Ag Decision Maker

A Business Newsletter for Agriculture

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Seven things to know about China to understand the trade war

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

Wendong Zhang

Assistant Professor and Extension Economist wdzhang@iastate.edu, 515-294-2536

Farmer Mac Webinar May 8th, 2019





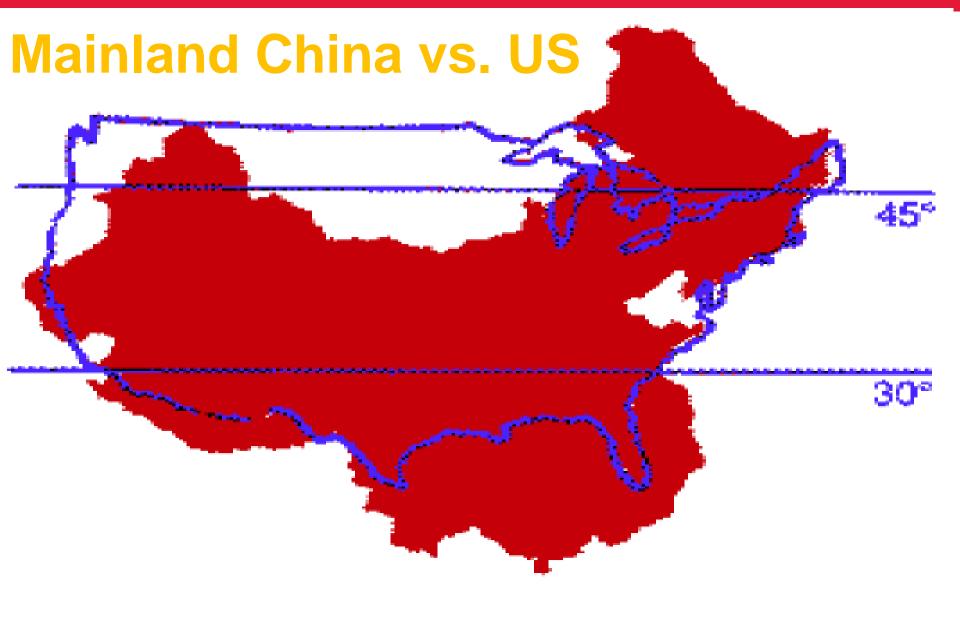
A Quick Introduction: Dr. Wendong Zhang

- 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 www.card.iastate.edu/farmland/ agriculture and the environment

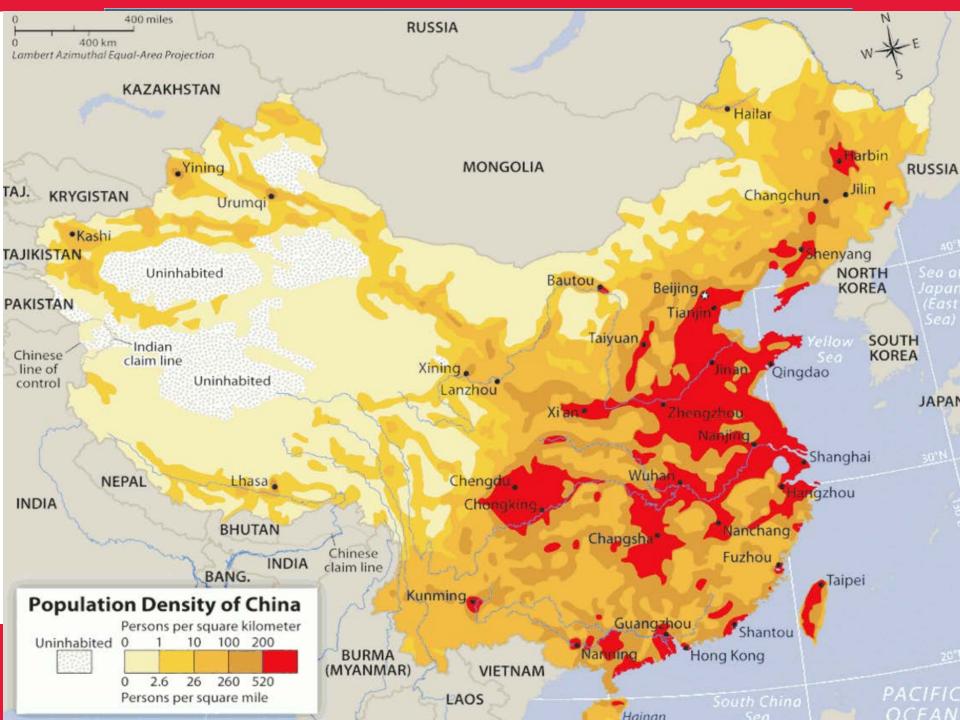
China Ag center www.card.iastate.edu/china











#1: Ag is comparative advantage for US, not for China

Figure 1. Number of farmers in Chinese provinces compared to Iowa US: 3.2 million lowa: 0.13 million China: 270 million Number of Farmers (lowa=1) < 10 IOWA STATE UNIVERSITY 11 - 50 CARD 81 - 100 > 100

US: 120 acres lowa: 200 acres China: 1.4 acres

Cropland Per Farmer (Acres)

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Extension and Outrach

1.5 - 2

2 - 3

3 3

Because crop land per farmer is so small in China, using lowa as the unit here would create too many decimal points. We use acres instead.





