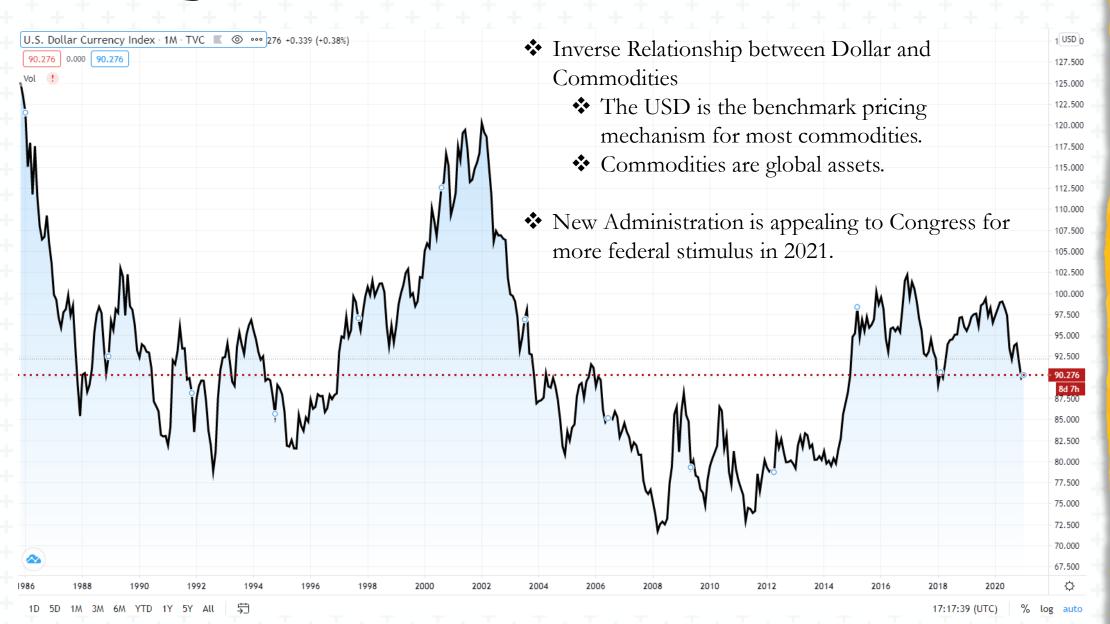


### Outline

- **&** Economic Drivers
- The things that I just don't know...
- January WASDE Key Points
- Demand Fundamentals
- 2021 Acreage
- Wrap-up

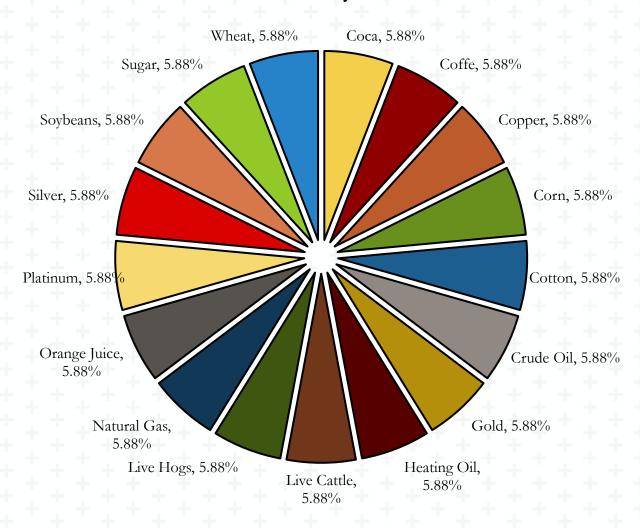
# Money Flow Into Sector- USD



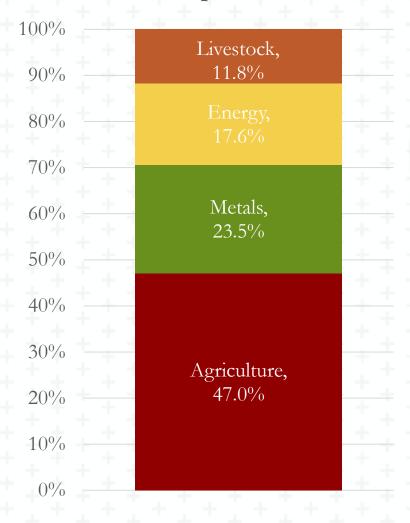
Data Source: Trading View

# **Money Flow Into Sector-TRCCI**

### Thomson Reuters Equal Weight Commodity Index



# Index Breakdown by Components



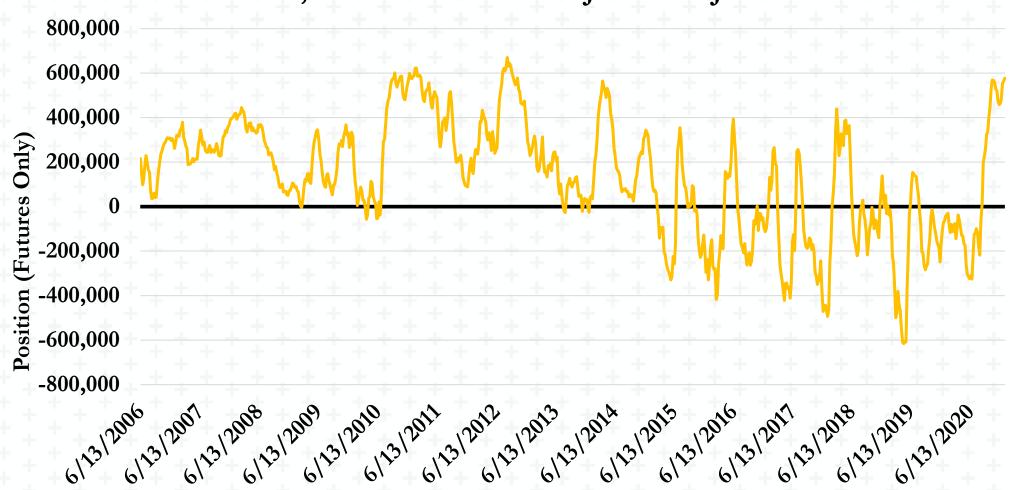
# Money Flow Into Sector-TRCCI



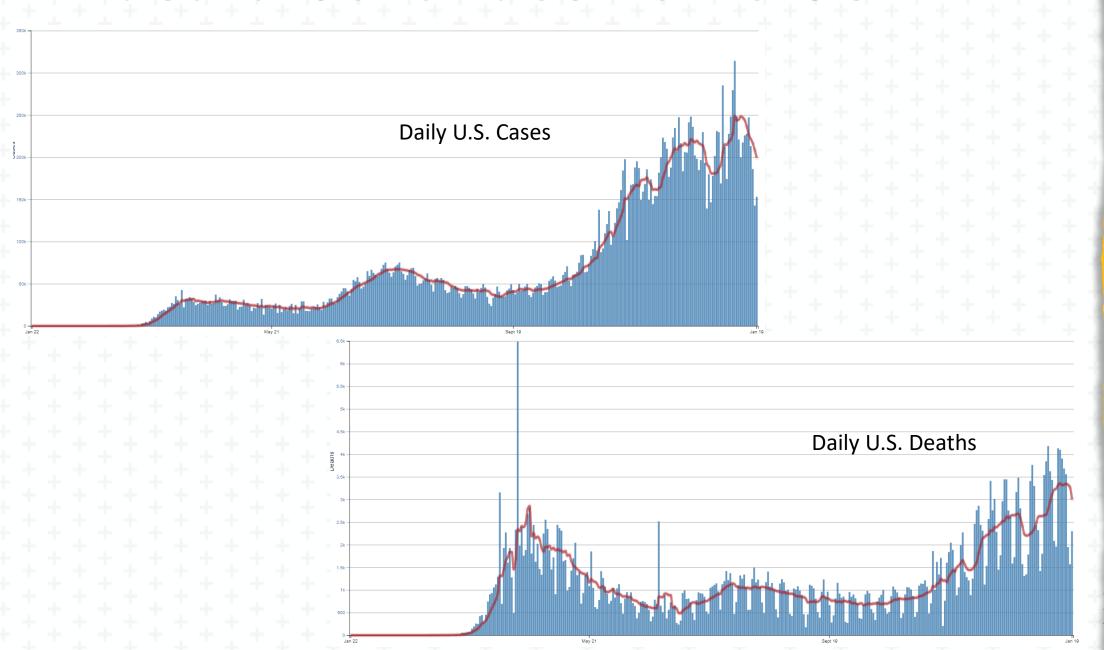
Data Source: DTN ProphetX

# Money Flow Into Sector- USD

Net Managed Money- All Positions Corn, Soybeans, Chicago HRW & SRW, and KC HRW Wheat: Jun. 2006- Jan. 2021



