Trade War and Missed Trade Opportunities

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A Quick Introduction: Dr. Minghao Li

- Grown up in NE China
- Ph.D. in Ag Econ in 2017 from Penn State
- Currently a postdoc research associate working with Dr. Dermot Hayes and Dr. Wendong Zhang
- Research and extension interests: Chinese agricultural economy, international ag trade

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



Today I will talk about:

The trade war

African Swine Fever in China

China's E10 ethanol mandate







Trade war review:

US

January 2018, solar panels and washing machines

China

Sorghum

March 2018, steel
 (25%) and aluminum
 (10%)

 128 products, including pork (25%)

Trade war review:

US

June and August,
 25% tariffs on 50 \$B
 Chinese exports

September, 10% tariffs on 200 \$B Chinese exports

China

25% tariff on 50 \$B
 US exports, including pork and soybean

5%-10% tariffs on 60
 \$B Chinese exports



Currently:

 The 10% tariffs on 200 \$B products is scheduled to increase to 25% at the end of Febuary if negotiation fails.





China's strategy:

Proportional and restrained response

Target products that substitutable

 Target products that cause economic and political harm to the US

Minghao Li, Wendong Zhang, and Chad E. Hart. 2018. "What Can We Learn about U.S.-China Trade Disputes from China's Past Trade Retaliations?"



Impacts on the US economy

- Impact on US welfare (think GDP): -0.14%~-0.23%
- Sectors that suffer most: soybeans (-15% in output value), cotton (-13%)

Sectors that benefit most: electronics, steel and iron

Export to China: -43.0% ~ -54.4%



The Iowa economy

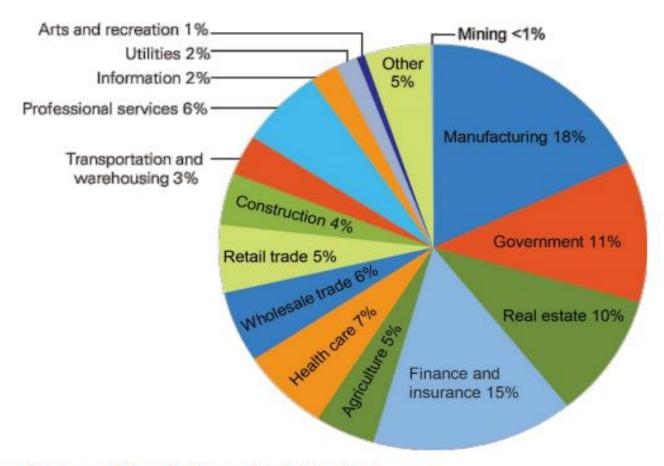


Figure 1. Sectors of Iowa's Gross State Product, 2017

Source: BEA





Impacts on the lowa economy

- Impact on Gross State Product: -1 to -2 \$Billion
- Percentage change: -1%~-2%
- Trade subsidy (Market Facilitation Program) will give Iowa farmers 0.55 \$Billion, no enough!

Minghao Li, Edward J. Balistreri, Wendong Zhang. 2018. "The 2018 Trade War: Data and Nascent General Equilibrium Analysis."

Edward J. Balistreri et. al. 2018. "The Impact of the 2018 Trade Disruptions on the Iowa Economy."

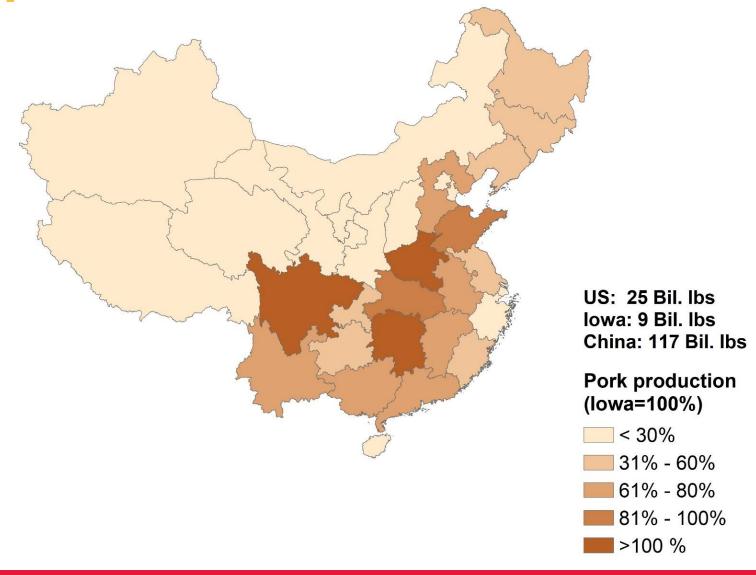




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Pork production in China vs. US and Iowa



What is African Swine Fever?

