Update on Iowa Farmland Market & U.S.-China Trade War

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Farmland Owner Workshop Altoona, Iowa, February 15, 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



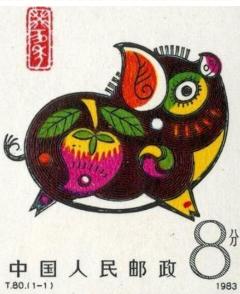
Chinese New Year 2019









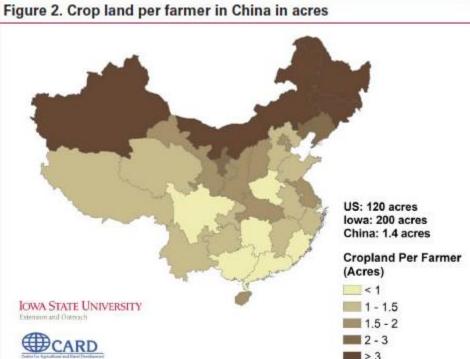


Pigs have a beautiful personality and are blessed with good fortune in life.

Recent years of the Pig are: 1935, 1947, 1959, 1971, 1983, 1995, 2007, 2019

#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 81 - 100 **>** 100



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)

Total land size

Number of parcels

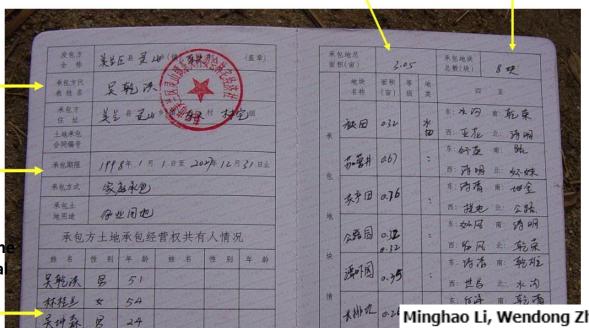
Family Rep.

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 624 Minghao Li, Wendong Zhang, and Dermot Hayes.

क्षान्त्र 036 2018. "Can China's Rural Land Policy Reforms Solve its Farmland Dilemma?" Agricultural Policy

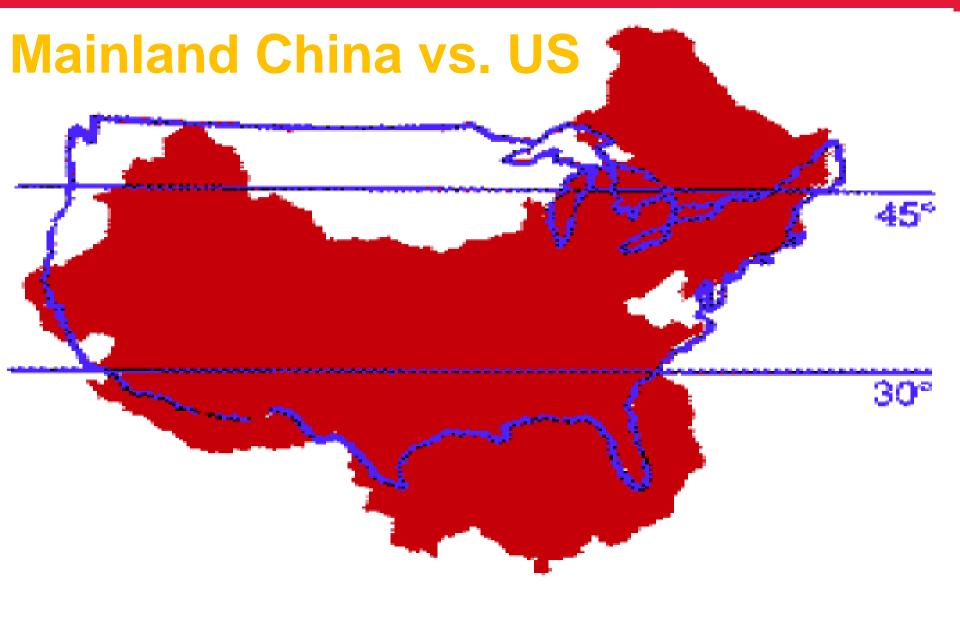
> Review. Center for Agricultural and Rural Development, Iowa State University.