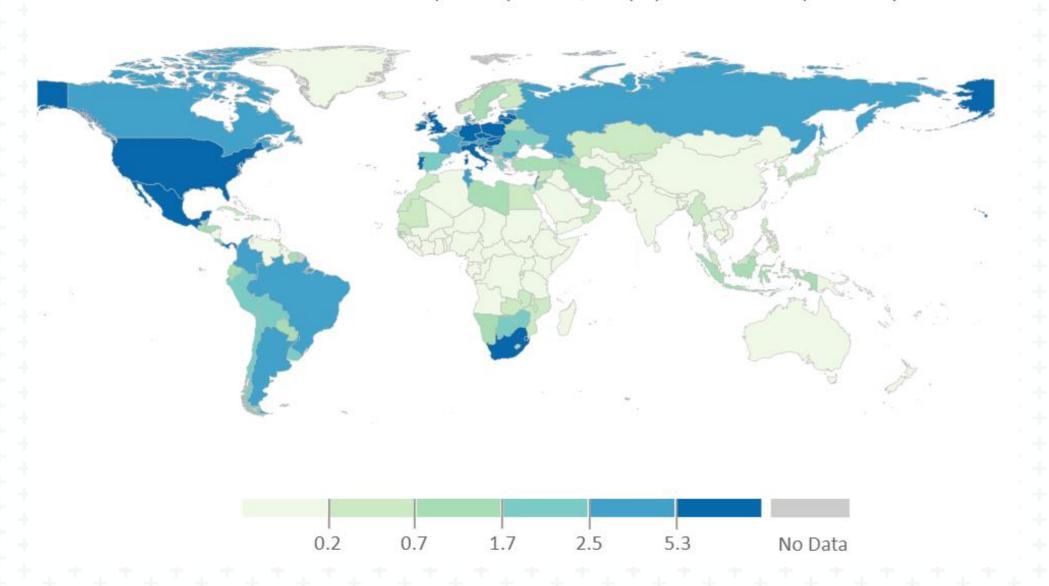
### Wildcard Continues To Be COVID



Source: Center for Disease Control

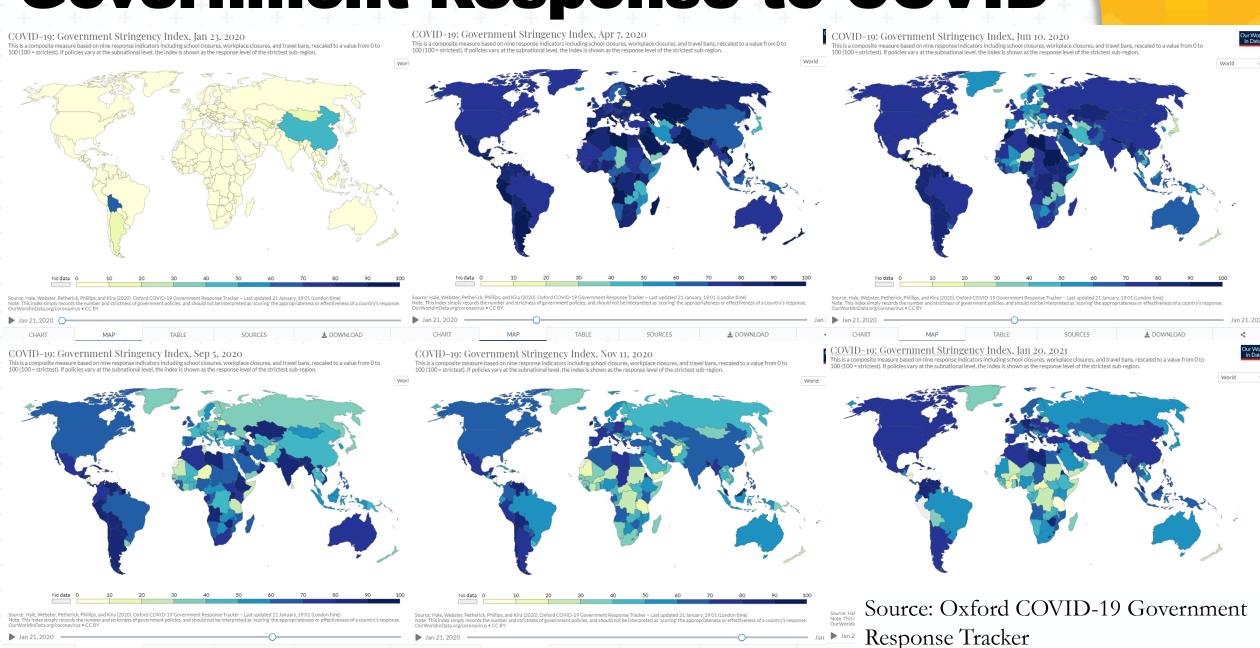
### Wildcard Continues To Be COVID

Global deaths from COVID-19 reported per 100,000 population in the past 7 days



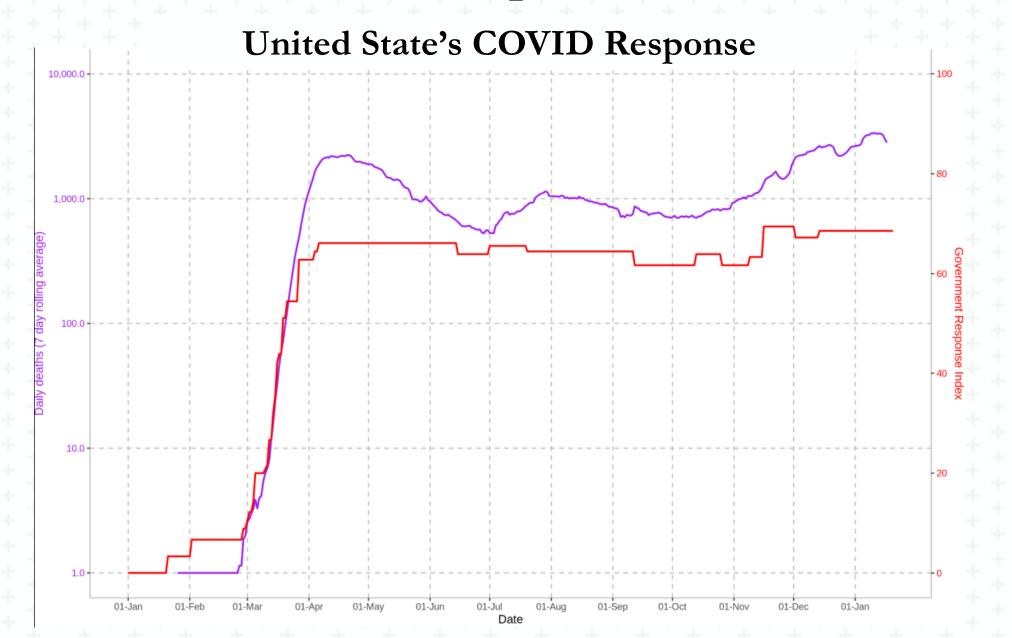
Source: Center for Disease Control

# Government Response to COVID



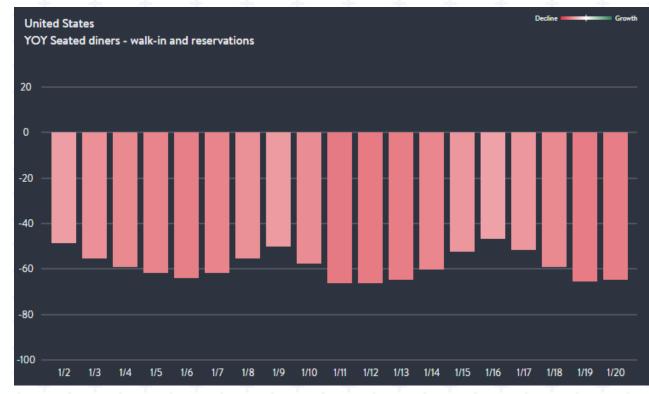
▲ DOWNLOAD

# Government Response to COVID



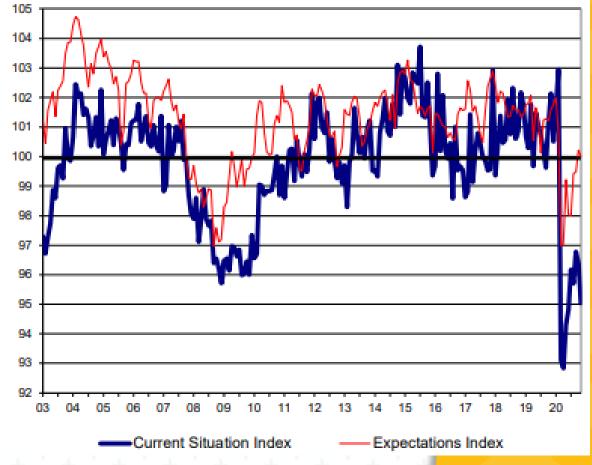
Source:
Oxford
COVID-19
Government
Response
Tracker

### **Restaurant Sector**



Source: Open Table.com

### Current Situation & Expectations Indices



Source: National Restaurant Association

### **Phase 1 Trade Deal**

#### Agriculture

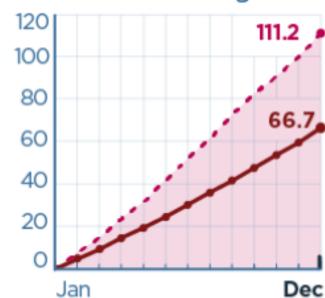


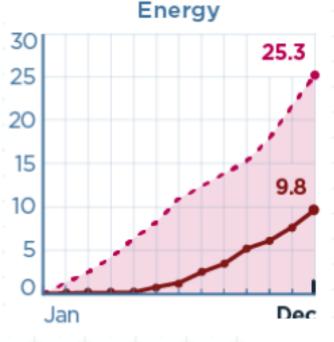
Manufactured
Goods- China reached
60% of their target.

