2019 ISU Land Value Survey

Dr. Wendong Zhang

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Assistant Professor of Economics and Extension Economist

ISU Alumni Center, Ames, Iowa December 11, 2019



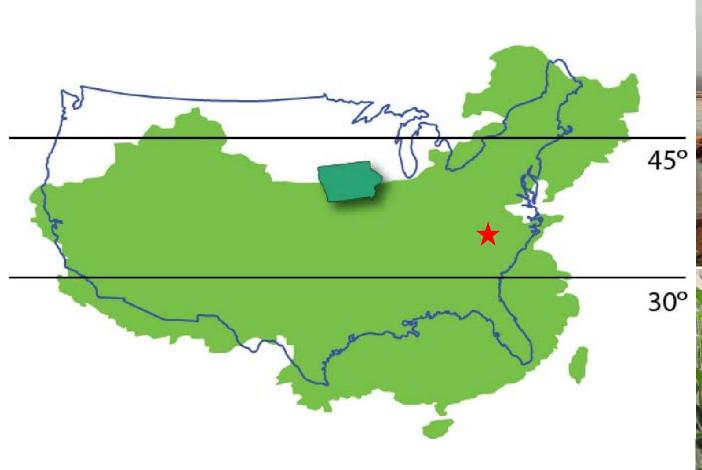
A Quick Introduction: Dr. Wendong Zhang

- Grown up in a rural county in Shandong Province, 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 https://www.card.iastate.edu/farmland agriculture and the environment

ISU China Ag Center (+ CAAS) https://www.card.iastate.edu/china









Extension and Outreach



ISU Land Value Survey - How to Interpret

- It is an opinion survey
- It is an expert opinion survey: respondents ag professionals
- The first of its sort in the nation started 1941
- The only survey that offers county-level land value estimates since 1950
- It is not designed to value individual parcels
- The percent change is more important than the actual dollar amount, and when comparing across surveys, compare their percent change
- To value individual parcels consult appraisers or comparable sales



Number of Respondents and Responses by District and Mode, 2019

	Responses			Resp	Respondents			
	Paper	Online	Total	Paper	Online	Total		
	PERCENT		Number	PERCEN	PERCENT			
Northwest	45	55	88	45	55	76		
North Central	32	68	95	32	68	77		
Northeast	37	63	89	39	61	71		
West Central	51	49	69	52	48	54		
Central	40	60	77	38	62	61		
East Central	35	65	74	34	66	58		
Southwest	34	66	56	39	61	41		
South Central	33	67	60	38	62	52		
Southeast	48	52	65	51	49	57		
STATE	39%	61%	673	41%	59%	547		



Survey Respondents by Occupation, 2019

	Farm		Ag		Farmer		
	manager	Appraiser	lender	Broker/Realtor	/Landowner	Government	Other
				PERCENT			
Northwest	20	4	39	18	4	12	3
North Central	12	8	42	14	9	10	5
Northeast	10	6	44	11	14	7	8
West Central	11	6	44	11	2	13	13
Central	15	11	31	13	8	13	8
East Central	16	9	34	16	7	5	14
Southwest	10	7	29	17	17	12	7
South Central	8	8	23	31	10	19	4
Southeast	7	9	39	11	5	16	11
STATE	12	7	37	16	8	12	8





Experience and Service Area by Occupation

Crop reporting district	Years of experience	Number of counties served	Occupation	Years of experience	Number of Counties Served
Northwest	27	6	Farm manager	23	10
North Central	29	9	Appraiser	28	15
Northeast	25	10	Ag lender	24	4
West Central	26	9	Brokers/Realtor	26	13
Central	28	10	Farmer/Landowner	40	5
East Central	24	6	Government	20	3
Southwest	29	5	Other	34	11
South Central	20	8			
Southeast	22	6			
STATE	26	8	STATE	26	8





