# U.S. - China Agricultural Trade after the 2020 Election: the Way Forward



# 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



#### Land Values by District and Quality, Nov 2020

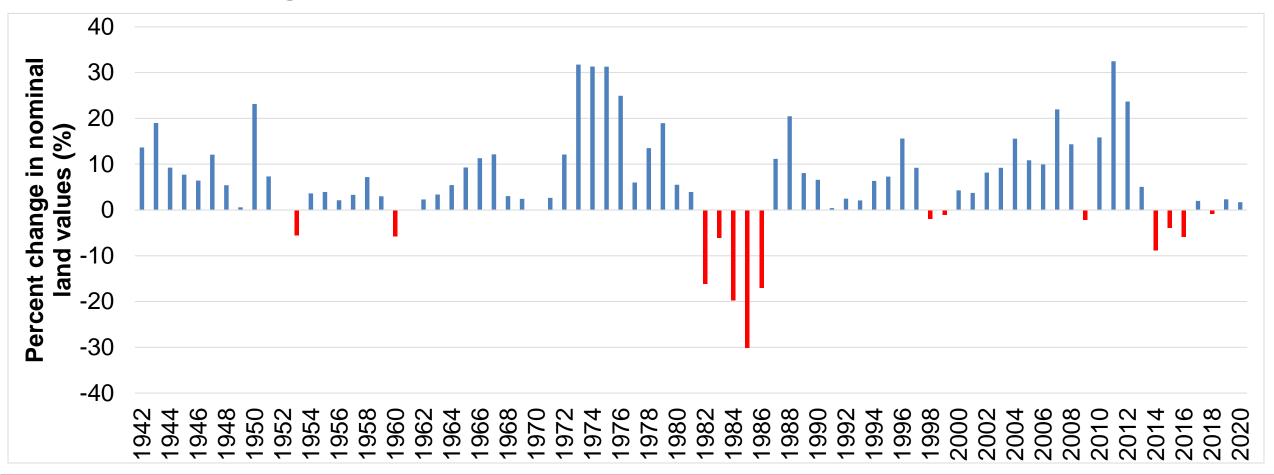
District	Average Value	% Change	High Quality	% Change	Medium Quality	% Change	Low Quality	% Change
Northwest	\$9,536	2.0%	\$10,780	0.2%	\$8,993	4.2%	\$6,486	6.4%
North Central	\$7,927	0.2%	\$8,889	0.3%	\$7,350	1.4%	\$5,297	-0.5%
Northeast	\$7,525	2.7%	\$9,182	1.5%	\$6,980	2.2%	\$5,213	8.5%
West Central	\$7,859	3.9%	\$9,159	1.6%	\$7,433	5.0%	\$5,492	11.0%
Central	\$8,485	1.8%	\$9,800	0.5%	\$7,883	3.1%	\$5,793	6.0%
East Central	\$8,524	0.6%	\$10,199	-2.1%	\$7,959	1.7%	\$5,599	6.1%
Southwest	\$6,112	-0.9%	\$7,484	-3.7%	\$5,843	0.0%	\$4,055	5.5%
South Central	\$4,658	3.8%	\$6,408	-0.1%	\$4,563	4.4%	\$3,262	10.4%
Southeast	\$6,935	1.0%	\$9,299	-0.4%	\$6,639	0.3%	\$4,134	9.1%
lowa Avg.	\$7,559	1.7%	\$9,068	-0.1%	\$7,119	2.6%	\$5,078	6.7%

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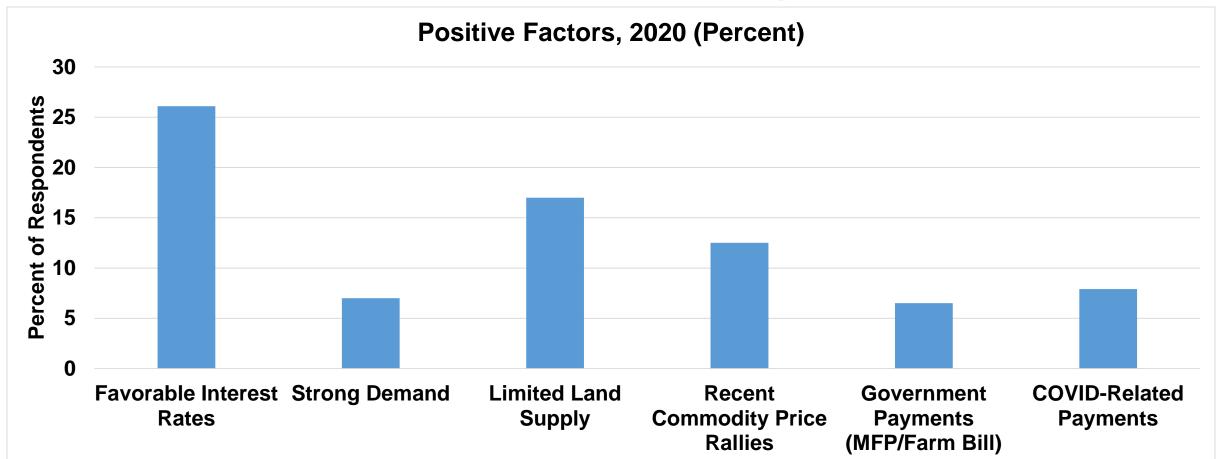
#### 2020 1.7% hike represents 3<sup>rd</sup> rise in past 6 years