Image Source: Peterson Institute for International Economics based on Chinese Customs Data released Jan. 20, 2021. USDA data expected Feb. 5<sup>th</sup>, 2021 **Agriculture-** China reached 64% of their target in 2020, but US imports up 65% over 2019.

US Data show the previous record of \$25.9 billion. Jan-Nov stand at \$21.7 billion.

#### Manufactured goods





Energy- China reached 39% of their target.

#### **Uncovered Goods-**

No set target, but down 23% from 2017 levels.

Question becomeshow does the Biden Administration respond?



# African Swine Fever- this week

HEALTHCARE & PHARMA JANUARY 20, 2021 / 10:12 AM / UPDATED 2 DAYS AGO

# Germany finds 30 more African swine fever in wild boar

By Reuters Staff

- ❖ Germany had been in talks with China, Japan and others to relax restrictions on German pork imports- where are those now??
- China's hog herd reportedly grew 31% year over year, but hog prices and feeding margins remain strong.
- Strong producer prices have aided China in building a more modern pork industry.

# UPDATE 1-China reports first African swine fever outbreak in nearly 3 months - Reuters

21-Jan-2021 06:23:21 AM

#### Adds background, detail on previous outbreaks

Jan 21 (Reuters) - China on Thursday reported an outbreak of African swine fever in the southern province of Guangdong - the country's first reported cases of the deadly disease in almost three months.

African swine fever ravaged the pig herd in China, the world's top pork consumer, after the first outbreak in mid-2018, killing millions of hogs. The industry has recovered, however, with the herd growing by 31% year-on-year to 406.5 million heads by the end of 2020. (Full Story)

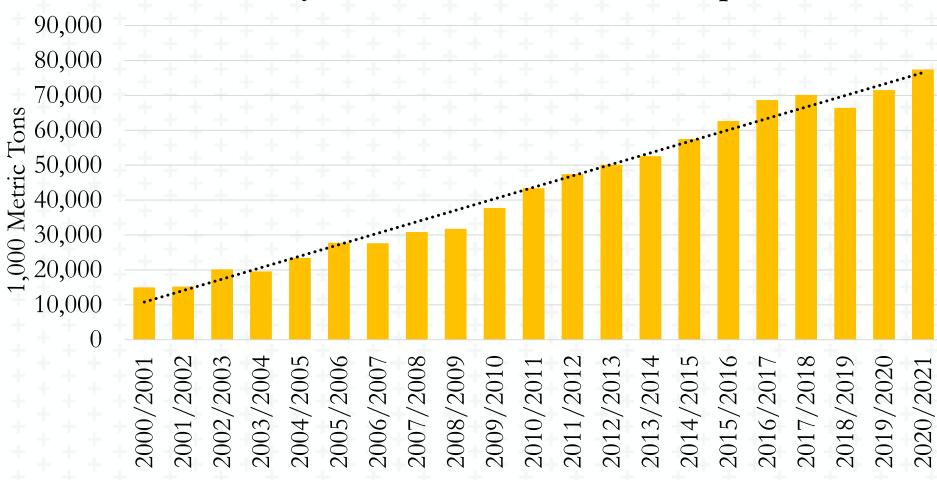
The Guangdong outbreak occurred on a farm in Pingyuan county with 1,015 pigs, killing 214 of them, the Ministry of Agriculture and Rural Affairs said in a statement, adding that illegal transportation was the suspected cause.

The last reported swine fever outbreak in China was on Oct. 26, when authorities seized a vehicle that was illegally taking pigs into Sichuan province from another region.

The last confirmed outbreak on a farm was more than seven months ago, on June 5, in Yunnan province, according to the ministry's website.

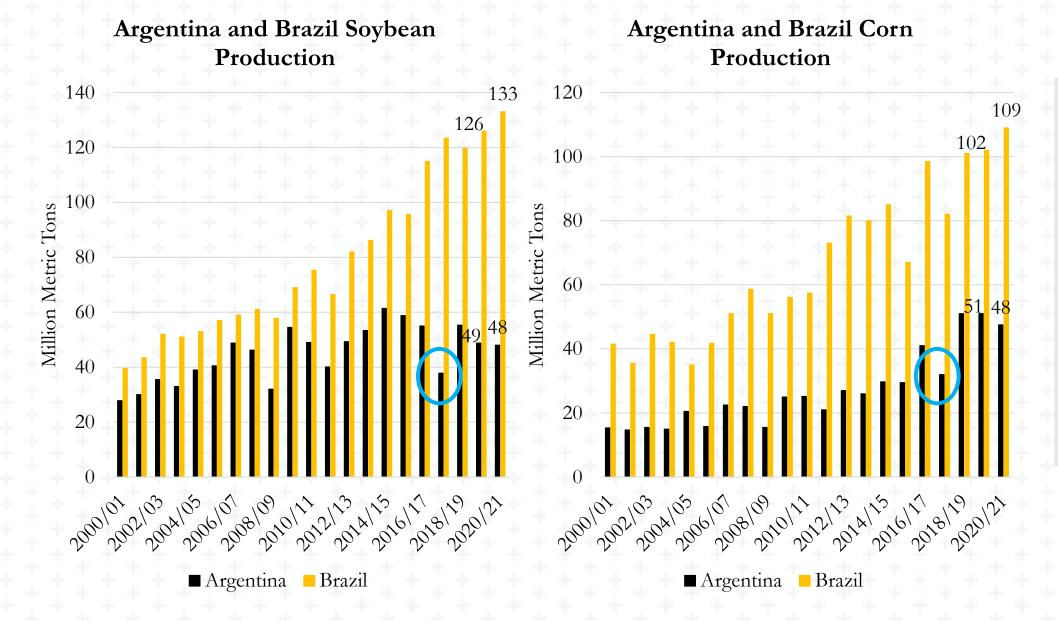
### **African Swine Fever**

### Chinese Soybean Meal Domestic Consumption



Weekly Soybean meal crush exceeded 2mmt 23 times in 2020. It only did it 5 times between 2017-2019.

### **South American Production**



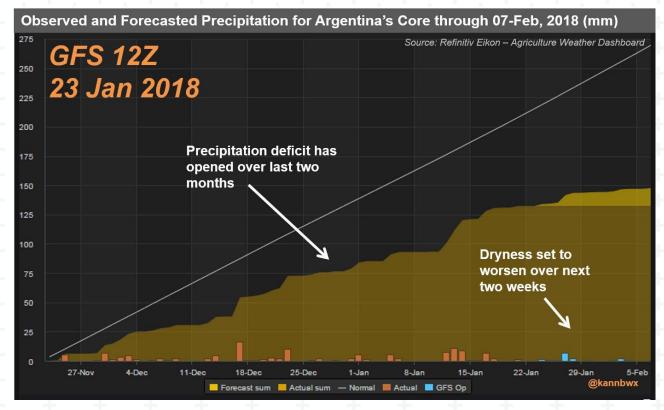
#### In January USDA Lowered Corn Production

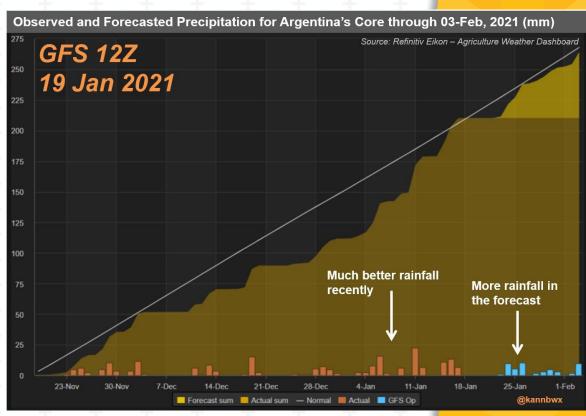
- 1.5 mmt for Argentina
- 1 mmt for Brazil

### Lower Soybean Production

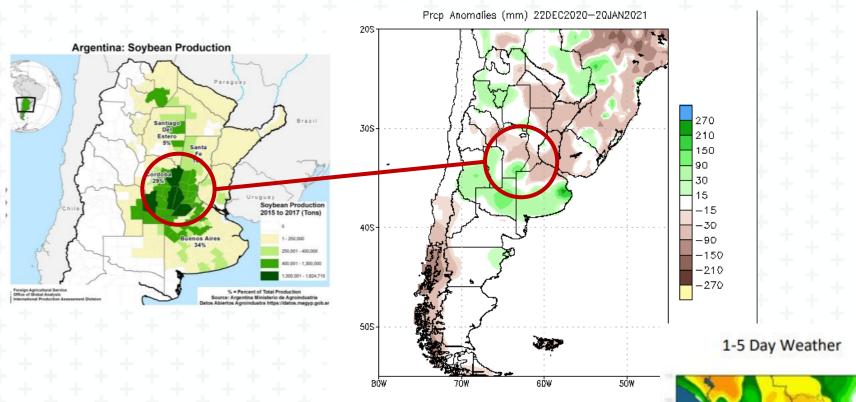
- 2 mmt for Argentina
- Nothing for Brazil