Navigating the Chinese agricultural economy through the lens of Iowa

By Wendong Zhang, extension economist, 515-294-2536, wdzhang@iastate. edu; Minghao Li, postdoctoral researcher, Center for Agricultural and Rural Development, Iowa State University



Chinese land is owned by collectives (Contract Right Certificate)



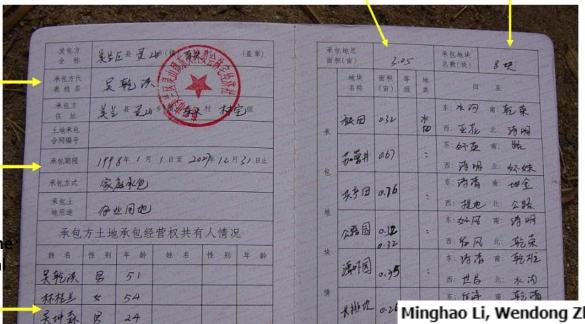
Family Rep.

30-year term

With at least on 30-year renewa

All family members





China's New Rural Land Transfer Reform

2016:

77 million acres (35% of cropland) transferred; 2007: 5%

Among them: 30% to coops or corps; 80% nongrain production

州心 où Minghao Li, Wendong Zhang, and Dermot Hayes.

沙市场 0.26 2018. "Can China's Rural Land Policy Reforms Solve its Farmland Dilemma?" Agricultural Policy

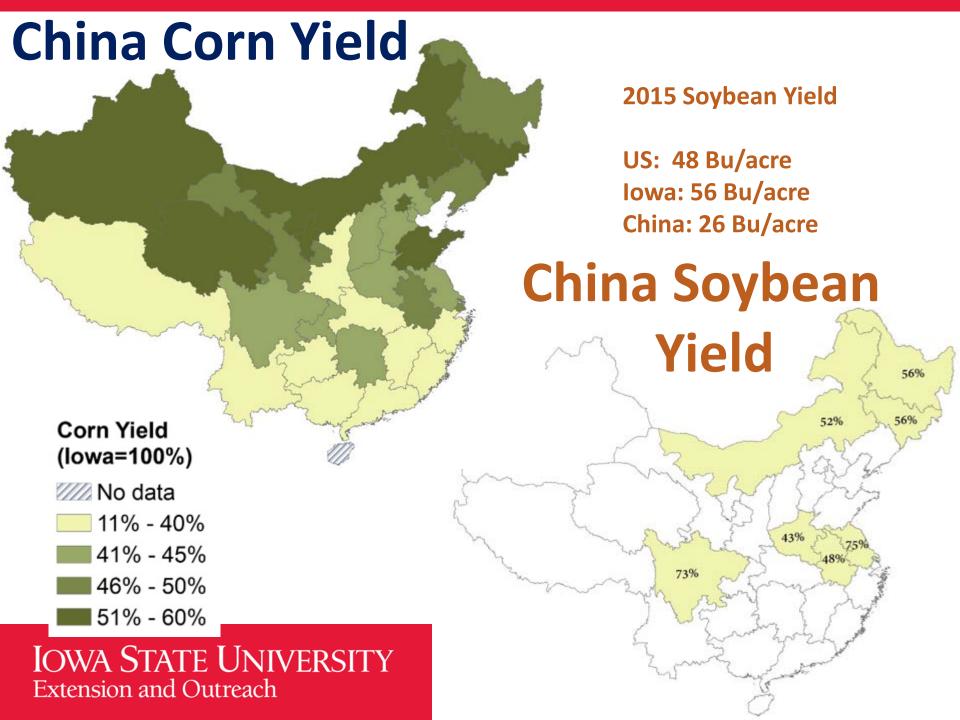
> Review. Center for Agricultural and Rural Development, Iowa State University.

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吴亚王 女

13





CRUNCH TIME FOR U.S.-CHINA TRADE TALKS: Mnuchin and U.S. Trade Representative Robert Lighthizer resume trade negotiations today in Beijing with a Chinese team led by Vice Premier Liu He, as both sides look to finalize a deal in the coming weeks.

"We hope within the next two rounds, in China and in D.C., to be at the point where we can either recommend to the president we have a deal or make a recommendation that we don't," Mnuchin said in an interview Monday with Fox Business.