STATEWIDE AVERAGE

\$7,432 Nov 2019





HIGH QUALITY LAND

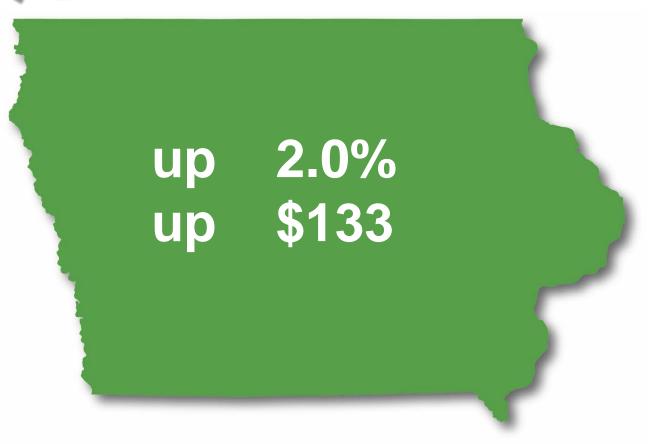
\$9,078 Nov 2019

up 2.4% up \$215



MEDIUM QUALITY LAND

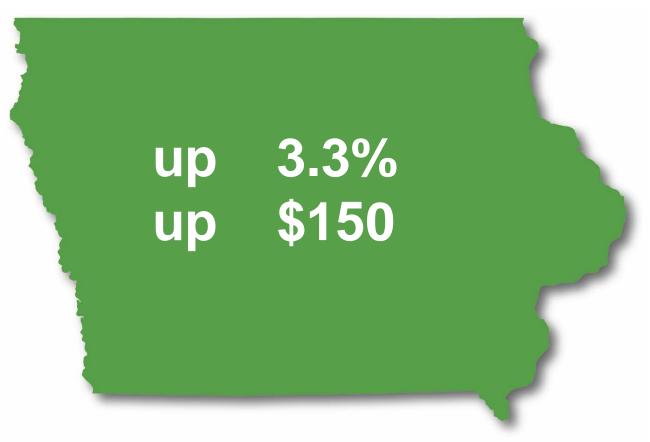
\$6,938 Nov 2019





LOW QUALITY LAND

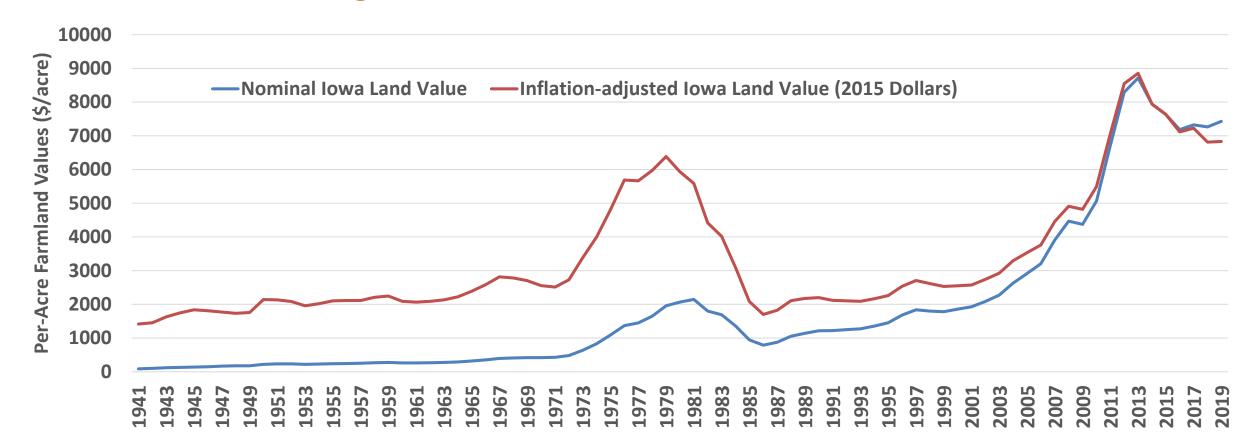
\$4,759 Nov 2019





Average Iowa Land Values Just Exceeded Inflation

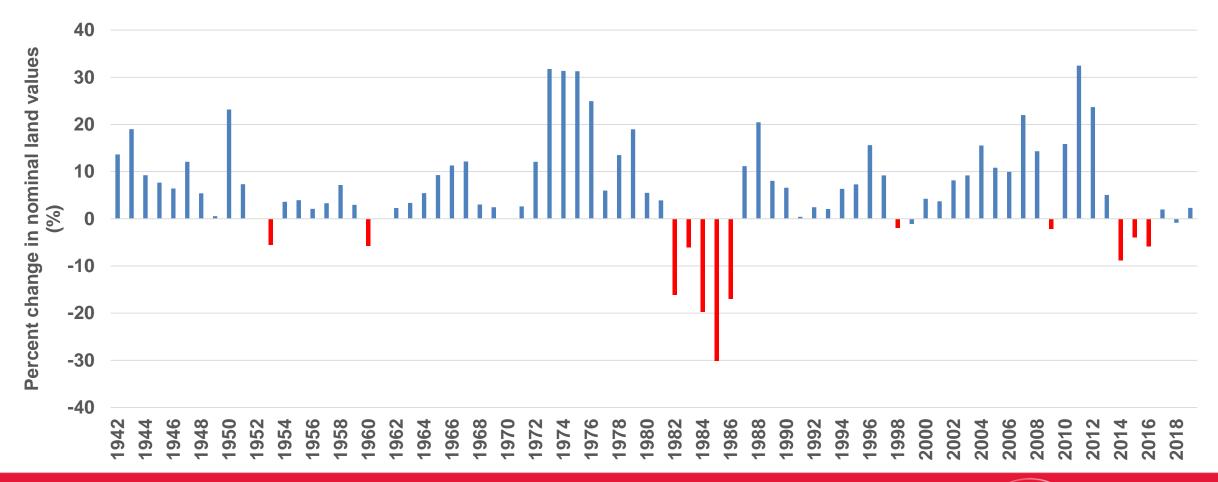
Average values of all farmland 1942–2019





