US-China Agricultural Trade: the Way Forward

IOWA STATE UNIVERSITY Extension and Outreach



Center for Agricultural and Rural Developmen

Wendong Zhang

Assistant Professor and Extension Economist at ISU wdzhang@iastate.edu, 515-294-2536 Iowa Corn Growers Association EGT Committee Meeting, February 24, 2021

A Quick Introduction: Dr. Wendong Zhang

- Grown up in a rural county in NE China
- Attended college in Shanghai and Hong Kong
- Ph.D. in Ag Econ in 2015 from Ohio State
- 2012 summer intern at USDA-ERS on farm economy and farmland values
- Research and extension interests:

land value/ownership

- 2020 Results now available at ISU Farmland Portal www.card.iastate.edu/farmland/
- 2019 Farm Transfer Survey

agriculture and the environment (e.g., the 2019 lowa Lakes Survey)

China Ag center www.card.iastate.edu/china



CHINA

POLITICO

The decaying U.S.-China relationship will change each of our lives

By **DAVID WERTIME** 07/16/2020 08:40 AM EDT

Money and information won't flow like it used to and global companies will have to make stark choices.

Los Angeles Times

News Analysis: How bad could U.S.-China relations get?

South China Morning Post

TRAILER & DUTIENT



Finbarr Bermingham and Wendy Wu Published: 11:00pm, 25 Aug, 2020 -

US-China trade war: both sides cling to phase one deal as wider relationship crumbles



Ag Decision Maker

November 2020



APPLIED ECONOMIC

Featured Article

Wendong Zhang 🔀

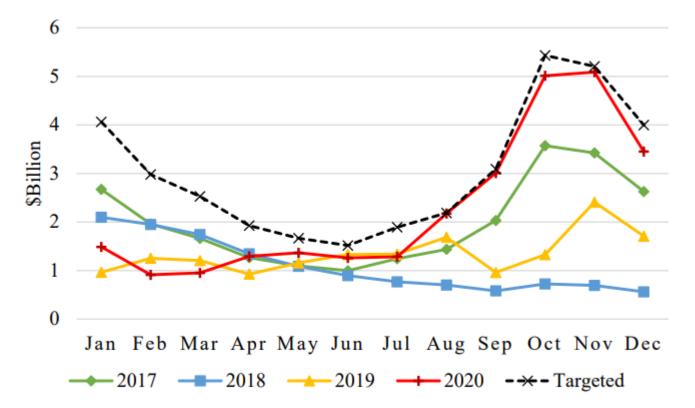
AND POLICY

A brief argument for healthy US-China agricultural trade relations despite deglobalization pressures

🕅 AAEA

By Wendong Zhang, extension economist, 515-294-2536, wdzhang@iastate.edu

https://www.extension.iastate.edu/agdm/articles/zhang/ ZhaNov20.html



China's Ag Minister Tang in Dec 2020: China's hog inventory is 91% of 2017 levels

The Case for Healthy U.S.-China Agricultural Trade

Relations Despite Deglobalization Pressures[†]

First published: 13 October 2020 | https://doi.org/10.1002/aepp.13115

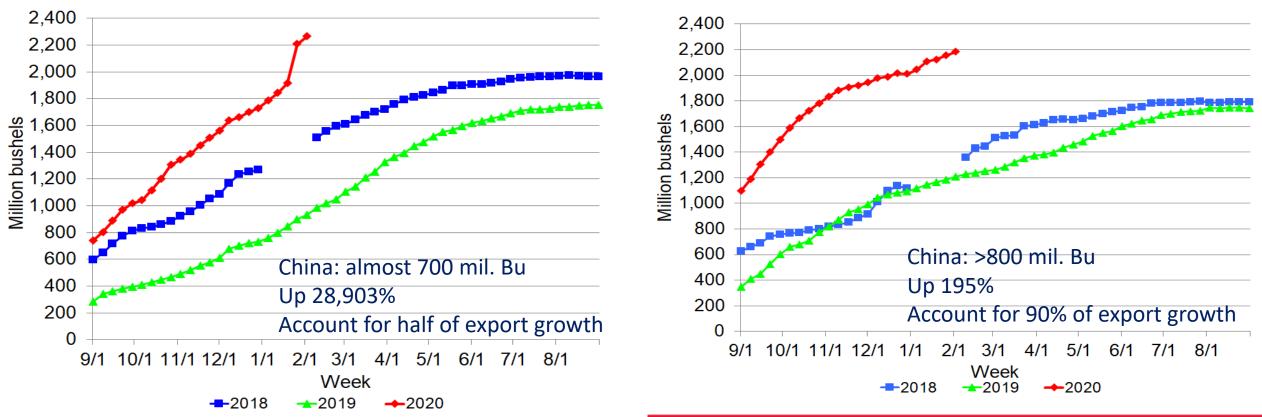
Figure 1. Monthly US agricultural and related products exports to China, 2017–2020.



