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# FARM FOUNDATION® FORUM

2022 ECONOMIC OUTLOOK FOR AGRICULTURE DECEMBER 16, 2021



Today's webinar is made possible by a grant from Farm Credit



#FarmFoundationForum



## SHARI ROGGE-FIDLER

President & CEO Farm Foundation



## MEET FARM FOUNDATION

A 501(C)(3) NON-PROFIT AT THE INTERSECTION OF AGRICULTURE AND SOCIETY







# OUR MISSION AND VISION GUIDE OUR WORK

#### **MISSION:**

To **build** trust and understanding at the intersections of agriculture and society.

#### **VISION:**

To **build** a future for farmers, our communities, and our world.



#### BECOME A FRIEND OF FARM FOUNDATION

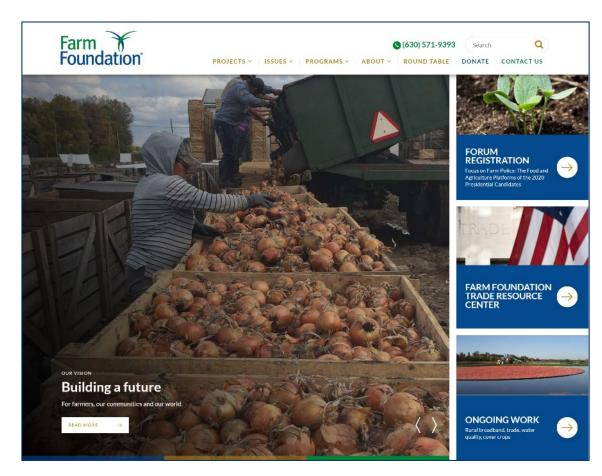


#### See link in chat function

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#### **IMPORTANT NOTES**

- Submit questions by clicking on the Q&A Button at the bottom of your screen.
- Please include your name and company so questions may be contextually understood.
- Due to time limits, we may not be able to ask all questions submitted.
- This Forum is being recorded and will be posted on our website at farmfoundation.org as well as the Farm Foundation YouTube channel.
- Please take the short survey at the conclusion of the Forum.





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2022 ECONOMIC OUTLOOK FOR AGRICULTURE

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### **GREGG DOUD**

Moderator
Vice President of Global Situational Awareness
And Chief Economist
Aimpoint Research



# Farm (Foundation®



## DR. AMANDA COUNTRYMAN

Associate Professor of Agricultural Economics Colorado State University



## AGRICULTURAL TRADE AND POLICY OVERVIEW

- U.S. Agricultural Trade Snapshot
- U.S.-China Trade
- Trade Policy Highlights
- Global Challenges and Uncertainty



# OUTLOOK FOR U.S. AG TRADE

Ag Trade Forecast FY 2022
-Exports at Record \$175.5 bn
-Imports at \$165.0 bn

#### U.S. agricultural trade

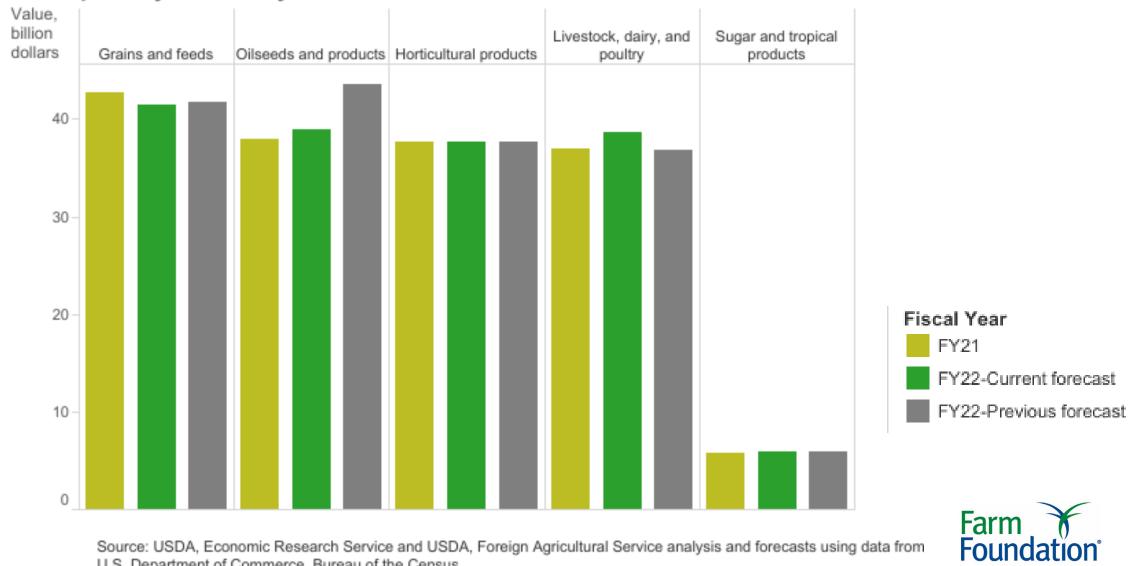


Source: USDA, Economic Research Service and USDA, Foreign Agricultural Service analysis and forecasts using data from U.S. Department of Commerce, Bureau of the Census.

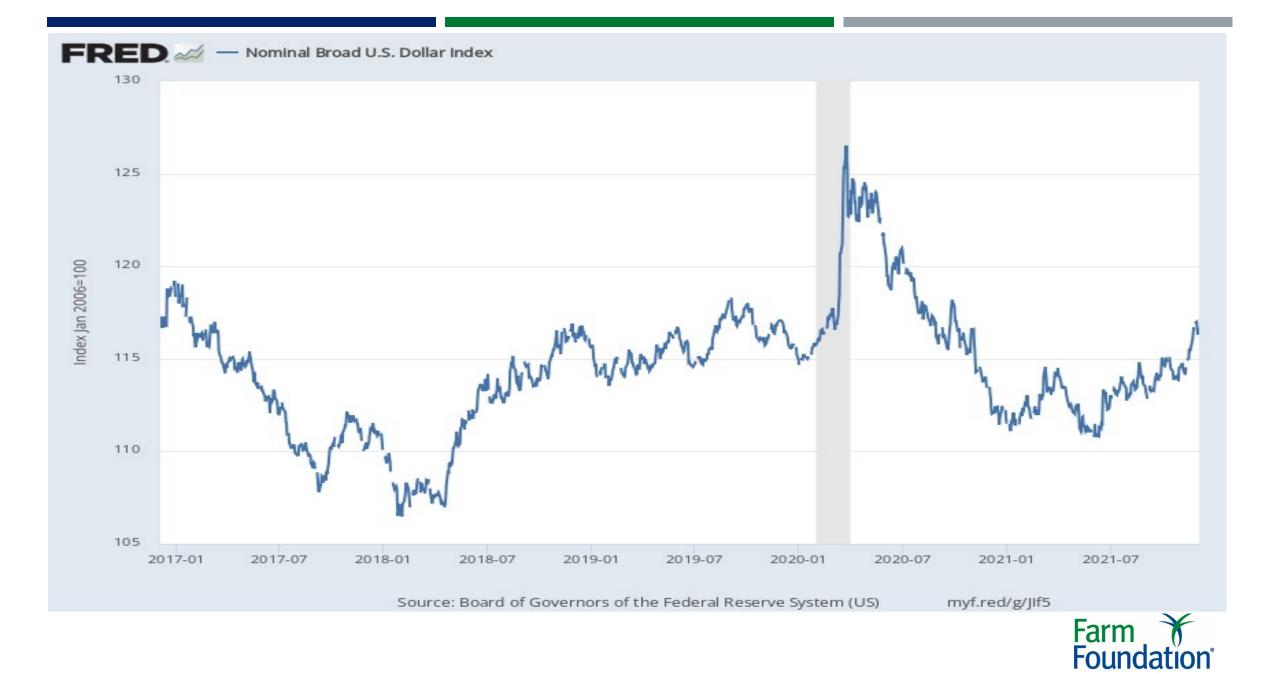


#### U.S. AG EXPORTS

#### U.S. exports by commodity



Source: USDA, Economic Research Service and USDA, Foreign Agricultural Service analysis and forecasts using data from U.S. Department of Commerce, Bureau of the Census.



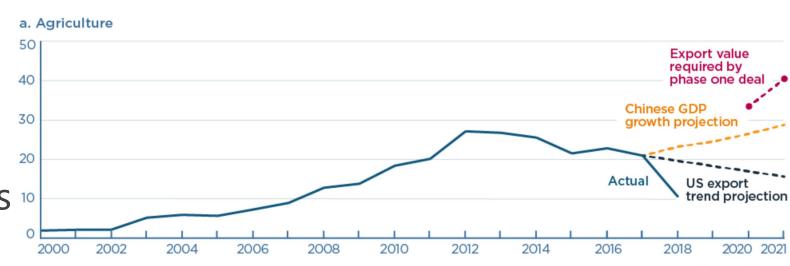
## U.S.-CHINA PHASE 1 TRADE DEAL

- Tariffs
  - September 2020 Tariffs cut in half (previous tariff rounds remain)

#### Commitments by China:

- Purchases of U.S. Goods & Services: >\$200bn over 2 years above 2017 levels
  - Agriculture, Manufacturing, Energy, Services
- Food Safety NTM Reductions
- Improved Foreign Investment
- Intellectual Property Protections
- Currency Commitments

Phase 2: Focus on SOEs 10



Total US exports to China by covered sector, billions USD

Source: Chad P. Bown (PIIE)

January 21, 2020

### **US-China trade war tariffs: An up-to-date chart**

a. US-China tariff rates toward each other and rest of world (ROW)







## US-China phase one tracker: China's purchases of US goods in 2020 and 2021

US exports and China's imports of all goods covered by the phase one deal, January 2020 through October 2021

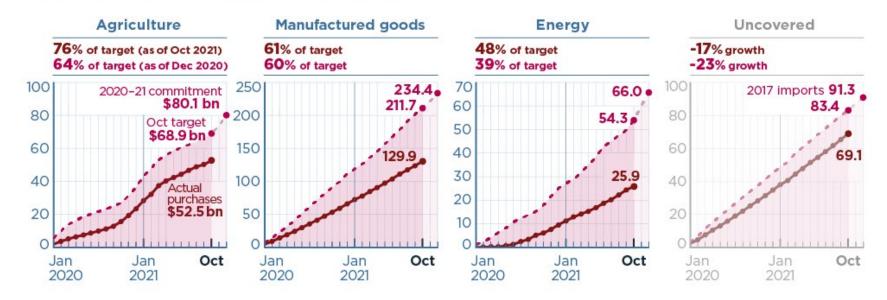
a. US exports and China's imports of all covered goods, billions USD



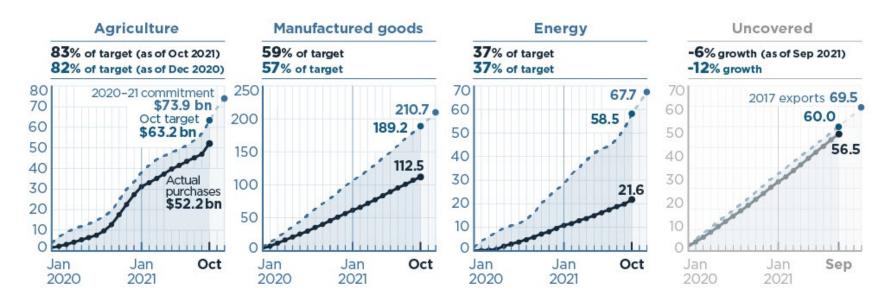




#### b. China's imports by product type, billions USD



#### c. US exports by product type, billions USD





b. China's imports by product type, billions USD

c. US exports by product type, billions USD

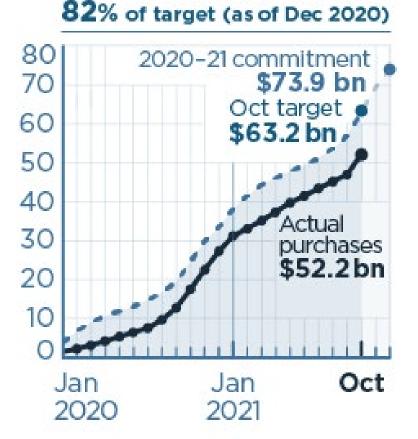
#### Agriculture

**76**% of target (as of Oct 2021) **64**% of target (as of Dec 2020)



#### Agriculture

83% of target (as of Oct 2021)





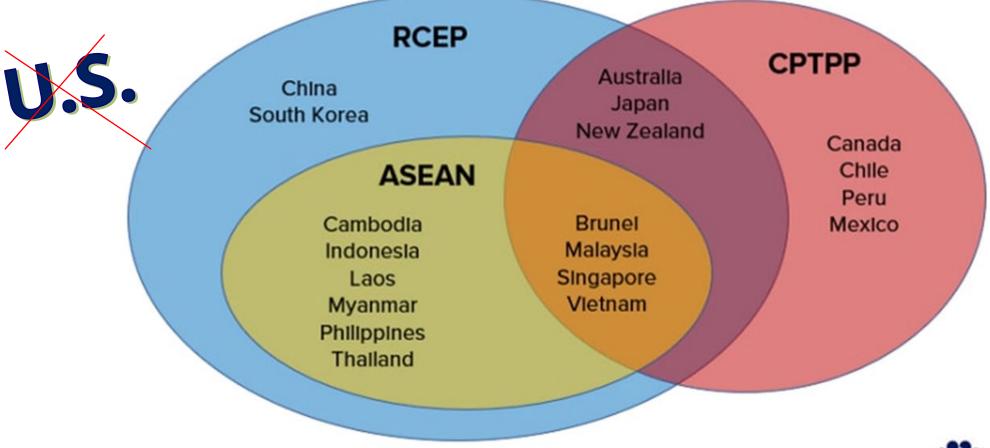
## Agricultural Trade Policy Overview

- U.S.-China Trade
  - What's next?
- USMCA Highlights
  - Agriculture: Dairy and Wheat (modest improvements)
  - Manufacturing: Autos
  - Modernization
    - Intellectual Property (biotechnology)
    - Investment
    - Labor and environment
- Japan-U.S. "Mini" Trade Agreement
  - Market Access Focused

- Captured most TPP ag market access
- CPTPP
  - 11 Pacific-Rim Countries Continued without U.S.
- RCEP
  - 15 countries; 10 ASEAN nations, South Korea, China, Japan, Australia and New Zealand
- U.S. Lags on Trade Deals
  - EU Expanding trade and influence
  - China petition for CPTPP



## Trade groupings involving Asia Pacific nations





#### POTENTIAL FOR NEW AGREEMENTS

- TTIP: U.S.-EU
- Increased market access, focused on SMEs
- Harmonize regulations for trade, labor, and environment
- Binding TRQs limit US Market Access

#### **Nontariff Measures**

- Reduced restrictions on conventional US production practices seems unlikely
- Livestock, Meat, Feed and Food Crop Production
  - Livestock/meat production constraints
  - Biotech restrictions on corn, soy rice
  - Fruits and vegetables: pesticide MRLs

- UK
- Kenya
- What about Southeast Asia?
- India remains a challenge



#### GLOBAL CHALLENGES AND UNCERTAINTY

- Uncertainty for U.S. trade policy: focus is on domestic policy & climate
  - U.S. lags as others move forward with trade agreements
- WTO future is uncertain
- Supply chain issues persist
- Unemployment remains puzzling
- Inflation is NOT transitory: 6.8% in November, highest in 39 years
- Fed is tapering; tightening monetary policy on the horizon
- COVID-19 continues
- Agriculture faring well relative to other sectors
  - Opportunities for innovation
  - Potential for shocks: AD/CVD, animal health, energy, geopolitical concerns



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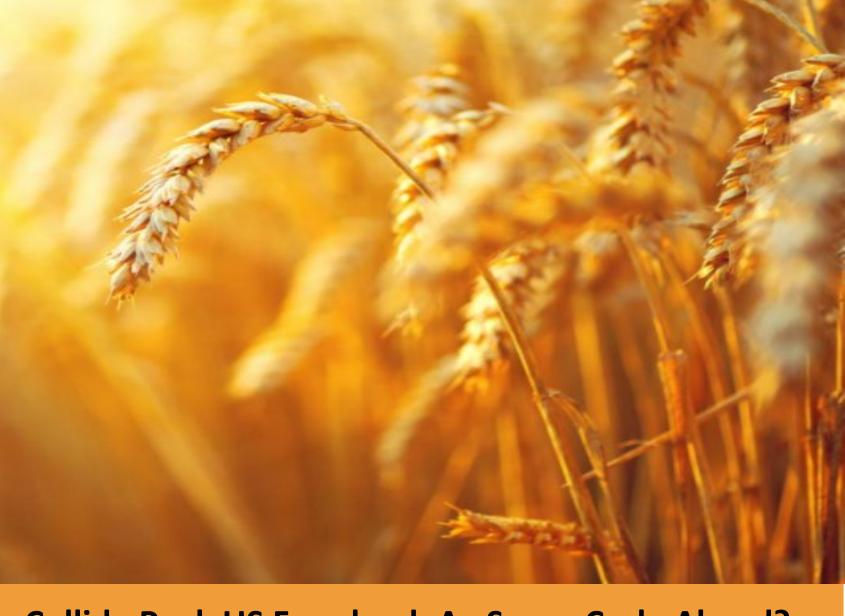
# DAN BASSE President AgResource Company







Daniel W Basse
President AgResource Company
Chicago, IL 60606
December 16, 2021
basse@agresource.com



Inflation/Climate Change Collide Peak US Farmland; Ag Super Cycle Ahead?