% Change in Nominal Iowa Farmland Values 1942-2020



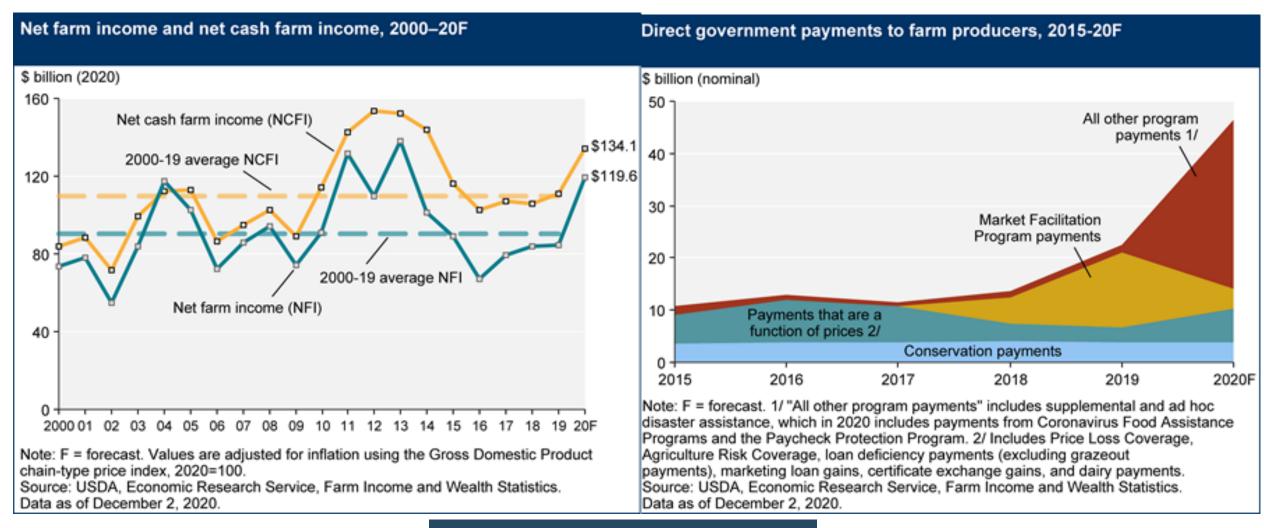


### Major Positive Factors Affecting lowa Farmland Market, 2020





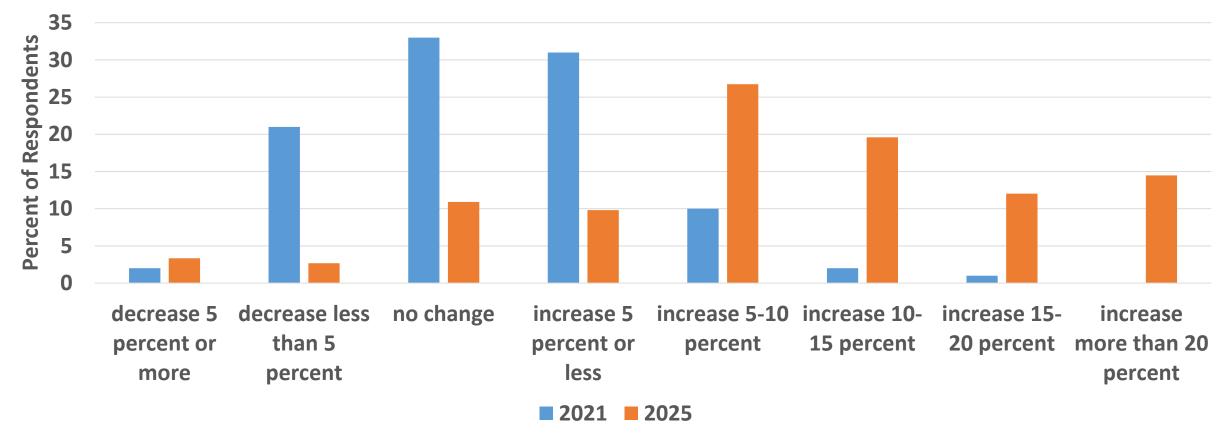
# Record federal ad hoc government payments and lower interest rates provided support for land values



#### Midwest Farmland Value Trends

State	USDA Farm Real Estate Values – June 2019 to June 2020	Land Grant University Surveys or Sales Price Analysis	Chicago/Kansas City Fed –October 2019 to Oct 2020	Farm Credit Services of America –January to June 2020 – benchmark land prices
lowa	-1.7%	0.1% (RLI – September 2019 to 2020)	+1%	+0.3%
Illinois	+1.6%	-1% (Good quality)	+2%	
Indiana	+3%	+3.2% (Avg Quality, June 2019 to June 2020)	+6%	
Wisconsin	-2%	-3.1% (2018 to 2019, avg sales prices)	+3%	
Minnesota	0	-2.5% (2018 to 2019, avg sales prices)	+3%	-0.4%
Nebraska	-2.1%	+3% (reported in March)	0%	