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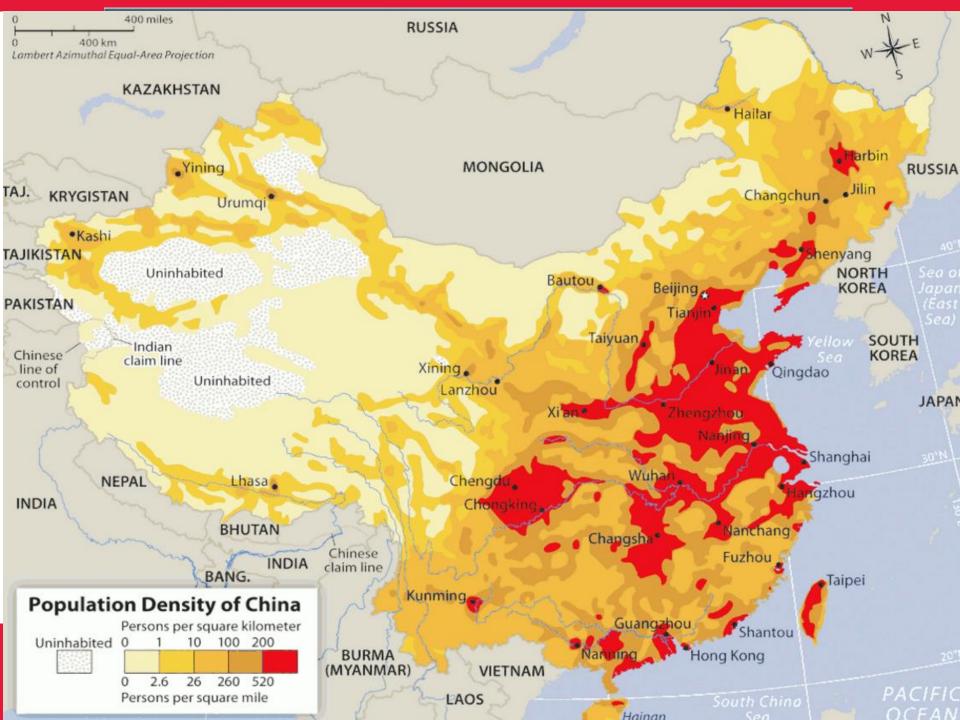
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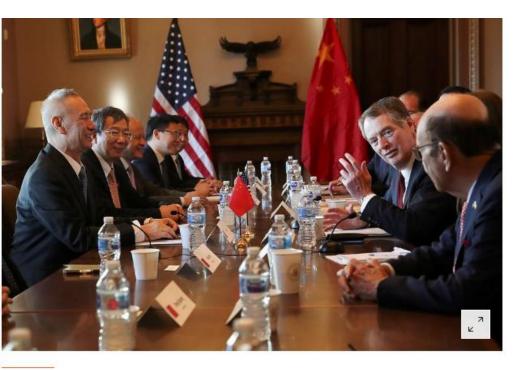








U.S., China launch high-level trade talks amid deep differences



U.S. Trade Representative Robert Lighthizer (2ndR) speaks across from China's Vice Premier Lie He (L) during the opening of US-China Trade Talks in the Eisenhower Executive Office Building at the White House in

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Xi Jinping and Donald Trump 'may meet in Da Nang, Vietnam' at the end of February South China Morning Post

- Source familiar with discussions says the two sides are considering a meeting in the coastal city on February 27 and 28
- The presidents are expected to continue pushing to resolve the trade dispute between the two nations

A breakthrough deal was unlikely this week as both sides may wait to reveal their best offers, said Erin Ennis, senior vice president of the U.S.-China Business Council.

"I don't think there's going to be any big outcome," Ennis said of the talks. "Hopefully they make some good progress that will set them up to be able to get to completion at the end of the 90 days."

But the Chinese side would likely have to bring to the table a new offer that goes significantly beyond its previous offers to significantly increase purchases of U.S. goods, including soybeans, energy and manufactured goods.

China is fast-tracking that new law, with the country's largely rubber-stamp parliament likely to approve it in March.