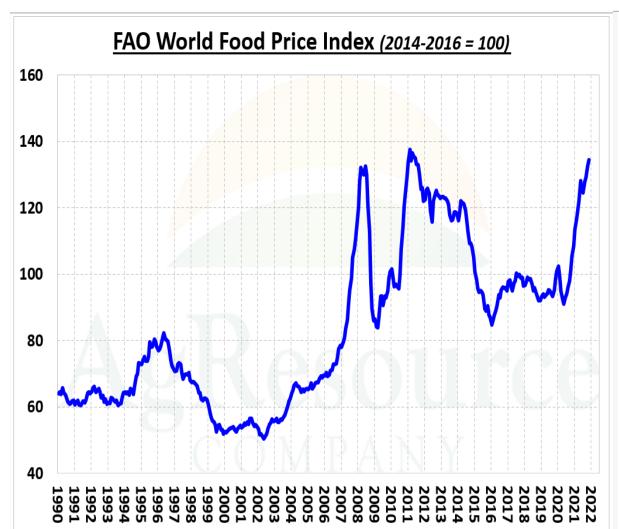


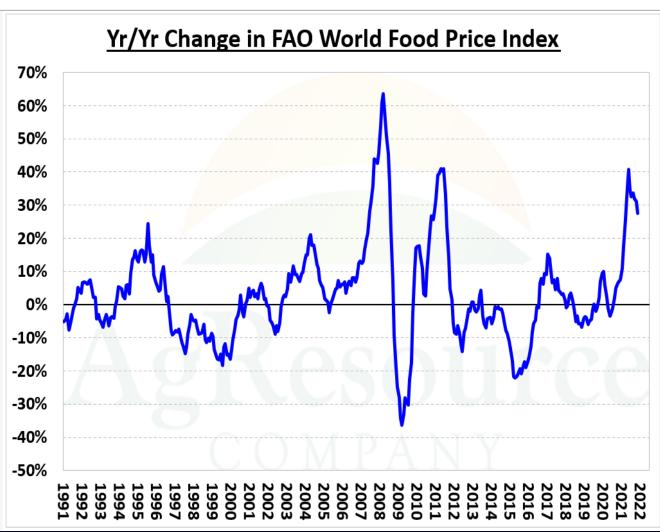


- A New Commodity Super Cycle should last for the next 2-3 years. Energy is the upside leader with inflation risks rising on underinvestment and the desire of politicians to be green and rebuild infrastructure. The world consumed more grain in 2021/22 than this year's record crop produced. The marketplace must secure extra acres in South America/Black Sea in 2022. The US at peak farmland?
- Biden sees himself as a Champion for Biofuels. Their low carbon footprint is a steppingstone to the electrification of 20% of the US transportation fleet by 2030. Biden will politically push biofuels and raise the pressure on USDA to pay farmers to sequester carbon. USDA sees farmers as part of the carbon answer in the 2023/24 US Farm Bill.
- Two New US Ag Demand Drivers: 1/China corn imports from the US/Ukraine and 2/US renewable diesel. Both will combine to raise farm profits to pull in an additional 15-20 Mil world crop acres into production by 2025. Most disruptive to American agriculture is renewable diesel. Like the US 2007 Energy Bill, renewable diesel will dramatically alter US crop acre mixtures in the coming years.
- US beef and dairy cow herds in liquidation. The decline in US protein supplies sets up a bullish dairy/beef outlook for 2022. The US dairy industry needs to play a more important role in US beef calf production. US cattle/beef prices to rise to record levels by 2023. Western US drought pushes forage prices to records as US hay acres fall to their lowest level since 1909.
- US farmland and farm incomes rise into 2024: China is the "demand pull" on world grain, meat and dairy demand. Yet China thru policy can reduce or increase food imports at will? One year they encourage massive grain/food imports while the next year they try to stamp out speculation. This adds to ag market volatility. China's food import policy aside, a multi year ag bull market is ahead with adverse weather amplifying the need for demand rationing. Raw material markets shine!

# World food price rises sharply on demand and supply chain breakdowns. Vegoils led the increase





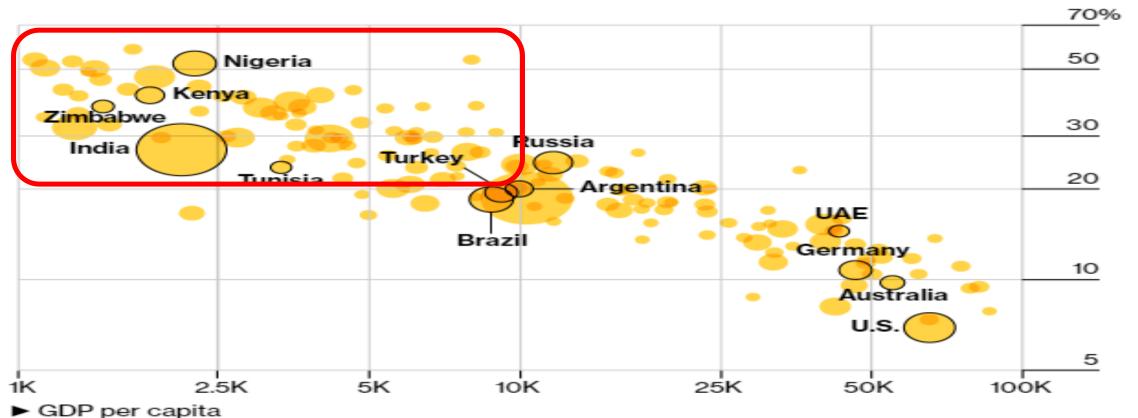


# Rising food prices produces new policy from world political leaders



Circle size = population

Share of consumer expenditure spent on food ▼

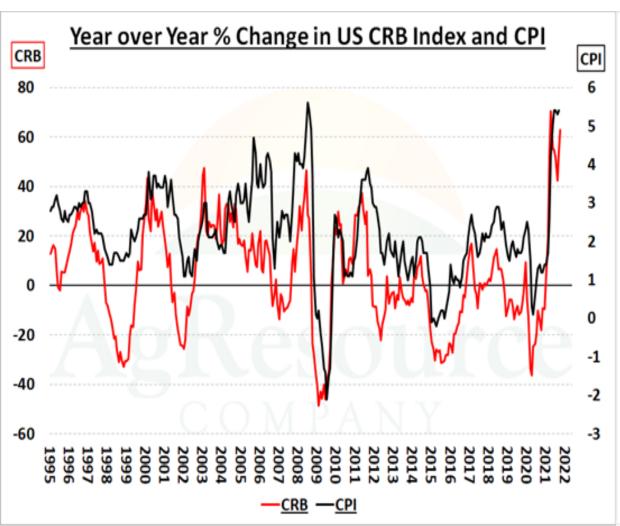


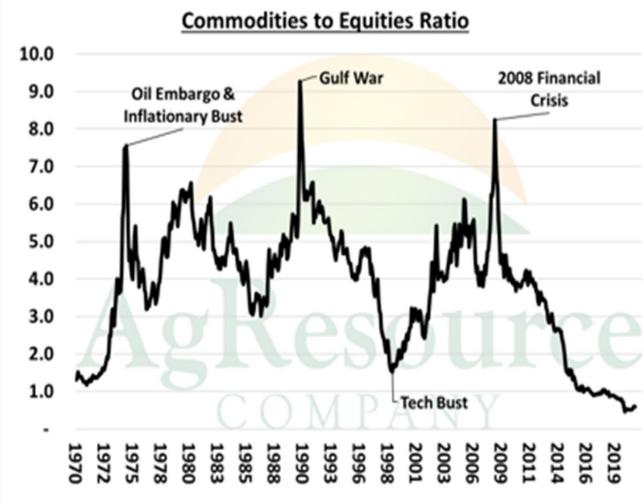
Source: World Bank

Note: Expenditure figures are from 2017. Population and GDP per capita figures are from 2019 or the most recent year available from World Bank. A log10 scale is used on both axes.

# :e

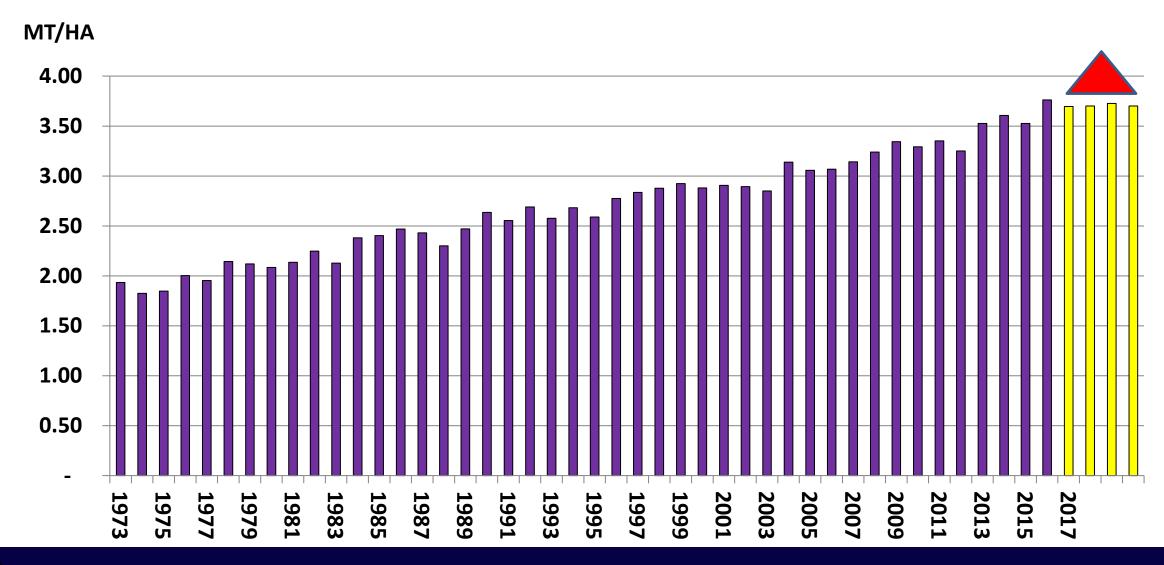






# Per Capita Global Grain, Wheat & Oilseed Yield Stagnates $A_{\mathbf{g}_{c}}$ Climate change offsets yield technology increase?

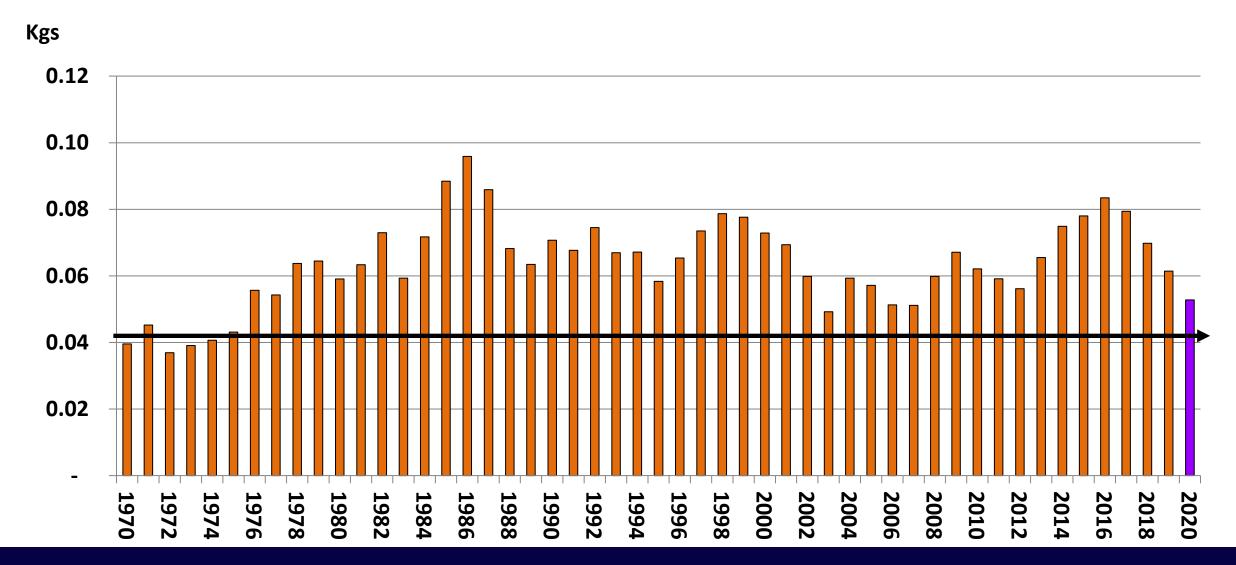




### Per Capita Grain & Oilseed Stocks Since 1970

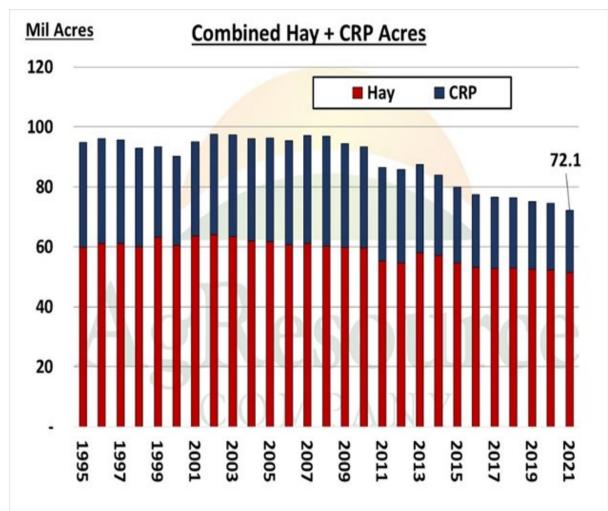


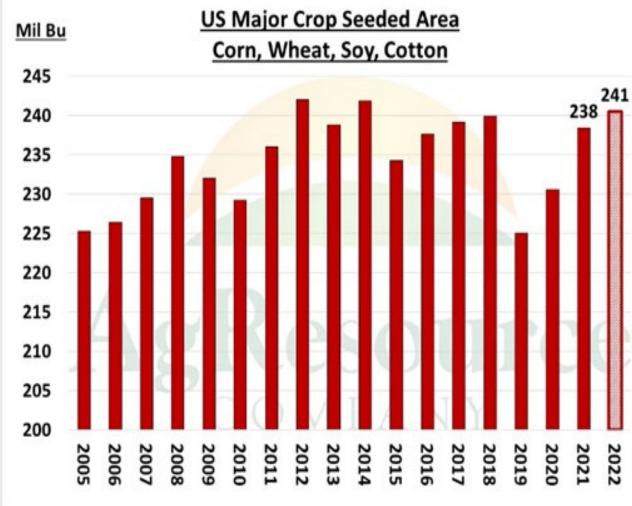
Corn, Wheat, Barley, Sorghum, Soy, Canola Stocks Combined



# Peak US Farmland? CRP/Hay land grab ends (25 Mil acre shift since 2010) Yield gains importance!

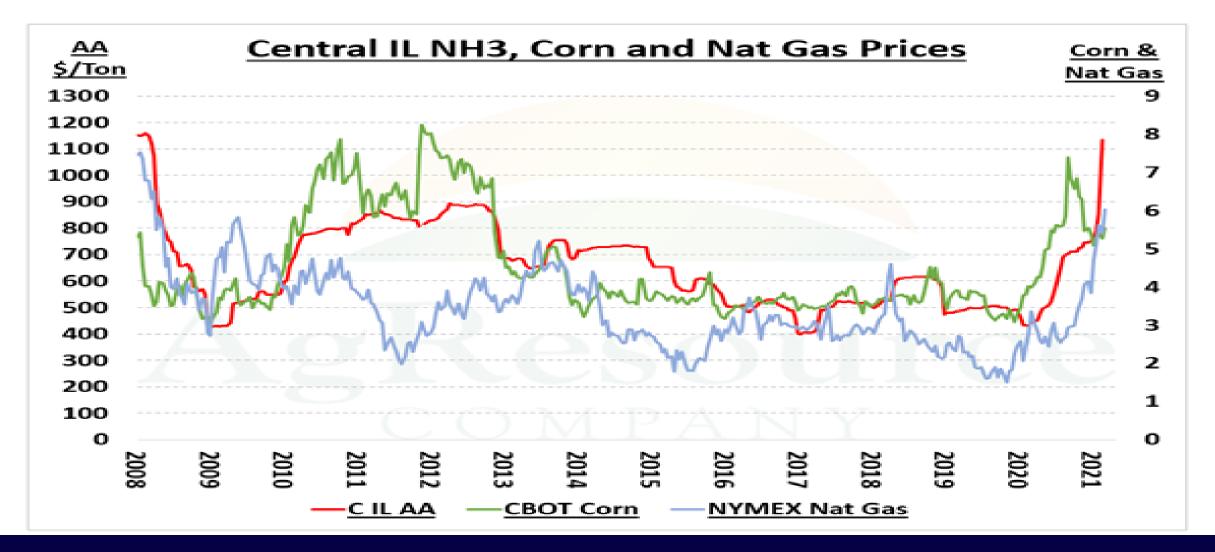






## AgResource

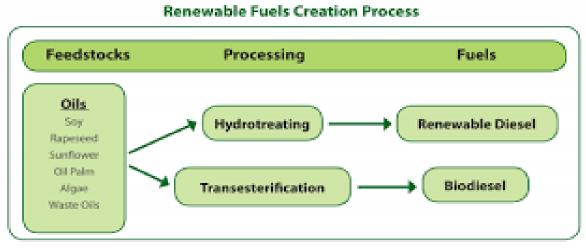
### Corn, fertilizer and natural gas price correlation; Corn is fertilizer over several years!