Liu and Chinese negotiators are scheduled to be in Washington for the final round of talks beginning on May 8.

seen how a deal will address President Donald Trump's tariffs the other' within two weeks worth of Chinese goods and Beijing's retaliatory duties on \$11(PUBLISHED TUE, APR 30 2019 - 11:24 AM EDT UPDATED 4 HOURS AGO U.S. goods.

Mnuchin noted that "there's still some important issues, so we work to do." More here.

Crunch time for U.S.-China trade talks

By SABRINA RODRIGUEZ (srodriguez@politico.com; @SabRod123) 04/30/2019 10:00 AM EDT

White House's Mulvaney says China Are we there yet? U.S. officials have said both sides have mareas, including agreement on a strong enforcement mechanis





Thomas Franck @TOMWFRANCK







KEY POINTS

- White House chief of staff Mick Mulvaney says the U.S. should know in the next two weeks whether it will reach a trade deal with China.
- The Trump administration is trying to strike an agreement to end a potentially damaging trade conflict.

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Bloomberg

Sub

Markets

Stocks Pare Losses After Shock From Trump's Tweets: Markets Wrap

By Sarah Ponczek
May 5, 2019, 5:18 PM CDT
Updated on May 6, 2019, 12:34 PM CDT

Donald J. Trump @ @realDonaldTrump · May 5, 2019 For 10 months, China has been paying Tariffs to the USA of 25% on 50 Billion Dollars of High Tech, and 10% on 200 Billion Dollars of other goods. These payments are partially responsible for our great economic results. The 10% will go up to 25% on Friday. 325 Billions Dollars... Donald J. Trump 📀 @realDonaldTrumpof additional goods sent to us by China remain untaxed, but will be shortly, at a rate of 25%. The Tariffs paid to the USA have had little impact on product cost, mostly borne by China. The Trade Deal with China continues, but too slowly, as they attempt to renegotiate. No! ○ 69.9K 11:08 AM - May 5, 2019 24.8K people are talking about this

The Dow Jones Industrial Average DJIA, -0.74% slid 226 points, or 0.9%, to 26,278, with the benchmark hitting an intraday low at 26,033.95. The S&P 500 index SPX, -0.81% declined 28 points, or 1%, to 2,917, while the Nasdaq

China stocks drop 5.5%



The 2018 Trade War: Data and Nascent General Equilibrium Analysis

#2: Why China decided to talk?

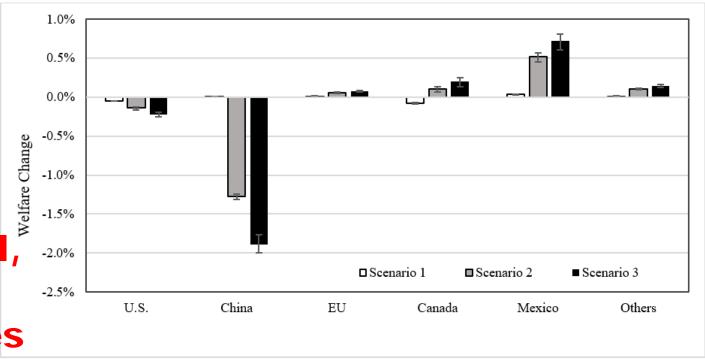
China
suffers
greater
economic
Loss overall,
but also for
US ag states

like Iowa

Minghao Li, Edward J. Balistreri, Wendong Zhang

December 2018 [18-WP 587]

Figure 1. Welfare changes in selected countries.



Scenario 2: Tariff increases in scenario 1 and additional tariff increases between the United States and China, including the \$50 billion round and the \$200 billion/\$60 billion round of tariff increases. The scenario reflects the current tariffs (as in October 2018).

Scenario 3: Tariff increases in scenario 1 and 2, and additional tariff increases that are scheduled to happen at the end of 2018, i.e., the U.S. tariffs on \$200 billion Chinese products will increase by another 15%, and China's retaliatory tariffs will increase by 0~15%.

CARD Policy Briefs

The Impact of the 2018 Trade Disruptions on the Iowa Economy

- Overall losses in Iowa's Gross State Product are calculated to be \$1 to \$2 billion (off of a Gross State Product of \$190 billion).
- Overall losses to Iowa's Soybean industry of \$159 to \$891 million, with an average revenue loss across all models of \$545 million (Iowa soybeans are a \$5.2 billion industry).
- Overall losses to Iowa's Corn industry of \$90 to \$579 million, with an average revenue loss across all models of \$333 million (Iowa corn is an \$8.5 billion industry).
- Overall losses to Iowa's Pork/Hog industry of \$558 to \$955 million, with an average revenue loss across all models of \$776 million (the Iowa pork/hog industry is a \$7.1 billion industry).
- A 2% drop in Ethanol prices resulting in approximately \$105 million in lost revenues to Iowa ethanol producers.
- Revenue losses in these industries translate into additional lost labor income across
 the state. Labor income declines from the impacts to the corn, soybean, and hog
 industries range from \$366 to \$484 million without federal offsets and \$245 to \$364
 million with federal offsets.
- Iowa tax revenue losses (personal income and sales taxes) range from \$111 to \$146 million. Federal offsets would reduce tax losses to \$75 to \$110 million.