Recent commodity price rallies driven by surging exports, not record gov't payments

Corn Export Sales

Soybean Export Sales

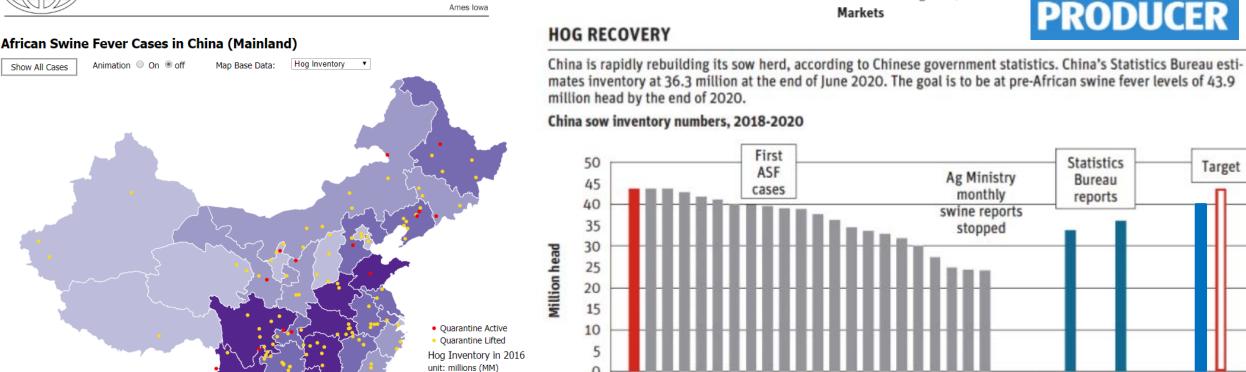


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Source: Chad Hart, ISU







Source: Dim Sums | WP graphic

hog herd

China makes progress rebuilding

Published: August 6, 2020

Markets

Bv Sean Pratt

Large Hog Companies Gain from China's Ongoing African **Swine Fever** Chen-Ti Chen, Tao Xiong, and Wendong Zhang

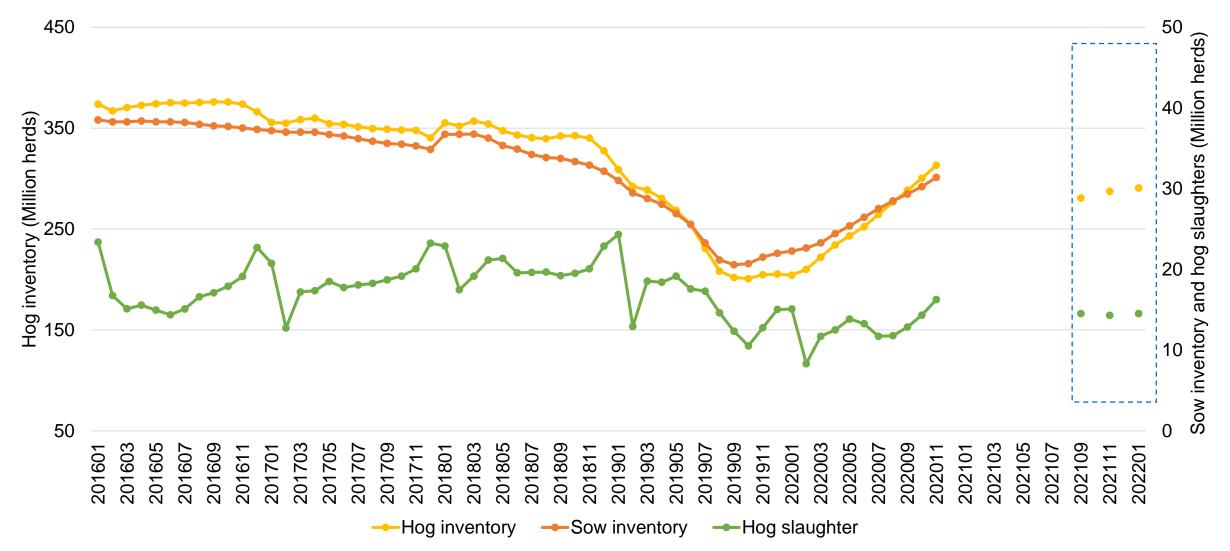
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IOWA STATE UNIVERSITY https://www.card.iastate.edu/ag_policy_review/article/?a=111 Extension and Outreach



Target

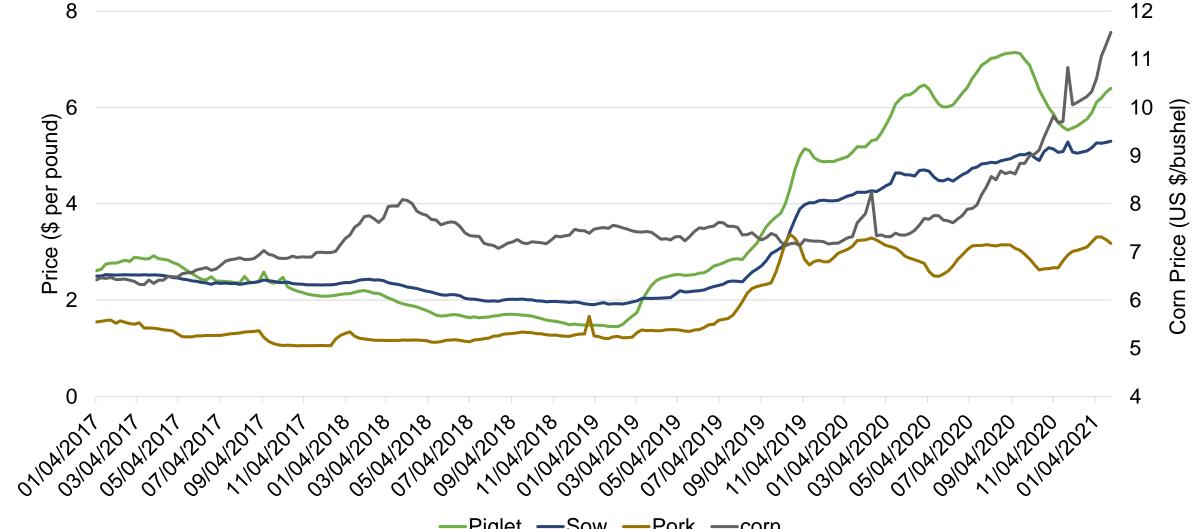
China's hog rebuilding progress 2018-2021