### New Ag Demand Drivers: China corn imports/ US Renewable Diesel



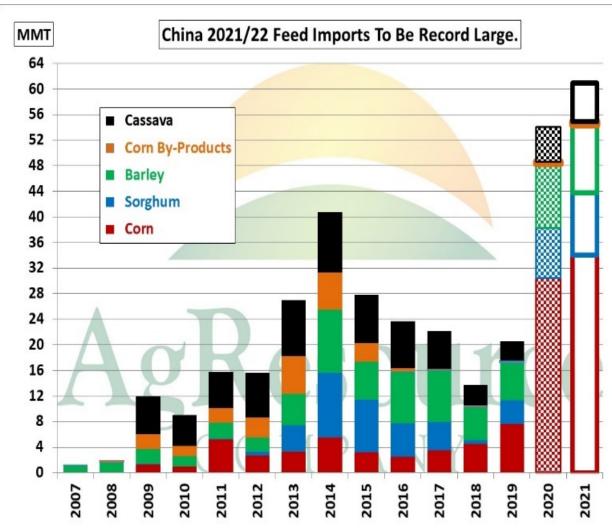








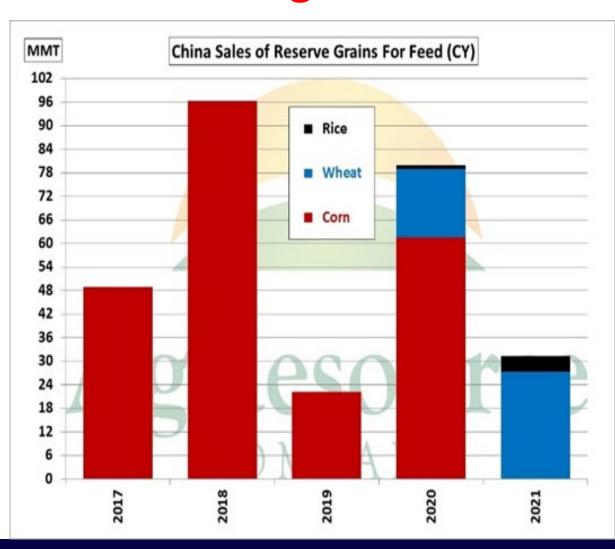


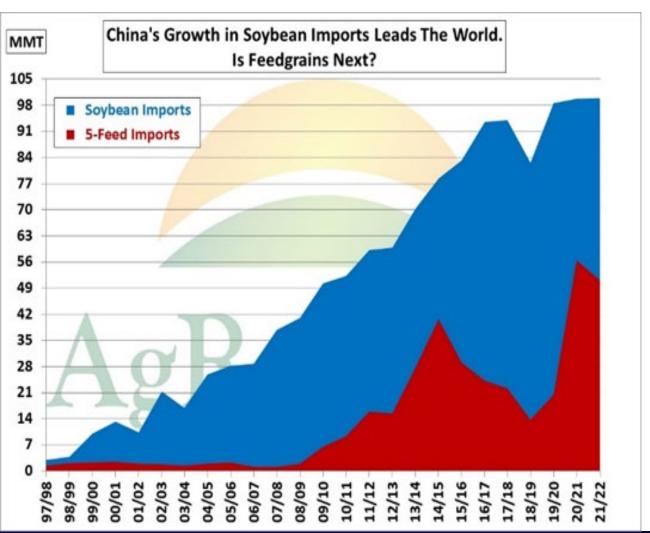






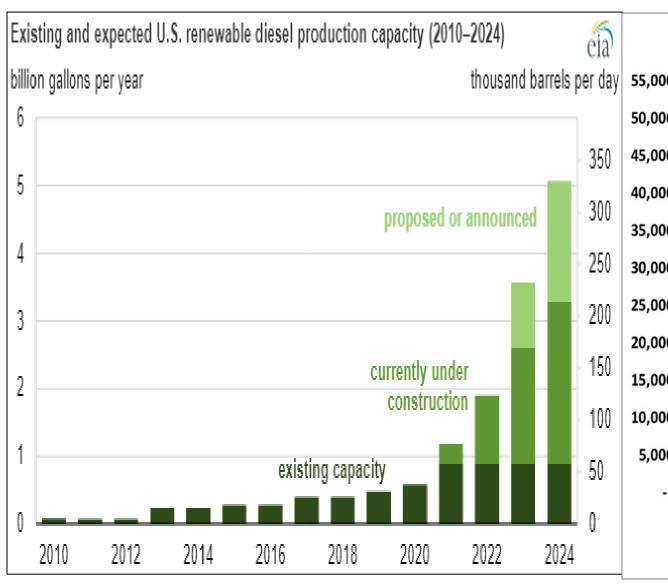


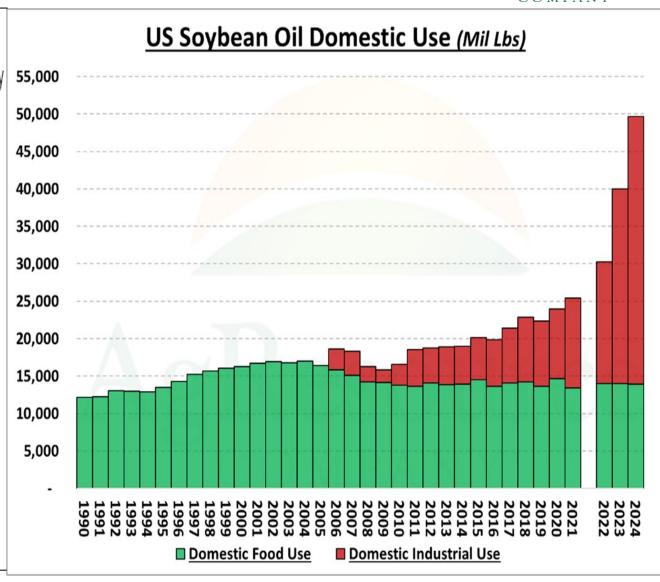




### Renewable Diesel Doubles US Soyoil Demand by '24 AgRes

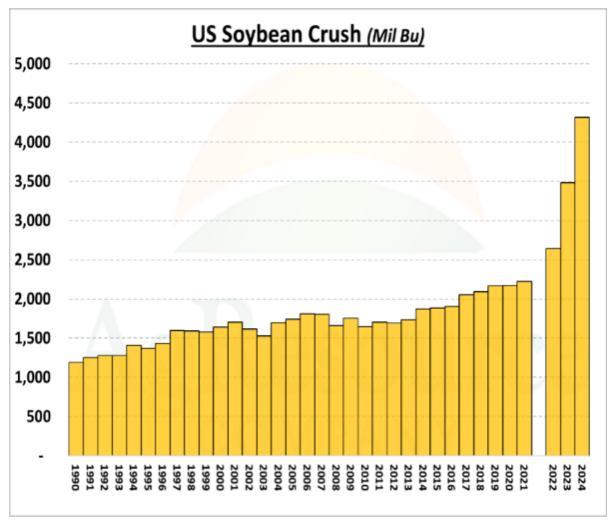


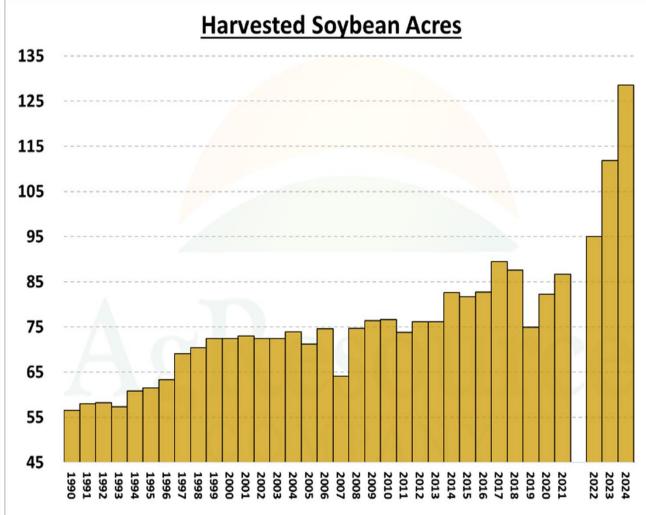




# Dramatic new build in US soy crush capacity; US soybean harvested acres to rise 40 Mil? Impossible!

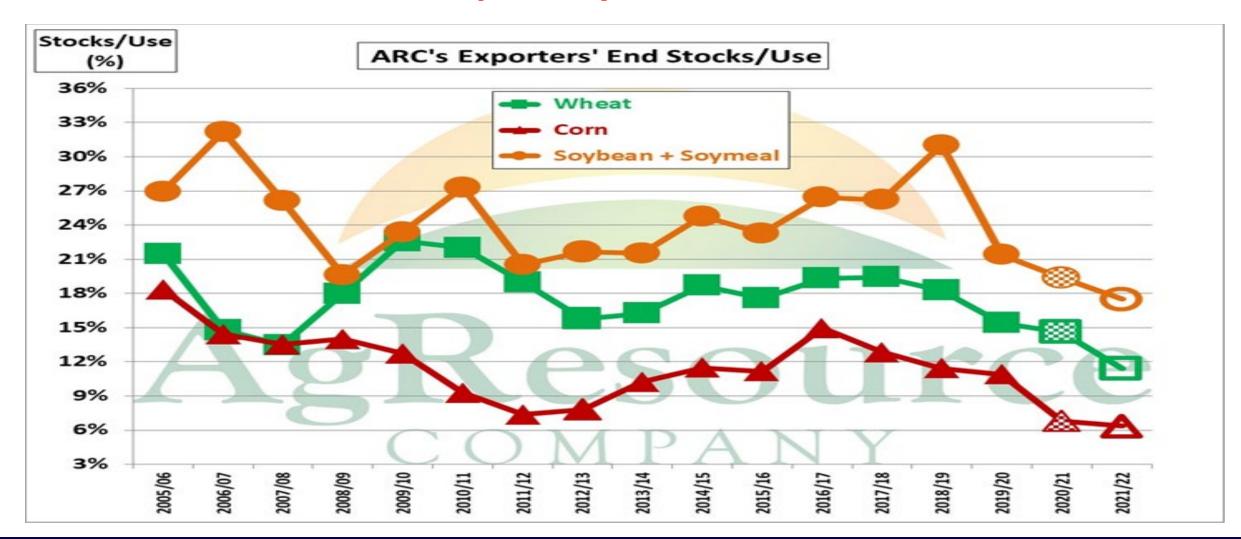






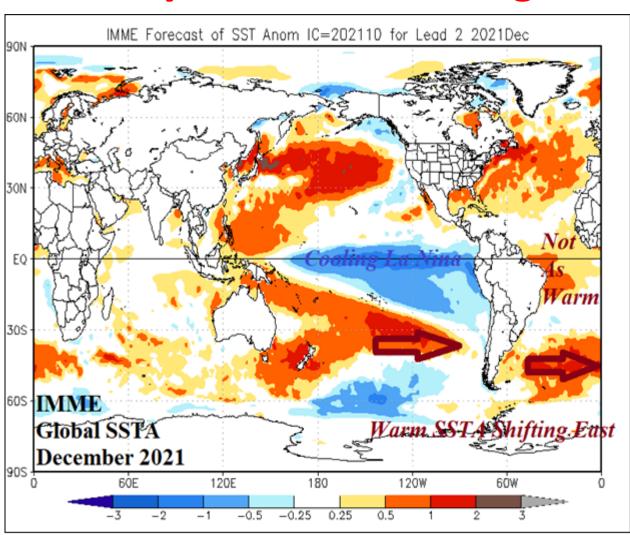


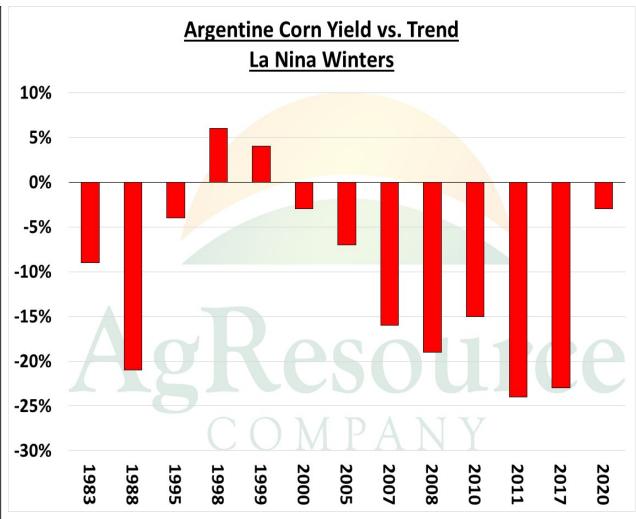
# World Exporter Stock/Use Ratio in corn/soy & wheat - record low requires years to recover



# AgResource

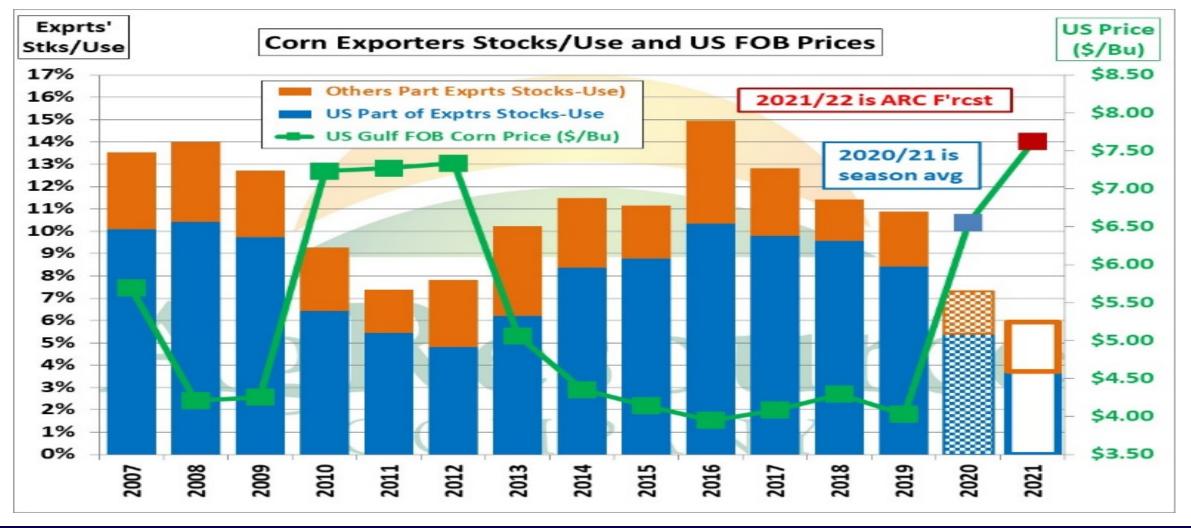
# The correlation between La Nina and Argentine corn yield; Is a 2022 Argentine drought pending?





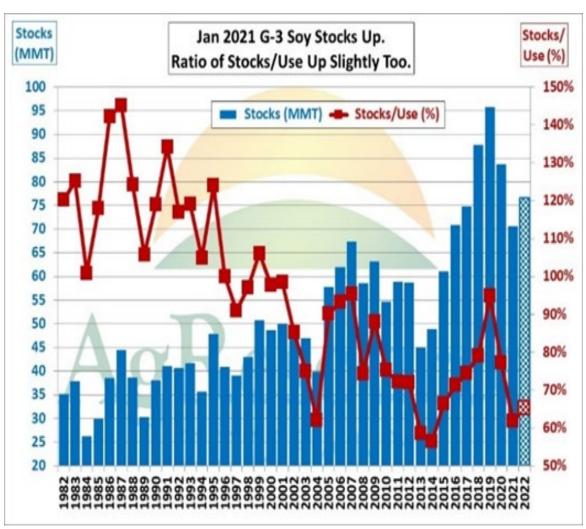


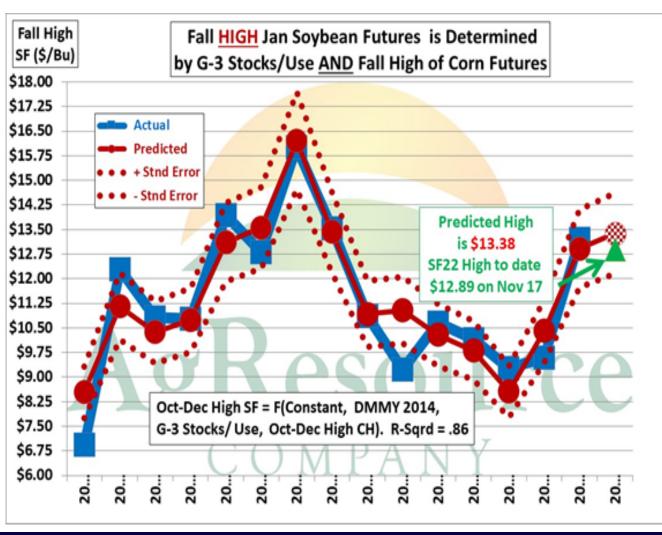
# Modeling projects corn price high of \$6.40-7.20/Bu spot CBOT futures/\$7.50 Gulf FOB





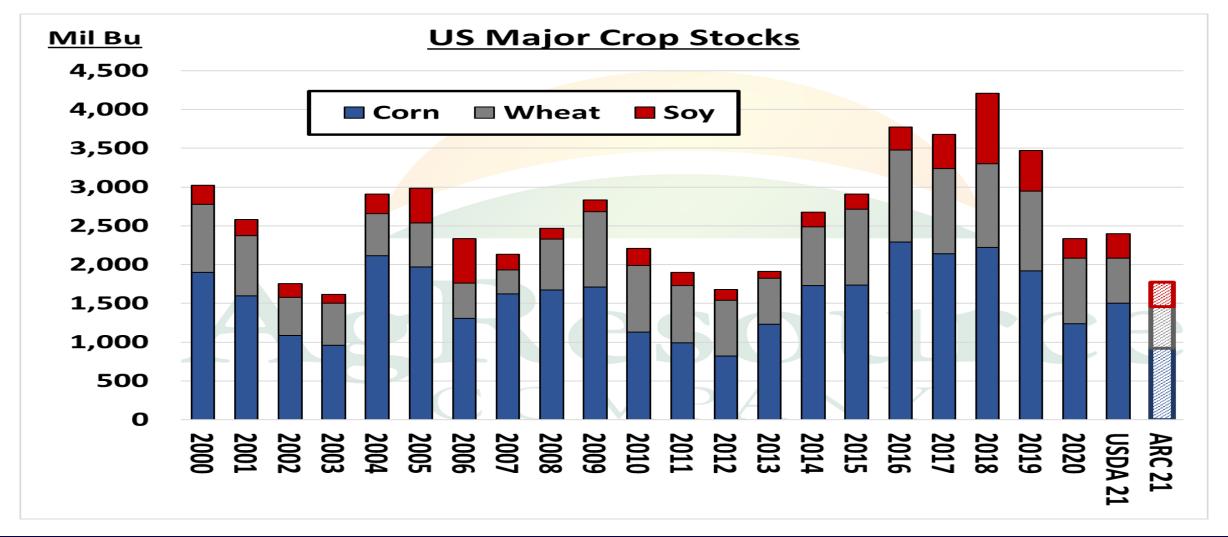






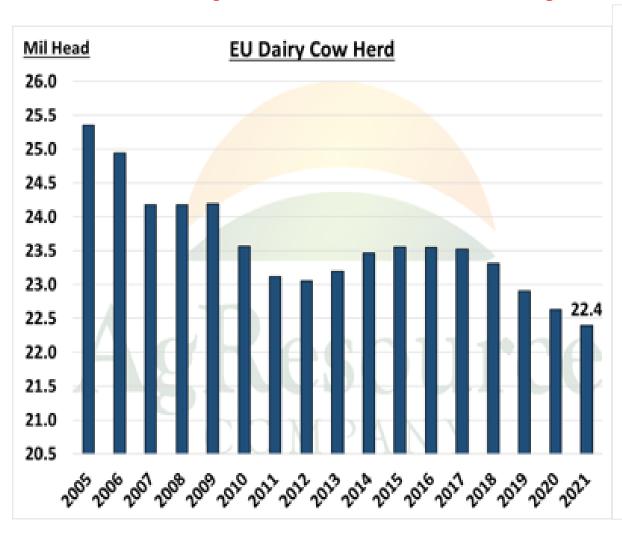
# AgResource

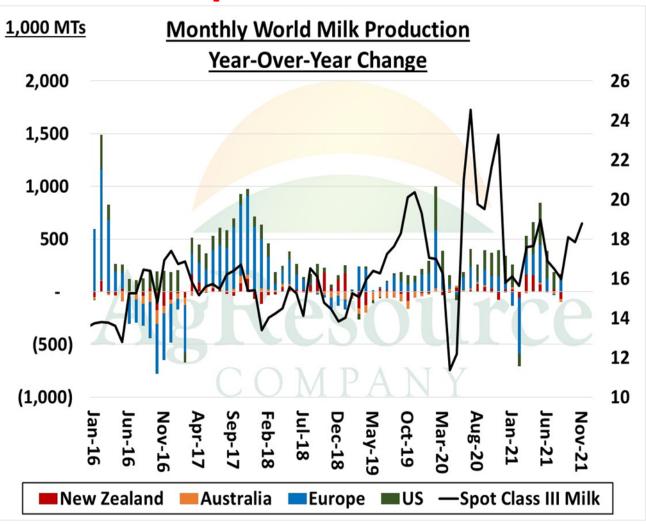
# Even with near record 2021 US row crops; No room for 2022 yield loss on limited US stocks



