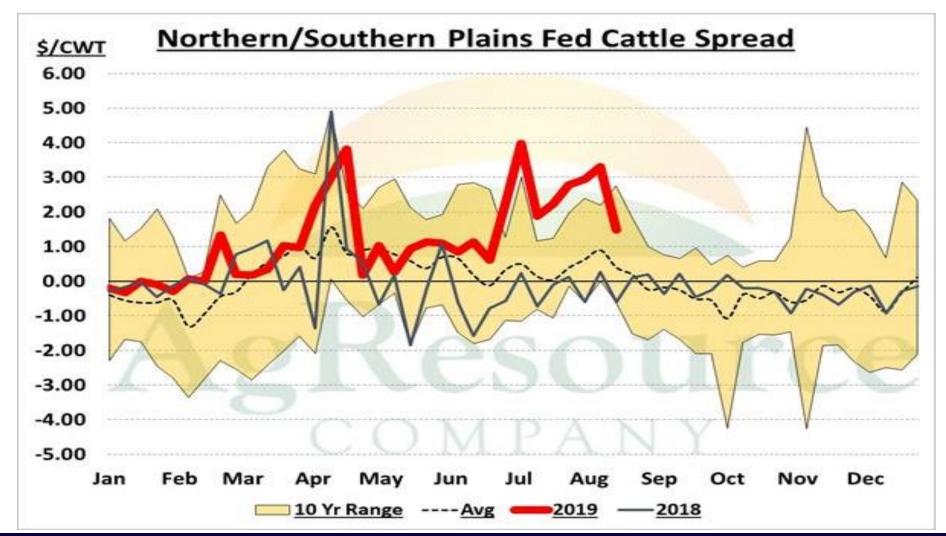
Since July, its all About Beef Prices; Packer Kill Margins off the Chart!