China's hog & pork & corn prices 2017-2021



-Piglet —Sow —Pork —corn







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CARD Policy Briefs

20-PB 29

February 2021 **China's Agricultural Imports under the Phase One Deal: Is Success Possible?**

Xi He **Dermot Hayes** Wendong Zhang

Table 1. China's Imports of Key Commodities 2017 and 2020

		<u>2017 Jan–Dec</u>			2020 Jan-Dec		
	US	Non-US countries	US share	US	Non-US countries	US share	
China's total import	value (\$Million)						
Corn	160	442	26.55%	959	1532	38.50%	
Soybeans	13940	25698	35.17%	10634	28904	26.90%	
Cotton	983	1207	44.88%	1466	1869	43.96%	
Sorghum	957	69	93.26%	978	135	87.90%	
Peanuts	62	268	18.74%	203	941	17.77%	
Pork	1162	3217	26.53%	1695	17198	8.97%	
Beef	25	3116	0.80%	228	10000	2.23%	
Poultry	0	1032	0.00%	750	2748	21.44%	
Dairy	1087	8203	11.71%	479	9659	4.73%	
Ethanol	1	29	3.09%	15	21	41.18%	
Total agricultural and related products	24,000	101,860	19.07%	27,300	143,501	15.98%	

Courses Consul Administration of Quetoms of Ching data (CACC 2020)



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February 2021 20-PB 29

CARD Policy Briefs

China's Agricultural Imports under the Phase One Deal: Is Success Possible?

Xi He Dermot Hayes Wendong Zhang

Table 3. China's Predicted Agricultural Imports of Key Commodities from February 15, 2020, to February 14, 2021

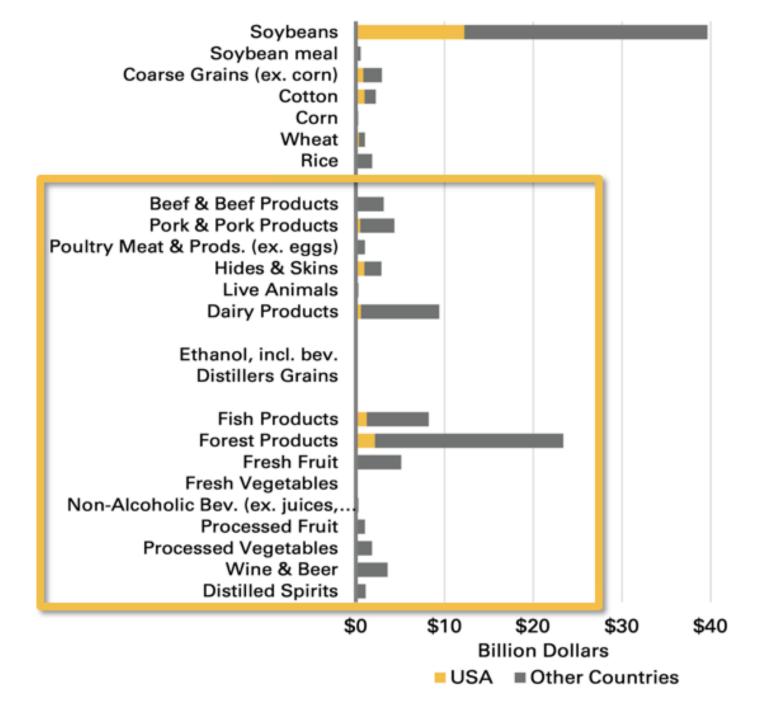
		Imports from US	Imp	orts from all sources
	<u>Value</u> (\$Million)	Quantity (Thousand metric tons)	<u>Value</u> (\$Million)	Quantity (Thousand metric tons)
Corn	3,907	17,690	5,475	24,647
Soybeans	14,520	35,130	40,006	101,884
Cotton	1,501	922	3,172	1,935
Sorghum	1,121	4,828	1,261	5,410
Pork	2,005	1,488	20,567	25,319
Beef	230	28	10,439	2,168
Ethanol	33	78*	54	129*
Poultry	751	423	3,593	1,589
Total ag	35,822		182,130	

Note: Author's estimation based on 2017 seasonal patterns and China's most recent agricultural purchases from the United States, which includes advanced corn and soybeans sales until January 29, 2021. We assume the advanced corn and soybean sales until January 29, 2021, will be delivered in the