A crucial component of any progress in the talks, according to top Trump administration officials, is agreement on a mechanism to verify and "enforce" China's follow-through on any reform pledges that it makes. This could maintain the threat of U.S. tariffs on Chinese goods for the long term.

The 2018 Trade War: Data and Nascent General Equilibrium Analysis

#2:
Why China decided to talk?

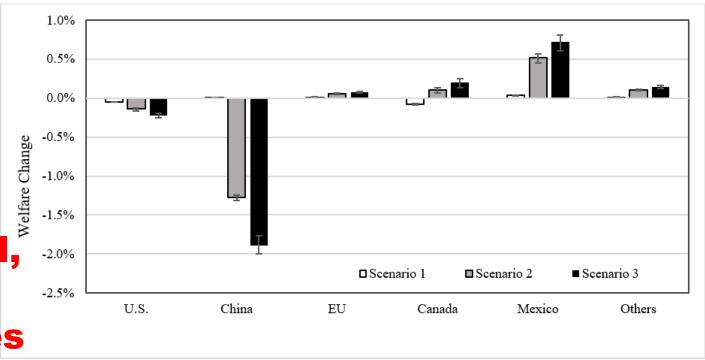
China suffers greater economic Loss overall, but also for US ag states

like lowa

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

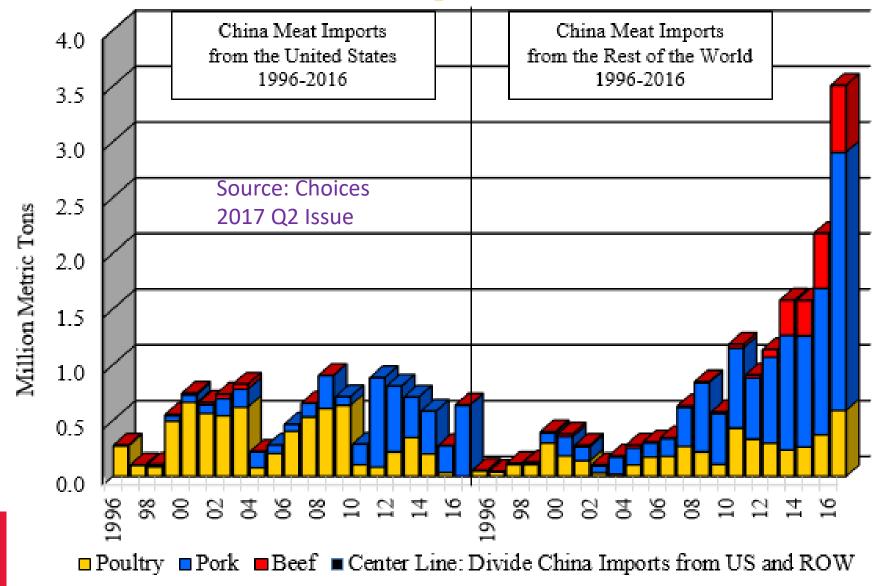
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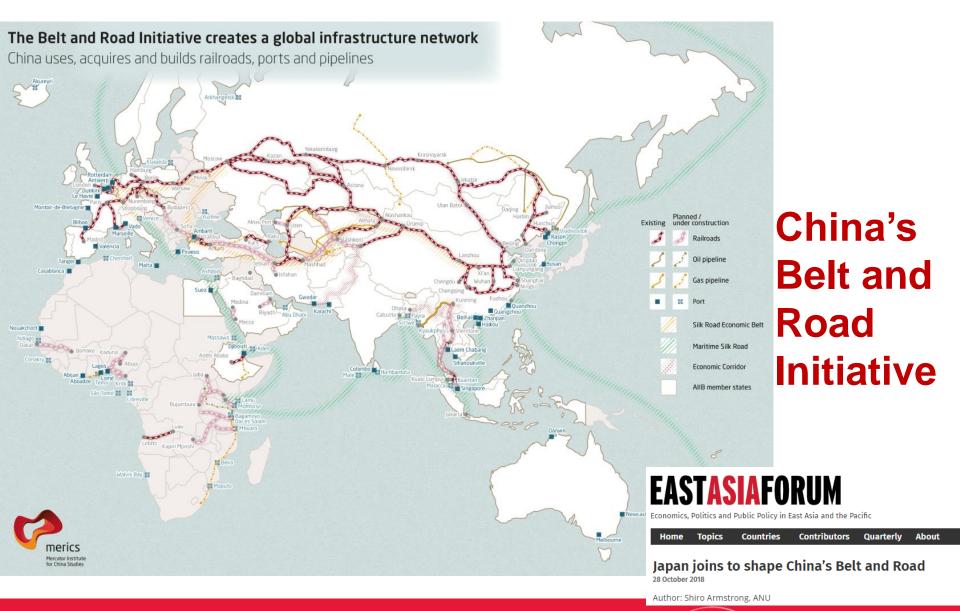
September 2018 18-PB 25