2019 hike represents 2nd rise in past 6 years

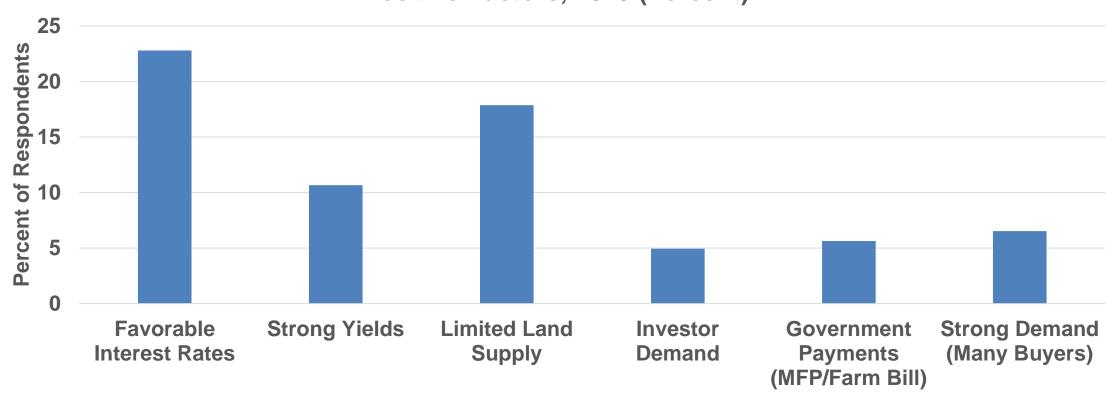
% Change in Nominal Iowa Farmland Values 1942-2019





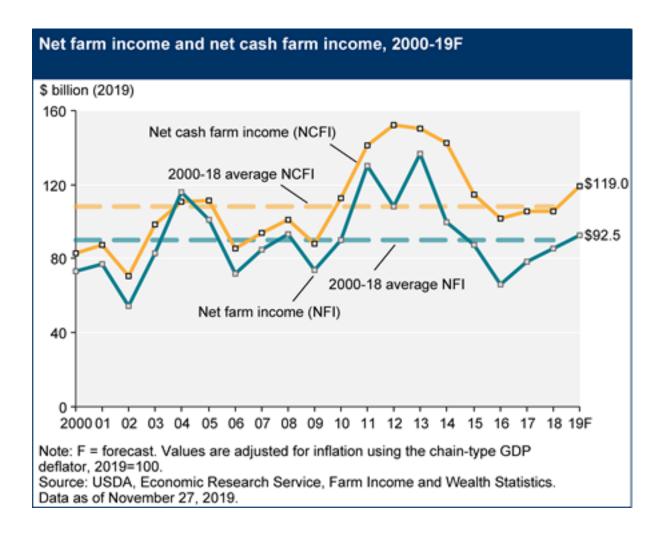
Major Positive Factors Affecting lowa Farmland Market, 2019

Positive Factors, 2019 (Percent)