### South American Weather

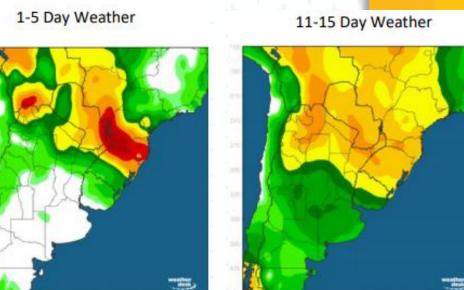




# South American Weather- Arg.



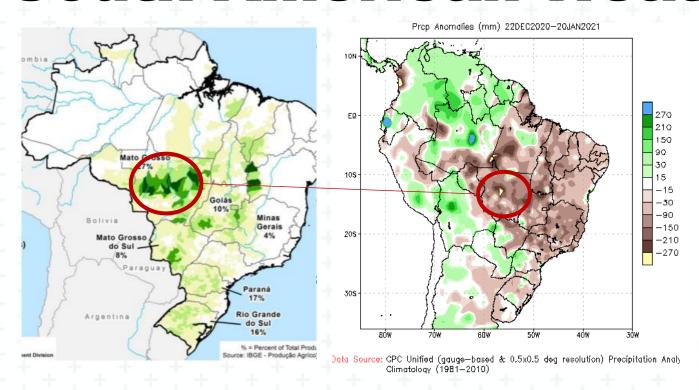
Data Source: CPC Unitied (gauge—based & 0.5x0.5 deg resolution) F Climatology (1981—2010)

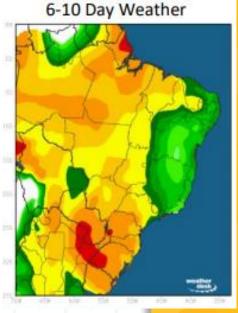


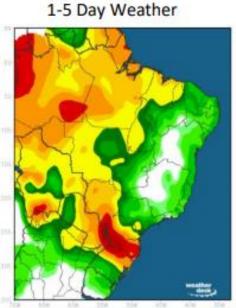
6-10 Day Weather

Image Credit: StoneX

### South American Weather- Brazil







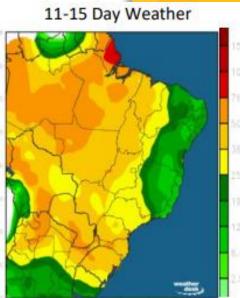
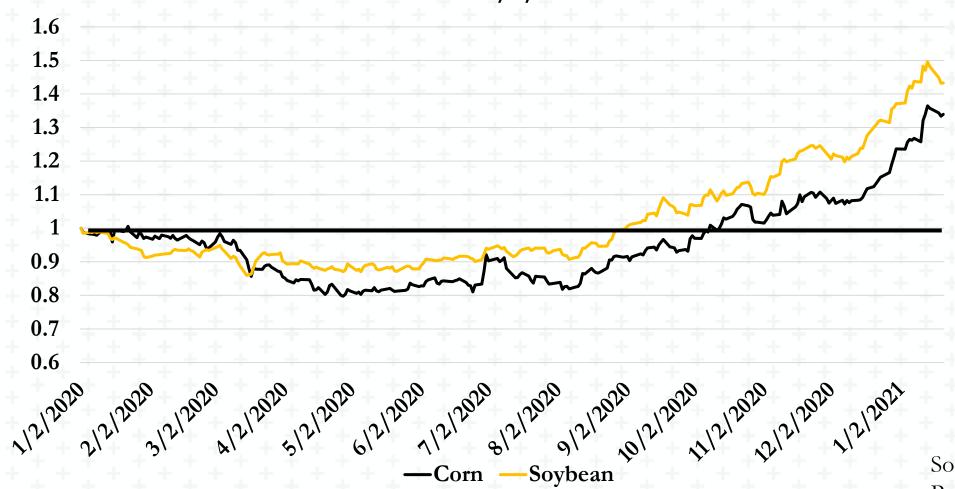


Image Credit: StoneX

### **Most Active Futures Contracts**

Most Active Futures Contracts for Corn and Soybeans Index= 1/1/2020



Source: DTN ProphetX

# January WASDE- Jan. 12th

World Agricultural Supply and Demand Estimates Crop Production- Annual Summary 1<sup>st</sup> Quarter Grain Stocks Winter Wheat Seedings World Markets and Trade- Grains and Oilseeds

### 2020/21 U.S. Crop Production

* * * * * *		Corn	Soybeans		
	Yield	Yield Production		Production	
NASS. January	172.0	14.182	50.2	4.135	
Trade Average	175.3	14.470	50.5	4.158	
NASS November	175.8	14.507	50.7	4.170	
2019/20 Final	167.5	13.620	47.4	3.552	

### 2020/21 Ending Stocks

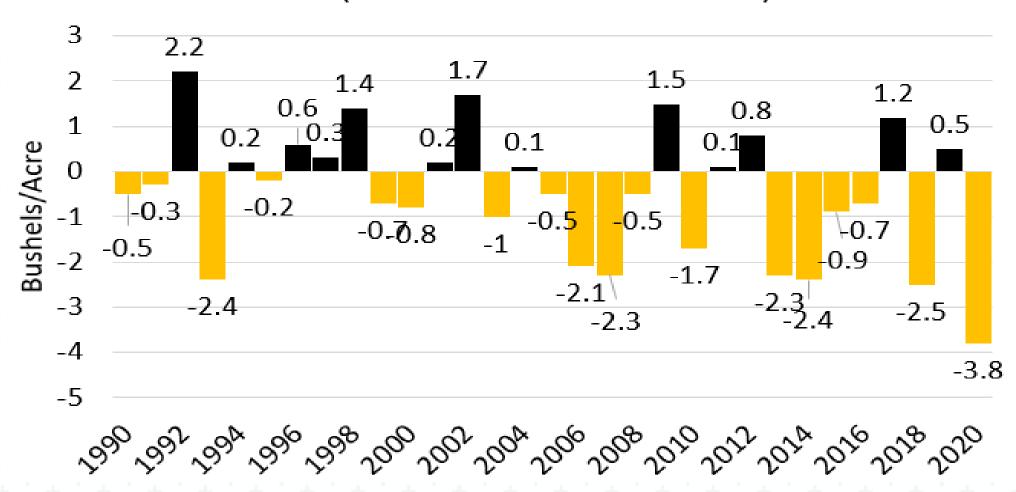
	l	JS	World		
+ + + + + +	Jan. (Dec) Estimat		Jan. (Dec.)	Estimate	
Corn	<b>1.552</b> (1.702)	1.599	<b>283.83</b> (288.96)	283.53	
Soybeans	<b>0.140</b> (0.175)	0.139	<b>84.31</b> (85.64)	82.66	
Wheat	<b>0.838</b> (0.862)	0.859	<b>313.19</b> (316.5)	313.19	

### 1st Quarter Grain Stocks (Dec. 1)

÷	Corn	Soybeans	Wheat
December 1	11.322	2.933	1.674
Estimate	11.951	2.920	1.695
Surprise	629	+0.013	0.021

### **US Corn Yield- Nov. to Final**

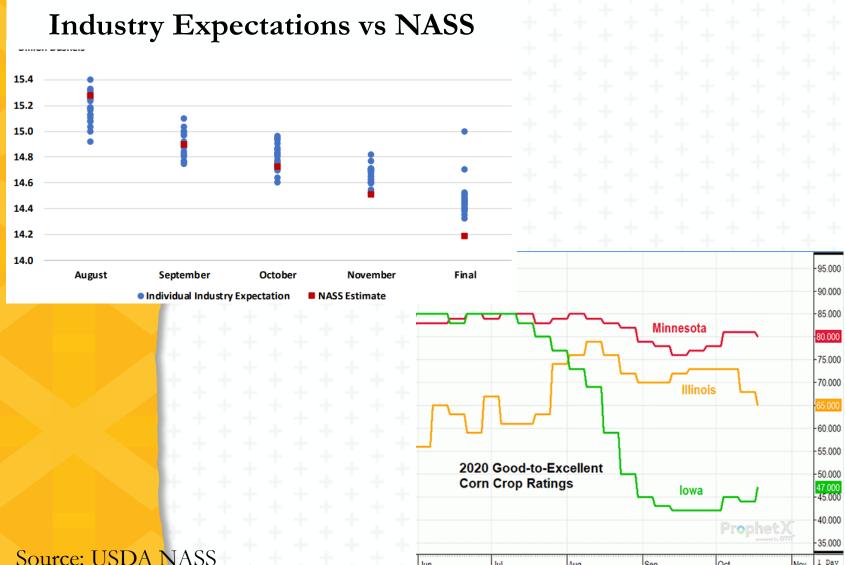
Change in US Corn Yield (Final -November Estimate)