# Land value predictions one & five years from now, more optimism over time, 2020





#### **CARD Policy Briefs**



December 2020

20-PB 30

#### Iowa Farmers' Business and Farm Transfer Plans: A Comparison between 2019 and 2006

**Beatrice Maule**, Sophomore in Agricultural Business, Economics and International Agriculture, Department of Economics, Iowa State University, beamaule@iastate.edu

Wendong Zhang\*, Assistant Professor, Department of Economics and Center for Agricultural and Rural Development, Iowa State University, wdzhang@iastate.edu

David Baker, Director, Beginning Farmer Center, Iowa State University, baker@iastate.edu

July –Oct 2019; 886 farmer respondents (~30% response rate) 739 still operate a farm in 2019 and is our analysis sample

- The average age farmers planned to retire or semiretire is 70 years old in 2019
- Income from social security top income source after retirement
- 66% of farmers said they do not have a formal succession plan
- Most farmers discussed their succession plans with spouse or children, 22% of farmers haven't discussed with anyone
- 31% of farmers have identified a successor. Most farmers (58%) identify sons (avg. age = 32) as the main successor
- Most farmers miss the way of life most after retirement
- Succession plan: share the farm equally among heirs, or keep it in the family no matter what, or let farming heir from buy from non-farming heirs











# 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?





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





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

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

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





Featured Article

The Case for Healthy U.S.-China Agricultural Trade Relations Despite Deglobalization Pressures<sup>†</sup>

Wendong Zhang 🔀

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

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

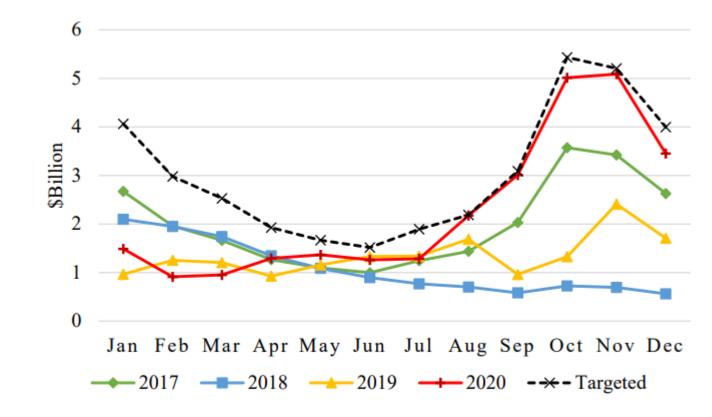


Figure 1. Monthly US agricultural and related products exports to China, 2017–2020.





### (CARD) Agricultural Policy Review IOWA STATE UNIVERSITY

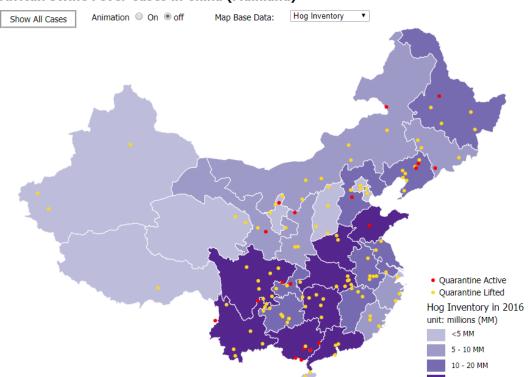
#### China makes progress rebuilding hog herd

**Bv Sean Pratt** 

Published: August 6, 2020 Markets



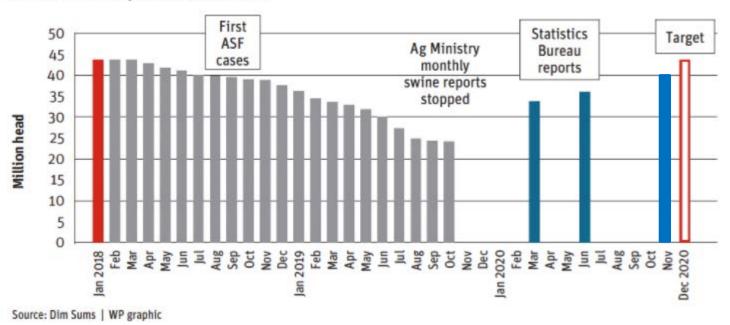
#### African Swine Fever Cases in China (Mainland)



#### **HOG RECOVERY**

China is rapidly rebuilding its sow herd, according to Chinese government statistics. China's Statistics Bureau estimates inventory at 36.3 million at the end of June 2020. The goal is to be at pre-African swine fever levels of 43.9 million head by the end of 2020.