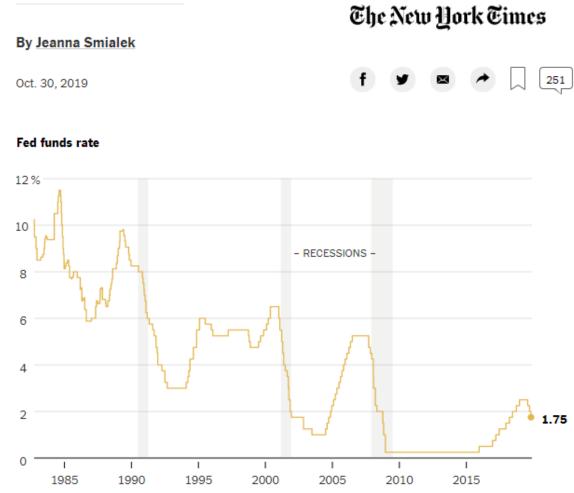


Higher farm income and lower interest rates provided support for land values

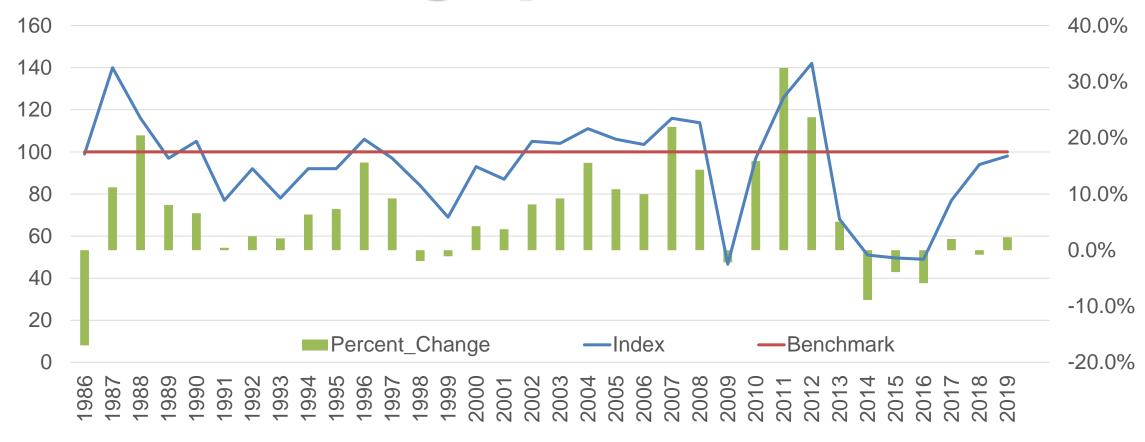


Federal Reserve Cuts Interest Rates for Third Time in 2019

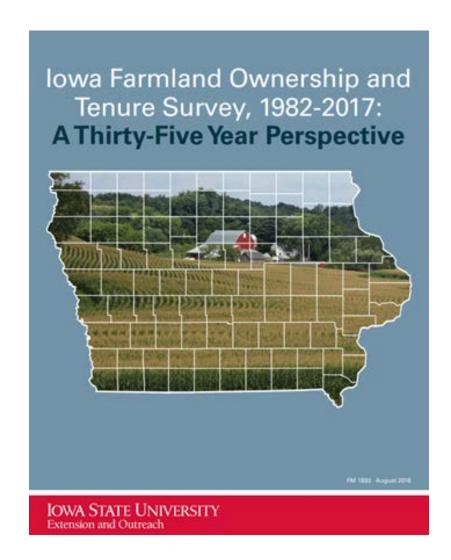
The quarter-point cut comes as the economy continues to show signs of slowing, but the Fed signaled that it may pause to weigh incoming data before adjusting rates again.



Limited land supply still a key factor holding up land values







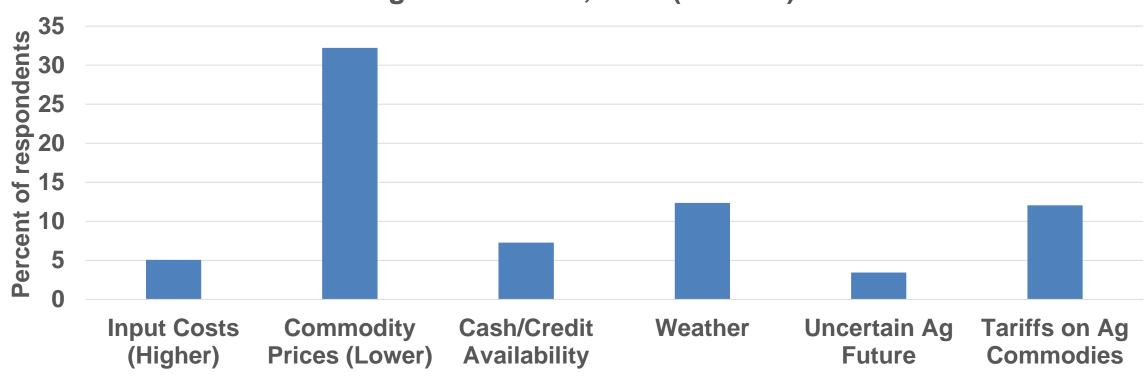
- 82% of lowa land is debt-free
- 60% of land owned by owners 65+ years old, onethird of land owned by 75+ years old, 13% of land owned by women landowner 80+ years old
- Ownership continues to shift from sole ownership to trusts and corporations
- 53% of lowa land rented out mainly cash rent
- 34% of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

(\$5 each print copy!)

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

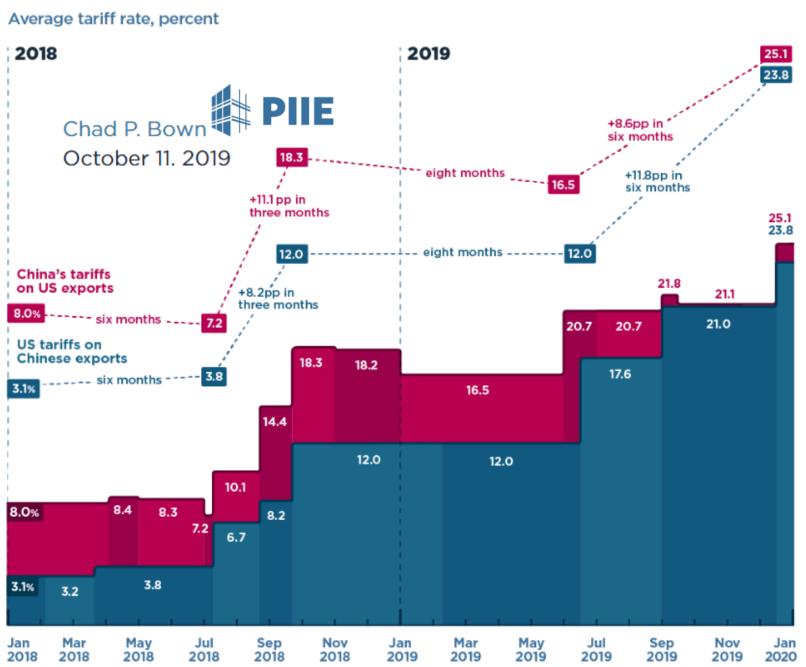
Major Negative Factors Affecting lowa Farmland Market, 2019

Negative Factors, 2019 (Percent)