Source: USDA NASS

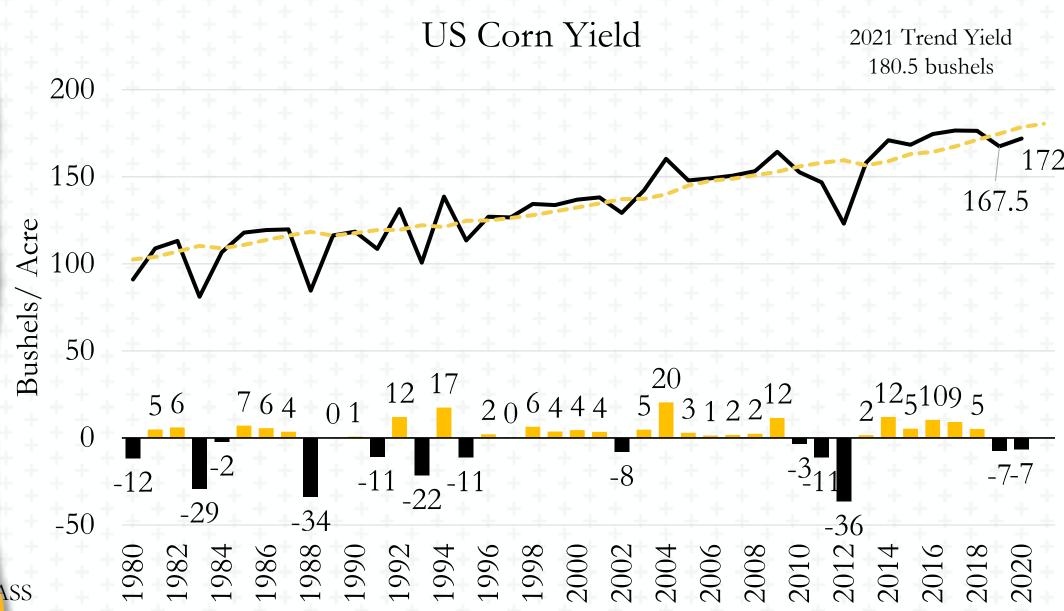
# **U.S.** Corn Yield- Change

2020 US Corn Production



Ranked by 2019 Production	2020 Nov.	2020 Jan.	Nov- Jan Change
Iowa	184	178	-3.3%
Illinois	195	192	-1.5%
Nebraska	185	181	-2.2%
Minnesota	202	192	-5.0%
Indiana	189	187	-1.1%
S. Dakota	165	162	-1.8%
Kansas	132	134	1.5%
Ohio	168	171	1.8%
Wisconsin	184	174	-5.4%
Missouri	167	171	2.4%
N. Dakota	145	139	-4.1%
Michigan	160	154	-3.8%
Kentucky	181	184	1.7%

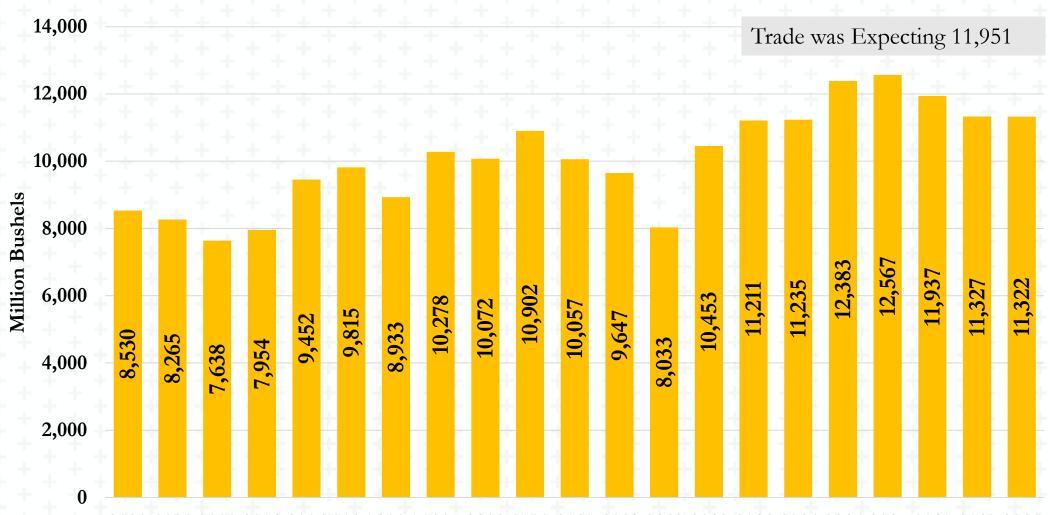
### **US Corn Yield and Deviation**



Source: USDA NASS

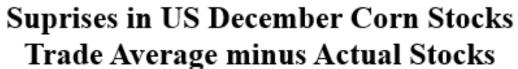
# 1st Quarter Grain Stocks-Corn

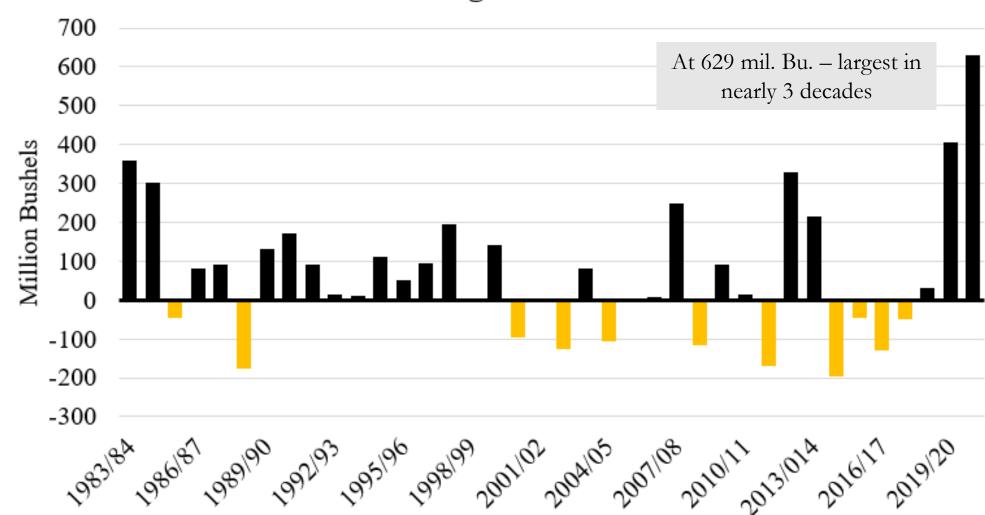
**December 1st Corn Stocks** 



2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020

# 1<sup>st</sup> Quarter Corn Stocks





Stocks were 629 million bushels lower than traders expected.

However, there was the 288 mil. Bushel reduction in productions from what traders expected.

Subtracting 288 from 629 equals 341 million bushels of more demand than what traders expected.

So much for decreased feed use due to COVID.

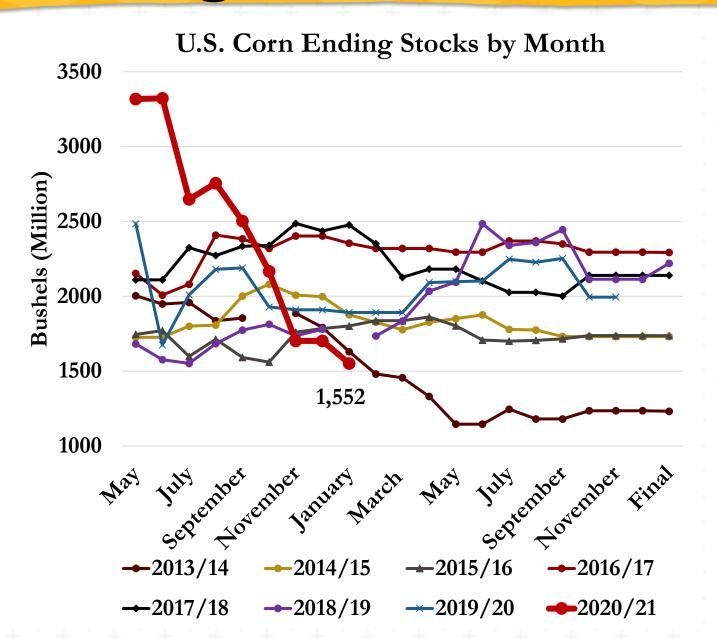
Source: USDA NASS and Reuters

### Projected 2020/21 Feed and Residual Use

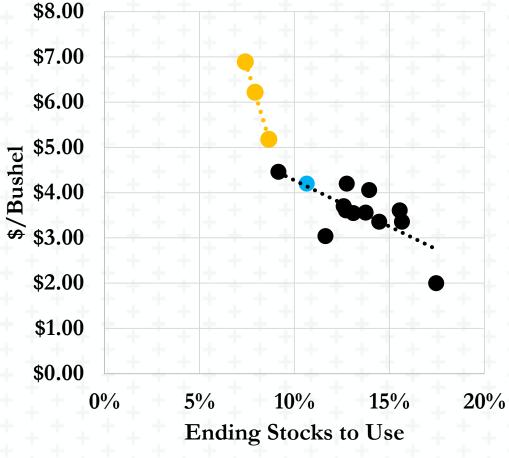
Implied First Quarter Feed and Residual Use= 2,725.7 million bushels.

Percent of Total Feed Use used During the First Quarter	Implied 2020/21 Feed and Residual Use
<b>37%</b> Observed During 1996/97- 2005/06	7,367 mil. Bu.
<b>39%</b> Observed During 2006/07- 2009/10	6,989 mil. Bu.
<b>45%</b> Observed During 2014/15- 2019/20	6,057 mil. Bu.
USDA 20/21 Jan. Projection	5,650 mil. Bu.