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.

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





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Statement of the United States Regarding China Talks

— ECONOMY & JOBS

Issued on: January 31, 2019

The talks covered a wide range of issues, including: (1) the ways in which United States companies are pressured to transfer technology to Chinese companies; (2) the need for stronger protection and enforcement of intellectual property rights in China; (3) the numerous tariff and non-tariff barriers faced by United States companies in China; (4) the harm resulting from China's cyber-theft of United States commercial property; (5) how market-distorting forces, including subsidies and state-owned enterprises, can lead to excess capacity; (6) the need to remove market barriers and tariffs that limit United States sales of manufactured goods, services, and agriculture to China; and (7) the role of currencies in the United States-China trading relationship. The two sides also discussed the need to reduce the enormous and growing trade deficit that the United States has with China. The purchase of United States products by China from our farmers, ranchers, manufacturers, and businesses is a critical part of the negotiations.

The two sides showed a helpful willingness to engage on all major issues, and the negotiating sessions featured productive and technical discussions on how to resolve our differences.

The United States is particularly focused on reaching meaningful commitments on structural issues and deficit reduction. Both parties have agreed that any resolution will be fully enforceable.

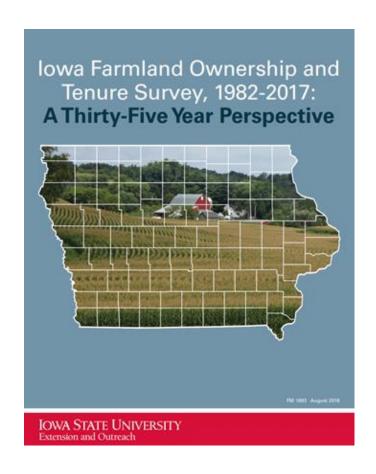
While progress has been made, much work remains to be done. President Donald J. Trump has reiterated that the 90-day process agreed to in Buenos Aires represents a hard deadline, and that United States tariffs will increase unless the United States and China reach a satisfactory outcome by March 1, 2019. The United States looks forward to further talks with China on these vital topics.



Key Messages (on Ag Decision Maker): Understand Contemporary China!

- 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



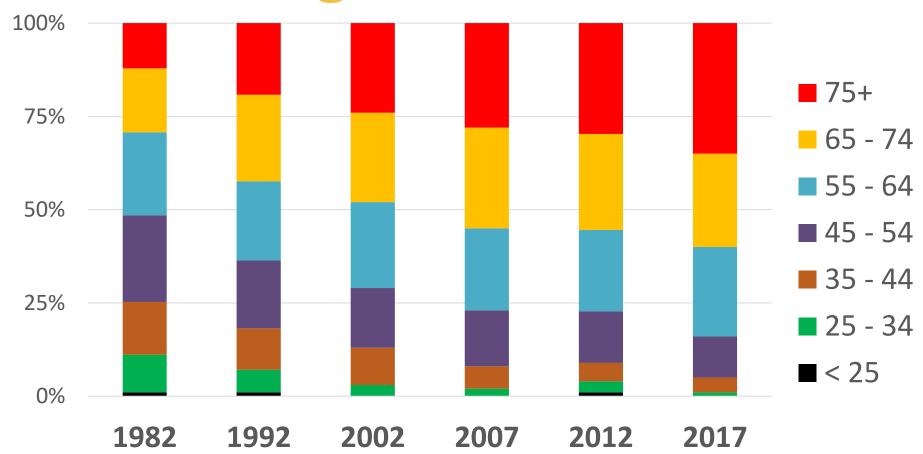


- 82% of Iowa land is debt-free
- 60% of land owned by owners 65+ years old, one-third of land owned by 75+ years old, 13% of land owned by women landowner 80+ years old
- Ownership continues to shift from sole ownership to trusts and corporations
- 53% of lowa land rented out mainly cash rent
- 34% of Iowa land owned by landlords with no farming experience, 23% of land owned by retired farmers who do not currently farm
- 29% of Iowa land owned primarily for family/sentimental reasons