CARD researchers win three AAEA awards

Researchers from the Center for Agricultural and Rural Development at Iowa State University will be presented with three awards from the Agricultural and Applied Economics Association.

Edward Balistreri, Chad Hart, Dermot Hayes, Minghao Li, Lee Schulz, Wendong Zhang, and John Crespi, along with David Swenson of the Department of Economics at Iowa State University, will be presented with the prestigious Bruce Gardner Memorial Prize for Applied Policy Analysis Award. The AAEA presents the Bruce Gardner prize as recognition for "outstanding impact on agricultural and related policy."

Balistreri et al. are receiving recognition for their work on the CARD Policy Brief

"The Impact of the 2018 Trade Disruptions on the Iowa Economy," which
examines the effects of recent trade disruptions on Iowa's economy and finds
overall losses in Iowa's Gross State Product from \$1 to \$2 billion.



#3: Trade disruptions give China strategic incentives to further diversify away from U.S., potentially benefitting our competitors

Commodity (2016 value of China ag imports)	USA	Brazil	Europe	Australia Argentina or Urugua			
Soybean (\$34.4 Bil.) (China increased production by 9% in 2018)	38%	47%			A-10%		
Pork (\$2.32 Bil.)	13%		50% Canada: 11%				
Ethanol (\$0.38 Bil.)	70%	11%	Pakistan 15%				
Beef (\$2.42 Bil.)	0%	22%		28%	U-21%		
Poultry (\$1.11 Bil.)		79%			A-9%		
Corn (\$0.87 Bil.)	10%	Ukraine: 79%					

China's Ag Import Sources

China can produces 97% of its pork, but only 15% of its soybean demand domestically China provided about US\$200/acre subsidy to increase soy production (up 9% 2018)



A publication of the Agricultural & Applied Economics Association





2nd Quarter 2018 • 33(2)

What Have We Learned from China's Past Trade Retaliation Strategies?

Minghao Li, Wendong Zhang, and Chad Hart

JEL Classifications: Q17, F10

Keywords: Agricultural Commodities, China, Tariff, Trade Retaliation

Proportional, Restrained Response

Currently, China has a huge overall trade surplus with the United States, and thus na status quo and avoid dispute escalations. As the two cases above demonstrate, Chin commodities with trade flows comparable to U.S. targets in order to send a clear me

Target Products That Are Substitutable

In these two cases, China chose commodities that are easily substitutable across pr domestic production. Half of the U.S. broiler products were chicken feet, a replaced commonly used for feed and can be replaced by corn or other coarse grains. In terr

Inflict Economic and Political Costs

From the perspective of China's government, the ultimate goal of retaliatory tariffs politically influential interest groups in the United States, turning them into lobbyis For retaliation measures to be effective, China's market as an export destination for be important for U.S. producers, as is the case for broiler products and sorghum. F government has long recognized the political significance of the U.S. agricultural in why it targets U.S. agricultural exports in trade spats.

UPDATE 1-CHINA SAYS
NEW ANIMAL FEED
STANDARDS WILL CUT
CHUNK OUT OF APPETITE
FOR SOY

10/20/2010

China's Feed Industry Association on Friday approved new standards for feed for pigs and chickens, lowering the protein levels in pig feed by 1.5 percentage points and those for chickens by one percentage point, the agriculture ministry said in a statement that day. It did not say when the new standards would take effect.

The ministry also said in the statement that China's overall yearly consumption of soymeal would fall by 11 million tonnes. The country used 71 million tonnes of soymeal to make animal feed in the 2017-18 crop year.