Cattle Hide Market Needs Stronger Car Demand; Offal Bottoming

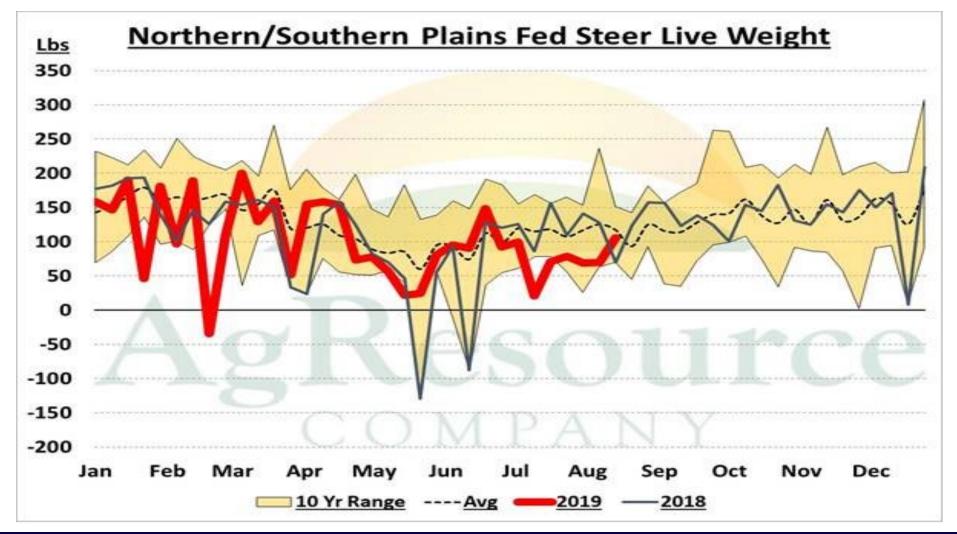


Northern Plains Fed Cattle Tightness Supports Widening Price Premiums



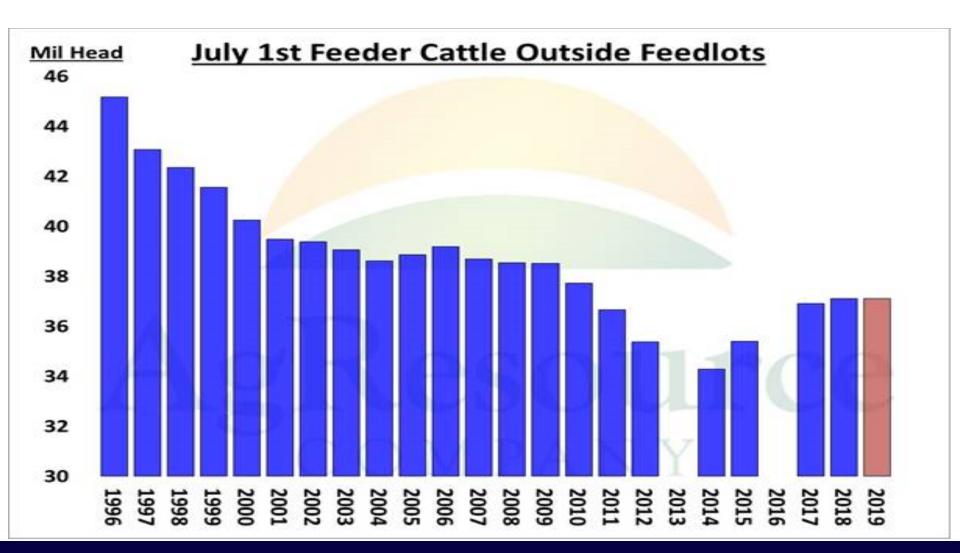


Weights Indicate that Feedyards are Current in N Plains Marketings





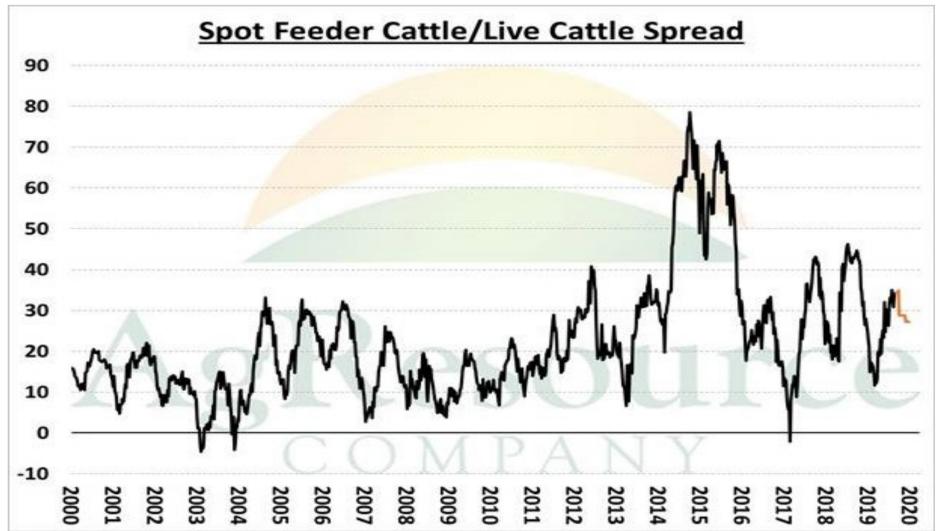
US Feeder Supplies Available Outside Lots Close to 2017-2018



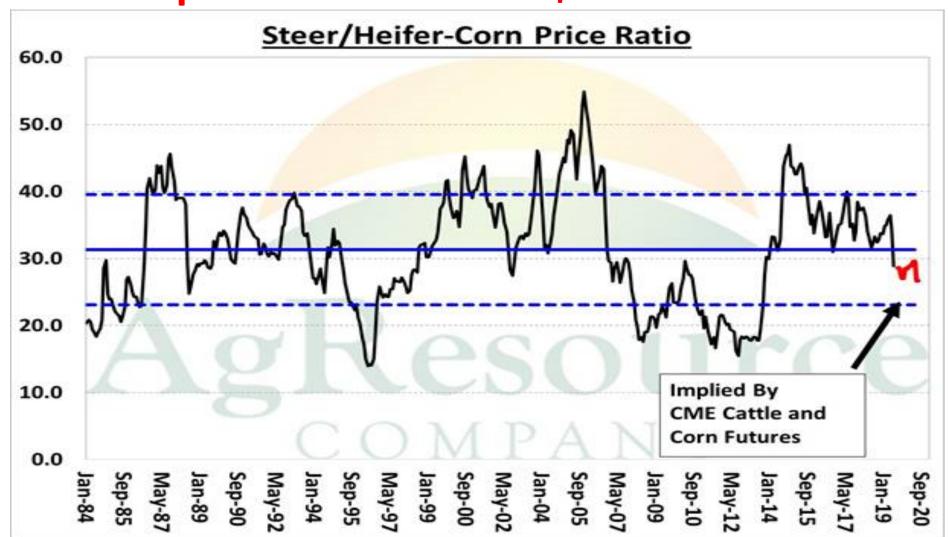
Feeder/Fat Spread to Trade \$26-





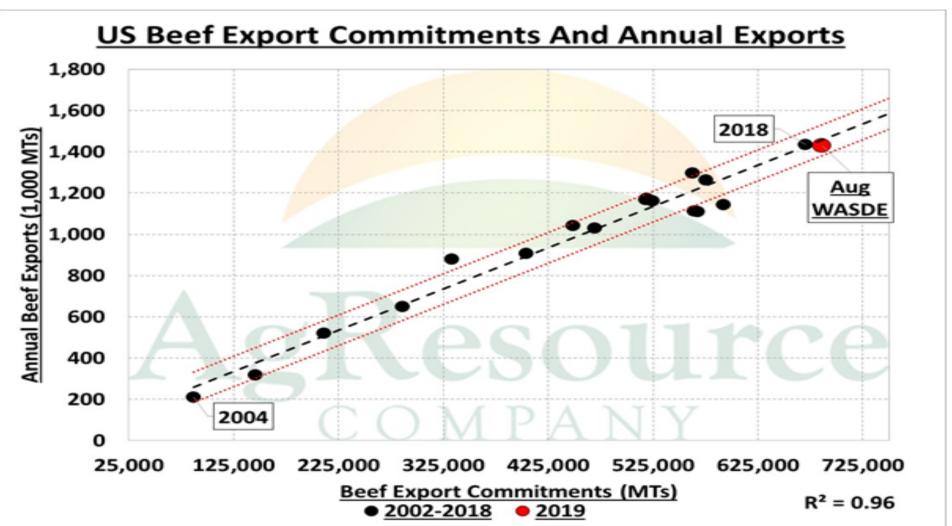


Long Term Bearish Corn Price to Underpin Feeders below \$25.00





Export Commitments Argue for Further increase in US Beef Trade



AgResource Q4 Price Forecast at \$111-114 for Cash Cattle