China sow inventory numbers, 2018-2020



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





#### **CARD Policy Briefs**

Center for Agricultural and Rural Development

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February 2021 20-PB 29

### 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

		2017 Jan-Dec			2020 Jan-Dec	
	US	Non-US countries	US share	US	Non-US countries	US share
China's total import val	lue (\$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 Consuel Administration of Customs of China data (CACC 2000)

#### **CARD Policy Briefs**

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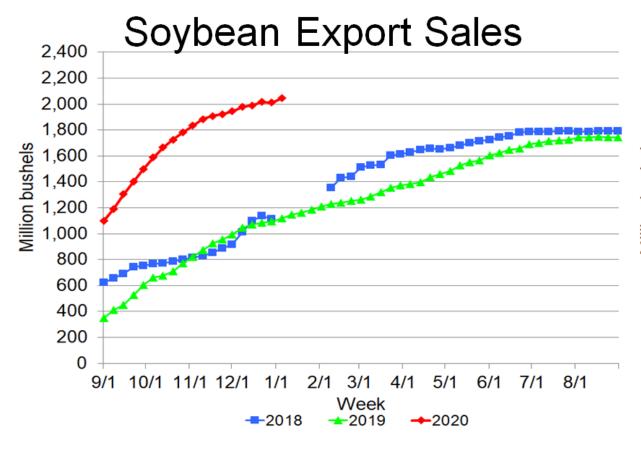
Xi He Dermot Hayes Wendong Zhang

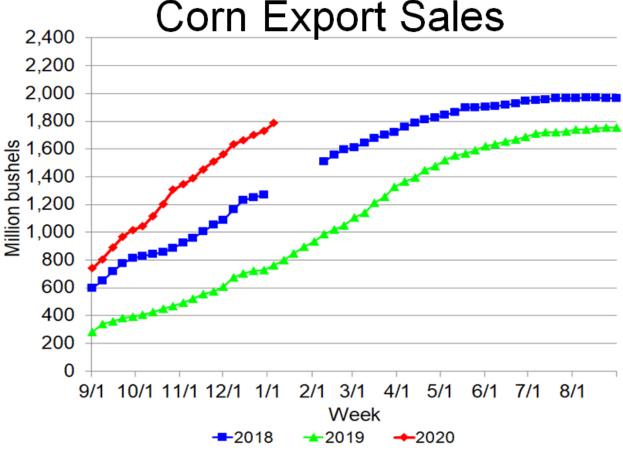
Table 3. China's Predicted Agricultural Imports of Key Commodities from February 15, 2020, to February 14, 2021

		Imports from US	Imports from all sources		
	<u>Value</u>	Quantity (Thousand metric	Value	Quantity (Thousand metric	
	(\$Million)	tons)	(\$Million)	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

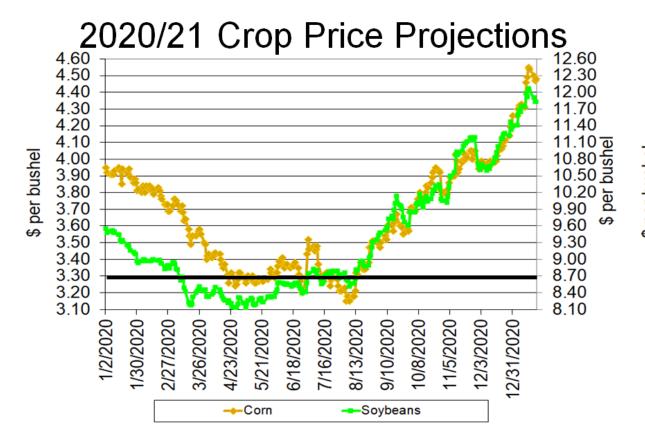
# US crop sales surge largely due to China