Hog disease, does not affect humans

Highly contagious, mostly through contacts

Highly lethal, mostly die within 10 days



ASF in China:

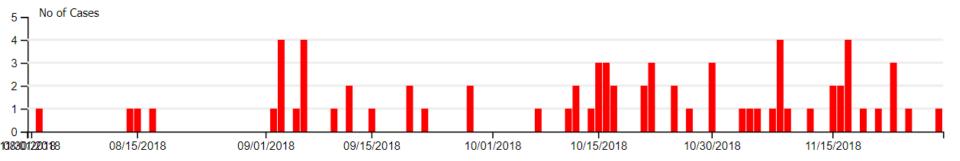
First case in August 2018 in NE China

More than 90 cases by the end of 2018

More than 120 thousand pigs directly affected.

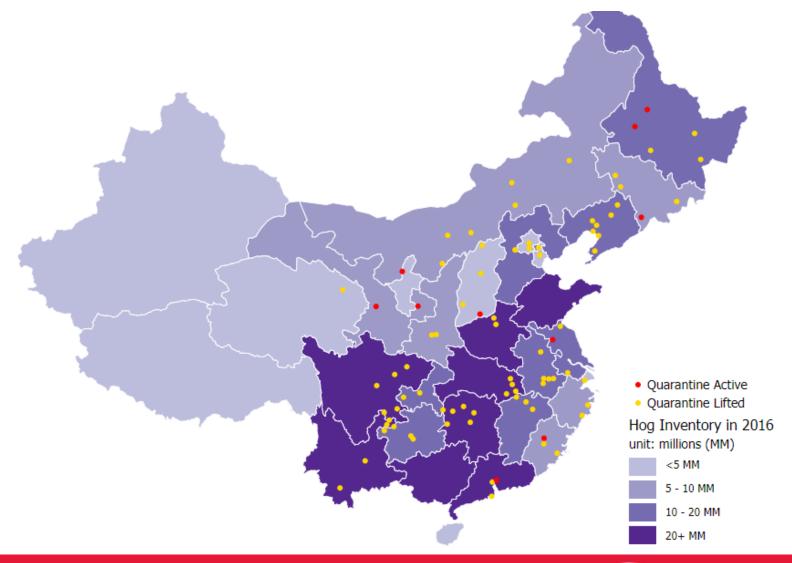


Cases so far:





Cases so far:





Government response:

 Setting up quarantine areas and culling pigs (200,000 pigs?)

Banning feeding hog with food waste

Restricting hog and pork transportation across provinces

Transportation restrictions cause regional hog imbalance and price divergence:





Missed export opportunity:

 If high prices in certain regions continue, there may be a need to import pork.

 However, tariffs on certain hog products have increased by 50% due to trade war.

It is unlikely that China will import from the US.



Missed export opportunity: E10 ethanol mandate



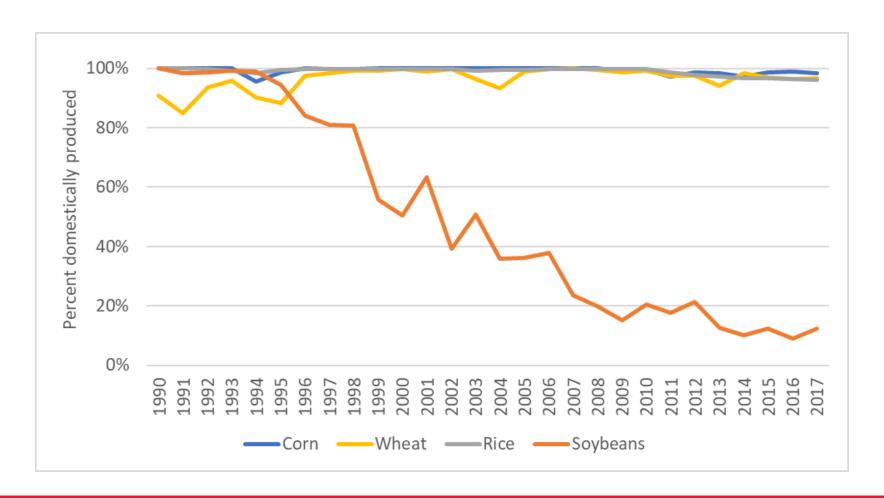
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China's Ethanol Mandate

- In 2017, China announced that it will impose nationwide E10 (gasoline containing 10% ethanol) mandate by 2020.
- That means, all vehicles have to use gas with 10% ethanol, no options!
- In China fuel ethanol is mostly made from corn. The mandate will increase corn demand by 8.3%.