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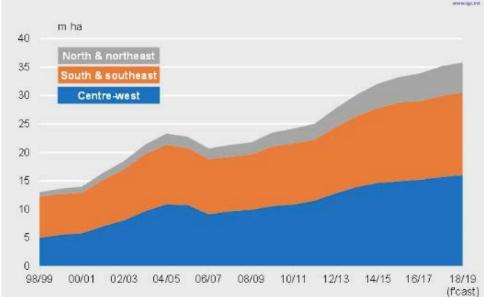




Bolsonaro wins Brazilian presidency

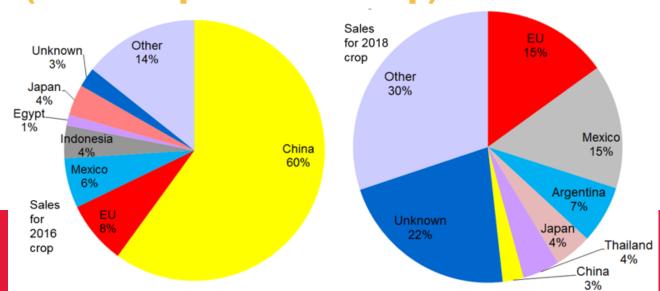
The former military officer is the latest in a global wave of far-right nationalists to surge at the ballot box.

washingtonpost.com



Soyabeans: Brazilian area by region*

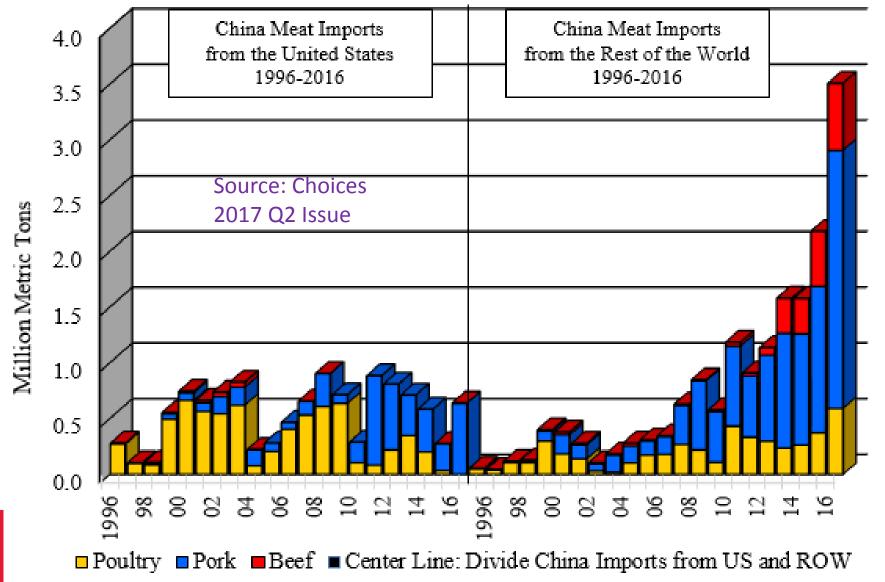
Soybean Export Market Share (2016 crop vs. 2018 crop)

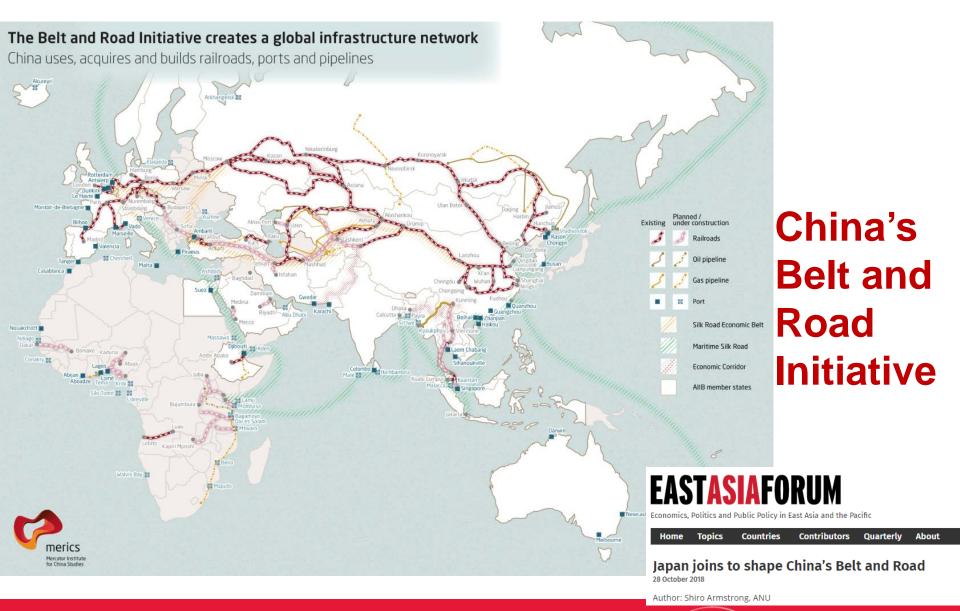


Soy Stats Worrying



US Loses Market Share as China Increases Meat Imports from the World





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Structural impacts of trade war

Chinese Ag Policy Presents Future Demand that could be filled by our competitors

Minghao Li, Wendong Zhang, Dermot Hayes, Riley Arthur, Yantao Yang, and Xiudong Wang. 2017. "China's New Nationwide E10 Ethanol Mandate and Its Global Implications." Agricultural Policy Review. Center for Agricultural and Rural Development, Iowa State University.