# **Ending Stocks of US Corn**



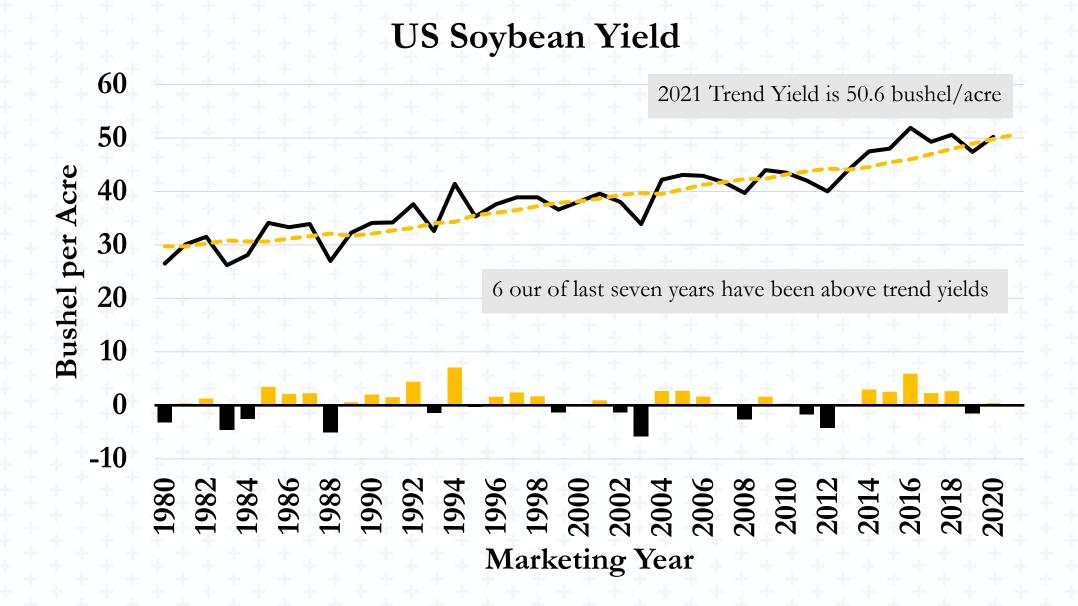
# Corn Stocks to Use in Relations to Price Received



Source: USDA

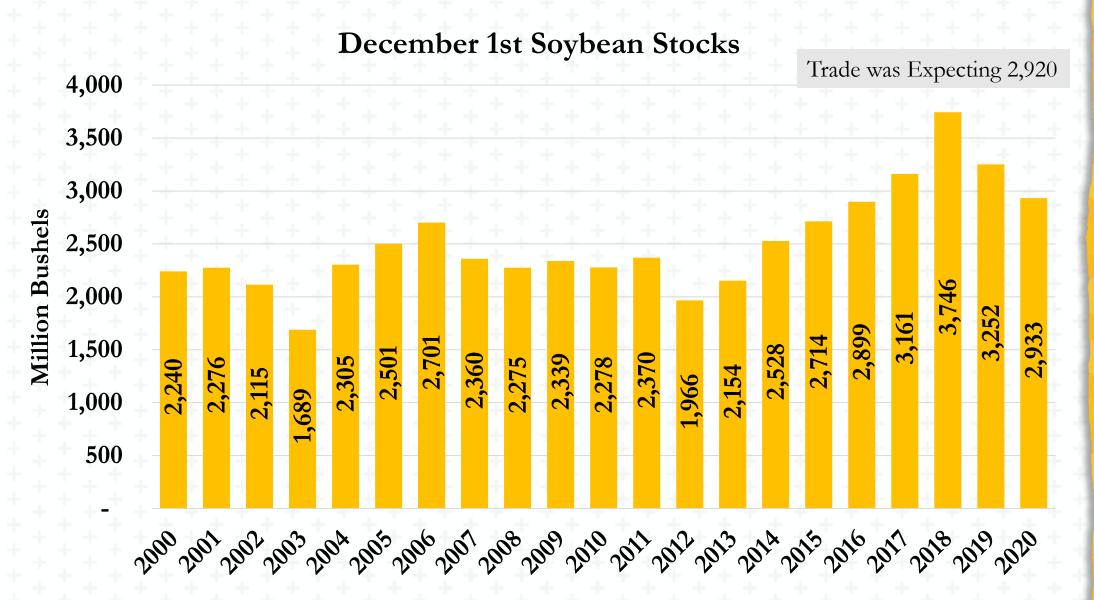
WAOB

# **US Soybean Yield and Deviation**



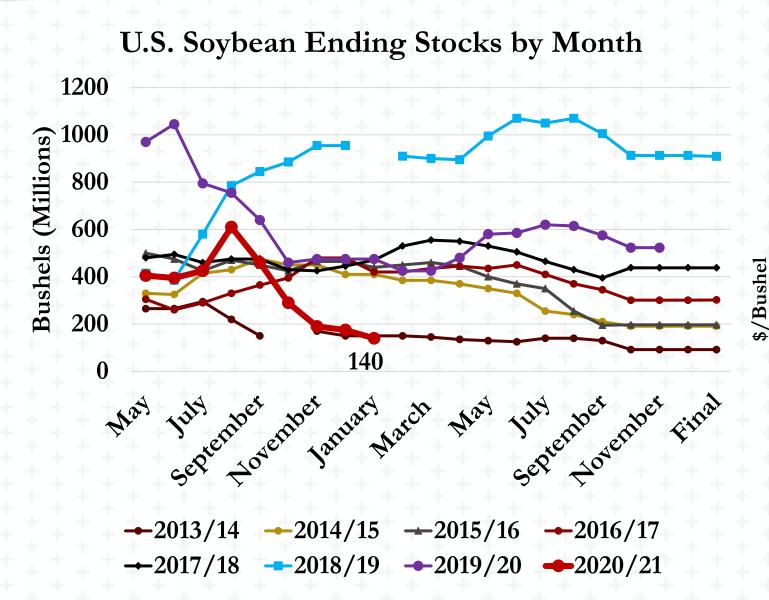


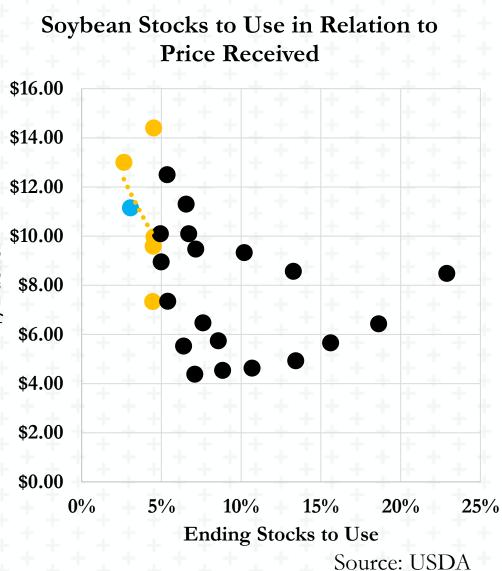
# 1<sup>st</sup> Quarter Grain Stocks- Soybeans



Source: USDA NASS

### **Ending Stocks of US Soybeans**



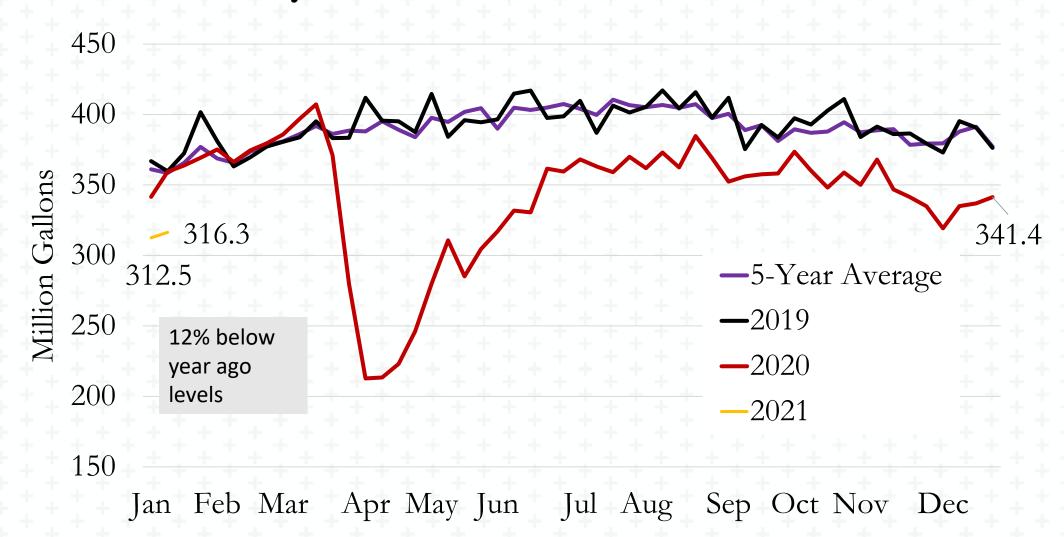


WAOB



# Corn Demand- Gas Consumption

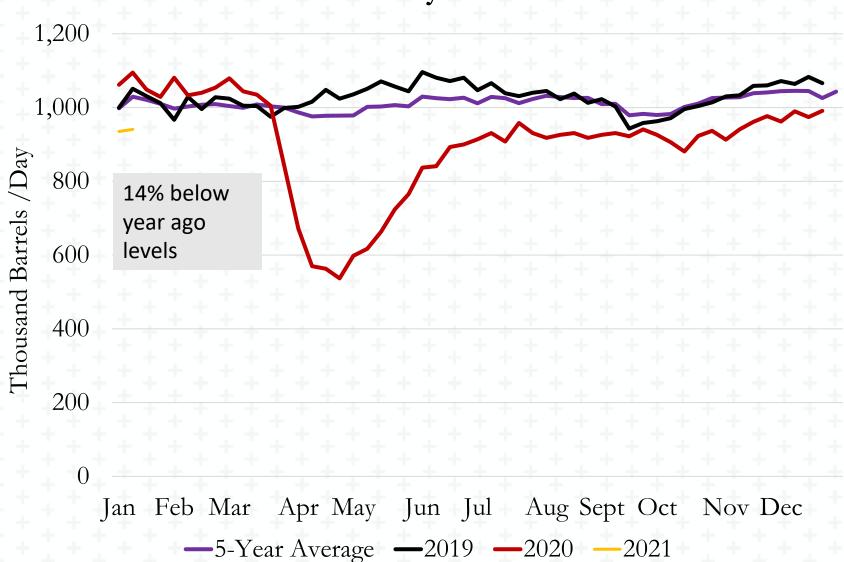
Weekly Demand of Finished Motor Gasoline