# EU policy forcing dairy cow numbers down/feed costs up; American dairy farmers well positioned

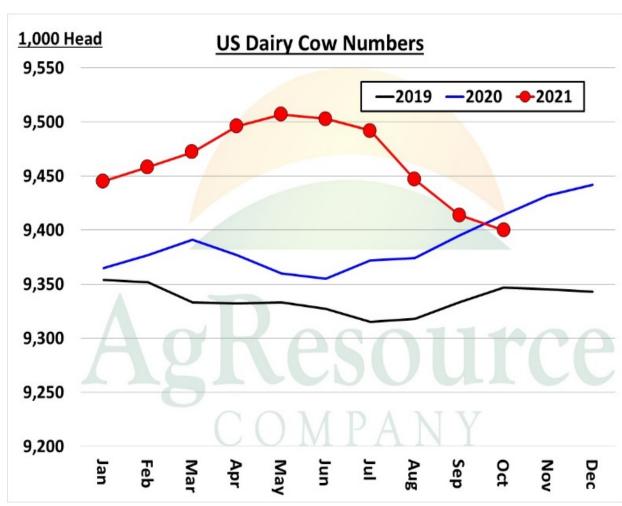


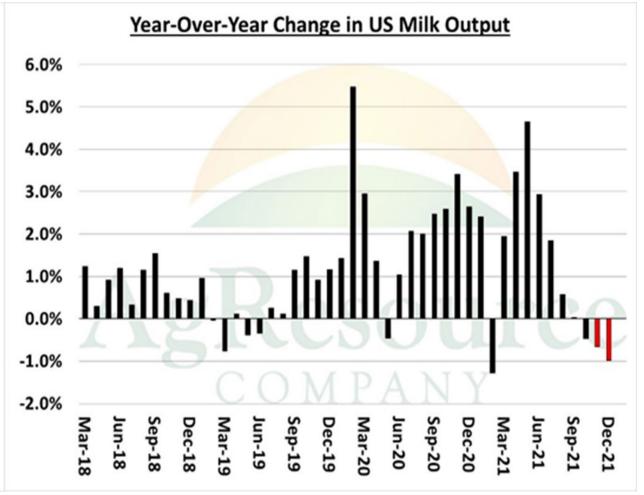






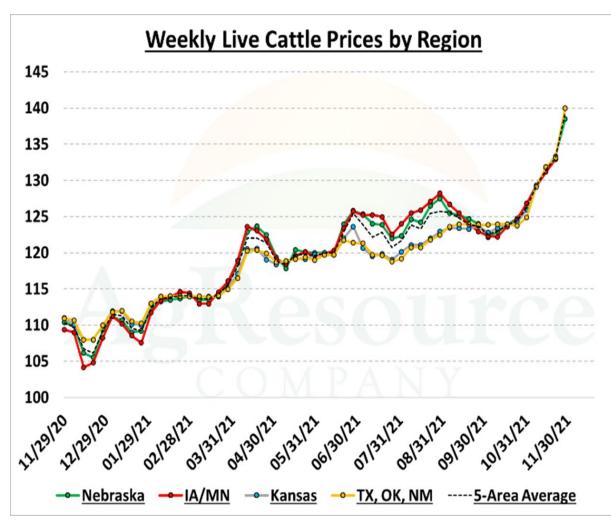






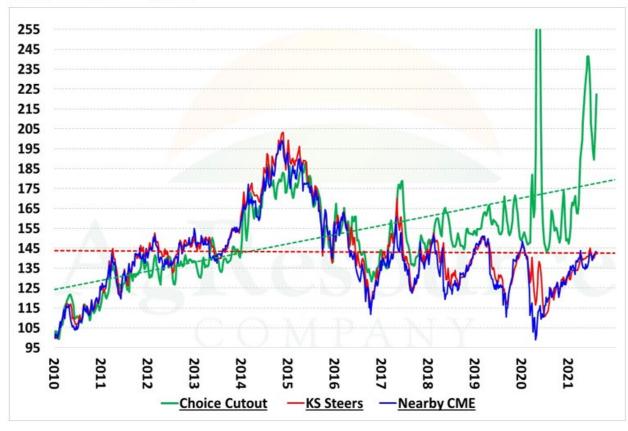
# Plains cash cattle price nears December record. Beef/cash cattle margin dislocation started in 2018





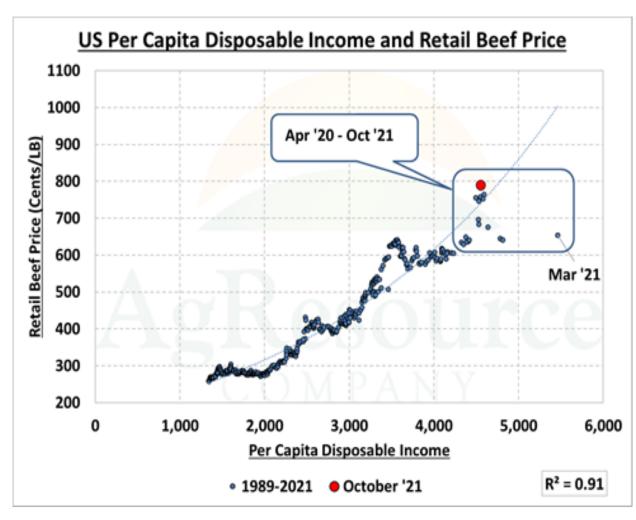
### **Cattle and Beef Price Indexes**

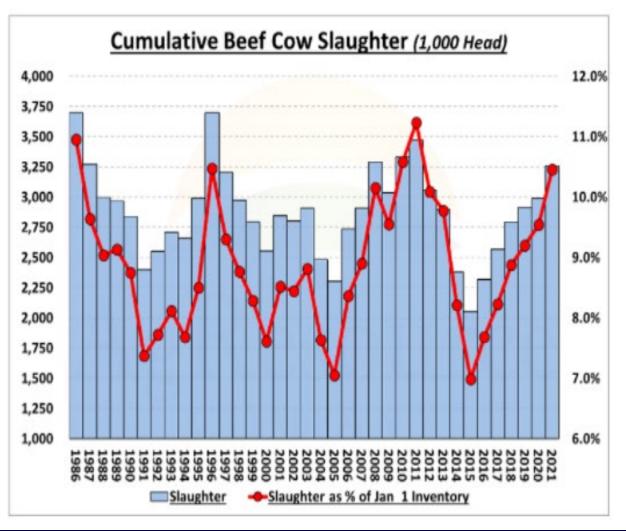
Jan 2010 = 100













It's not enough to know the news.

You need to trust the analysis.

### Thank You

# Farm (Foundation®



# HARRY VROOMEN Vice President of Economic Services The Fertilizer Institute





Making Sense of Today's Fertilizer Market

Dr. Harry Vroomen

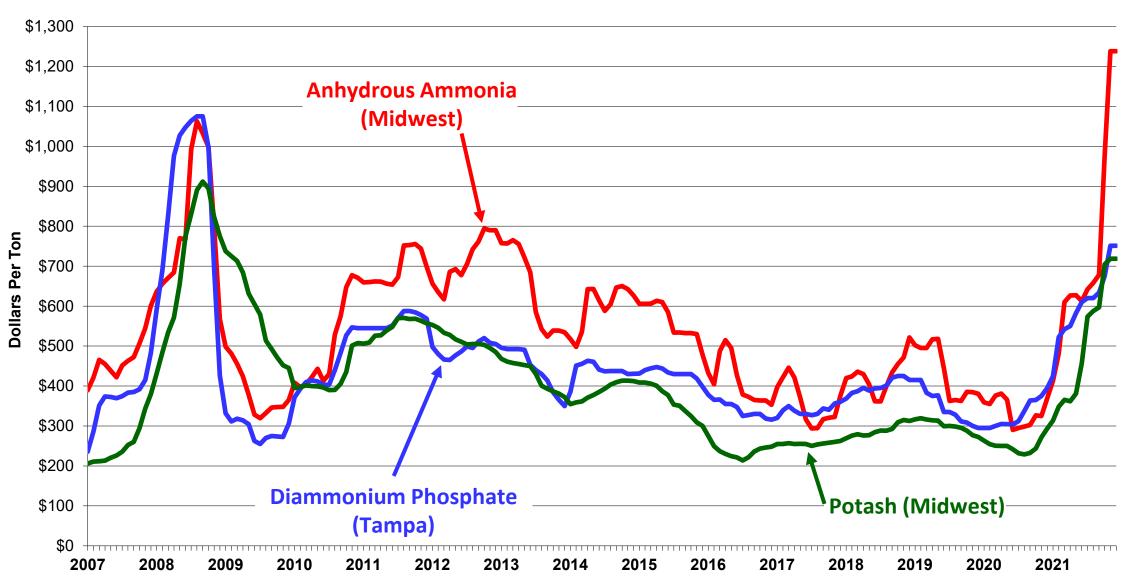
V.P. of Economic Services

December 16, 2021



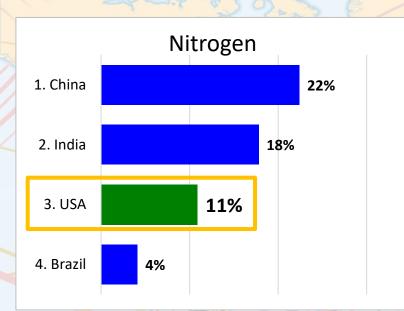


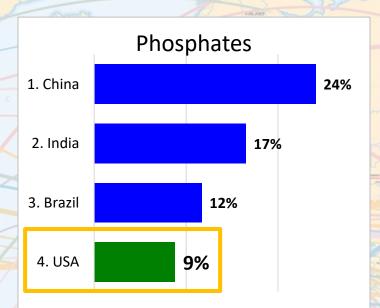
### Ave. Monthly Fertilizer Prices: Jan 2007 – Dec 10, 2021

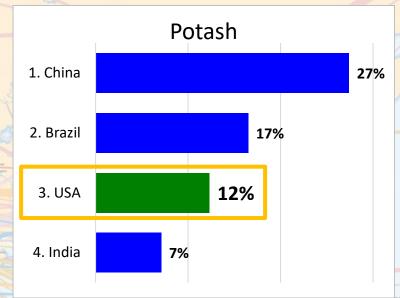


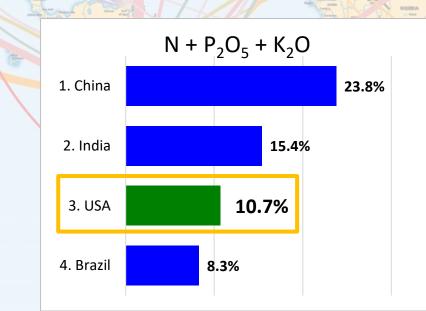


### Global Consumers - 2019



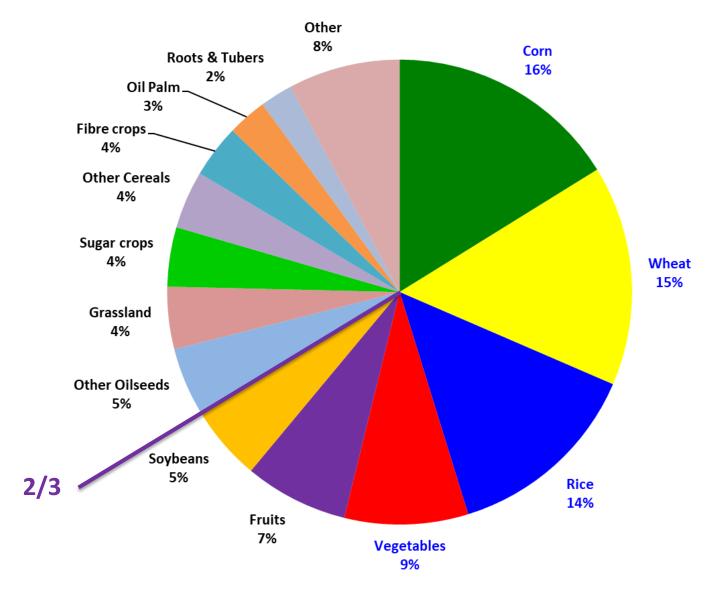




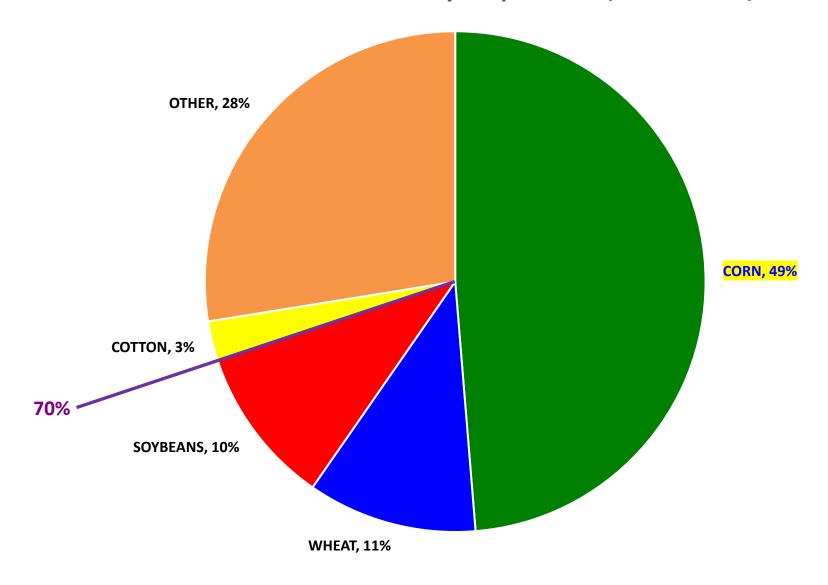


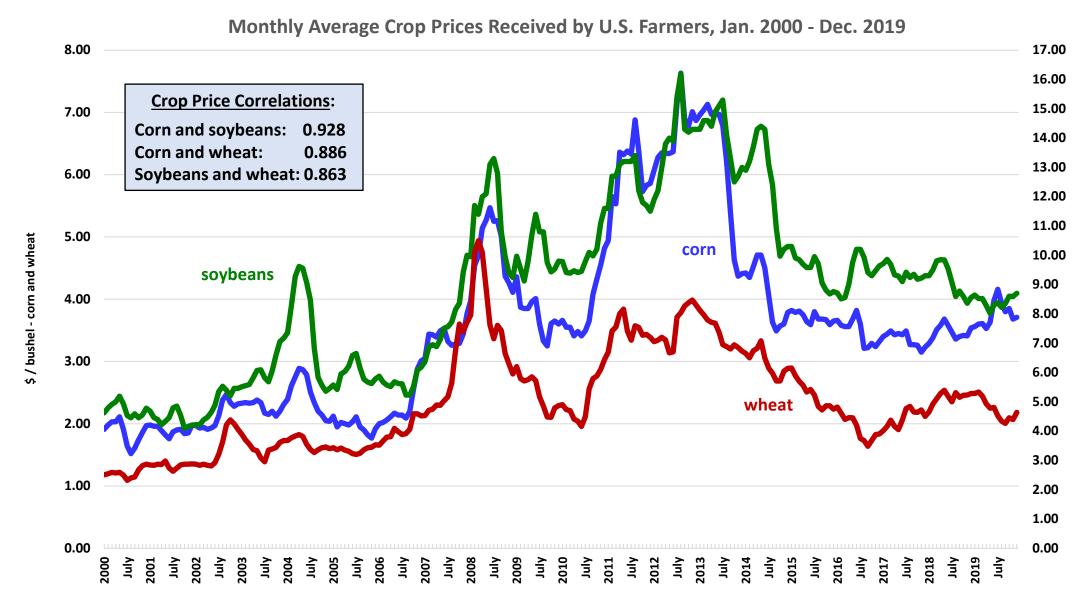
USA is a Large Consumer; ≈ 90% of Global Nutrient Use is Outside the USA!

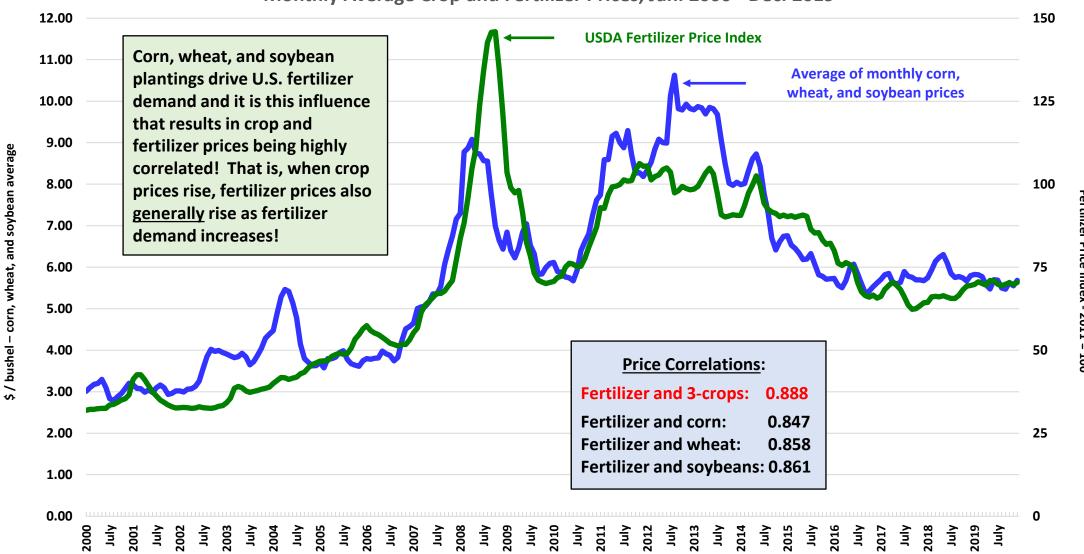
### Global Nutrient Use by Crop, 2014/15

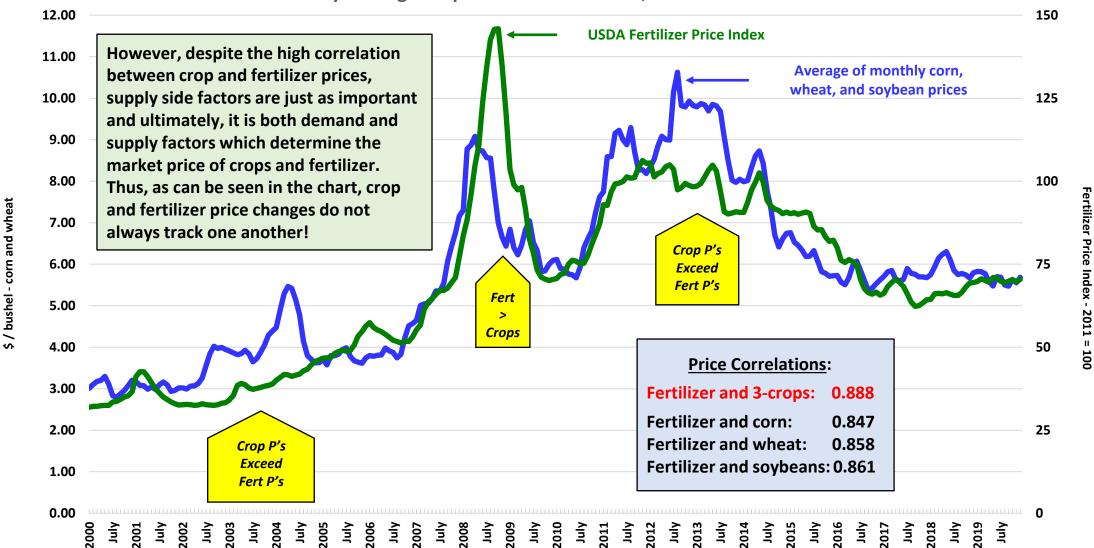


### U.S. Fertilizer Nutrient Use By Crop: FY2013/14 - FY2015/16









### $NH_3$

(anhydrous ammonia)



#### NITROGEN (N)

is a primary building block for all organisms. It is essential to making proteins, helps keep plants green and is a critical component of soil structure.