US-China Trade War Tariffs: An Up-to-Date Chart





POLITICS

Trump administration reportedly plans to delay China tariffs set to take effect Sunday

PUBLISHED TUE, DEC 10 2019-8:52 AM EST UPDATED 4 HOURS AGO

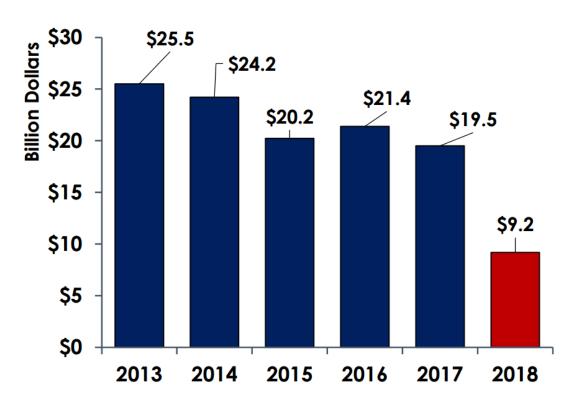


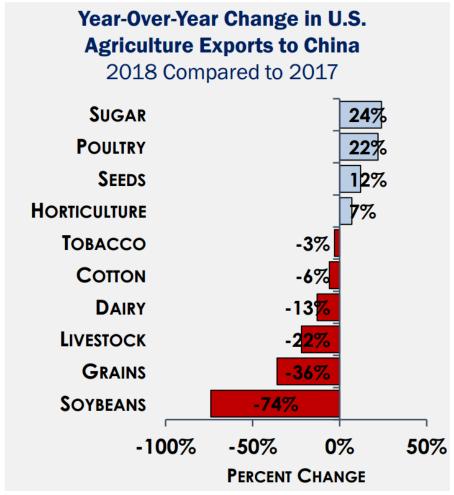
KEY POINTS

- The U.S. and China are taking steps to delay the next round of American tariffs set for Sunday as they seek a deal to rein in a raging trade war, according to The Wall Street Journal.
- 15% tariffs on about \$160 billion in Chinese goods are set to take effect on Sunday.
- This round of tariffs targets Chinese-made consumer goods, including toys, phones, laptops and clothes.