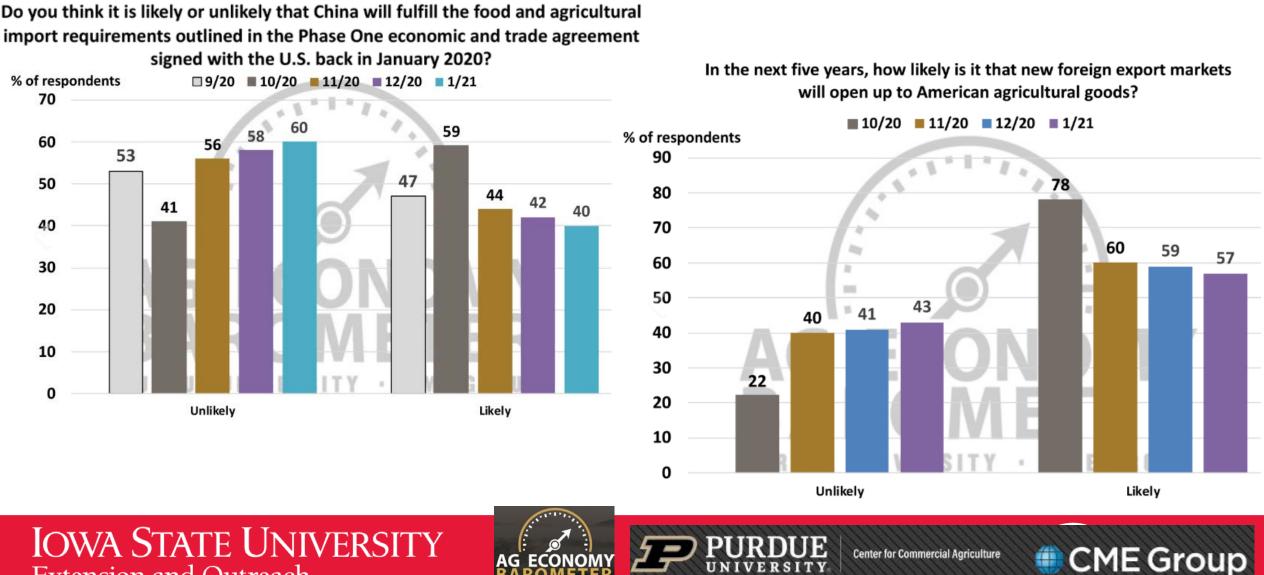
A possible & more balanced pathway for China's ag import surge?

Key Chinese agricultural

imports by commodity and country in 2017



What Do Farmers Think About the Trade Deal?



Extension and Outreach

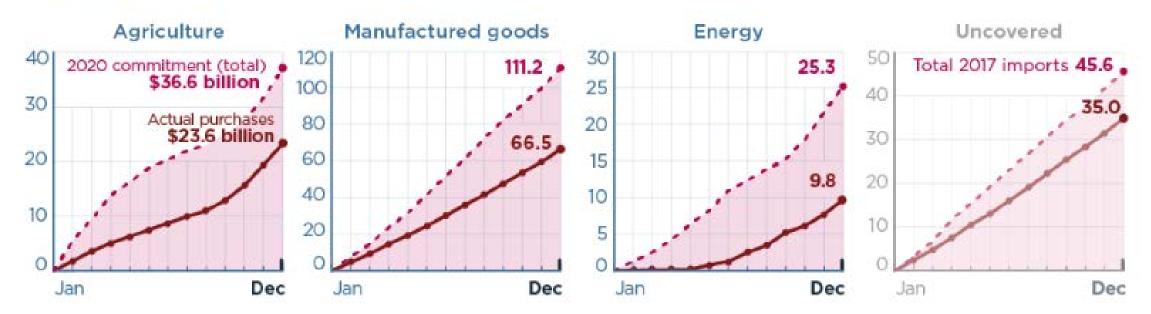
US-China phase one tracker: China's purchases of US goods

US exports and China's imports in 2020 of all goods covered by the phase one deal



Chad P. Bown (PIIE) February 8, 2021

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



US-China trade dispute

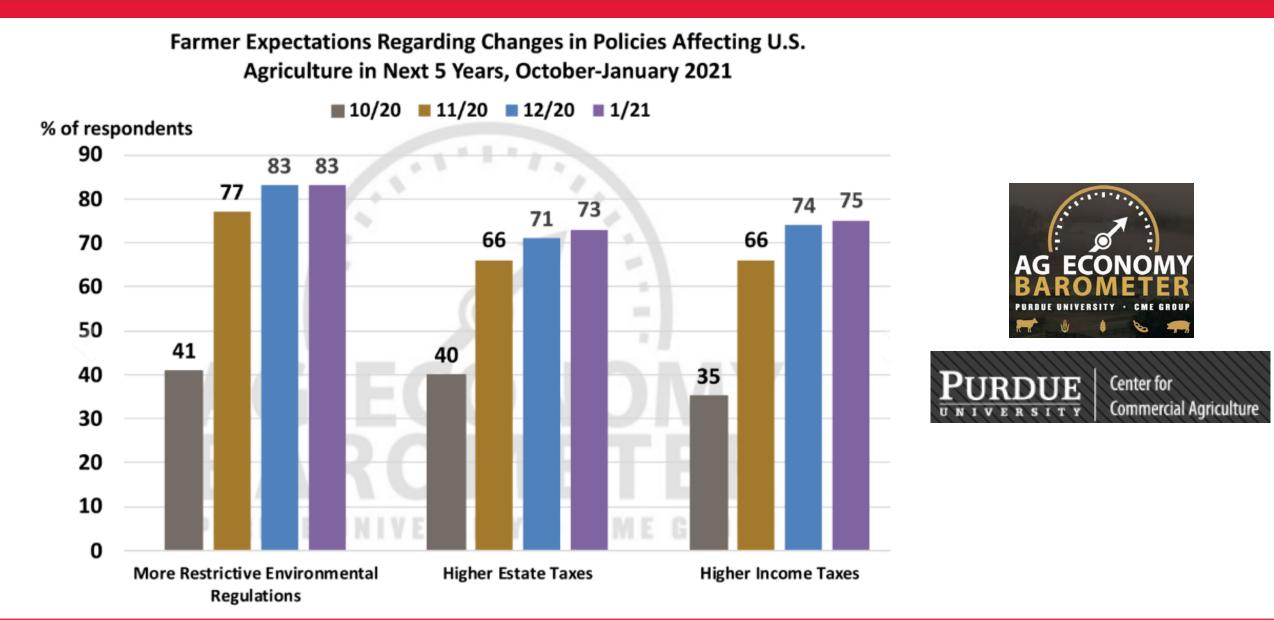
+ Add to mvFT

Biden administration says Trump's China trade deal 'under review'