(\$5 each print copy!)

https://store.extension.iastate.edu/product/6492

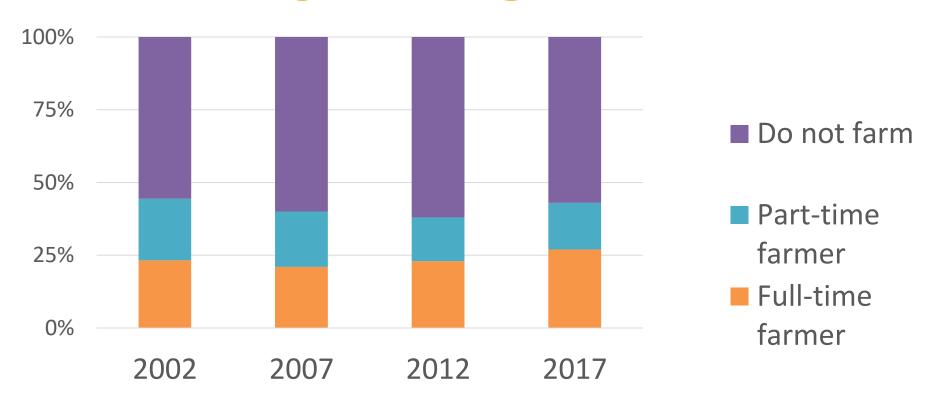
Percentage of Farmland by Age of Owner







Percentage of Iowa Farmland by Farming Status of Owner



2017: 57% of land owned by owners who do not farm; of these, 34% land owned by owners with no farming experience and 23% by retired farmers



Percent of Land and Owners Using Various Conservation Practices 2017

	Owners	Acres
No till	21%	27%
Cover crops	5%	4%
Buffer strips	3%	3%
Pond or sedimentation basin	1%	2%



Percent of Owner Willing to Help Tenant Adopt Cover Crops by Type 2017

	Pay for a portion of cost to plant cover crops	Lower rent for tenants who plan to plant cover crops	Longer lease for tenants who plan to plant cover crops
Yes	20%	10%	5%
No	25%	7%	9%
Maybe	16%	1%	3%