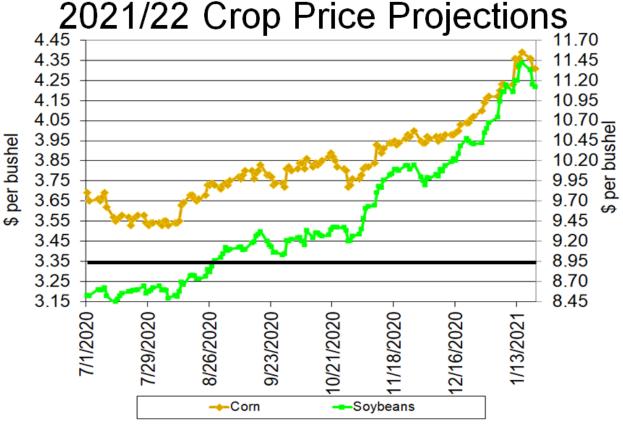






# US ag commodity prices seen unconventional late-season rallies

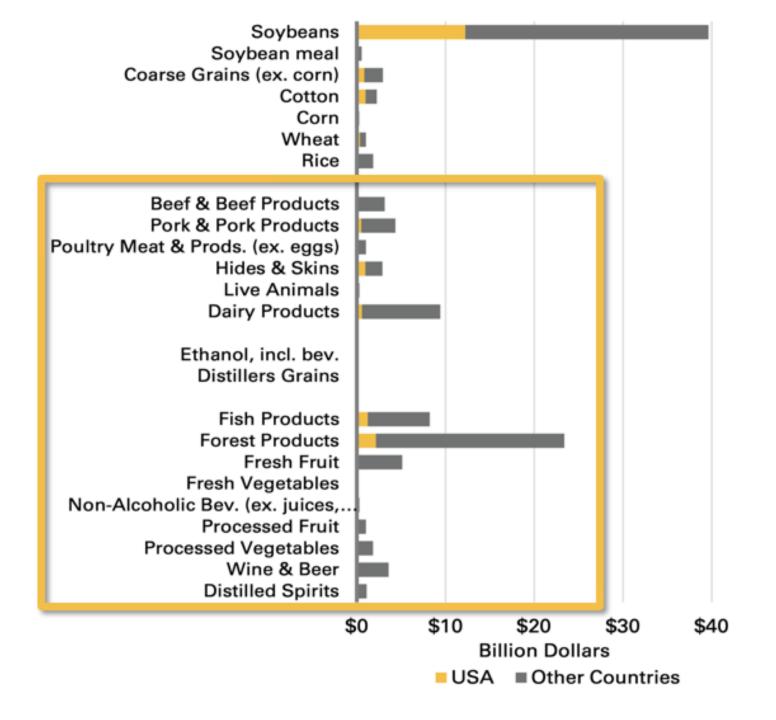






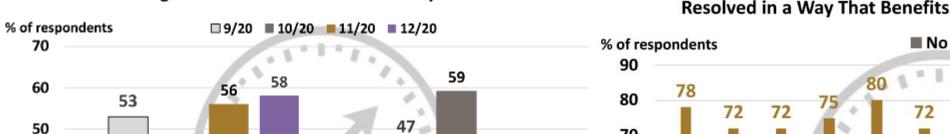
# A possible & more balanced pathway for China's ag import surge?

Key Chinese agricultural imports by commodity and country in 2017



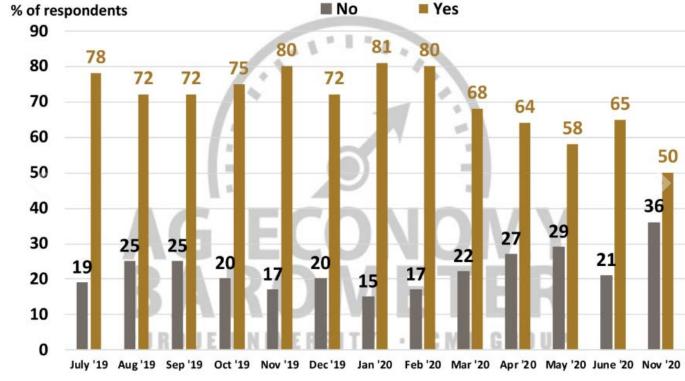
#### What Do Farmers Think About the Trade Deal?

Do you think it is likely or unlikely that China will fulfill the food and agricultural import requirements outlined in the Phase One economic and trade agreement signed with the U.S. back in January 2020?



Likely

Do You Think the Trade Dispute with China Will Ultimately Be Resolved in a Way That Benefits U.S. Agriculture?



Unlikely

41

40

30

20

10





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

US exports in 2020 of all goods covered by the phase one deal as of November 2020



Chad P. Bown (PIIE) December 23, 2020

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



US-China trade dispute ( + Add

+ Add to myFT

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





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

News

from

China

#### 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



#### 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



Fiona Harvey Environment correspondent

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 4<sup>th</sup> generations of Chinese leaders



#### 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., Fulbright & 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)



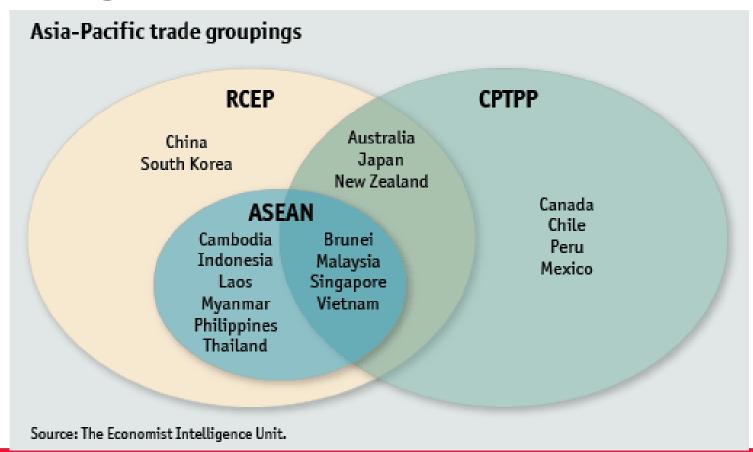
#### With RCEP Complete, China Eyes CPTPP