**COMES FROM THE AIR** 





#### PROCESSING PHOSPHATE

**Energy Requirements:** 

Electricity is used to power draglines, shovels, pumps, and other beneficiation equipment.

Draglines operate on electricity and account for about 80% of the total energy use per ton in surface phosphate mining.

Mining requires > 95% of the total energy used.

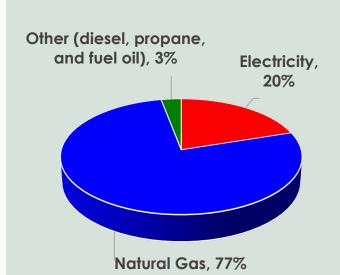
Beneficiation (testing, flotation, & washing) accounts for < 5%.







### **Energy Use by Type**







### Fertilizer Materials

**Material** Grade

 $N P_2O_5 K_2O$ 

percent

Anhydrous Ammonia	82 –	0 -	- (

Urea 
$$46 - 0 - 0$$

Nitrogen Solutions 
$$28-32 - 0 - 0$$

Potassium chloride

Potassium sulfate

Multiple-nutrient Grade

Multiple-nutrient Grade

$$21 - 0 - 0$$

$$18 - 46 - 0$$

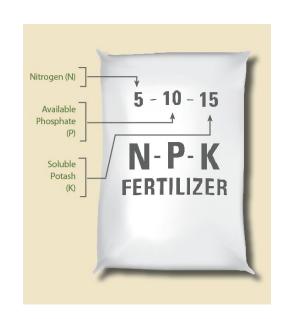
$$11 - 52 - 0$$

$$0 - 0 - 60-61$$

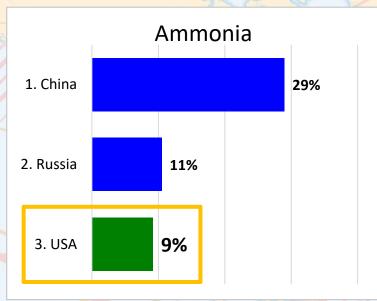
$$0 - 0 - 50$$

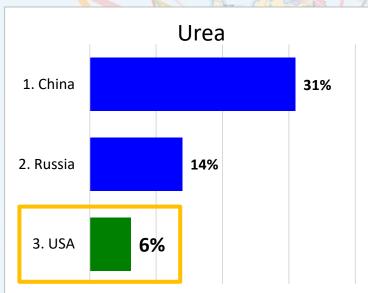
$$9 - 23 - 30$$

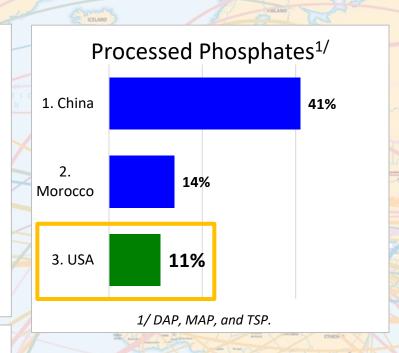
$$10 - 10 - 10$$

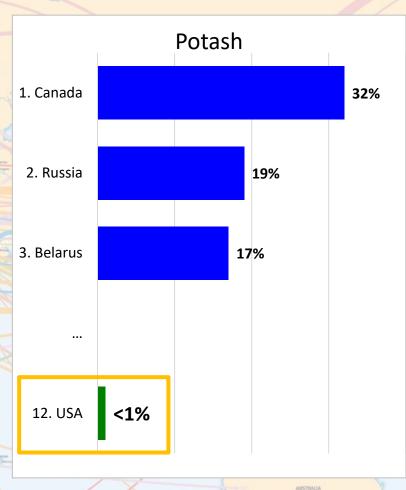


### Global Producers - 2020





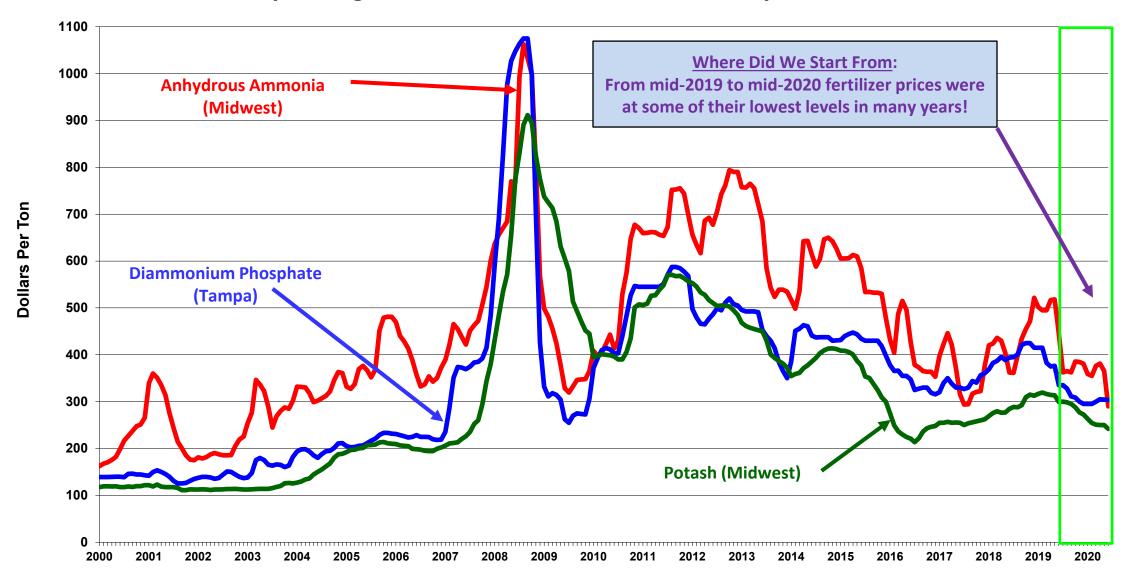




Source: International Fertilizer Association (IFA).



### **Monthly Average Wholesale Fertilizer Prices: January 2000 - June 2020**





A World Bank Report

**APRIL 2020** 

## Commodity Markets Outlook

Implications of COVID-19 for Commodities



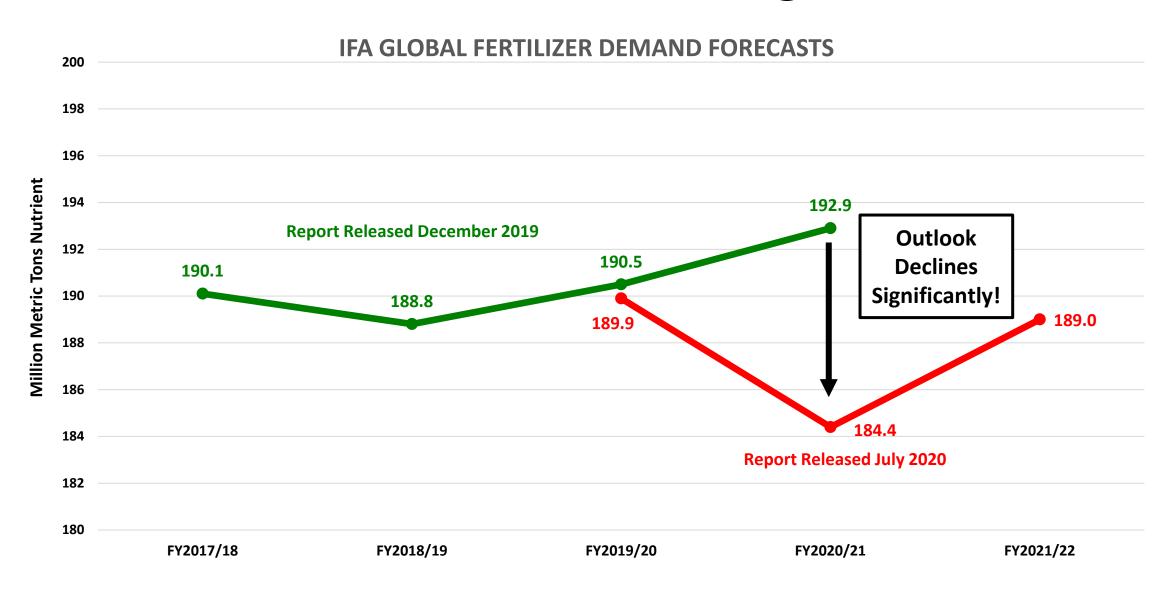
Apr Oct



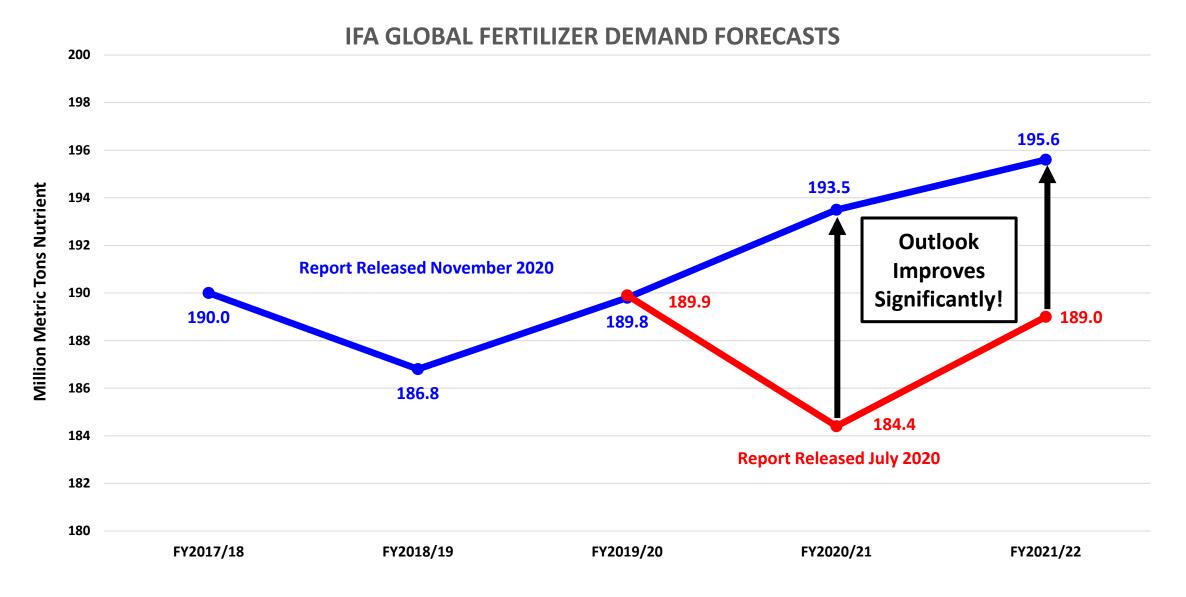
#### **Fertilizers**

The World Bank's Fertilizer Price Index dropped 4.5 percent in the first quarter of 2020 (q/q), the seventh consecutive quarterly decline. A fall in potash and urea prices, owing to a slump in demand, pushed the index lower. However, phosphate prices increased as the COVID-19 outbreak in China severely hampered production and disrupted supply chains. In 2020, the index is projected to fall by 9.9 percent as global fertilizer supply remains plentiful. Risks to this outlook are broadly balanced. Upside risks include prolonged widespread supply disruptions, while downside risks include a slower-than-expected recovery in demand.