China cannot produce enough ethanol domestically to fulfill the 2020 E10 ethanol mandate

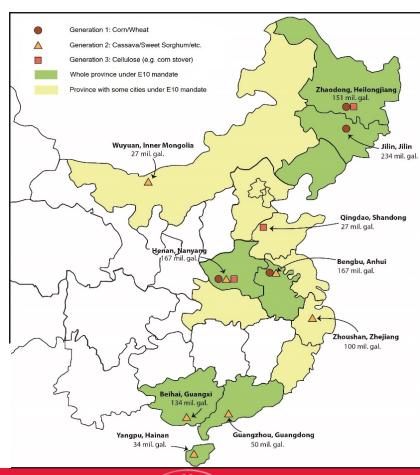
4th largest producer – 1 Bil gal.

- After US, Brazil and EU
- Corn ethanol 64%
- Also uses cassava, sorghum, corn stover
- Imported 225 mil. gal, mainly from U.S.
- Tariff rose from 5% to 30%

China consumes 40 bil. gal gasoline; 1 bil. gal ethanol in #20% MENT SEPTEMBER 12, 2017 / 8:26 PM / 2 MONTHS AGO

China sets 2020 target for nationwide ethanol use to cut corn stocks

China's Ethanol Trial



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Agricultural Policy Review

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All the Ag Policy that's fit to print!

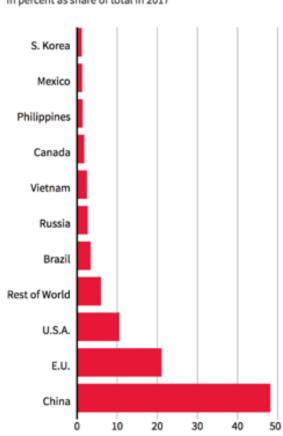
Ames, Iowa • Fall 2018

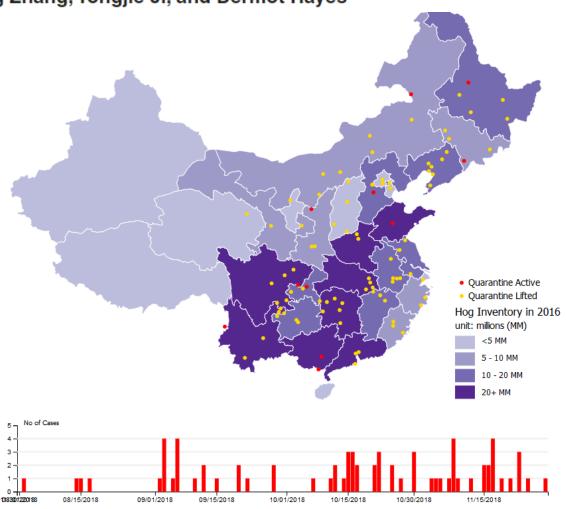
World's Largest Pork Producer in Crisis: China's African Swine Fever Outbreak

by Yongtong Shao, Minghao Li, Wendong Zhang, Yongjie Ji, and Dermot Hayes

TOP PORK PRODUCERS BY SHARE

In percent as share of total in 2017





African Swine Fever in China: An Update

Minghao Li, Tao Xiong, Yongjie Ji, Dermot Hayes, and Wendong Zhang

minghao@iastate.edu; taoxiong@iastate.edu; yongjiej@iastate.edu; dhayes@iastate.edu; wdzhang@iastate.edu

Lean Hogs

Latest Price & Chart for Lean Hogs

End of day Commodity Futures Price Quotes for Lean Hogs

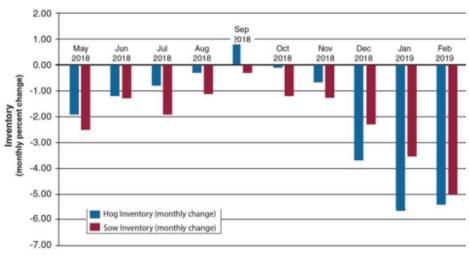


Figure 1. Monthly changes in China's hog inventory Source: Ministry of Agriculture of China



#4: Arguably strategic misjudgments early on by both sides, exposing lack of mutual understandings and mistrust





#5: China is a Country of Rapid Change





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Center for Agricultural and Rural Development

GDP per capita (PPP)

\$37,283

\$1,846

U.S. GDP per capita was 20.2 times that of China

2016 GDP per capita (PPP)

\$53,417

United States

\$14,275 China

U.S. GDP per capita was 3.7 times that of China



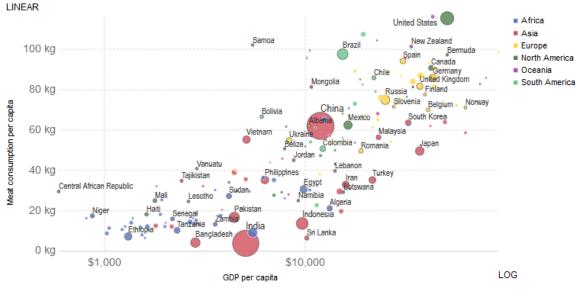
Bloomberg

Chinese People Are Getting Richer, and will need more protein and better environment

Meat consumption vs. GDP per capita, 2013

Average meat consumption per capita, measured in kilograms per year versus gross domestic product (GDP) per capita measured in 2011 international-\$. International-\$ corrects for price differences across countries. Figures do not include fish or seafood.