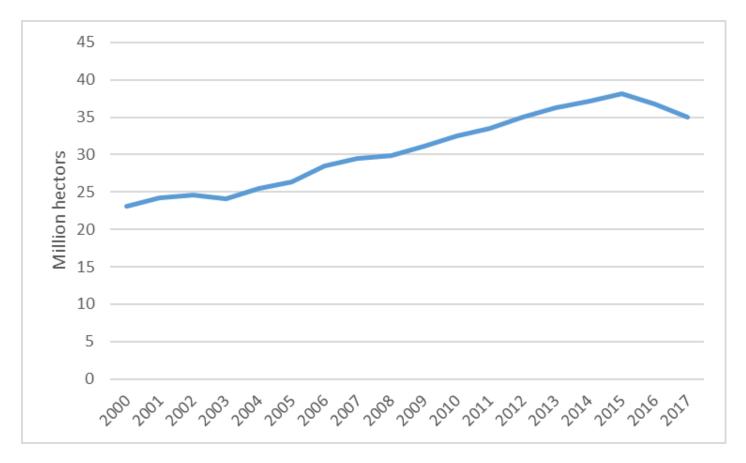
China does not want to import corn (graph below: self-sufficiency rate for crops)



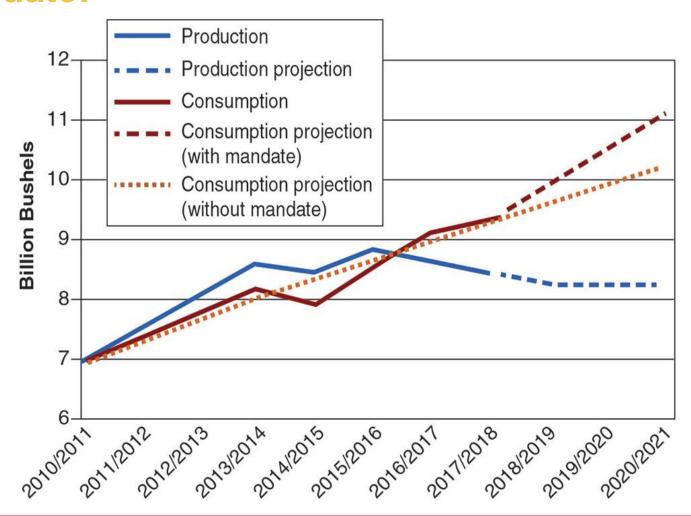




China wants to limit corn production (graph below: corn area planted)

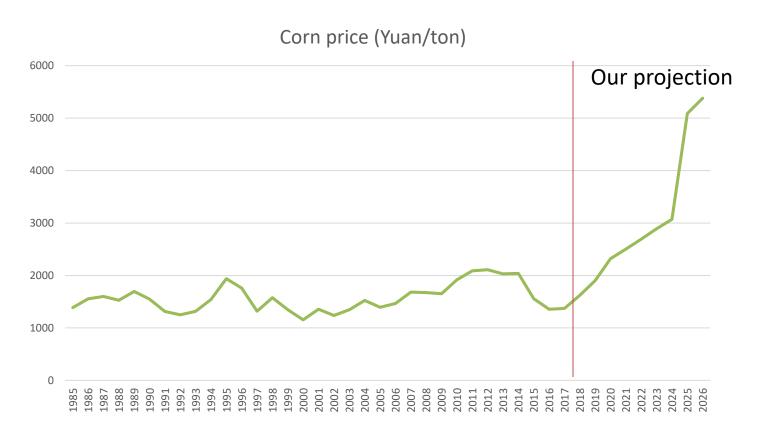


There won't be enough corn to meet the E10 mandate:



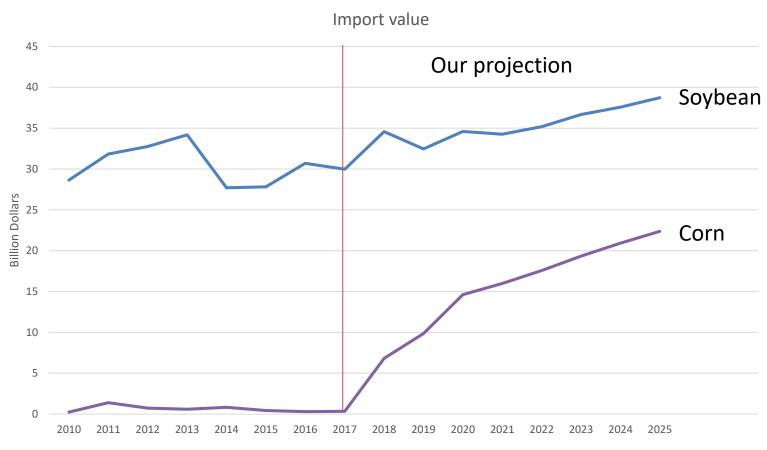


If China continues down this path, corn price will become very high:





If China decides to open up corn trade, the potential trade value will exceed half of the soybean trade value:





Missed export opportunity:

 Our analysis shows that China will not be able to meet the E10 mandate with domestic production.

- Other than importing corn, another option is to directly import ethanol.
- China won't import corn or ethanol if trade dispute continues.



Thank You!

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