2018 IOWA LAND VALUE



down 0.8% down \$62

Double Downward Pressure

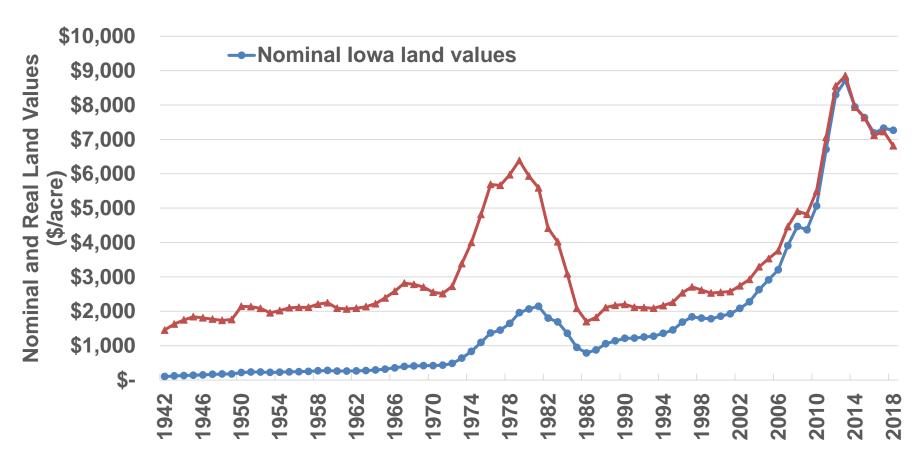
Land Value = income / interest rate

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AVERAGE VALUES

all farmland 1941-2018



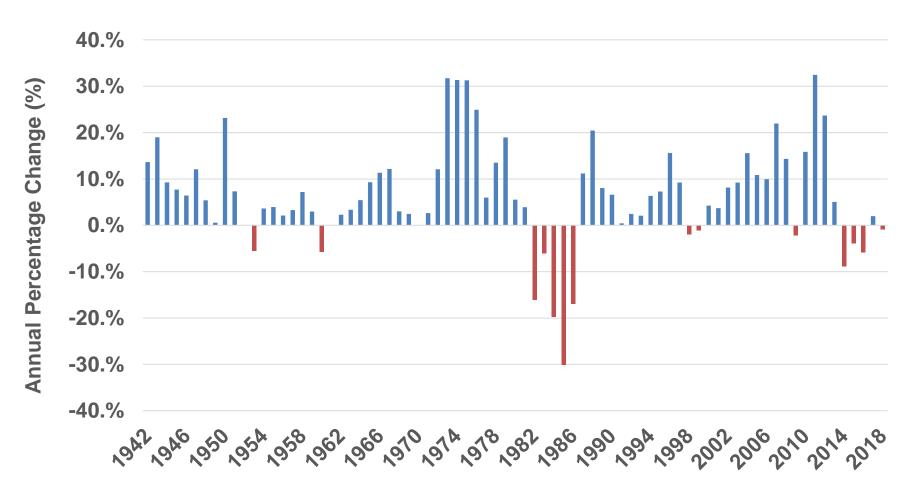
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% Change in Nominal Iowa Farmland Values 1942-2018

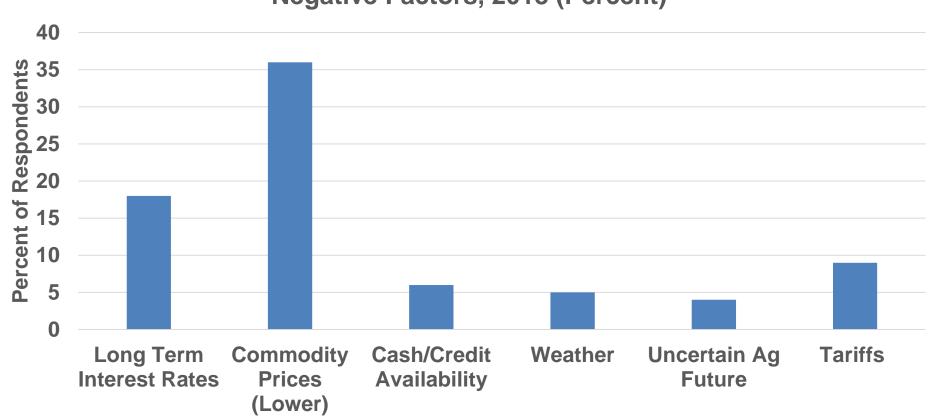






Major Negative Factors Affecting lowa Farmland Market, 2018

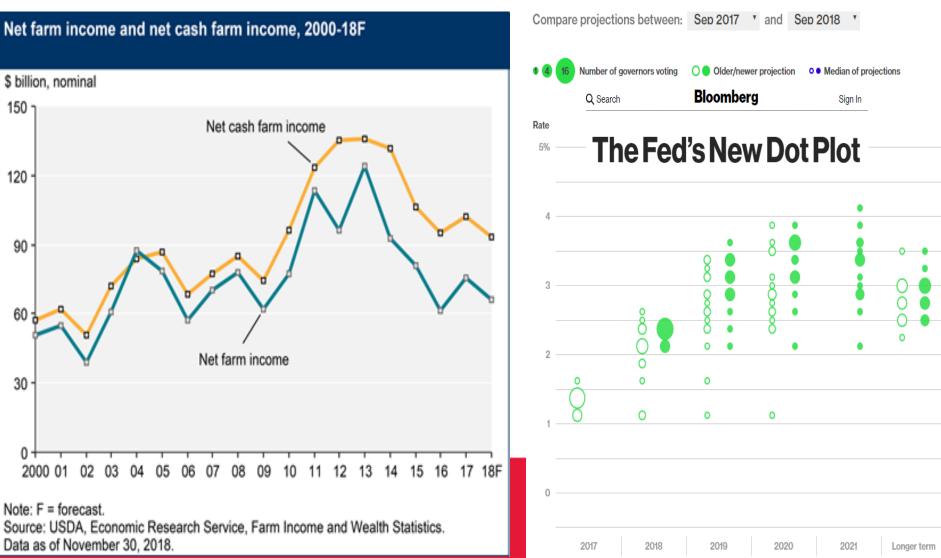
Negative Factors, 2018 (Percent)