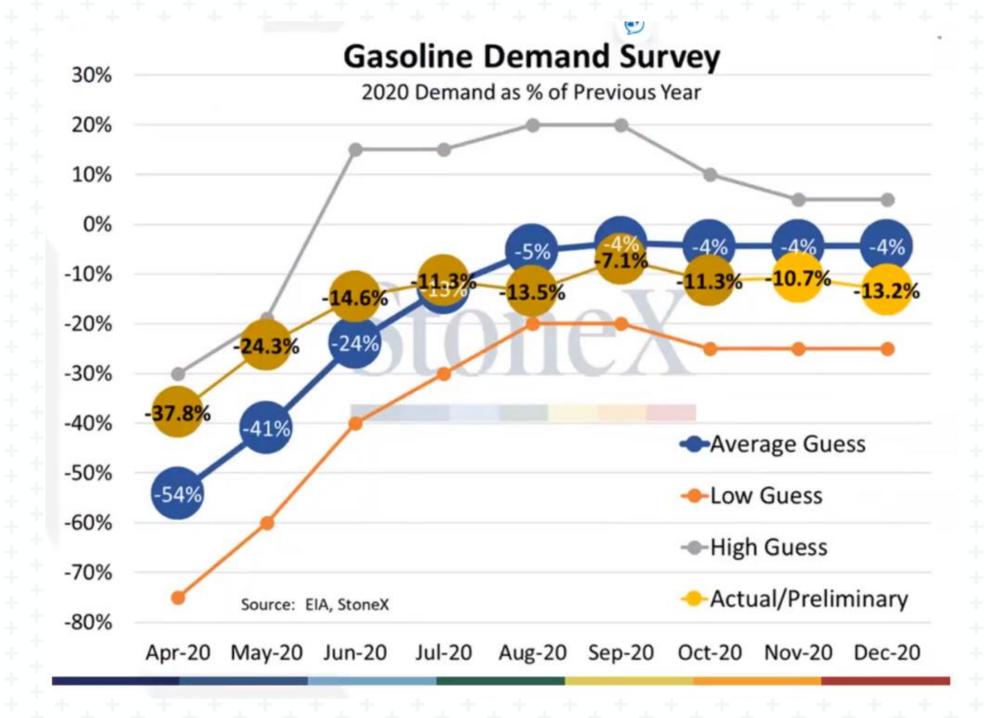
Source: Energy Information Agency

### **Corn Demand- Ethanol Production**

Us Weekly Ethanol Production



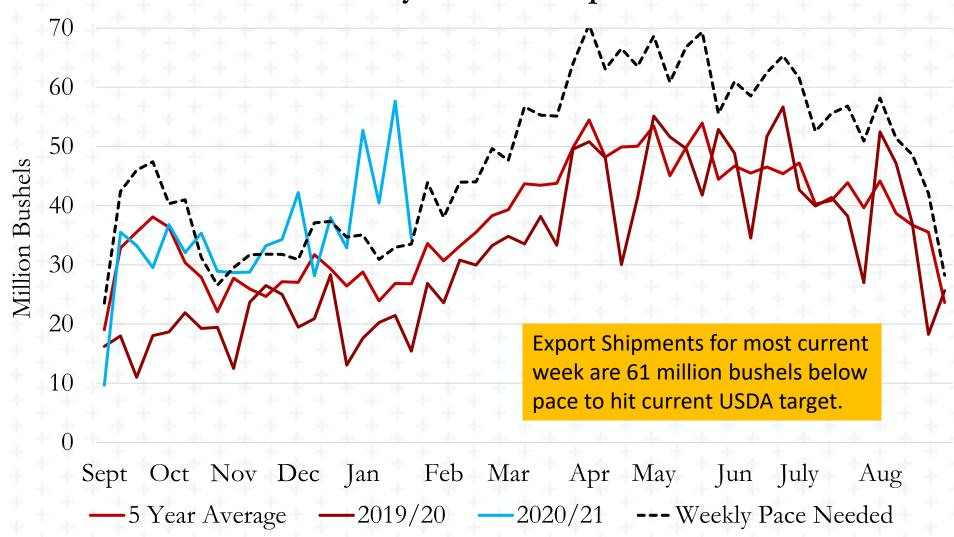
Source: Energy Information Agency



Source: StoneX

# **Corn Demand-Exports**

Weekly US Corn Exports



Source: Author Calculation using USDA FAS Data

# World Supply of Corn

China just updated their numbers to show there is a production to use gap of 28 mmt.

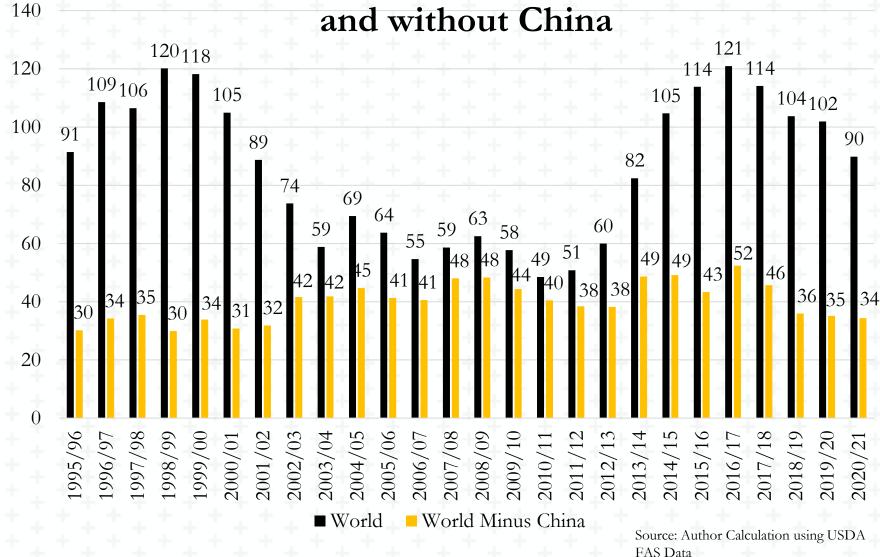
Thoughts: Would require a change in Chinese Policy.

- Self-Sufficiency
- Other Grains
- Flood their domestic market

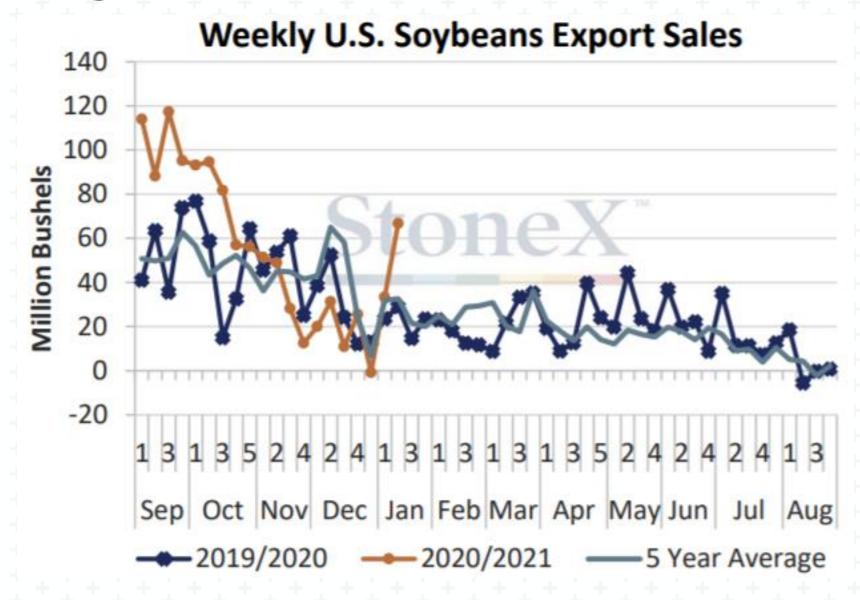
#### **Increasing Chinese Corn Supply**

Dec. 31 report on development outlines that "ethanol is okay only if it stocks aren't tight" and that "corn and corn acres for industry should not compete with food security."