## **Production Planning**

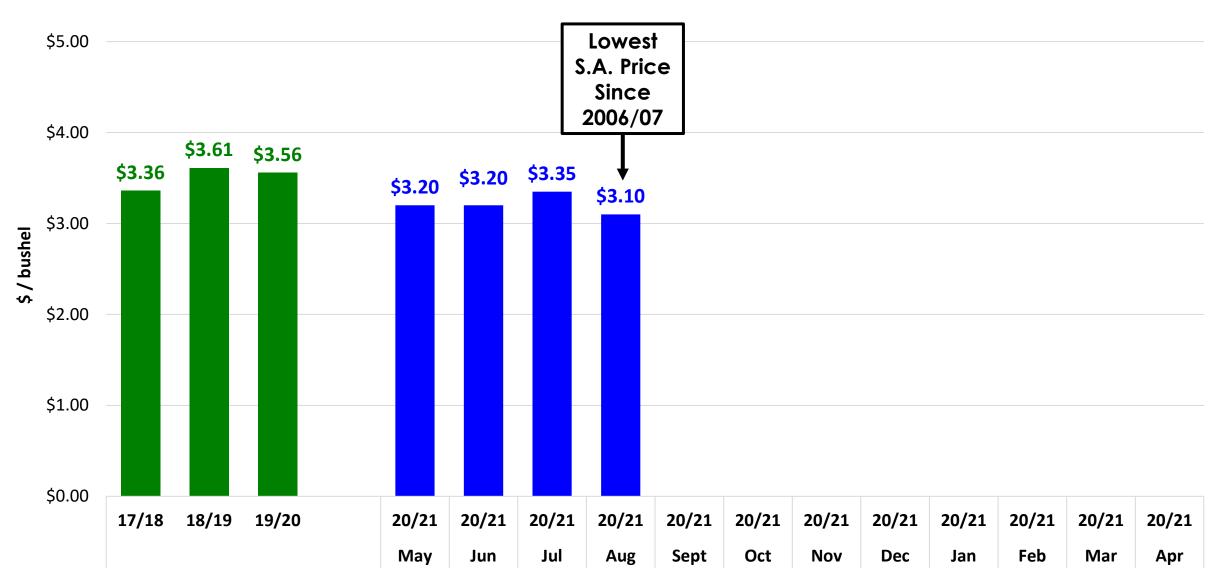


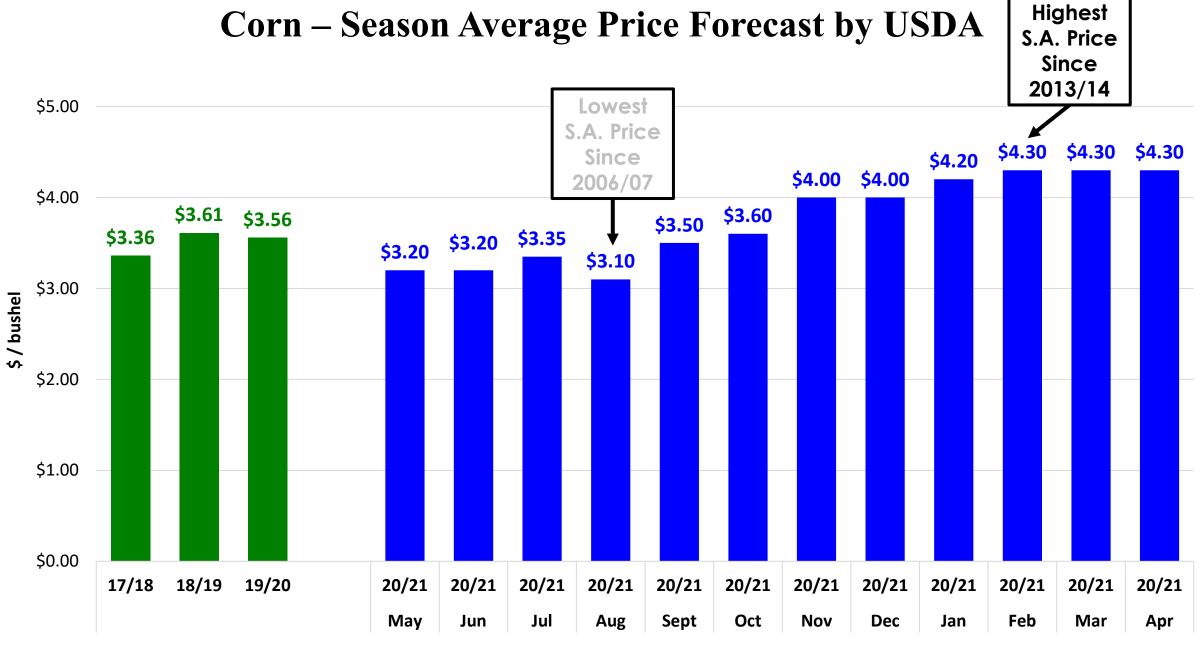
## **Production Planning**



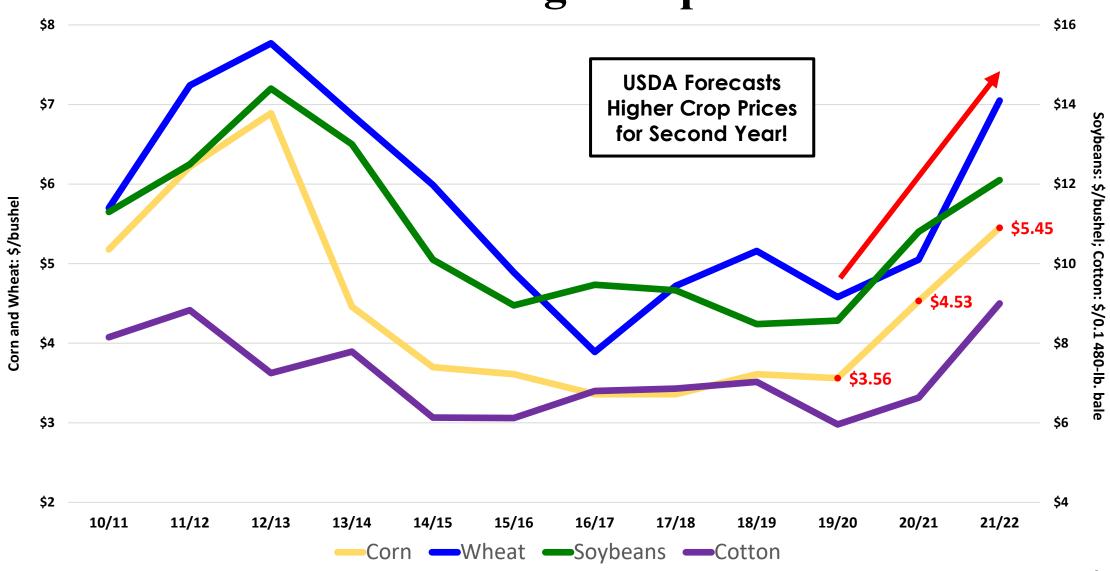


### **Corn – Season Average Price Forecast by USDA**





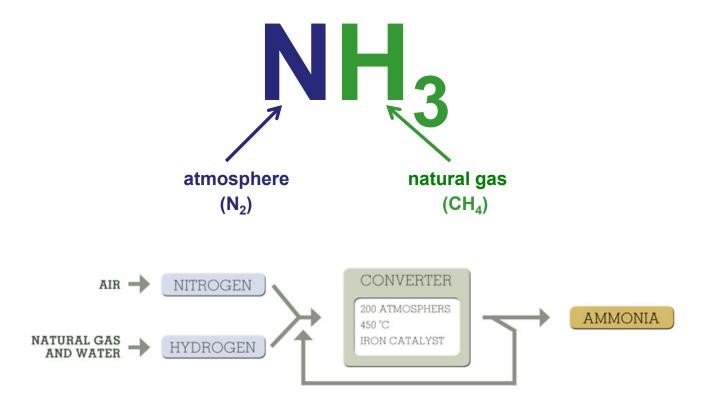
## Season Average Crop Prices



## PRODUCING FERTILIZER TAKES ENERGY!

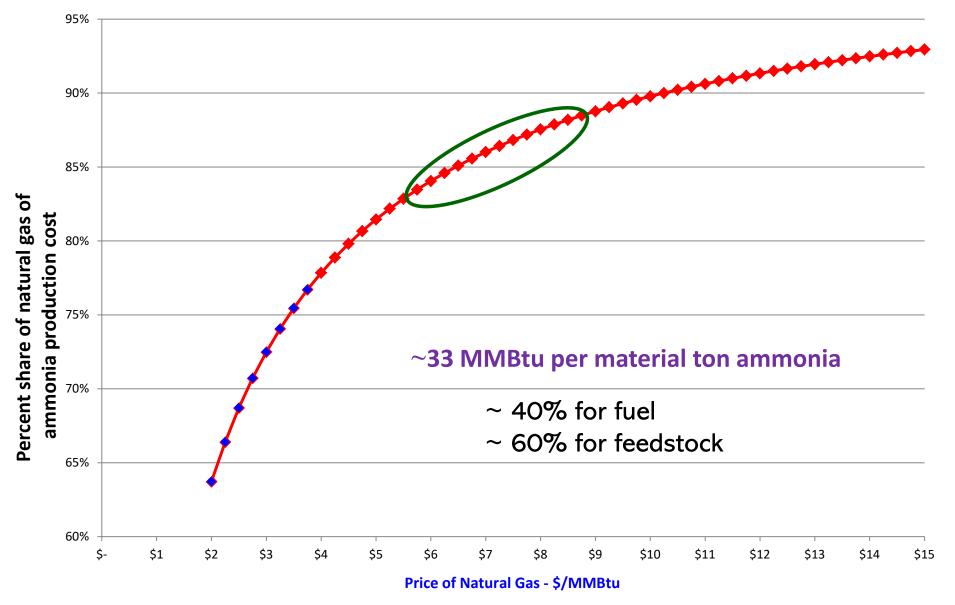


#### Anhydrous Ammonia

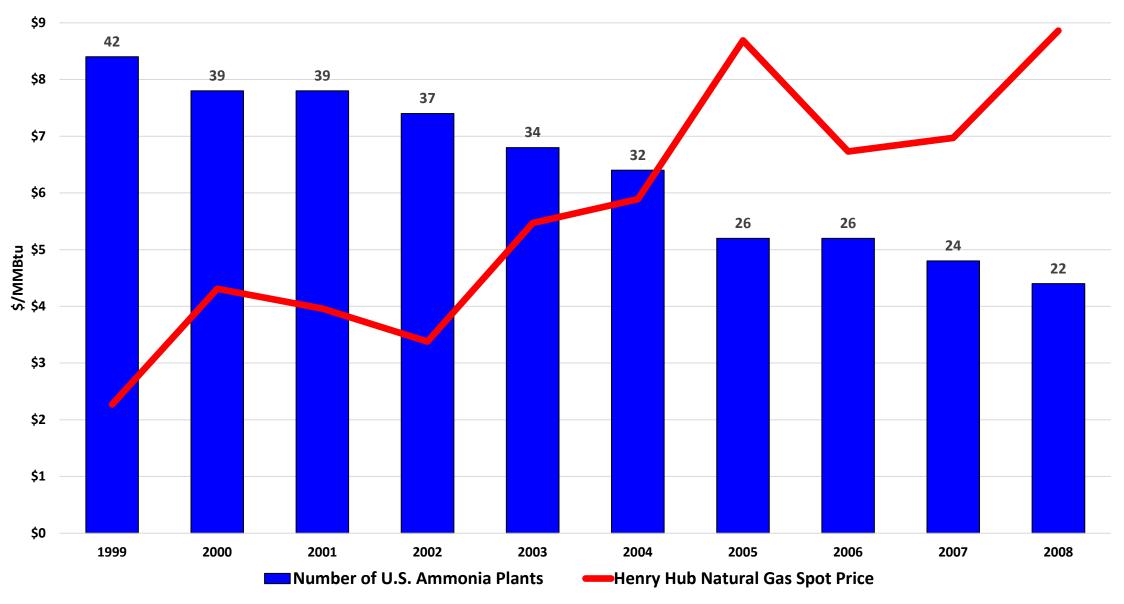


- Source of the nitrogen in fertilizer => **FEED the WORLD!**
- Grade/analysis: 82-0-0 => 82 % N; 1 short ton NH<sub>3</sub> = 1,640 lbs. N
- Haber-Bosch process (Fritz Haber-1909/Carl Bosch—1913-Oppau, Germany)
- ~ 33 MMBtu's natural gas per material ton of ammonia

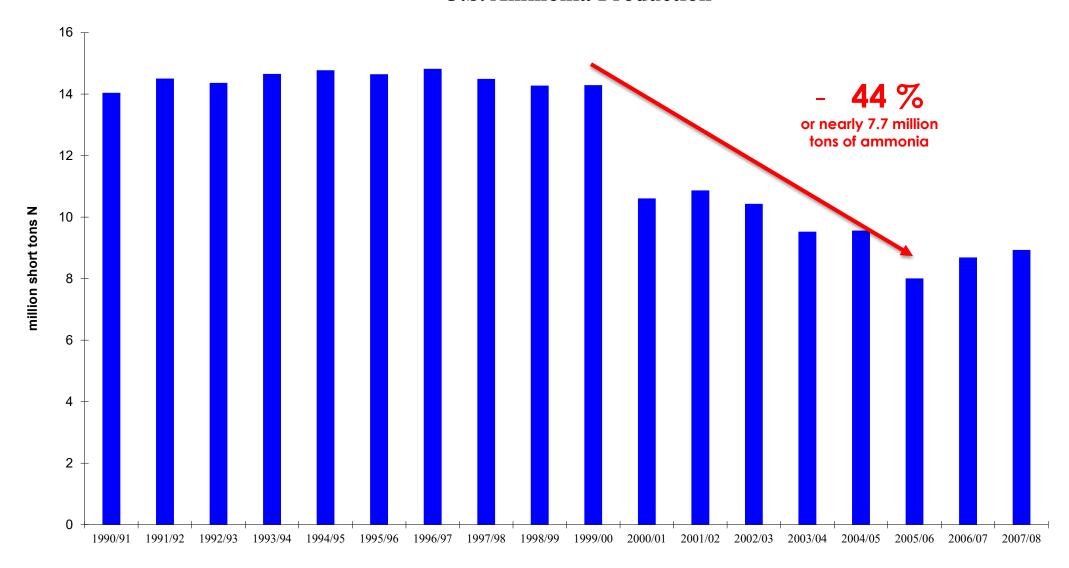
## Natural Gas as a Share of Ammonia Production Cost



### Number of U.S. Ammonia Plants vs. Price of Natural Gas

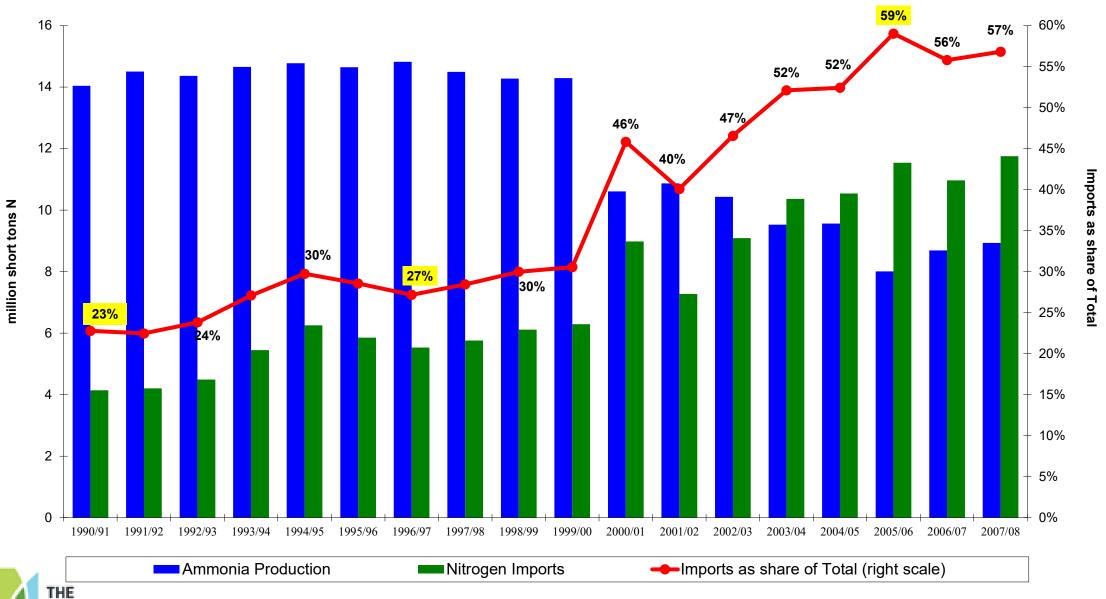


#### **U.S. Ammonia Production**

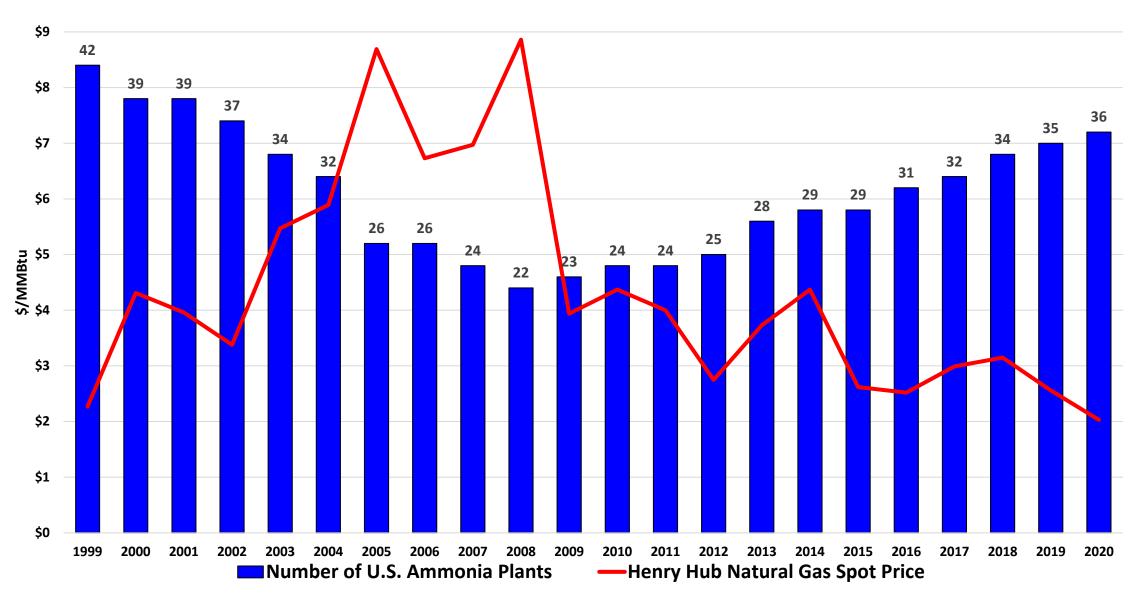




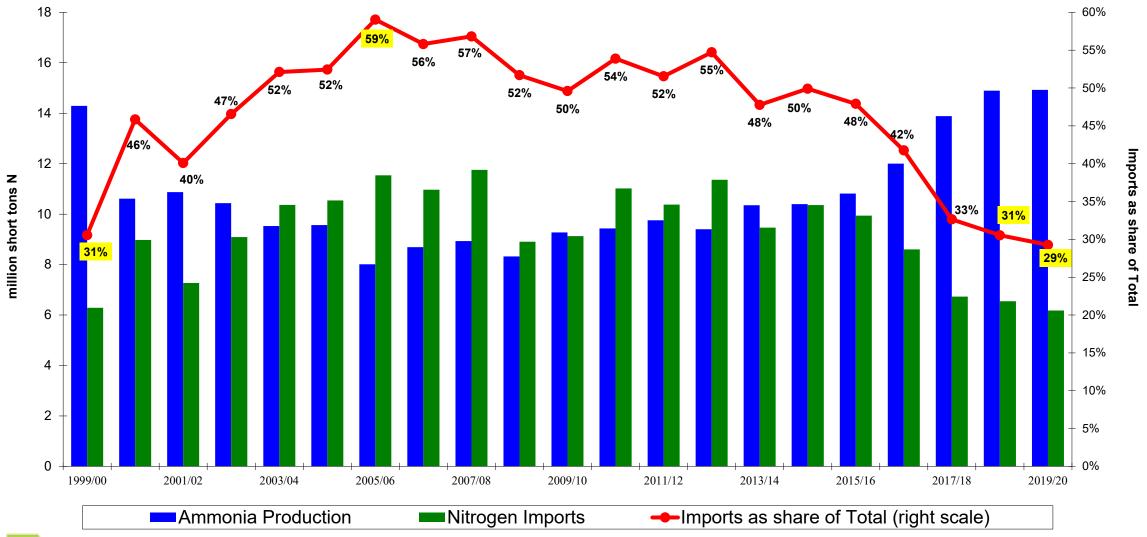
#### **U.S.** Nitrogen Sources - Ammonia Production and Total N Imports



## Number of U.S. Ammonia Plants vs. Price of Natural Gas

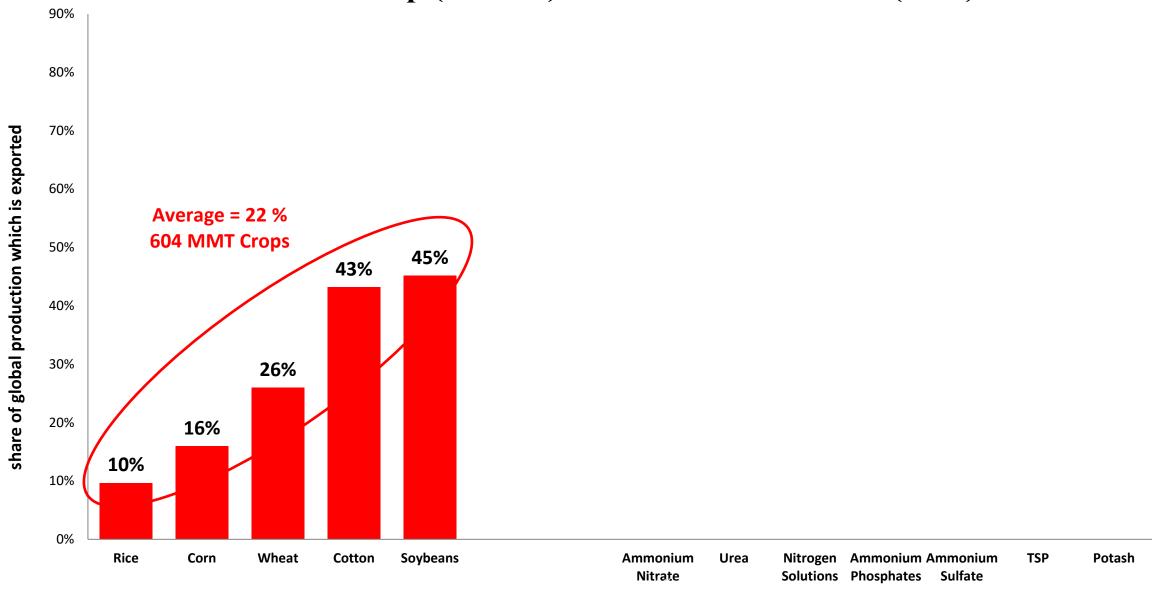


#### U.S. Nitrogen Sources - Ammonia Production and Total N Imports

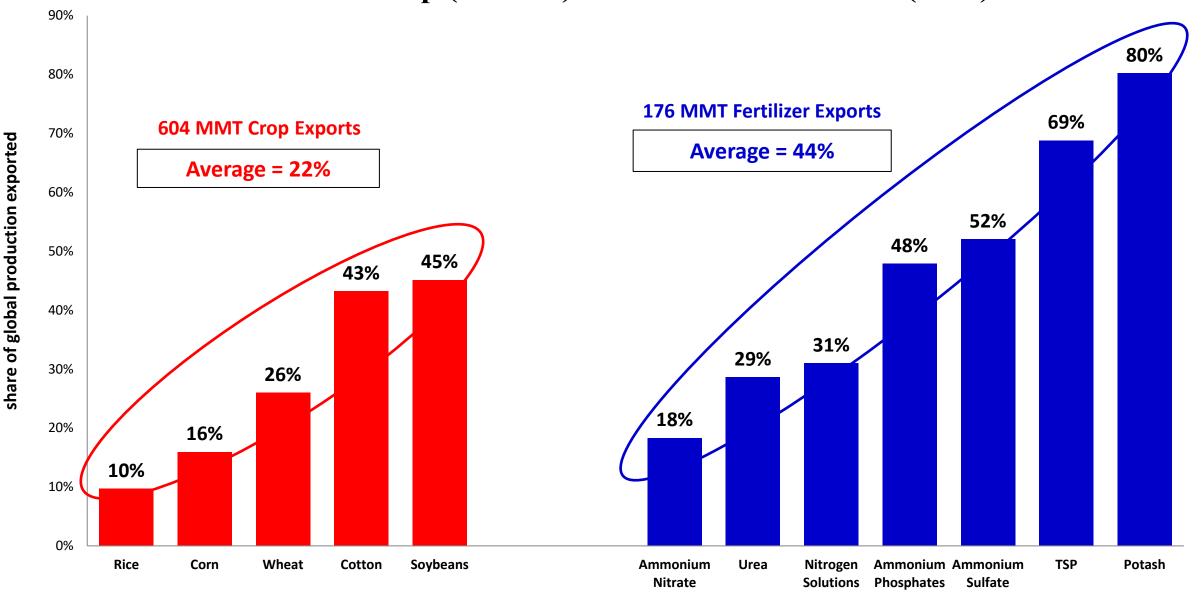




#### Share of World Crop (2020/21) and Fertilizer Products (2020) Traded



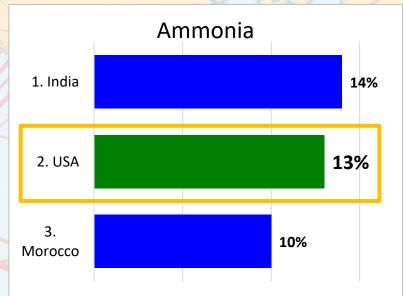
#### Share of World Crop (2020/21) and Fertilizer Products (2020) Traded

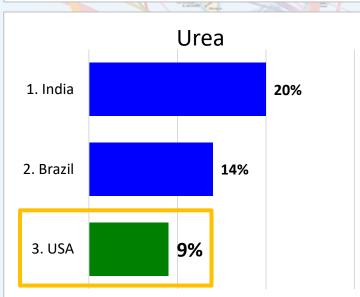


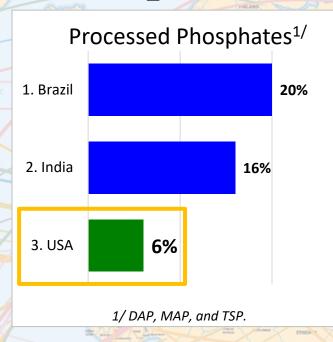
Source: U.S. Department of Agriculture and International Fertilizer Industry Association. Averages computed as total exports (crop or fertilizer material) divided by total production.