#TradeWar Was, and Is, More Than Soybeans

Total Agricultural Exports to China Down \$10 Billion in 2018



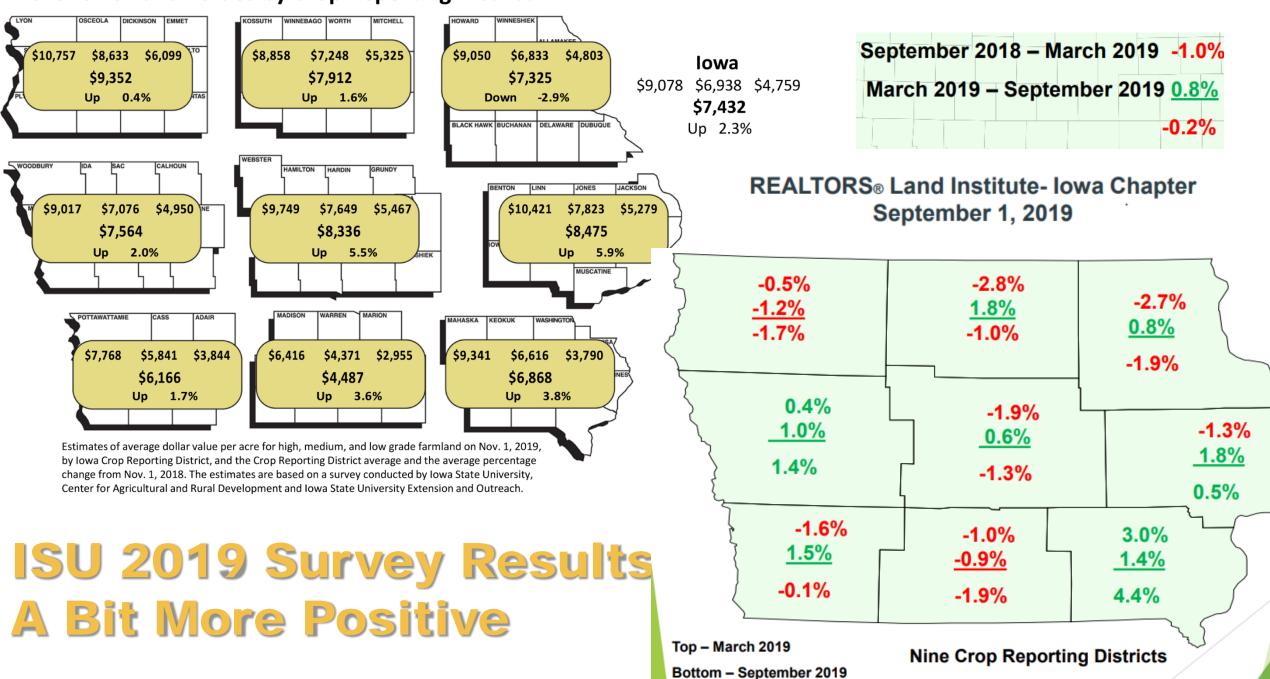






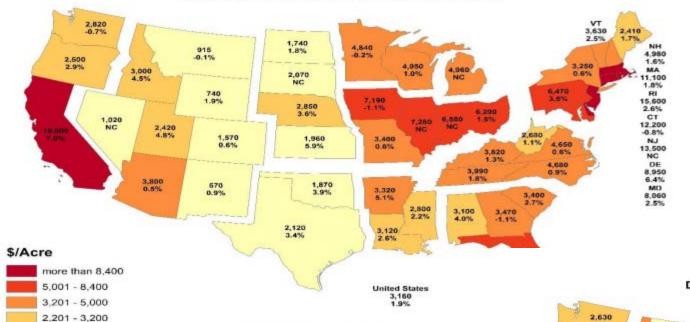


2019 Iowa Land Values by Crop Reporting District



2019 Farm Real Estate Value by State

Dollars per Acre and Percent Change from 2018



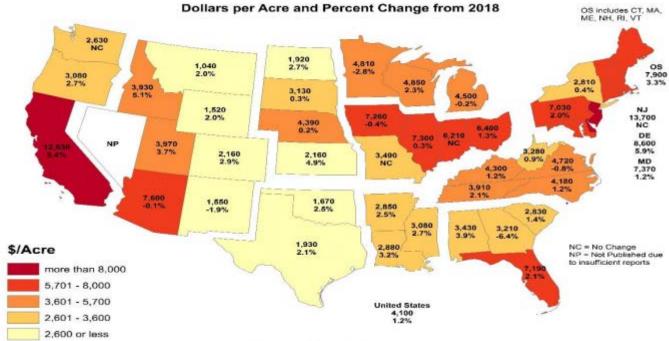
USDA NASS June Area Survey June 2018 to June 2019