Chinese purchases of US exports fall far behind trade deal pledge





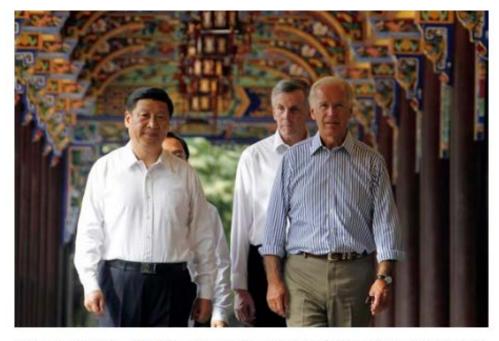




Biden is No Stranger to Xi

MUSCATINE VISITOR Spokesman: Friendly Iowans bring VP back

Mike Ferguson Feb 13, 2012 Updated Feb 28, 2012



FILE - In this Aug. 21, 2011, file photo U.S. Vice President Joe Biden, right, walks with Chinese Vice President Xi Jinping, left, as they visit the South Bridge in Dujiangyan on the outskirts of Chengdu, in southwestern China's Sichuan province. Xi will visit Iowa in February, 2012, reciprocating for Vice President Joe Biden's visit to China last August. (AP Photo/Ng Han Guan, File) The New York Times

Chinese Vice President Ends U.S. Tour on Friendly Note

f y 🛚 🔶 🗌



Vice President Xi Jinping of China and Vice President Joseph R. Biden spoke to students at the International Studies Learning Center in South Gate, Calif. Monica Almeida/The New York Times

By Edward Wong

Feb. 17, 2012

China

Nov 7th 2020 edition >

Circling back

China's "dual-circulation" strategy means relying less on foreigners

Xi Jinping sees the creation of fully domestic supply chains as a matter of national security



By Hemant Adlakha

December 01, 2020

With RCEP Complete, China Eyes CPTPP

The Economist

Is President Xi Jinping's statement desire to join the CPTPP a signal of reconciliation to the new Biden administration or a bid to advance China's regional dominance?

Europe strikes major investment deal with China despite US



concerns

By Charles Riley, CNN Business

Updated 9:15 AM ET, Wed December 30, 2020

China pledges to become carbon neutral before 2060





News

China

from

Tue 22 Sep 2020 15.21 EDT

Unexpectedly forthright pledge will boost UN efforts to galvanise action on climate crisis

Conjecturing Trade Policy under Biden

- Trade policy likely not an immediate priority (compared to COVID-19 response & international coordination, Paris Accord, potentially Iran)
- Lower your expectations on tariff rollbacks, will remain tough on China
 - Biden in 2019: "If we don't set the rules, we in fact are going to find ourselves with China setting the rules, and that's why we need to organize the world to stop China to stop the corrupt practices that are under way"
- More likely to embrace allies & multilateral approaches & Intl. organizations
- The tone will be more **polite** & regular dialogue channels will be resumed
- RCEP (SE Asia, China, Japan, Korea, Australia, New Zealand) will put pressure on Biden to consider rejoining TPP (now called CPTPP) – **CPTPP** has higher standards on tariff removals, labor and environmental standards
- New sources of tensions with China on human rights, Hong Kong, S China Sea
- Biden voted for NAFTA & China joining WTO & met 4th generations of Chinese leaders IOWA STATE UNIVERSITY Extension and Outreach

enter for Agricultural and Rural Developn

US-China Relations under Biden

- Areas of collaboration - good will is needed to be shown through actions

- work together under Paris Climate Accord;
- reinstating regular strategic and economic dialogues channels;
- Encouraging people to people interactions (e.g., restart Fulbright Scholars & Peace Corps)
- Coordinating COVID-19 vaccine roll-out under WHO + fiscal policy coordination?
- re-opening consulates in Houston and Chengdu?
- A 24-hr high-level hotline?

– Uncertainties:

- Review & renegotiation of trade deals (phase one, CPTPP)
- Tensions related to human rights issues
- Restrictions on tech-related bilateral investments & trade (e.g., Huawei)





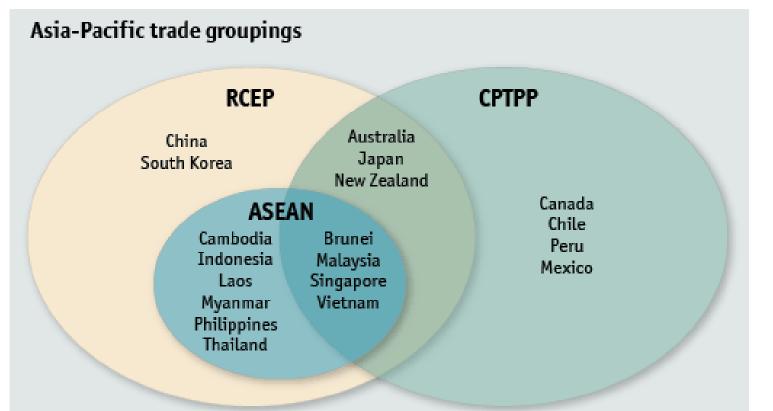
With RCEP Complete, China Eyes CPTPP

Is President Xi Jinping's statement desire to join the CPTPP a signal of reconciliation to the new Biden administration or a bid to advance China's regional dominance?



By Hemant Adlakha

December 01, 2020



Notable Omissions:

USA for TPP India from RCEP

Source: The Economist Intelligence Unit.