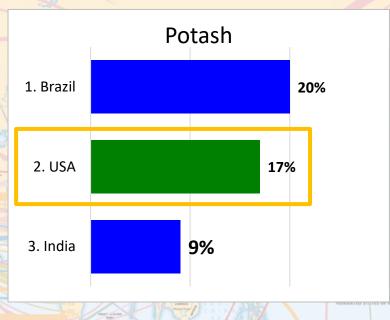


## Global Importers - 2020



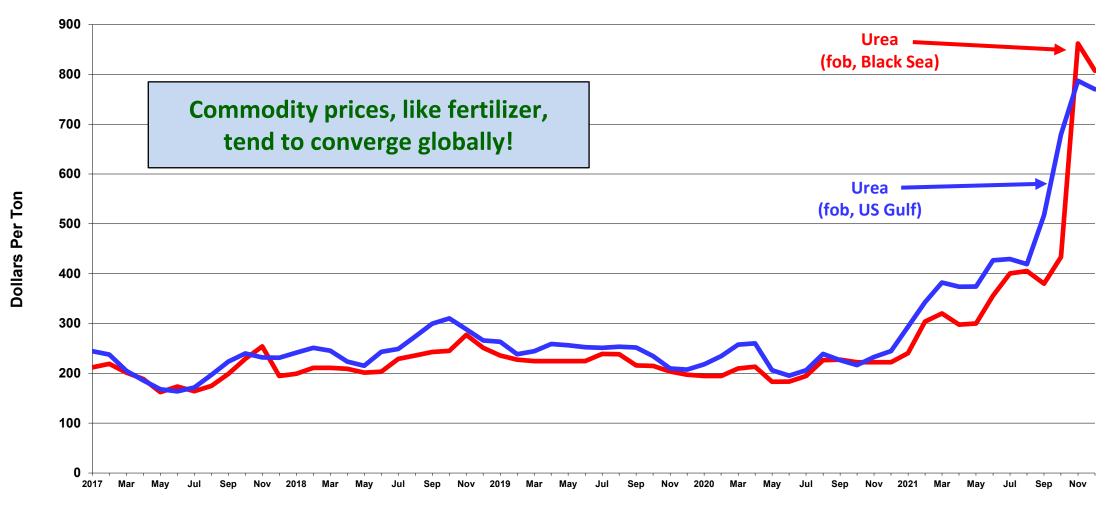






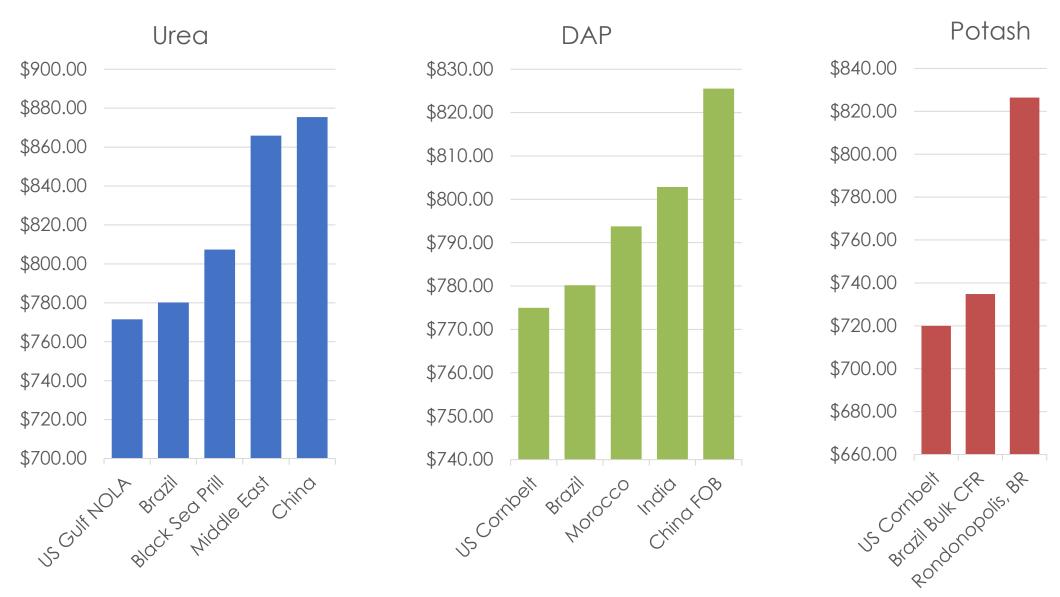
The USA is a Large Importer of fertilizer, particularly Nitrogen and Potash!

#### U.S. and International Urea Prices: Jan. 2017 - Dec. 2021



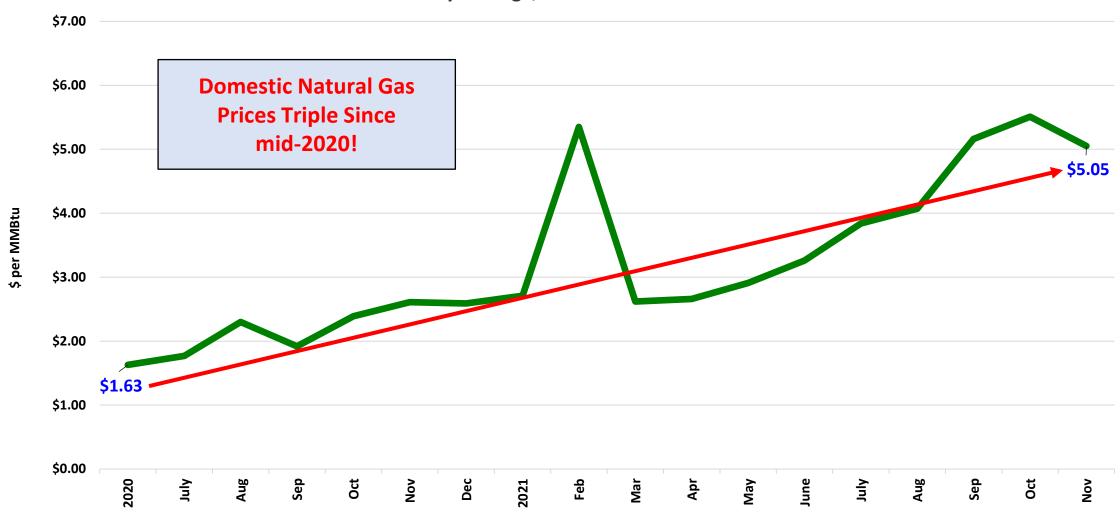
Source: Monthly averages computed from weekly prices reported in Green Markets (A Bloomberg Company).

## Global Fertilizer Prices, December 10, 2021



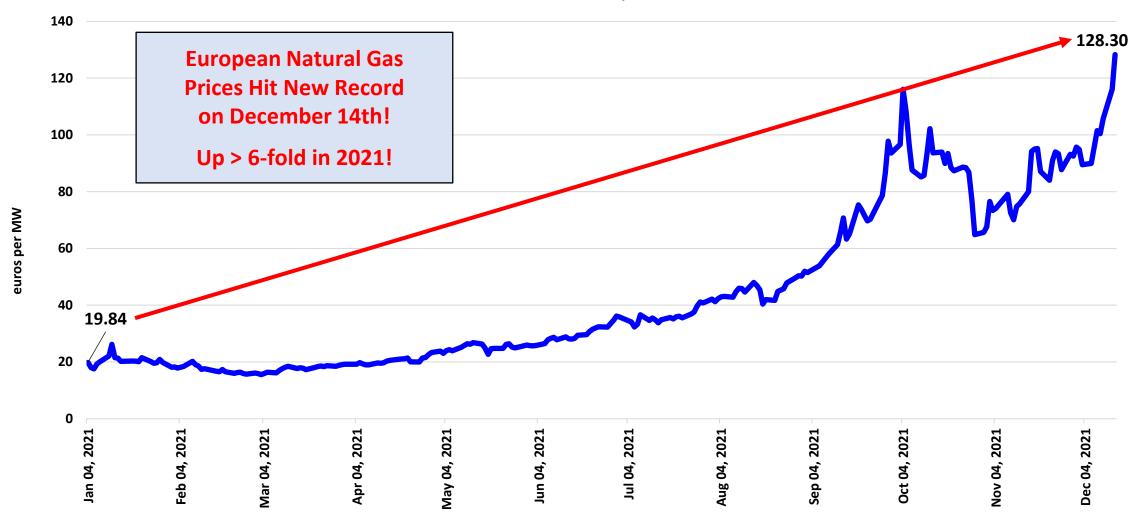
#### **Henry Hub Natural Gas Spot Price**

Monthly Average, June 2020 - Nov. 2021



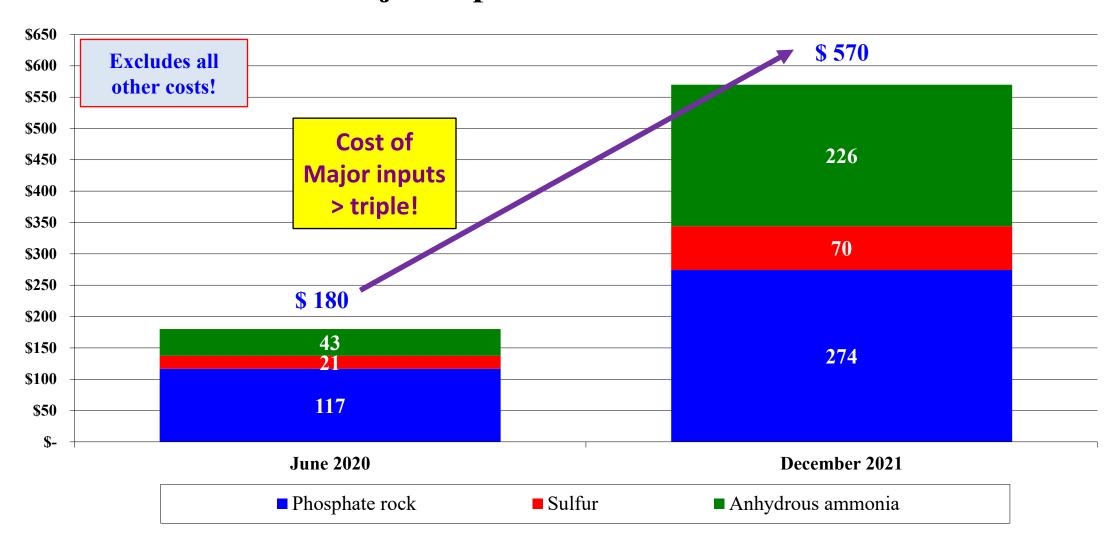
#### **Dutch TTB Natural Gas Futures Prices**

Jan 4 - December 14, 2021



Source: NY Mercantile Exchange.

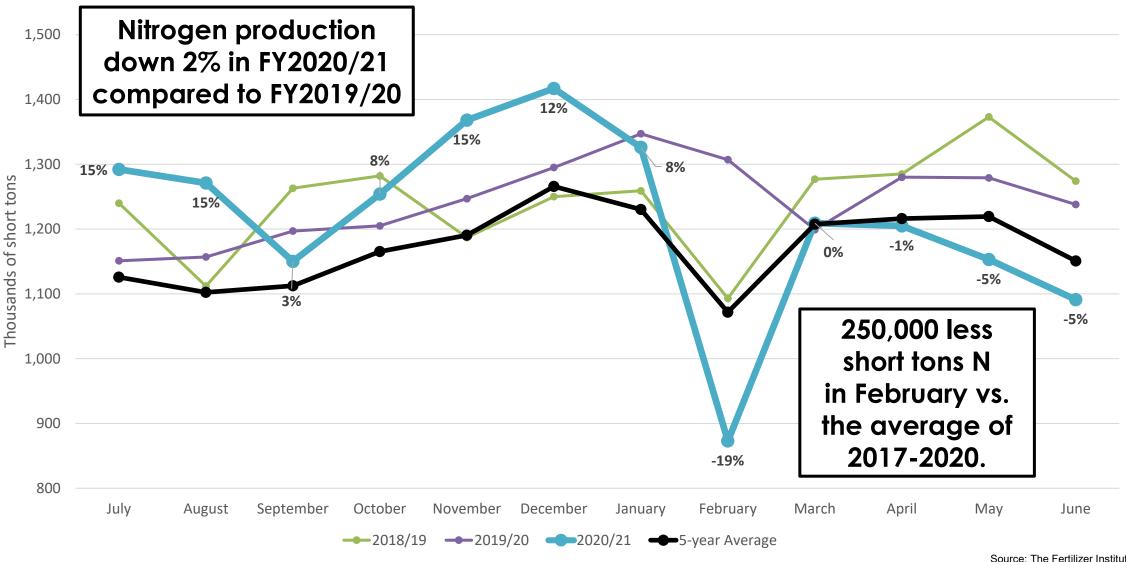
## **Cost of Major Inputs into DAP Production**

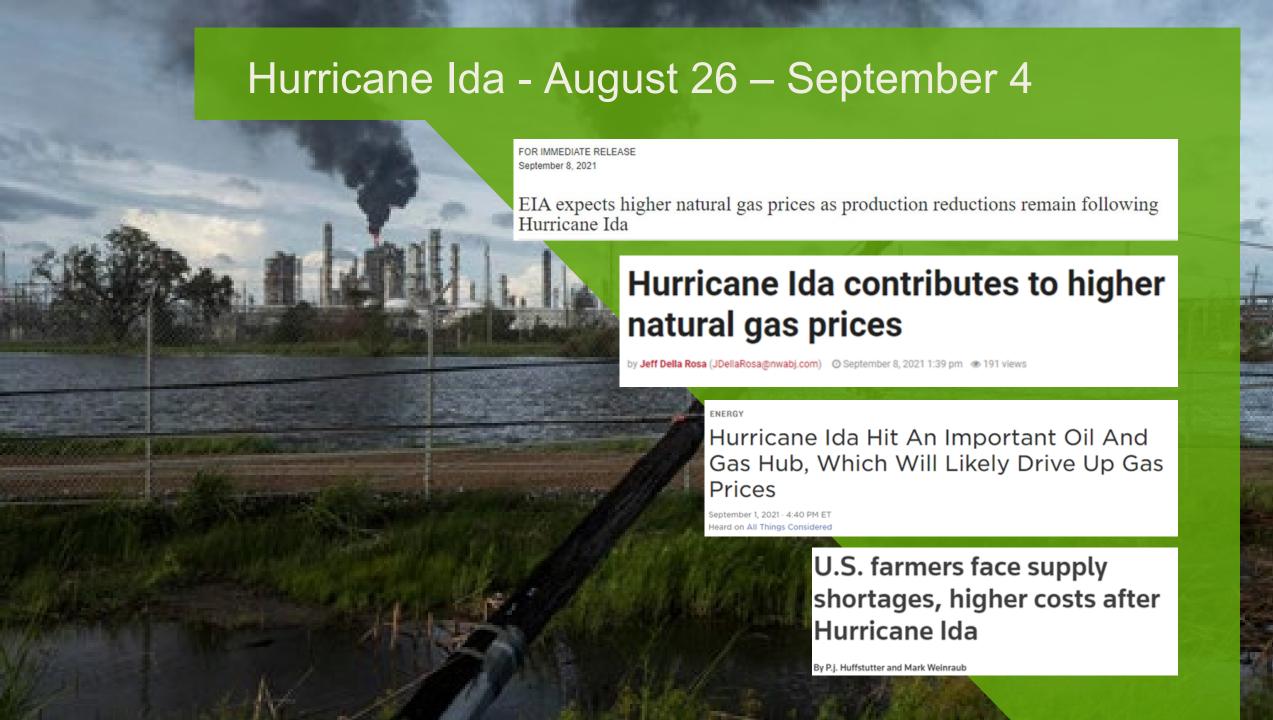






## **Monthly Production - Nitrogen (nutrient tons)**







## **Phosphate Countervailing Duty Calendar of Events**

Investigations Nos. 701-TA-650-651 (Final Countervailing Duty-CVD)

Phosphate Fertilizers from Morocco and Russia

Effective date	Action
June 26, 2020	Petitions filed with Commerce and the Commission; institution of Commission investigations (85 FR 40319, July 6, 2020) <sup>1</sup>
July 16, 2020	Commerce's notice of initiation of CVD investigations (85FR 44505, July 23, 2020)
August 10, 2020	Commission's preliminary affirmative determinations (85 FR 49394, August 13, 2020) <sup>2</sup>
November 23, 2020	Scheduling of final phase of Commission investigations(85 FR 79033, December 8, 2020)
November 30, 2020	Commerce's preliminary affirmative CVD determinations (85 FR 76522 and 85 FR 76524) <sup>3</sup>
February 9, 2021	Commission's hearing
February 16, 2021	Commerce's final affirmative CVD determinations (86 FR 9479 and 86 FR 9482) <sup>4</sup>
March 11, 2021	Commission's affirmative vote
March 31, 2021	Commission's views to Commerce <sup>5</sup> (86 FR 17642, April 5, 2021)
April 7, 2021	Commerce's final CVD duty orders (86 FR 18037)6

<sup>&</sup>lt;sup>1</sup> Petition filed by Mosaic Company, Plymouth. Minnesota.

<sup>&</sup>lt;sup>6</sup>Morocco: OCP S.A. and Other CVD rates, 19.97%. Russia: Phosphorite LLC: EuroChem, et al, 47.05%; PhosAgro, et al, 9.19%. Other, 17.20%. All rates except for cash exempt liquidated entries between March 30, 2021 and April 6, 2021, are retroactive to Commerce preliminary determination, November 30, 2020.