IA Ag Real Estate Values: -1.1%

IA Cropland Values: -0.4%

IA Pasture Values: -2.5%

2019 Cropland Value by State



USDA - NASS August 6, 2019

USDA June Area Survey, August 2019

NP

USDA - NASS August 6, 2019

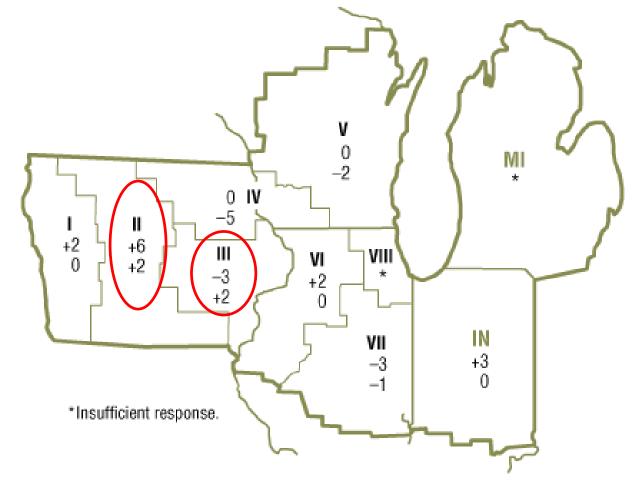
2,200 or less

ISU Survey Results Echo Recent Increases from Chicago Fed Survey

Percent change in dollar value of "good" farmland

Top: July 1, 2019 to October 1, 2019

Bottom: October 1, 2018 to October 1, 2019

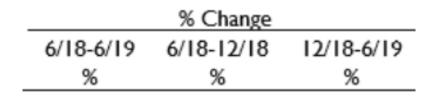






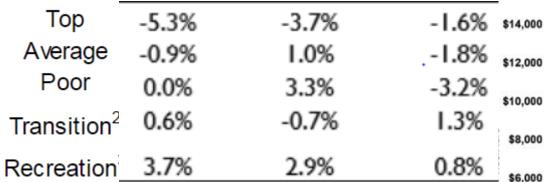


Indiana and Illinois show mixed results

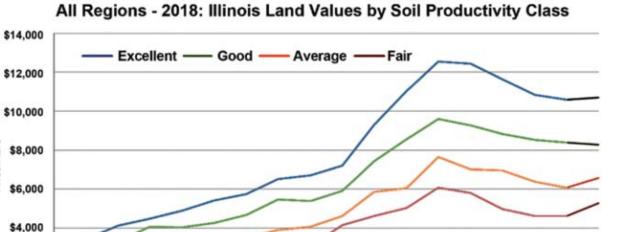


2019 Illinois Land Values

Top
Average
Indiana Poor
Transition²







2019 INDIANA FARMLAND VALUES CASH RENTS SLIDE LOWER



Land Values by District and Quality, Nov 2019

District	Average Value	% Change	High Quality	% Change	Medium Quality	% Change	Low Quality	% Change
Northwest	\$9,352	0.4%	\$10,757	-0.1%	\$8,633	1.0%	\$6,099	1.3%
North Central	\$7,912	1.6%	\$8,858	1.8%	\$7,248	0.5%	\$5,325	3.2%
Northeast	\$7,325	-2.9%	\$9,050	-1.6%	\$6,833	-4.0%	\$4,803	-5.0%
West Central	\$7,564	2.0%	\$9,017	2.1%	\$7,076	2.0%	\$4,950	4.9%
Central	\$8,336	5.5%	\$9,749	4.7%	\$7,649	4.2%	\$5,467	10.9%
East Central	\$8,475	5.9%	\$10,421	6.7%	\$7,823	5.0%	\$5,279	7.5%
Southwest	\$6,166	1.7%	\$7,768	0.4%	\$5,841	3.0%	\$3,844	1.4%
South Central	\$4,487	3.6%	\$6,416	6.0%	\$4,371	3.0%	\$2,955	0.1%
Southeast	\$6,868	3.8%	\$9,341	3.1%	\$6,616	4.1%	\$3,790	3.7%
Iowa Avg.	\$7,432	2.3%	\$9,078	2.4%	\$6,938	2.0%	\$4,759	3.3%





Local Land Supply and Demand Explain Variations in Land Market

Land Value = localized net income / universal interest rate



Livestock and Crop Inventory by Crop Reporting District

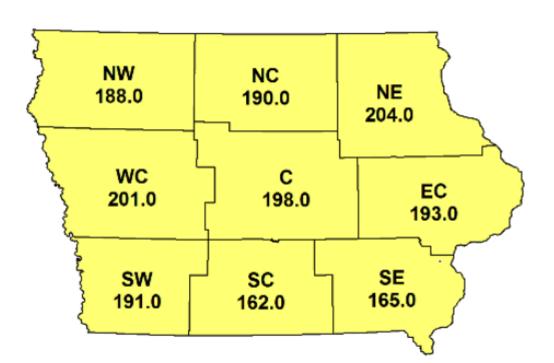
District	Lives	Livestock Inventory - 2017			Acres 2017		Harvested Acres 2018	
	Hogs	Milk Cows	Cattle	Pasture	Timber	Corn	Soybean	
Northwest	27%	36%	26%	6%	2%	14%	16%	
North Central	13%	3%	5%	3%	4%	14%	13%	
Northeast	11%	51%	17%	11%	23%	12%	8%	
West Central	12%	0%	12%	10%	7%	15%	15%	
Central	13%	0%	7%	8%	7%	15%	14%	
East Central	6%	6%	11%	12%	14%	11%	10%	
Southwest	1%	0%	7%	11%	5%	8%	10%	
South Central	3%	0%	9%	27%	20%	4%	6%	
Southeast	12%	2%	5%	12%	18%	7%	8%	
Iowa Total	22.5 million	0.17 million	3.9 million	2.4 million	1.2 million	12.8 million	9.9 million	





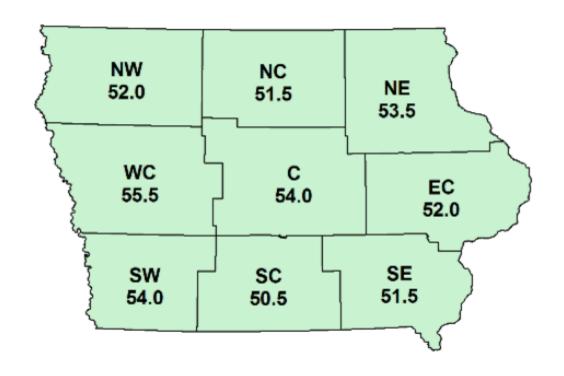
Despite weather problems, yields remain strong than expected

Corn Yield: November 1, 2019
Bushels per Acre



State Average: 192.0 bu/acre

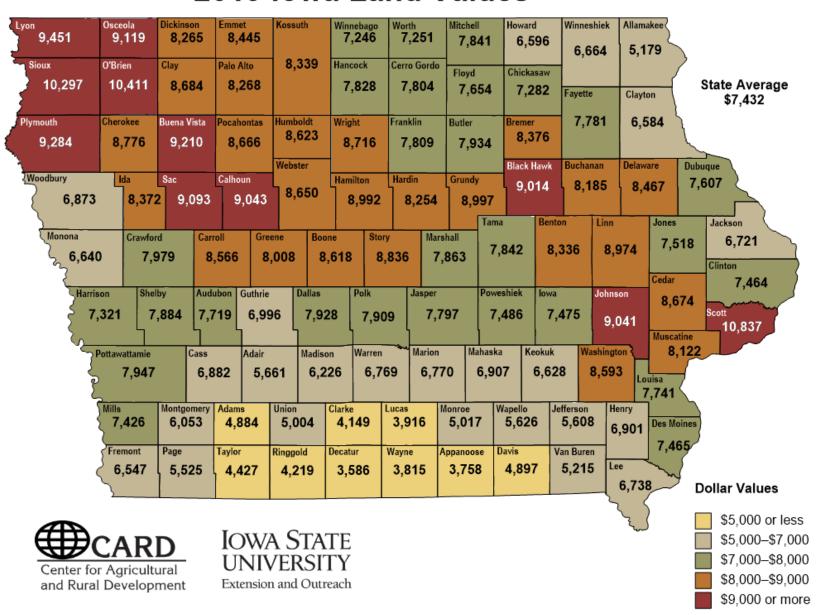
Soybean Yield: November 1, 2019 Bushels per Acre