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



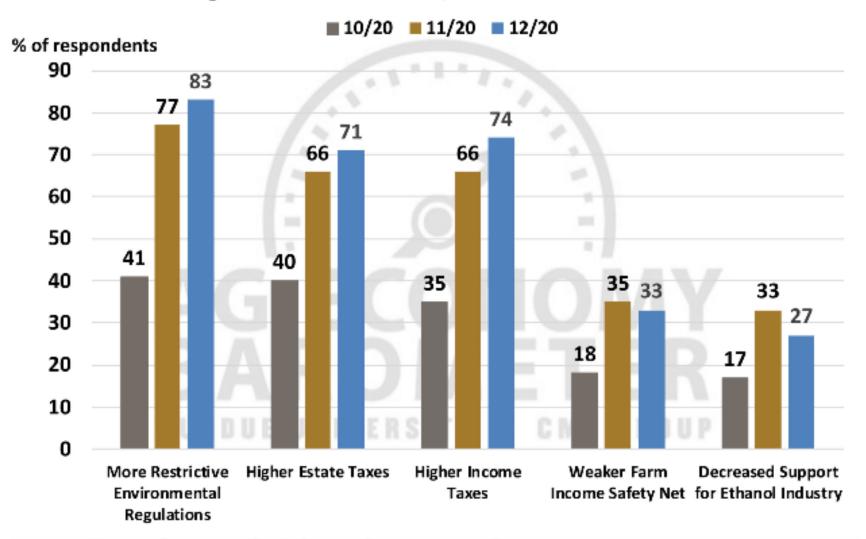
#### **Notable Omissions:**

USA for TPP
India from RCEP





#### Farmer Expectations Regarding Changes in Policies Affecting U.S. Agriculture in Next 5 Years, October-December 2020







Source: Purdue Center for Commercial Agriculture, Producer Survey, December 2020







**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, DE



HARE







#### **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.

U.S.-MEXICO-CANADA TRADE AGREEMENT

**House Ways & Means Committee** 

Democratic Chief Trade Counsel

KATHERINE TAI

- 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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#### **Des Moines Register**

**POLITICS** 

#### President-elect Joe Biden introduces lowa'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

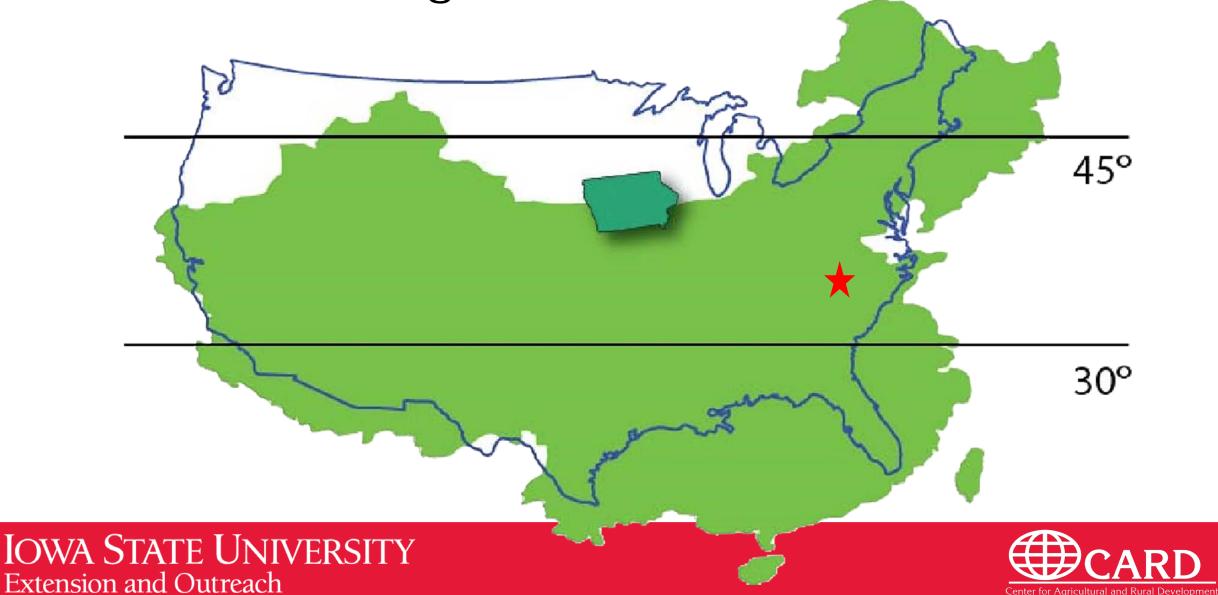
# MEYER TO SUCCEED JOHANSSON AS USDA CHIEF ECONOMIST

