



Global Agriculture Update & 2022 Outlook

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President, Global AgriTrends December 2021

1

Our Business: Global AgriTrends

- Global analysis of agriculture markets, est. 2006; focused on global proteins (beef, pork, poultry)
- Economic, policy, forecasting
- Extensive global network of clients and contacts
- On-the-ground research on 6 continents
- Clients include multinational processors, ag banks, Wall St banks, hedge funds, brokers, producers (hogs, cattle, chickens), trade associations, feed companies, pharmaceuticals, exporters, importers and others seeking market intel in the global protein space





2

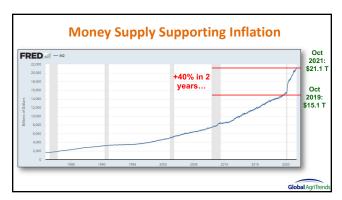
Outline

- The World's Largest Macroeconomic Experiment...
- External market drivers
 - COVID
 - China
- Other Risks and Issues
- 10-year outlook

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The World's Largest Macroeconomic Experiment...





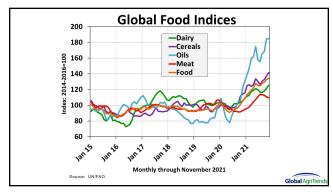
The Commodity Super-Cycle Continues

- Driven by expanded money supplies
 Global COVID stimulus: US\$10 TRILLION

 - Increased demand overloaded supply chains
- West coast port issues
 Container shortages (eastbound from Asia) • NOW:
- $\boldsymbol{-}$ Rising labor, fuel, electricity costs - Surging fertilizer costs, glyphosate
- · When does this end?
 - Look further than you think
- How does it end?
 - Soft or hard landing?

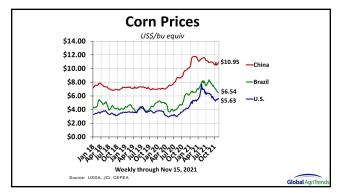


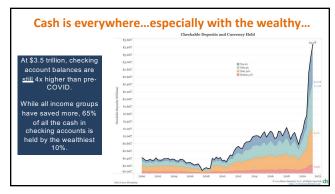
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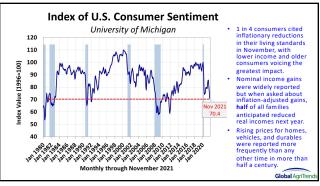


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Powell Weighs Earlier End to Bond Tapering Amid Hot Inflation

By Craig_Torres, Matthew Boesler, and Christopher Condon November 30, 2021, 8:59 AM MST Updated on November 30, 2021, 9:39 AM MST

- Said the strong U.S. economy and elevated inflation could warrant ending the central bank's asset purchases sooner than planned next year, though the new omicron strain of Covid-19 poses a fresh risk to the outlook
- Says could wrap up purchases a few months earlier
- Says it's time to retire word 'transitory' for price increases

https://www.bloomberg.com/news/articles/2021-11-30/powell-savs-appopriate-to-weigh-earlier-end-to-bond-buy-tapering

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13



14

Potential Results of Persistent Inflation

- 1. Inflation turns to "stagflation"
 - Inflation + economic slowing
 - Fed "tapers" bond purchases
 - Fed raises interest rates
- 2. Instability in the 3^{rd} world
 - Central banks already raising rates in Africa
 - Remember Arab Spring (2010)?



External Market Drivers

COVID China

Other Risks and Issues

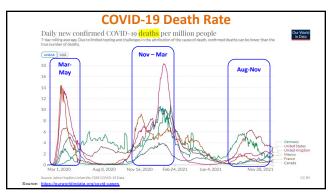
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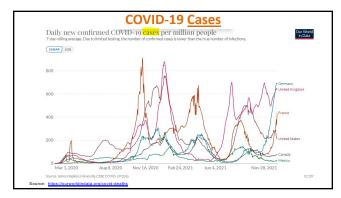
COVID Omicron Variant

- A highly divergent variant with a high number of mutations ... some of which are concerning and may be associated with immune escape potential and higher transmissibility. - WHO
- WHO says omicron poses a "VERY HIGH" global risk
 - Suggests "SEVERE CONSEQUENCES" for some areas
- By next week we should know much more about
 - Transmissibility
 - Virulence
 - Existing vaccine protection