Lower farm income and higher interest rates put downward pressures on land values



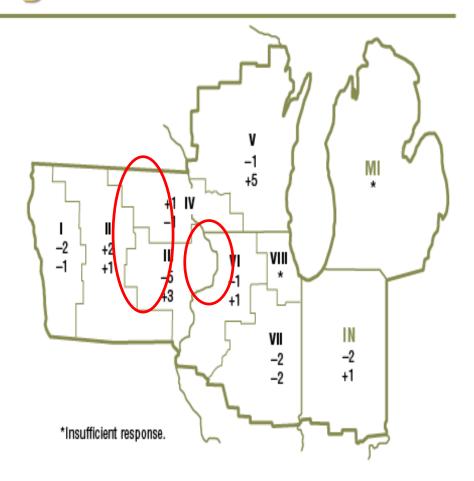
ISU Survey Results Echo Other Surveys

Percent change in dollar value of "good" farmland

Top: July 1, 2018 to October 1, 2018

Bottom: October 1, 2017 to October 1, 2018

	July 1, 2018 to October 1 , 2018	October 1, 2017 to October 1, 2018
Illinois Indiana	-1 -2	-1 +1
lowa	-1	+1
Michigan	*	*
Wisconsin	-1	+4
Seventh District	-1	+1







Indiana and Illinois both show recent declines

		% Change			
	•	6/17-6/18	6/17-12/17	12/17-6/18	
	_	%	%	%	
	Тор	1.6%	1.7%	-0.1%	
	Average	2.1%	2.5%	-0.4%	
	Poor	2.4%	3.1%	-0.7%	
	Transition ²	19.1%	15.1%	3.5%	
	Recreation ³	-4.9%	-4.4%	-0.5%	

2018 Illinois **Land Values**

Table 1. Estimates of Land Price, Beginning & Ending of 2017

Date

Productivity	Jan. 1, 2017	Change	
Excellent	11,000	10,600	-4%
Good	9,600	9,100	-5%
Average	7,900	7,600	-4%
Fair	5,900	5,800	-2%

2018 INDIANA FARMLAND VALUES UP, DOWN, & SIDEWAYS

Percent

Land Values by District and Quality, Nov 2018

District	Average Value	% Change	High Quality	% Change	Medium Quality	% Change	Low Quality	% Change
Northwest	\$9,311	-0.8%	\$10,767	-0.6%	\$8,548	-0.1%	\$6,018	-3.2%
North	\$7,789	-0.2%	\$8,699	-0.4%	\$7,214	-0.1%	\$5,161	-2.0%
Central								
Northeast	\$7,543	0.0%	\$9,198	0.5%	\$7,116	-1.7%	\$5,056	1.8%
West Central	\$7,413	0.5%	\$8,834	-0.5%	\$6,935	1.6%	\$4,720	0.8%
Central	\$7,899	-2.4%	\$9,313	-2.7%	\$7,341	-1.1%	\$4,932	-1.2%
East Central	\$8,004	-2.6%	\$9,768	-1.3%	\$7,452	-2.9%	\$4,911	-7.4%
Southwest	\$6,060	0.0%	\$7,738	2.2%	\$5,671	-1.5%	\$3,790	-3.7%
South	\$4,329	3.8%	\$6,055	2.5%	\$4,244	4.0%	\$2,953	4.6%
Central								
Southeast	\$6,619	-3.6%	\$9,063	-4.3%	\$6,353	-3.0%	\$3,656	-3.0%
Iowa Avg.	\$7,264	-0.8%	\$8,863	-0.8%	\$6,805	-0.7%	\$4,609	-1.7%