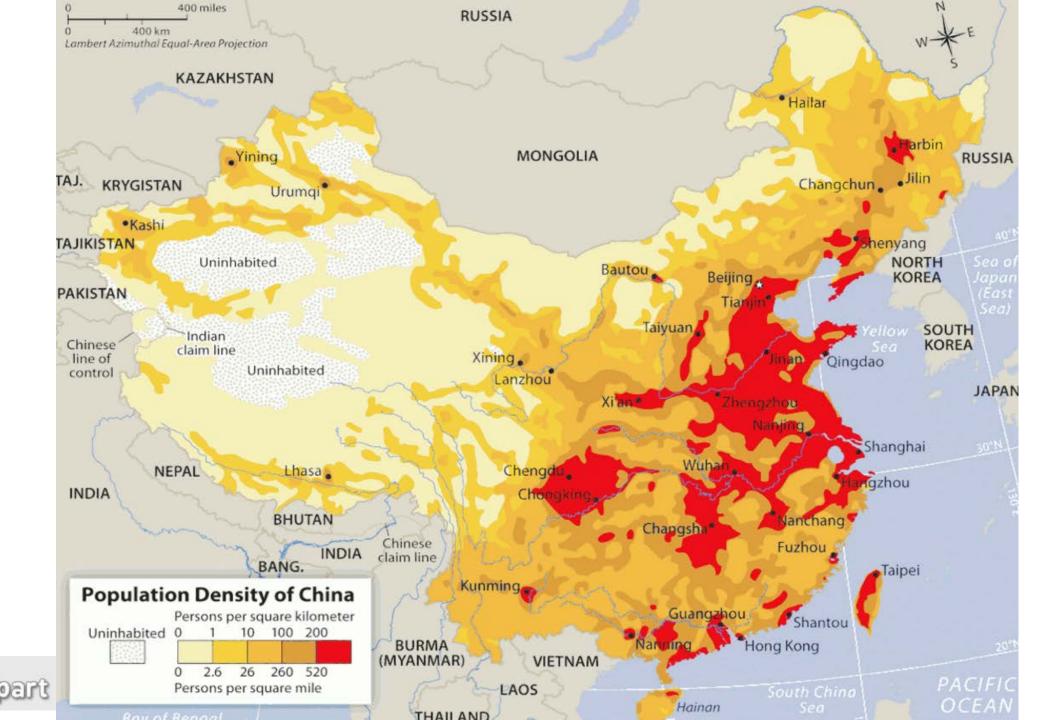
By Chuck Abbott 12/15/2020

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.

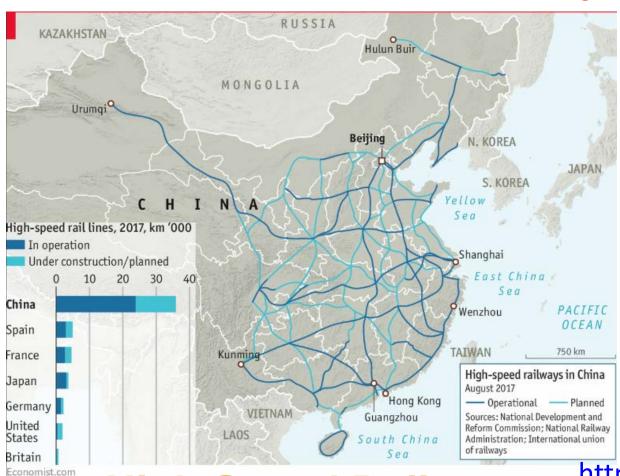


# Commodity Agriculture is Comparative Advantage for U.S., not China





#### 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:

https://youtu.be/ 8ZbhJT6NinM

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**High Speed Rail** 

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



#### 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?





# OECD lifts global economic outlook on vaccine progress, sees China driving recovery



China's economy grows 2.3% in 2020 as recovery published tue, dec 1 2020-5:00 AM EST | UPDATED TUE, dec 1 2020-11:26 AM EST | quickens



By Laura He, CNN Business

Updated 11:17 AM ET, Mon January 18, 2021

China: + 1.8% in 2020; 8% in 2021; 5% in 2022

US: -3.7% in 2020; 3.2% in 2021; 3.5% in 2022

EU: -7.5% in 2020; 3.6% in 2021; 3.3% in 2022

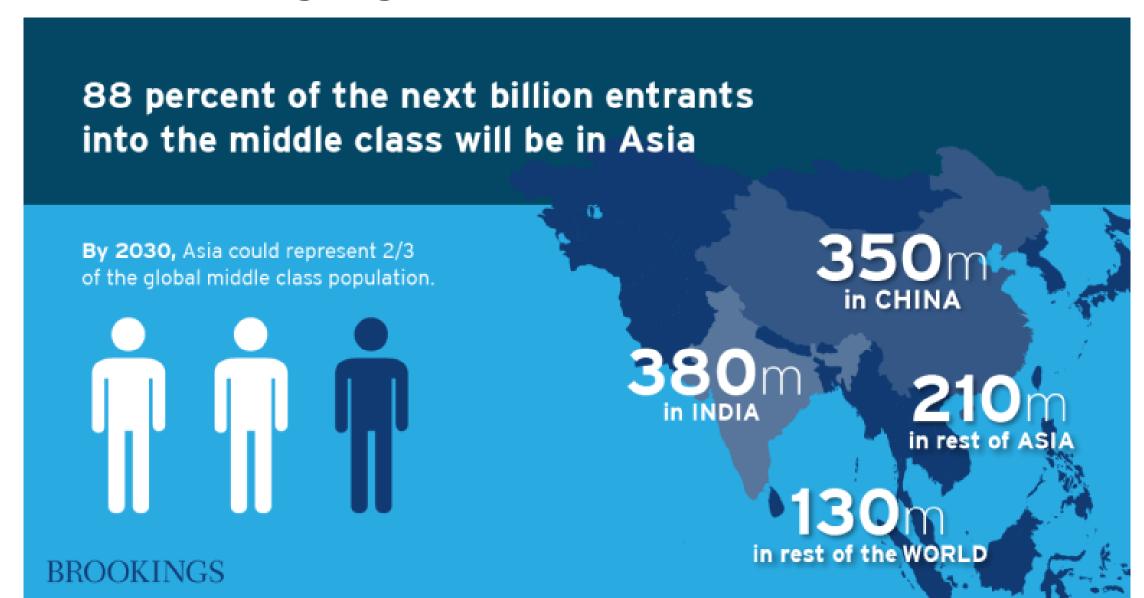
World: -4.2% in 2020; +4.2% in 2021; 3.7% in 2022

2020: Vietnam + 1.6%; India – 10.3%; Brazil: -5.8%

Japan: -5.3%; S. Korea: - 1.9%



# What remains unchanged after COVID-19: Chinese surging middle class



# Changes in my hometown?

Greenhouse – plastic film - Shandong Province





Home / Business / Industries

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



Consumers buy cherries at a supermarket in Guangz Guangdong province. [Photo by Li Zhihao/For Chin.