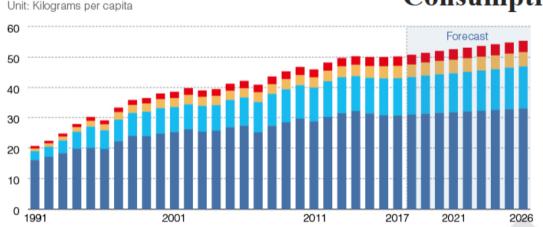


Source: UN FAO; World Bank, World Development Indicators

A Meatier Middle Kingdom



Charts of the Day: China's Growing Meat Consumption





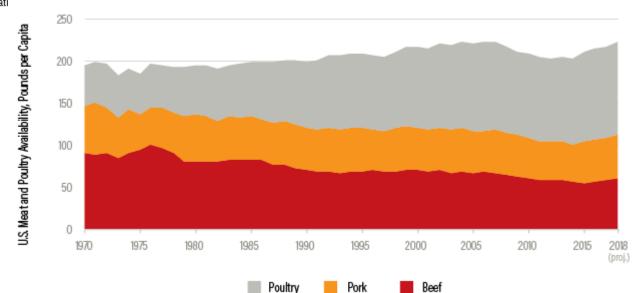
Source: **贝斯**雙据

Original Sources: Organization for Economic Co-operation and Development, Food and Agriculture Organization of the United Nati

U.S. Meat Consumption Has Shifted from Beef toward Chicken



2018 Will See High Meat Consumption in the U.S., but the American Diet is Shifting





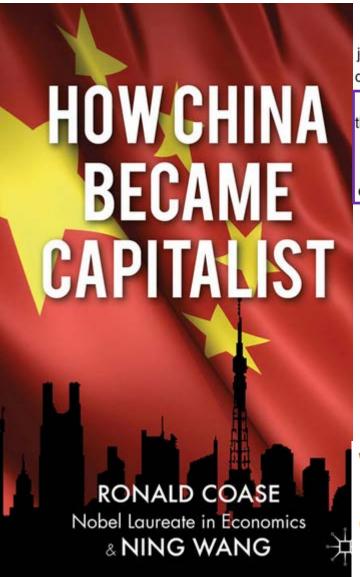
My hometown: Shenxian, Shandong Province

Greenhouse – plastic film - Shandong Province



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#6: Chinese economy and U.S.-**China Relations at Inflection Points**



Description this book

How China Became Capitalist details the extraordinary, and often unanticipated, journey that China has taken over the past thirty five years in transforming itself from a closed agrarian socialist economy to an indomitable economic force in the international

arena. The authors revitalise the debate around the rise of the Chinese economy through the use of primary sources, persuasively arguing that the reforms implemented by the Chinese leaders did not represent a concerted attempt to create a capitalist economy, and that it was marginal revolutions that introduced the market and entrepreneurship back to China. Lessons from the West were guided by the traditional

Chinese principle of seeking truth from facts. By turning to capitalism, China reembraced her own cultural roots. How China Became Capitalist challenges received wisdom about the future of the Chinese economy, warning that while China has enormous potential for further growth, the future is clouded by the government s monopoly of ideas and power. Coase and Wang argue that the development of a

WORLD NEWS

OCTOBER 17, 2017 / 9:29 PM / A YEAR AGO

ntegral in

Xi says China will let the market play decisive role in resource allocation

WORLD NEWS NOVEMBER 12, 2013 / 3:47 AM / 5 YEARS AGO



China vows 'decisive' role for markets, results by 2020

U.S.-China Relations at Critical Inflection Point

NATIONAL BESTSELLER

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

-HENRY KISSINGER, factor US scentary of state



CAN AMERICA AND CHINA ESCAPE THUCYDIDES'S TRAP?

GRAHAM ALLISON

Lesson 4: Domestic performance is decisive.

Lesson 5: Hope is not a strategy.