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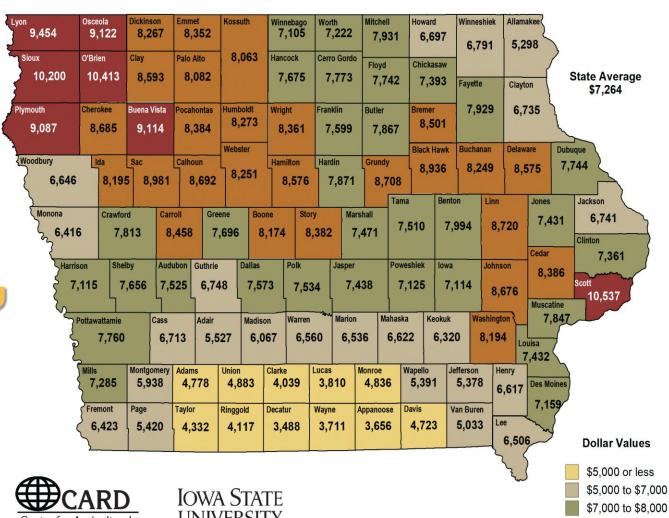
Local Land Supply and Demand Explain Variations in Land Market

Land Value = localized net income / universal interest rate



2018 Iowa Land Values

Land **Values** County, **2018**





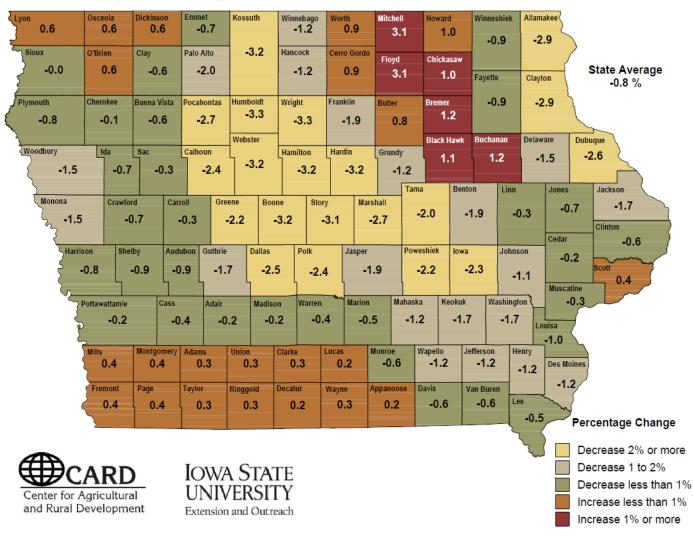
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\$8,000 to \$9,000

\$9,000 or more

Percentage Change in Iowa Land Values 2017 to 2018



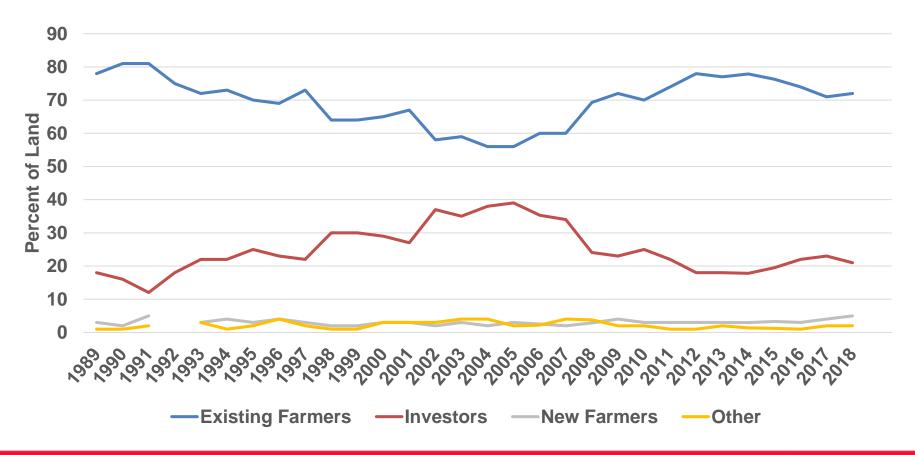
Percent
Changes
in Land
Values
from Nov
2017



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lowa Farmland Purchases by Buyer Types 1989-2018





Thank You!

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