POLITICS

Biden picks longtime China critic Katherine Tai as top U.S. trade official

PUBLISHED THU, DEC 10 2020-10:36 AM EST UPDATED THU, DI



KEY POINTS

- If confirmed, Tai would inherit a Cabinet-level position tasked with enforcing U.S. import rules and brokering trading terms with China and other U.S. partners.
- Though Tai may favor greater cooperation with allies, her leadership as USTR wouldn't necessarily signal a change to the tougher stance toward China.
- Biden has said he wouldn't immediately remove tariffs on China as his administration reviews the deal the Trump administration brokered with Beijing.

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House Ways & Means Committee Democratic Chief Trade Counsel

Des Moines Register

POLITICS

President-elect Joe Biden introduces Iowa's Tom Vilsack as the nation's next agriculture secretary

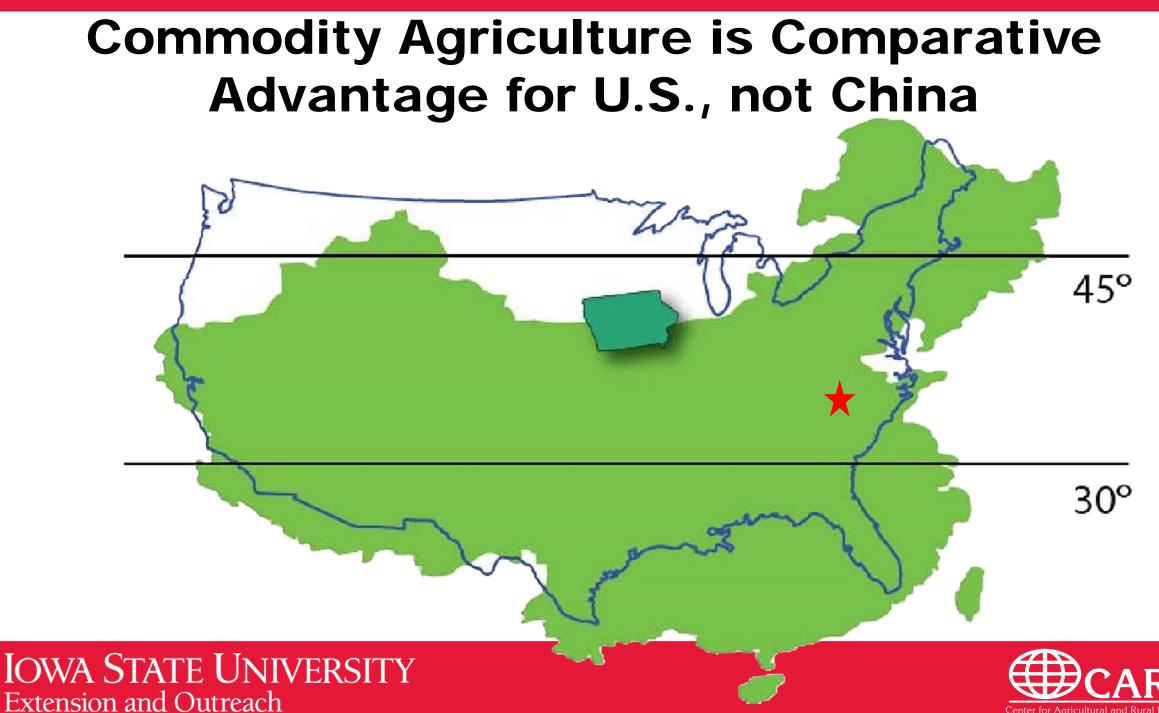
Donnelle Eller Des Moines Register Published 12:10 p.m. CT Dec. 11, 2020 Updated 4:12 p.m. CT Dec. 11, 2020