### World Days of Corn Supply Available with



# Soybean Demand-Exports



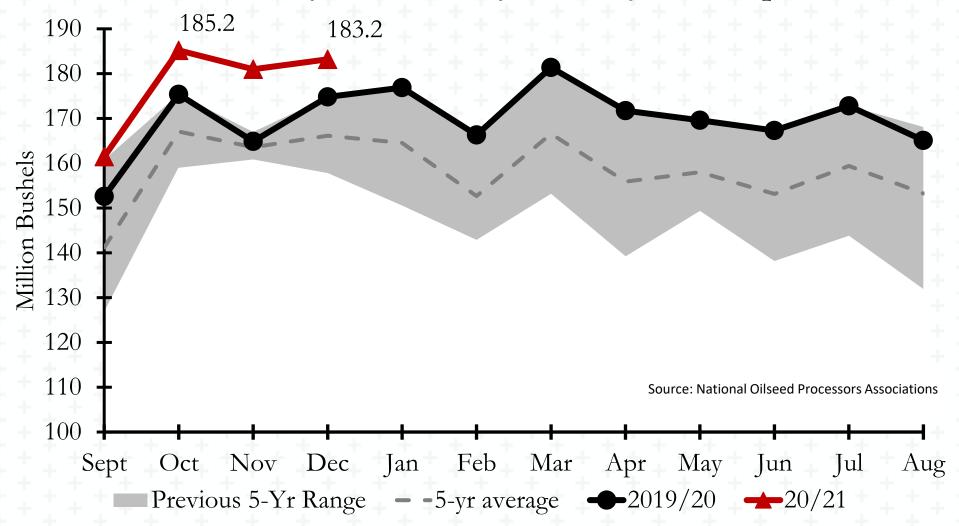
21% ahead of Current USDA Export Pace

❖ 458 million bushels!!

Image Source: StoneX

## Soybean Demand-Crush

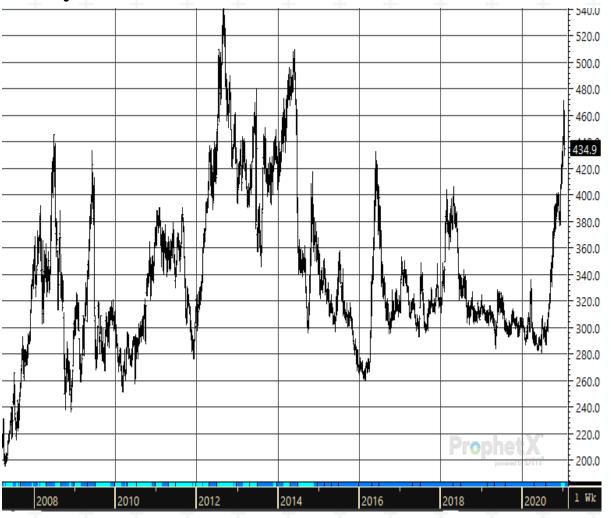




- ❖ December was 2 million bu. Below trade estimates, but 8.4 mil. Bu. above last December.
- Second all-time highest month- behind October 2020.
- ❖ All four months of 2020/21 have set new monthly records!!
- ❖ Implied crush signals a 42 million bushel increase over last year. USDA is up 35 million year over year.

## What's driving Soybean Crush?

Soybean Meal- Most Active Contract



Labor Concerns in Argentina

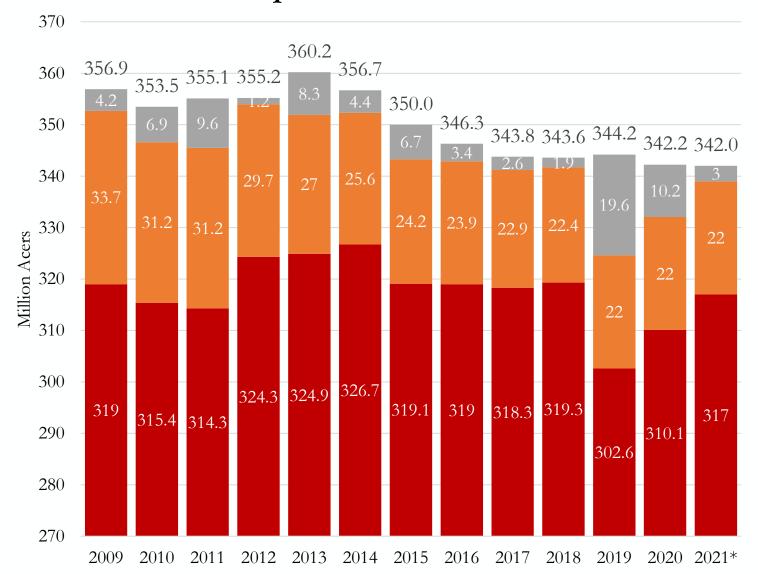
❖ Down roughly 2/3 in December

Soybean Crush- Replacement Values

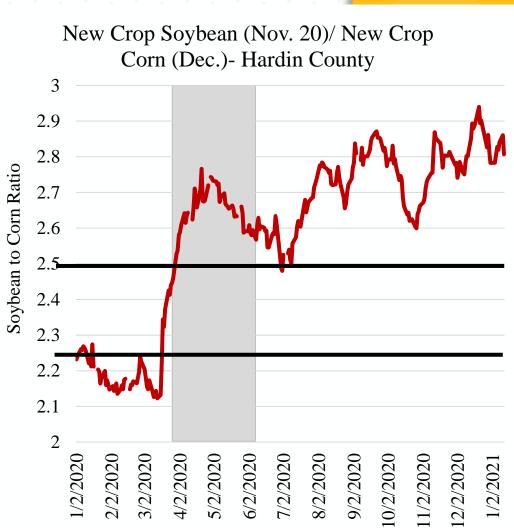


### **Available Acres-2021**

#### **Expectations for Acres**



IHS Markit/Informa put their 2021 Corn Acres at 94.2 up from 91.1 in December, 90.5 for Soybeans



### Corn Balance Sheet: Shrinking Production, Demand?

Corn Balance Sheet	Unit	2016/17	2017/18	2018/19	2019/20	2020/21 Jan. Est. (Δ Sept.)	Ben's 21/22 Est.
Area Planted	Mil.ac.	94.0	90.2	88.9	89.7	90.8 (-1.2)	90.5
Area Harvested	Mil. Ac.	86.7	82.7	81.3	81.3	82.5 (-1)	83.1
Yield	Bu./acre	174.6	176.6	176.4	167.5	172.0 (-6.5)	180.5
Beg. Stocks	Mil. Bu.	1,737	2,293	2,140	2,221	1,919 (-334)	1,552
Production	Mil. Bu.	15,148	14,609	14,340	13,620	14,182 (-718)	15,000
Imports	Mil. Bu.	57	36	28	42	25	30
<b>Total Supply</b>	Mil. Bu.	16,942	16,939	16,509	15,883	16,127 (-1,051)	16,567
Feed and Res.	Mil. Bu.	5,470	5,304	5,429	5,827	5,650 (-175)	5,700
Food, Seed, In	Mil. Bu.	6,885	7,057	6,793	6,282	6,375 (-150)	6,450
Ethanol Crush	Mil. Bu.	5,432	5,605	5,378	4,852	4,950 (-150)	5,025
Exports	Mil. Bu.	2,294	2,438	2,066	1,778	2,550 (+225)	2,300
Total Use	Mil. Bu.	14,649	14,798	14,288	13,887	14,575 (-100)	14,450
Ending Stocks	Mil. Bu.	2,293	2,140	2,221	1,919	1,552(-951)	2,117
Farm Price	\$/Bu.	\$3.36	\$3.36	\$3.61	\$3.56	\$4.20 (+\$0.70)	\$3.65

Source: USDA WAOB

### Soy Balance Sheet: Surprising Yields, Trade Optimism

Corn Balance Sheet	Unit	2016/17	2017/18	2018/19	2019/20	2020/21 Jan. (Δ Sept.)	Ben's 21/22 Est.
Area Planted	Mil. Acres	83.4	90.2	89.2	76.1	83.1 (-0.7)	90.5
Area Harvested	Mil. Acres	82.7	89.5	87.6	74.9	82.3 (-0.7)	88.4
Yield	Bu./Acres	52.0	49.3	50.6	47.4	50.2 (-1.7)	51.0
Beg. Stocks	Mil. Bu.	197	302	438	909	525 (-52)	140
Production	Mil. Bu.	4,296	4,412	4,428	3,552	4,135 (-178)	4,508
Imports	Mil. Bu.	22	22	14	15	35 (+20)	30
Total Supply	Mil. Bu.	4,515	4,735	4,880	4,476	4,695 (-208)	4,678
Soy Crush	Mil. Bu.	1,901	2,055	2,092	2,165	2,220 (+20)	2,205
Exports	Mil. Bu.	2,166	2,134	1,752	1,676	2,230 (+105)	2,200
Seed	Mil. Bu.	105	104	88	96	103 (+3)	105
Residual	Mil. Bu.	41	5	39	16	22 (-16)	25
Total Use	Mil. Bu.	4,214	4,297	3,971	3,953	4,555 (+113)	4,535
Ending Stocks	Mil. Bu.	302	438	909	525	140 (-320)	143
Farm Price	\$/Bu.	\$9.47	\$9.33	\$8.48	8.57	\$11.15 (+1.90)	\$11.80

Source: USDA WAOB

# **Key Take Aways**

- ❖ Several Factors continue to add downside risk
  - ❖ COVID-19
  - South American Weather
  - Trade
- ❖ Fundamentals for corn and soybeans have greatly improved and support current prices.
  - ❖ All attention was given to the USDA corn yield adjustment, but corn feed and residual demand was also very impressive.
- \* Expectations are that Soybean prices may continue to decline as Brazils Harvest mitigates short-term supply concerns.
  - ❖ World Supply and Demand Fundamentals still point to prices remaining well above the depressed levels observed before August
- ❖ 2021 acreage remains a key question.
  - ❖ Profitability gives soybeans the edge against most crops
  - ❖ But spring weather is a big factor, and
  - \* Farmers just love to plant corn.