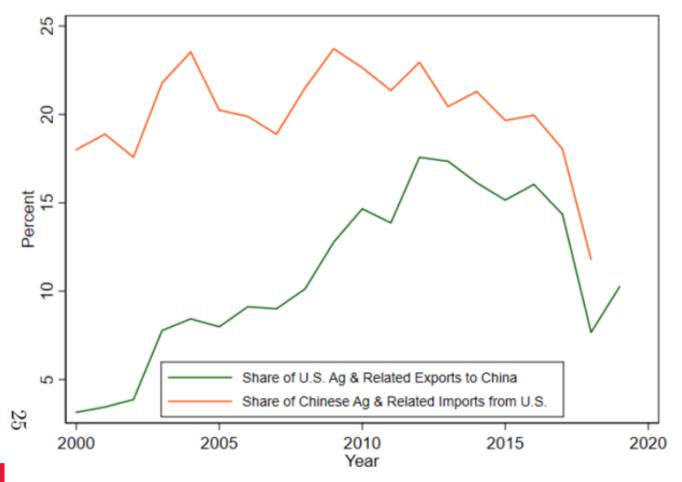
China's First Live Hog Futures to Begin Trading on Jan. 8





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





# What remains unchanged after COVID-19: Chinese continued overseas investment & diversification through BRI





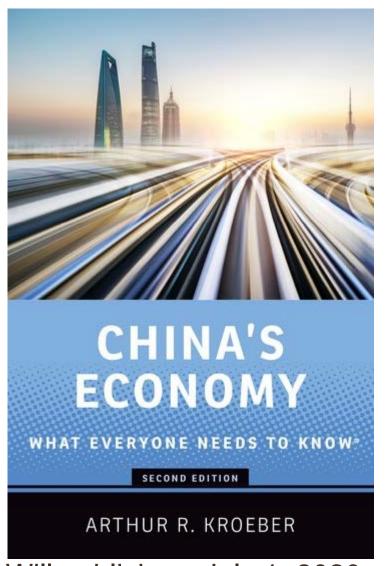
#### Chinese Lesson Time



### 中华民族伟大复兴



#### Learn more about contemporary Chinese economy



NATIONAL BESTSELLER

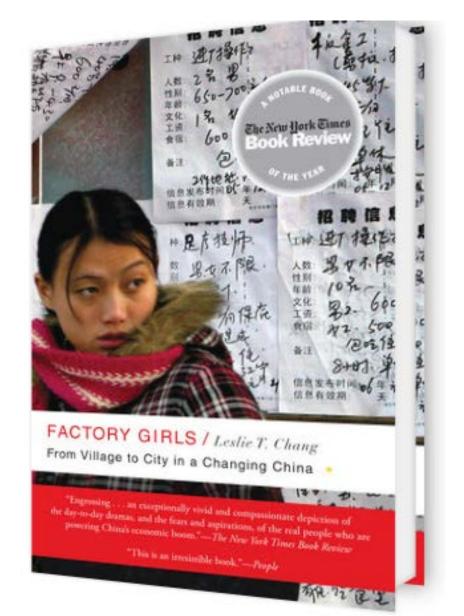
"Thucydides's Trap identifies a cardinal challenge to world order."

-HENRY KISSINGER, from tS sorroury of state

# DESTINED FOR WAR

CAN AMERICA AND CHINA ESCAPE THUCYDIDES'S TRAP?

# GRAHAM ALLISON



Will publish on July 1, 2020

#### Broaden your information sources!



#### www.foodandagpolicy.org



www.scmp.com





A Business Newsletter for Agriculture

Vol. 24, No. 4

www.extension.iastate.edu/agdm

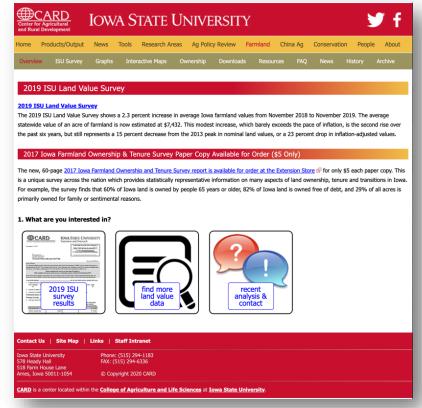
February 2020





### Thank You!





www.card.iastate.edu/farmland

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Home Products/Output News Tools Research Areas Ag Policy Review Farmland China Ag Conservation Home Publications Presentations COVID-19 Trade War Data Resources News China Ag Center · Publications Xi He and Wendong Zhang. 2020. "Implications o Hong Kong's Special Status Revocation for Agricultural Trade between the United States, Hong Kong, and Mainland China." Agricultural Policy 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 reexporting port, plays a large intermediary role in US-China trade, and the revocation of its special status may provoke China into taking retaliatory 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

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