MEYER TO SUCCEED JOHANSSON AS USDA CHIEF ECONOMIST

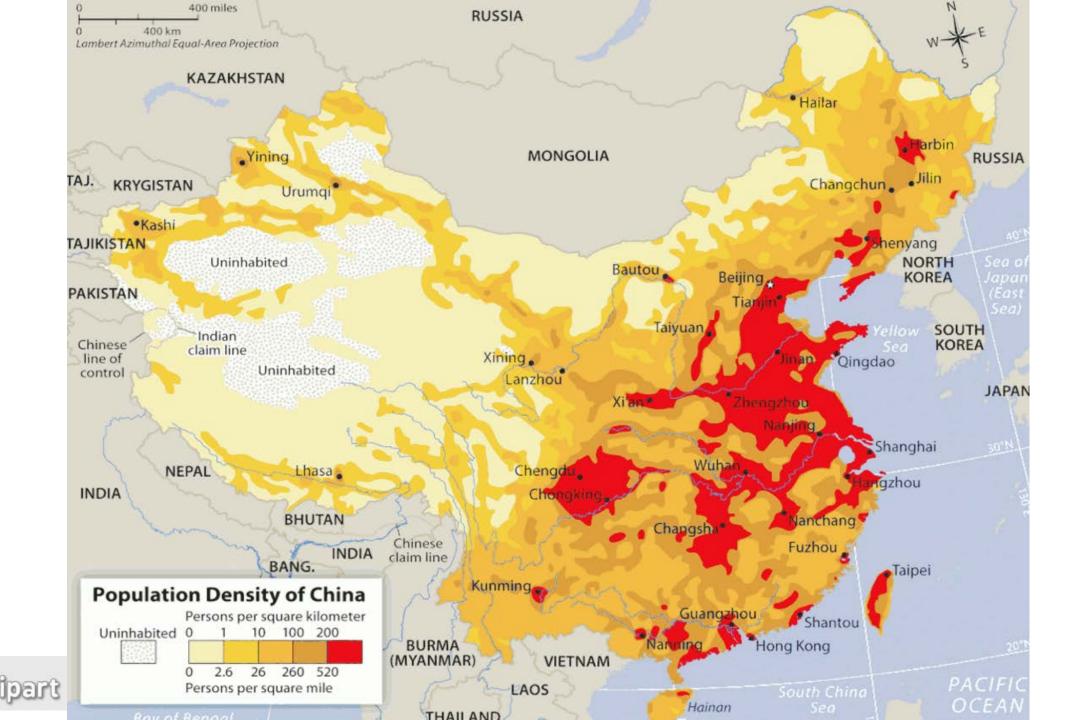
By Chuck Abbott 12/15/2020

The associate director of a University of Missouri think tank, Seth Meyer, will become USDA chief economist at the end of January, succeeding Rob Johansson, who held the post since 2015, said Agriculture Secretary Sonny Perdue on Monday. As chief economist, Meyer will be responsible for USDA's agricultural forecasts and projections and will advise the agriculture secretary on the economic impact of legislation and regulations.

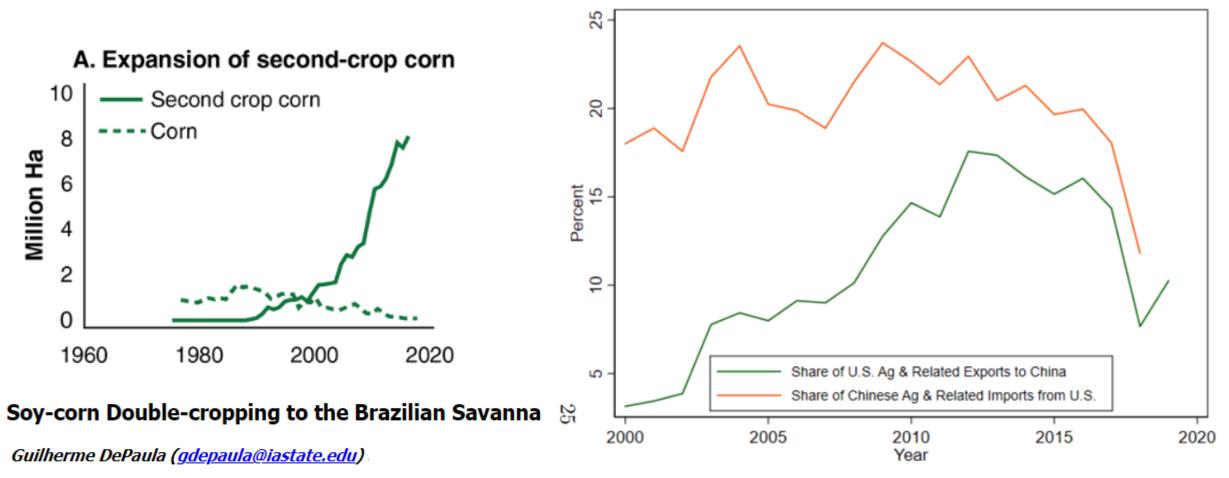




Center for Agricultural and Rural Development



China's Diversification away from U.S. began well before 2018, and got accelerated from the trade war



Spring 2019 APR

(a) Significance of U.S.-China agricultural trade

China is a Country of Rapid Change



South China Morning Post

Tech / Enterprises

Meet the man behind one of China's biggest agricultural drone makers

- · Demand for agricultural drones is rising because of labour shortages in China
- Agricultural drones are used for crop monitoring as well as pesticide spraying

Topic | Drones



Celia Chen Published: 7:0



IOWA STATE UNIVERSITY Extension and Outreach

3-min YouTube video about China's Pesticide-spraying drones

8ZbhJT6NinM



China moves toward commercialization of GMO corn

and soy

South China Morning Post

Economy / Global Economy

JANUARY 23, 2020

China moves on to tackle the 'chips' for agriculture

By Chu Daye

Published: Dec 30, 2020 11:51 PM Updated: Dec 30, 2020 11:53 PM



China food security: Beijing calls for biotech breakthrough to improve seed industry

- China's top leaders have signalled a push to improve the nation's seed industry as part of a campaign to ensure food security
- Concerns about food supply have heightened this year due to reports of grain shortages and disruptions from the pandemic



China is a Country of Rapid Change

With its CRISPR revolution, China becomes a world leader in genome editing

By Jon Cohen, Nirja Desai | Aug. 2, 2019 , 8:00 AM

To feed its 1.4 billion, China bets big on genome editing of crops

By Jon Cohen | Jul. 29, 2019 , 8:00 AM

China's CRISPR push in animals promises better meat, novel therapies, and pig organs for people

By Jon Cohen Jul. 31, 2019, 8:00 AM



China Takes Its Pigs to the Futures Market

New hog futures may smooth out some of the wild swings in Chinese markets THE WALL STREET JOURNAL.



What is this?



China set to approve domestic GMO corn, soy crop varieties

CONTRIBUTORS

Dominique Patton — Reuters Hallie Gu — Reuters PUBLISHED JAN 11, 2021 3:17AM EST

China's Ministry of Agriculture and Rural Affairs said on Monday it was set to approve the safety of a new genetically modified (GMO) corn variety and a GMO soybean, both produced by local company Beijing Dabeinong Technology Group Co Ltd 002385.SZ. China approved three domestically designed GMO crops as safe, the first to gain a safety certificate in a decade.

COMMODITIES DECEMBER 19, 2020 / 12:10 AM / UPDATED 2 MONTHS AGO

China signals GM, biotech push in key policy statement

REUTERS

According to a statement issued after the annual Central Economic Work Conference held on Dec. 16-18, China needs to make better use of science and technology to achieve a "turnaround" in its seed industry.