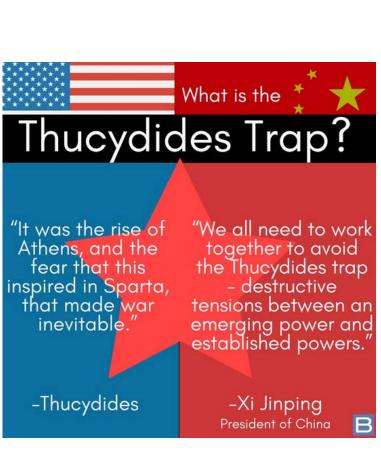


t was the rise of Athens, and the fear that this inspired in Sparta, that made war inevitable." —Thucydides



Is a War between China and America Simply Unstoppable?

uilding his analysis on Thucydides' study of the Peloponnesian War, Graham Allison and his colleagues have studied the classic international relations problem of military conflict between a rising power and an established dominant power. They identified 16 such situations over the past 500 years, and found that 12 of them ended in war — painting a gloomy picture of the future of US-China relations.



	Period		Ruling Power	Rising Power		Result
1	First half of 16th century	***	France	Hapsburgs		War
2	16th–17th centuries		Hapsburgs	Ottoman Empire	(•	War
3	17th century		Hapsburgs	Sweden	==	War
4	17th century		Dutch Republic	England	+	War
5	Late 17th-early 18th centuries		France	Great Britain	*	War
6	Late 18th-early 19th centuries		United Kingdom	France		War
7	Mid-19th century		United Kingdom, France	Russia		War
8	19th century		France	Germany		War
9	Late 19th-early 20th centuries	-401	Russia, China	Japan	•	War
10	Early 20th century		United Kingdom	United States		No war
11	Early 20th century	-	Russia, U.K., France	Germany		War
12	Mid-20th century	SIN	Soviet Union, U.K. France	Germany	8	War
13	Mid-20th century		United States	Japan	•	War
14	1970s-1980s	À	Soviet Union	Japan	•	No war
15	1940s-1980s		United States	Soviet Union	Â	No war
16	1990s-present		United Kingdom, France	Germany		No war



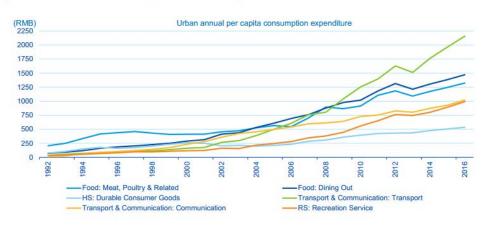


#7: Chinese consumers, producers, and gov't increasingly like U.S.



CHINA CONSUMPTION TRENDS | 2017

Urban Chinese prefer to travel, stay connected, buy protein rich food, durable goods & recreation



Corruption, Pollution, Inequality Are Top Concerns in China

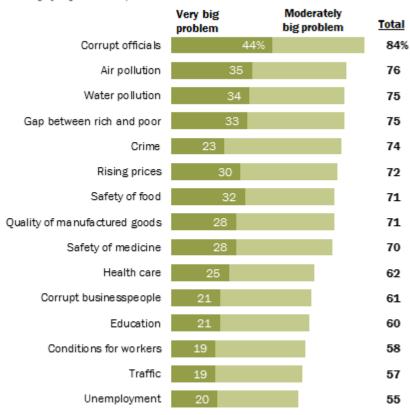
Many Worry about Threats to Traditions and Culture

Pew Research Center

SEPTEMBER 24, 2015

Corrupt Officials, Pollution Are Top Concerns

How big of a problem is/are ...



Source: Spring 2015 Global Attitudes survey. Q60a, bCHI, d-f, h-q.

PEW RESEARCH CENTER





2018: 1 Billion Users

2013: 195 Mil. Users

What's Wechat?

WeChat is a smartphone application that consists of...







A staff member jumps for a photo to celebrate after Alibaba's "Double 11" shopping festival, also known as Singles' Day, set a new record of 213.5 billion yuan (\$30.7 billion) in Shanghai on Monday. Online shoppers in China on Sunday shattered last year's record of \$24 billion in sales during the country's annual buying frenzy. This year's extravaganza was the 10th one to be held. | AP

BUSINESS

China's Alibaba nets record \$30 billion in Singles' Day sales extravaganza, but growth rate plunges

REUTERS



NOV 12, 2018









Seven things to know about China to understand the trade war

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

- 1. Ag is not China's comparative advantage
- 2. China suffers more economically, but retaliate on ag states like lowa
- 3. Trade war makes China further diversify away from US
- 4. Trade war exposes early strategic misjudgments and growing mistrust
- 5. China is a country of rapid change
- 6. Chinese economy and relations with US at inflection points
- 7. Chinese producers and consumers increasingly think and act like Americans

https://www.extension.iastate.edu/agdm/articles/zhang/ZhaFeb19.html

Thank You!

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www.card.iastate.edu/china

www.card.iastate.edu/farmland