17

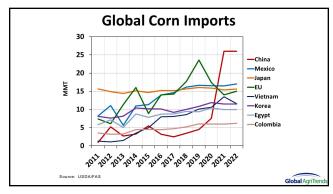


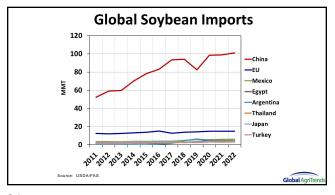


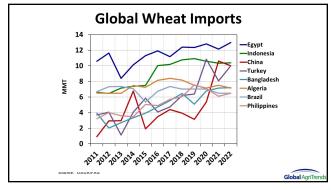
			= >70%	(= <30%		
	Doses	Fully	% fully		Doses	Fully	% fully
Location	given	vaccinated	vaccinated	Location	given	vaccinated	vaccinated
China	2.33B	1.07B	76%	France	101M	46.4M	69%
India	1.13B	378M	27%	Vietnam	101M	36.1M	37%
U.S.	443M	194M	59%	Iran	98.2M	42.2M	50%
Brazil	297M	128M	60%	Italy	92.6M	43.9M	74%
Indonesia	217M	85.4M	31%	Thailand	85.4M	37.1M	53%
Japan	195M	95.8M	76%	Bangladesh	84.9M	33.1M	20%
Mexico	130M	63.4M	49%	S. Korea	82.2M	40.2M	78%
Pakistan	120M	48.6M	22%	Spain	74M	37.5M	79%
Turkey	119M	49.8M	59%	Philippines	71.7M	39.5M	36%
Germany	116M	56.3M	68%	Argentina	64.3M	27.5M	61%
Russia	115M	51.7M	36%	Canada	59.7M	28.7M	76%
U.K.	110M	46M	69%	Colombia	51.8M	22.9M	45%

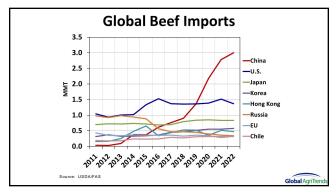


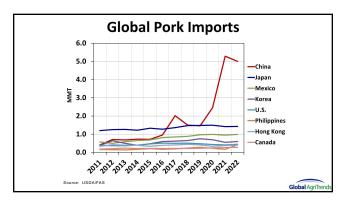


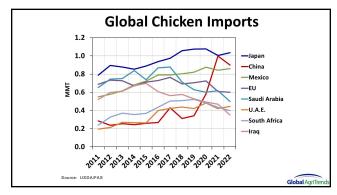


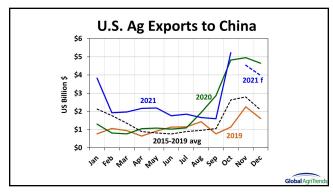


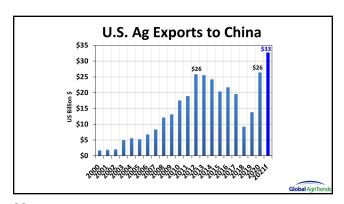


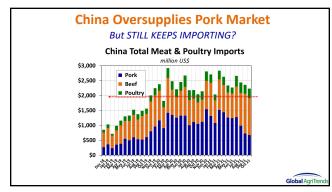


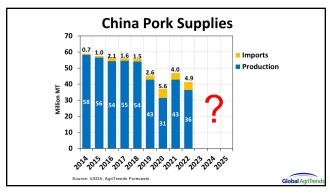










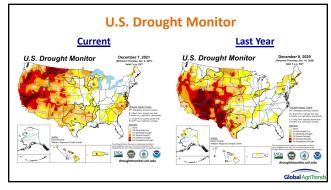


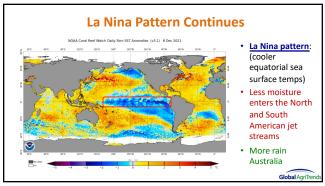
32

Are there any other global risks to the markets that we need to be mindful of going into 2022 and beyond?

Drought? Labor

Fertilizer shortages?
Climate policy – war on methane
Russian troop buildup on the Ukraine border



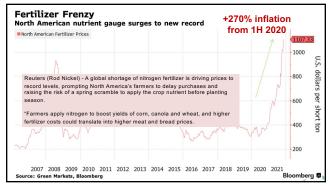


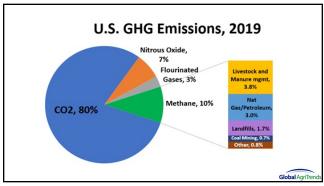
35

Labor Issues and Risks

- 11 million job openings currently in the U.S.
 - 6.5 million hirings in November
- Labor unions are seeing MAXIMUM LEVERAGE
 - Strikes ahead?
- How is it fixed?
 - Get used to it...

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38

Russian Troop Buildup on the Ukraine Border

- 175,000 troops and equipment moved up to the Ukraine border
- Timing is very good
 - EU (UK) energy shortages have driven them to Russia for help
- Pres. Biden reaffirmed the United States' unwavering commitment to Ukraine's sovereignty and territorial integrity.'
- Ukraine:
 - #6 global corn producer
 - #4 global corn exporter
 - #7 global wheat producer
 - #4 global wheat exporter

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