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"The key to ensuring food security lies in implementing the strategy of storing grain in the ground and storing grain in technology," according to the statement,

Changes in my hometown?

Greenhouse – plastic film -Shandong Province



Home / Business / Industries

CHINA, INSIDE OUT

Chilean cherries a hit with festive shoppers By Ouyang Shijia | China Daily | Updated: 2019-02-12 09:45



In China, 500+ million consumers shop on mobile phones, even before the coronavirus

Chinese Lesson Time



The Year of Ox (pronounciation: New)

牛



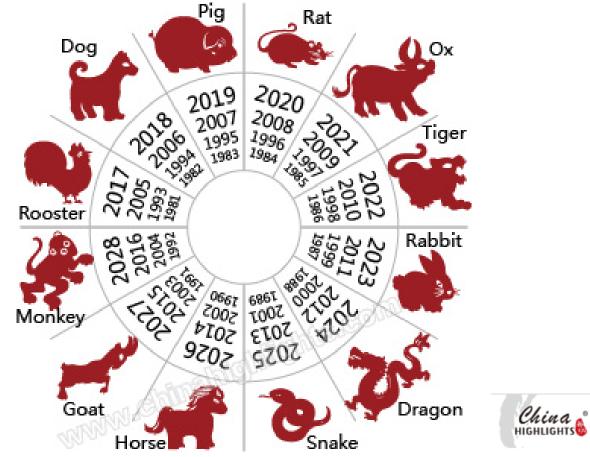
Year of the Metal Ox



February 12, 2021, marks the beginning of the Year of the Ox. ROSLAN RAHMAN/AFP/AFP via Getty Images

In the Chinese Zodiac, the Ox is very hardworking and methodical. 2021 is going to be a year when work will get rewarded www.thechinesezodiac.org/chinese-horoscope-2021-year-of-themetal-ox/

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Lucky Colors of 2021: white, yellow and green



Learn more about contemporary Chinese economy



CHINA'S ECONOMY

WHAT EVERYONE NEEDS TO KNOW*

SECOND EDITION

ARTHUR R. KROEBER

Will publish on July 1, 2020

NATIONAL BESTSELLER

"Thucydides's Trap identifies a cardinal challenge to world order." -HENRY KISSINGER, *famore US sourceary of state*

DESTINED For War

CAN AMERICA AND CHINA ESCAPE THUCYDIDES'S TRAP?

GRAHAM ALLISON



FACTORY GIRLS / Leslie T. Chang From Village to City in a Changing China

Broaden your information sources!





Thank You!



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ome Products/Output News Tools Research Areas Ag Policy Review Farmland China Ag Conservation People About Dverview ISU Survey Graphs Interactive Maps Ownership Downloads Resources FAQ News History Archive

2019 ISU Land Value Survey

2019 ISU Land Value Survey

The 2019 ISU Land Value Survey shows a 2.3 percent increase in average Iowa farmiand values from November 2018 to November 2019. The average statewide value of an acre of farmiand is now estimated at \$7,432. This modest increase, which barely exceeds the pace of inflation, is the second rise over the past six years, but still represents a 15 percent decrease from the 2013 peak in nominal land values, or a 23 percent drop in inflation-adjusted values.

2017 Iowa Farmland Ownership & Tenure Survey Paper Copy Available for Order (\$5 Only)

The new, 60-page 2012 Iowa Farmland Ownership and Tenure Survey report is available for order at the Extension Store ⁽²⁾ for only \$5 each paper copy. This is a unique survey across the nation which provides statistically representative information on many aspects of land ownership, tenure and transitions in Towa. For example, the survey finds that 60% of Towa land is owned by people 65 years or older, 82% of Towa land is owned free of debt, and 29% of all acres is primarily owned for family or sentimental reasons.

1. What are you interested in?



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www.card.iastate.edu/farmland

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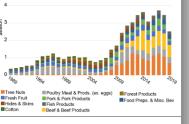
Home Products/Output News Tools Research Areas Ag Policy Review Farmland China Ag Conservation

中文版 🔶 Home Publications Presentations COVID-19 Trade War Data Resources News

China Ag Center · Publications

Xi He and Wendong Zhang. 2020. <u>"Implications of</u> <u>Hong Kong's Special Status Revocation for</u> <u>Agricultural Trade between the United States, Hong</u> <u>Kong, and Mainland China.</u>" <u>Agricultural Policy</u> *Review.* Center for Agricultural and Rural Development, Iowa State University.

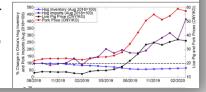
In 1992, the United States granted Hong Kong status as a customs territory separate from mainland China. On June 29, 2020, however, the US Department of Commerce withdrew that status due to recent tensions between China and the United States. Hong Kong, as the world's largest re-



exporting port, plays a large intermediary role in US-China trade, and the revocation of its special status may provoke China into taking retailatory economic and/or political actions. He and Zhang examine trends in Hong Kong's import/export of US agricultural products and how that trade may be affected. They find that the revocation itself is not likely to directly affect US-China agricultural trade prospects much if neither China nor the United States responds with further actions.

Chen-Ti Chen, Tao Xiong, and Wendong Zhang. 2020. "Large Hog Companies Gain from China's Ongoing African Swine Fever." Agricultural Policy Review. Center for Agricultural and Rural Development, Iowa State University.

Since November 2018, China has reduced its hog and sow inventory by almost 32% due to ongoing outbreaks of



www.card.iastate.edu/china