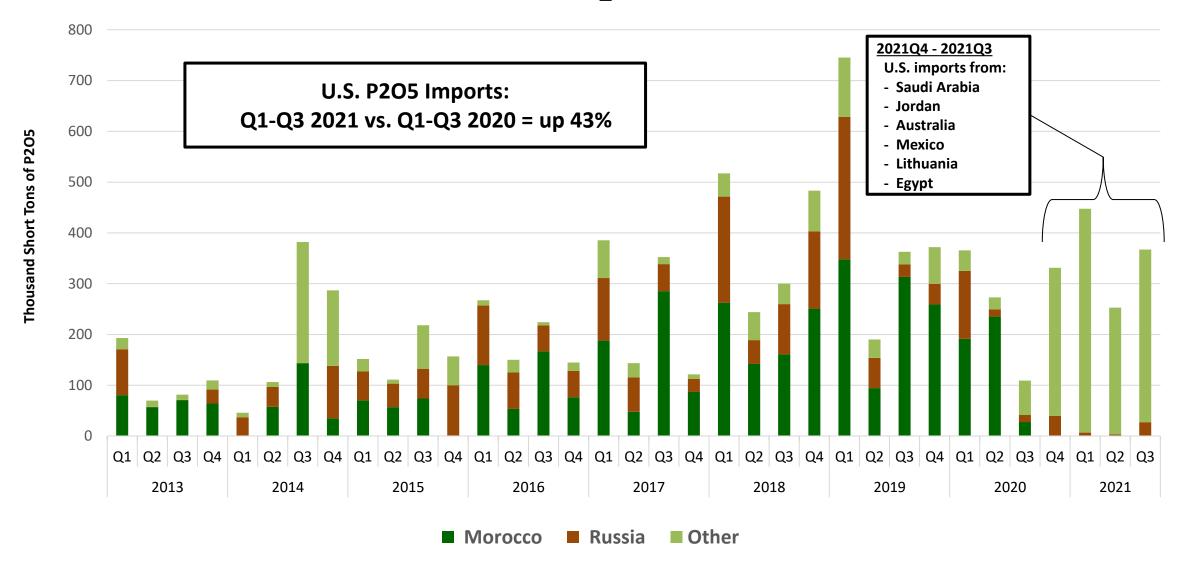
<sup>&</sup>lt;sup>2</sup> Commission determination of reasonable indication of material injury.

<sup>&</sup>lt;sup>3</sup> Morocco: OCP S.A. and Other CVD rates, 23.46%. Russia: Phosphorite LLC: EuroChem, et al, 72.50%; PhosAgro, et al, 20.94%; Other, 32.92%.

<sup>&</sup>lt;sup>4</sup> Morocco: OCP S.A. and Other CVD rates, 19.97%. Russia: Phosphorite LLC: EuroChem, et al, 47.05%; PhosAgro, et al, 9.19%; Other, 17.20%. All rates retroactive to Commerce preliminary determination, November 30, 2020.

<sup>&</sup>lt;sup>5</sup> Commission determination of material injury to the U.S. industry.

## U.S. DAP and MAP Imports, 2013 – 2021 Q3



## **Belarus Sanctions**

#### **DTN Retail Fertilizer Trends**

Potash Prices Show Strength Amid Supply Issues

6/30/2021 | 9:30 AM CDT

# EU sanctions expected to hit Belarus's potash, oil and finance

By Victoria Waldersee and Robin Emmott

UPDATE 1-Belarus potash exporter says sanctions will increase global prices

By Reuters Staff

MIN READ

August 9, 2021

**Belaruskali Named in Biden Sanctions** 

#### Global Potash Exports

Belarus 21%

Rest of the World 79%

# China Curbs Exports

#### Producers Face Fertilizer Price Squeeze

 ${\it China Phosphate Fertilizer Export Freeze Adds to Global Supply Challenges}$ 

I China customs to inspect fertilizer exports from 15 Oct

Published date: 13 October 2021

Share:

China's General Administration of Customs will start inspections on fertilizer exports from 15 October, according to an official notice published today.

#### COMMODITIES

Chinese urea futures slide from record highs on new export measures

CONTRIBUTOR

Emily Chow - Reuters

OCT 14, 2021 5:56AM ED

#### Global Phosphate Exports

China 25%

Rest of the World 75%

#### Global Urea Exports

China 10%

Rest of the World 90%

## Russia Restricts Exports



03 Nov 2021

Russia to impose export quotas on nitrogen, complex fertilizers

November 3, 2021

Russia to Impose Nitrogen, Complex Export Quotas

Russia halts nitrogen, phosphate fertilizer exports to support local farmers

Market

Russia sets 6 month quotas for fertilizer exports from Dec. 1

3 Nov 2021 | Masha Belikova

## **Additional Market Impacts**

RUSSIAN FEDERATION

October 12, 2021

## India Approves \$3.8 B Increase in Fert Subsidy

India will provide an additional 286.55 billion rupees (\$3.8 billion) to fertilizer companies as compensation for selling products at lower than market prices to farmers, according to *Bloomberg* citing a government statement said.

A cabinet meeting chaired by Prime Minister Narendra Modi approved the enhanced subsidy for winter-sown crops late Tuesday. The subsidy on of DAP is being raised by 438 rupees per bag and 100 rupees per bag for nitrogen, phosphorus and potassium fertilizers.

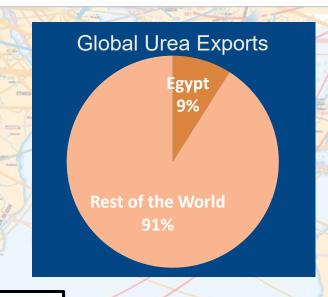
=> Artificially holds up demand!

=> Supply Disruption!

08 Nov 2021

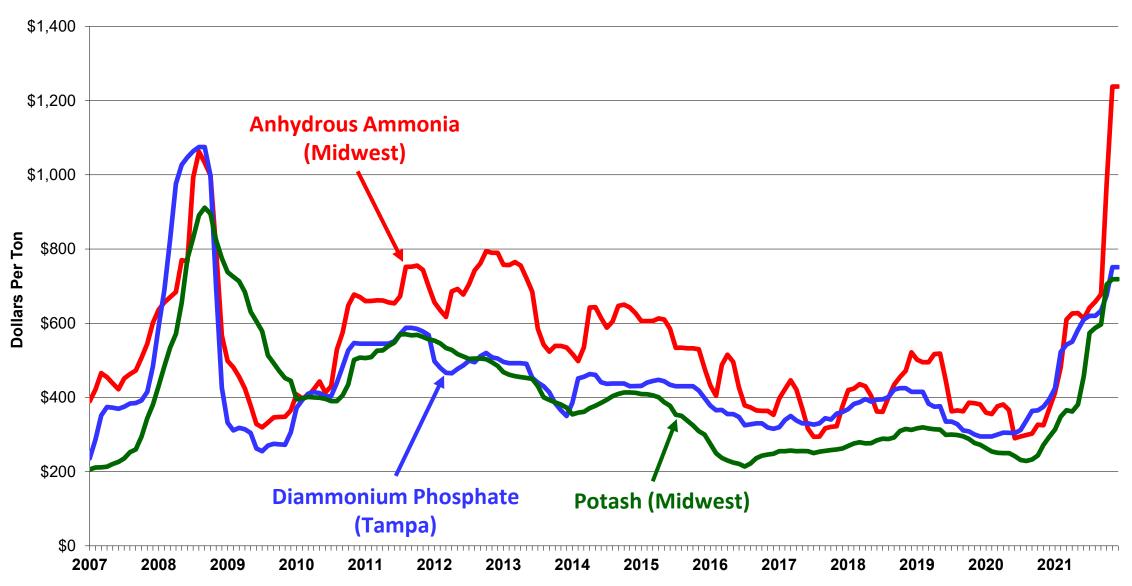
# Egypt: Tighter regulations imposed on fertilizer producers

Fresh regulations have been imposed on Egyptian fertilizer producers to ensure domestic supply, according to local sources.



→ Market tightens further!

### Fertilizer Prices: Jan 2007 – Dec 10, 2021



# Farm (Foundation®



# KANLAYA BARR Senior Economist John Deere



### **Supply Chain and Machinery Demand in 2022**



Kanlaya Barr, Ph.D. Lead Economist

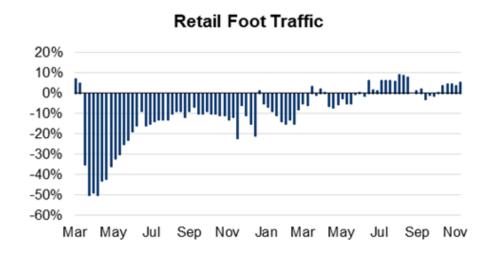


### **Supply Chain and Machinery** Demand in 2022

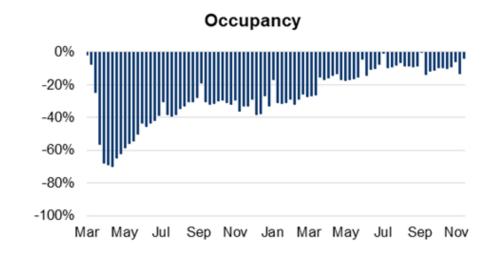
- General economic recovery continues, but slower pace
- Supply chain disruption continues, some relief starting H2
- Ag machinery demand remains strong
- Path of the virus and weather remain crucial



### High frequency indicators shows a pickup in mobility









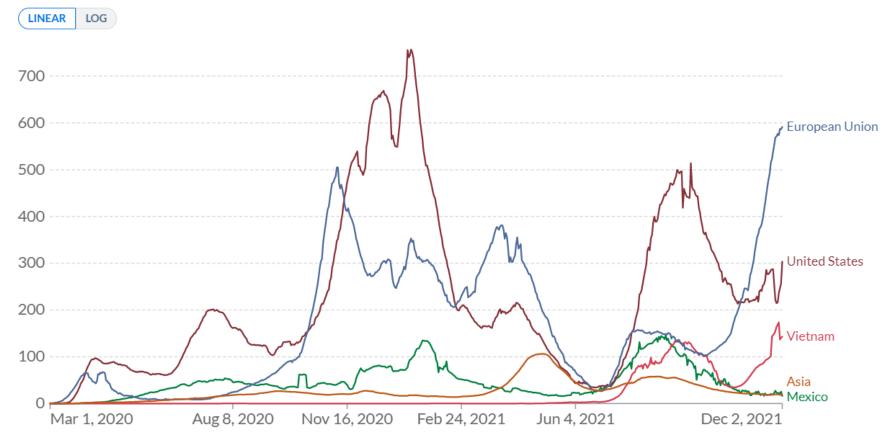
Source: Cleveland research, 20 November 2021

### Resurgence of COVID-19 in various geographies could impact supply chain and global recovery throughout 2022

### Daily new confirmed COVID-19 cases per million people

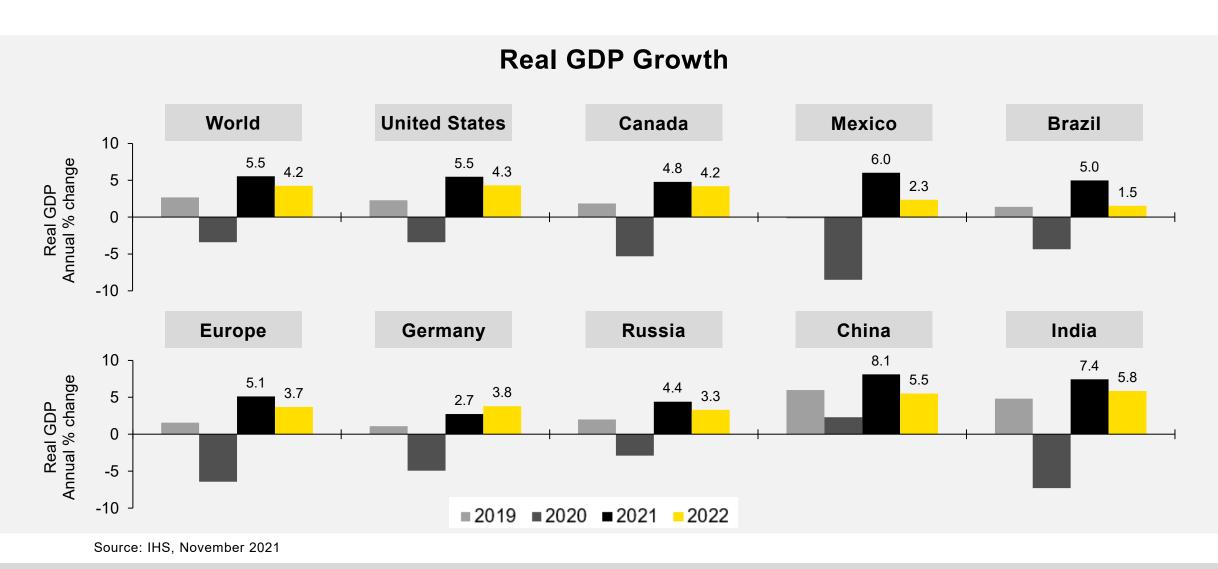


7-day rolling average. Due to limited testing, the number of confirmed cases is lower than the true number of infections.



Source: Johns Hopkins University CSSE COVID-19 Data

### U.S. economic recovery continues in 2022 at a slower pace



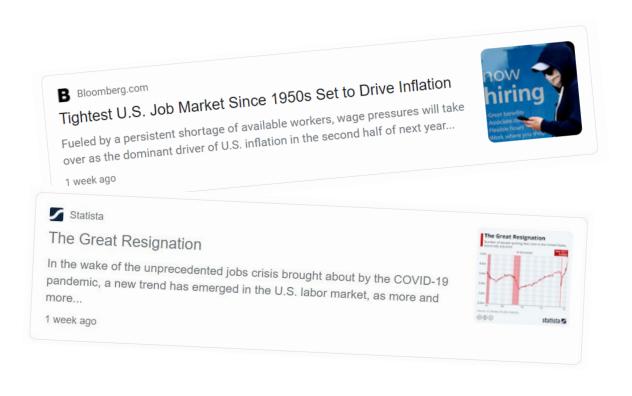
### Consumers: Household income and saving rate decline as stimulus impact wanes and the economy reopens



Sourcee: FRED, Nov 24, 2020

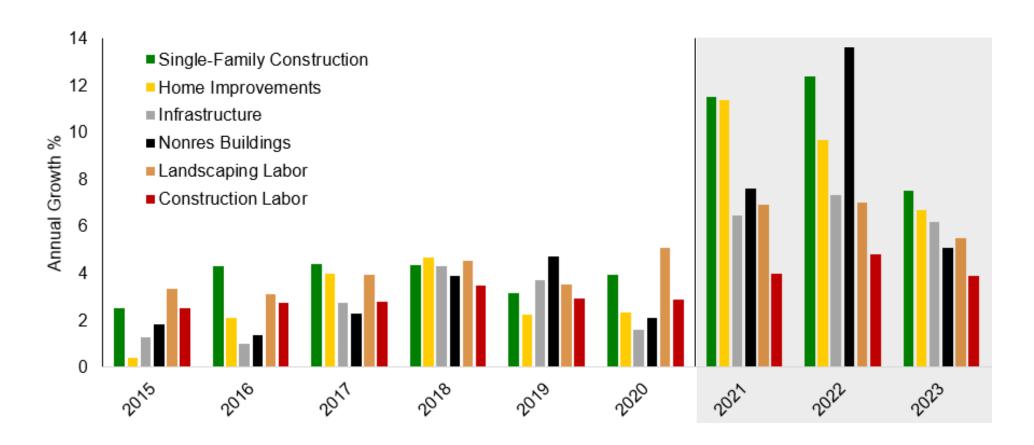
# Labor market: Wage growth still has further room to run. Labor supply should improve throughout 2022.

U.S. Labor Force Labor Force Aged 16-64 (LHS) Participation Rate (RHS) 63.1 

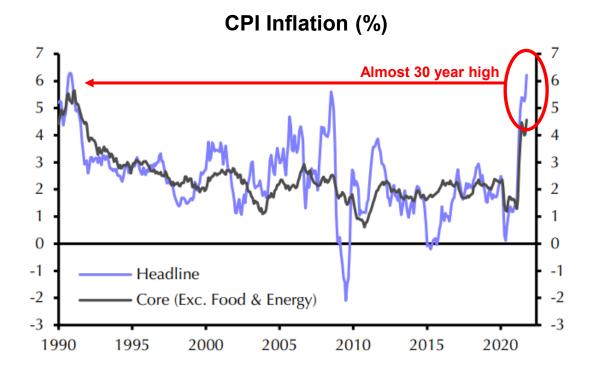


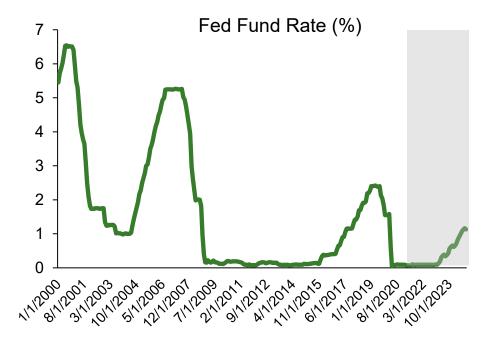
Source: IHS Markit forecast, 15 November 2021

### Input cost growth remains well above trend amid tight material and labor availability



## Inflation and interest rate: Persistent inflation could force Fed to raise interest rate sooner



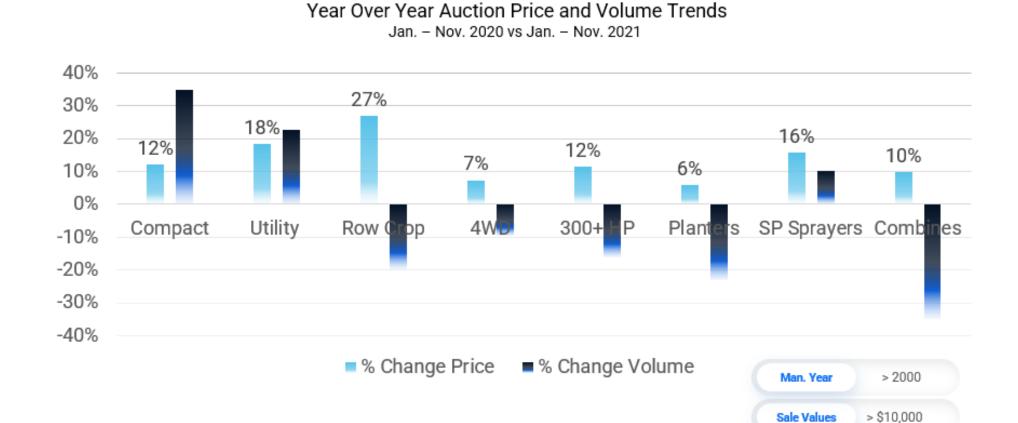


Interest rate is forecast to start rising in early 2023\*

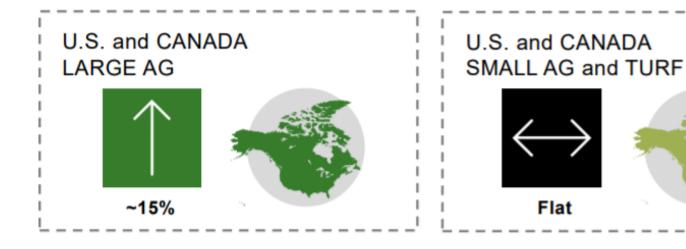
Source: Capital Economics, Refinitiv, 20 November, 2021

Source: IHS Markits, 15 November, 2021

### **Used equipment market remains tight**



### Ag industry looking strong in 2022



Source: Deere and company earnings call, November 2021

### **Supply Chain and Machinery** Demand in 2022

- General economic recovery continues, but slower pace
- Supply chain disruption continues, some relief starting H2
- Ag machinery demand remains strong
- Path of the virus and weather remain crucial







### THANK YOU!

### **Support our Mission**

- Become a Friend of Farm Foundation
- See the link in the chat function

We hope to see you at a future event!

#FarmFoundationForum