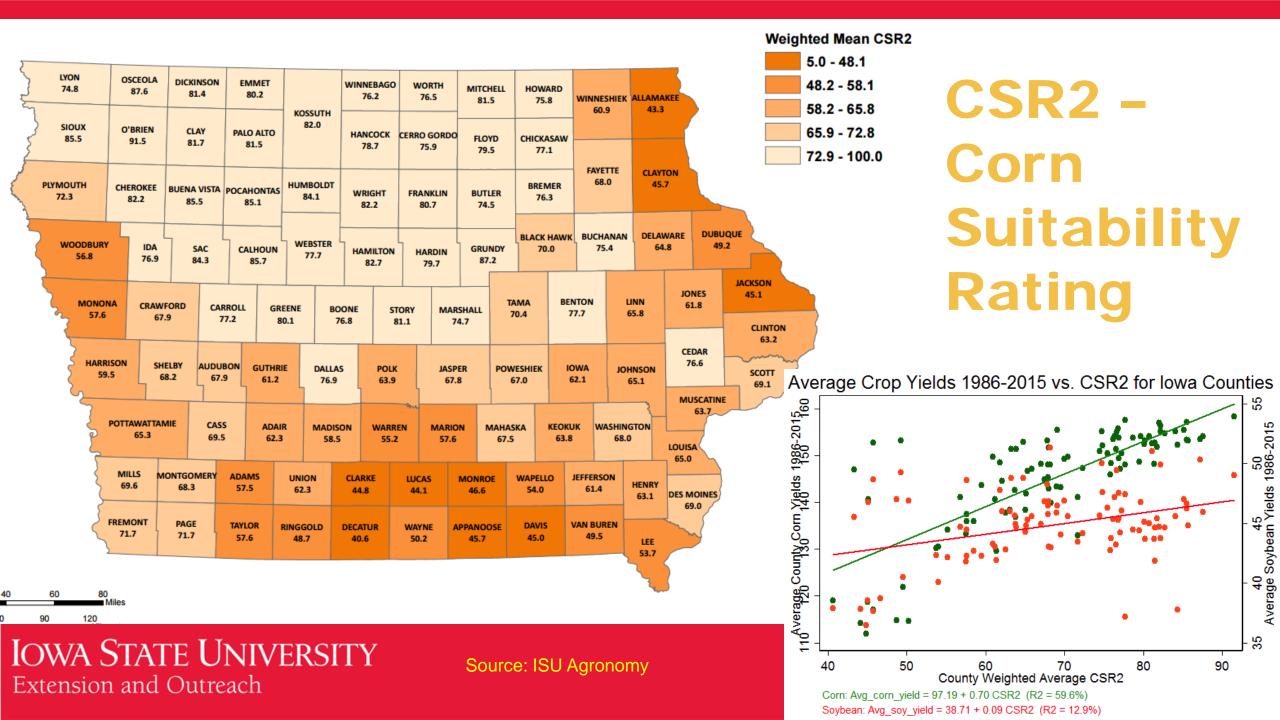
State Average: 53.0 bu/acre

Land Values by County, 2019

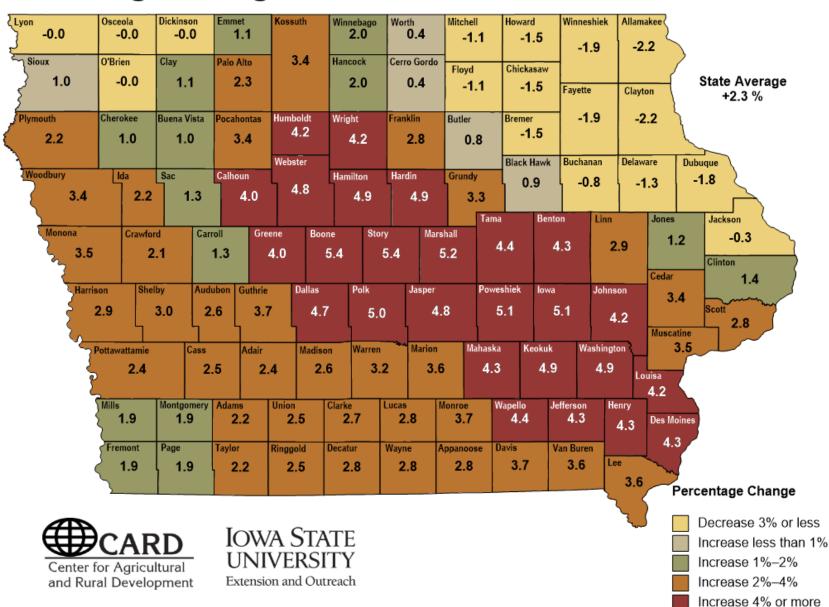
2019 Iowa Land Values



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Extension and Outreach



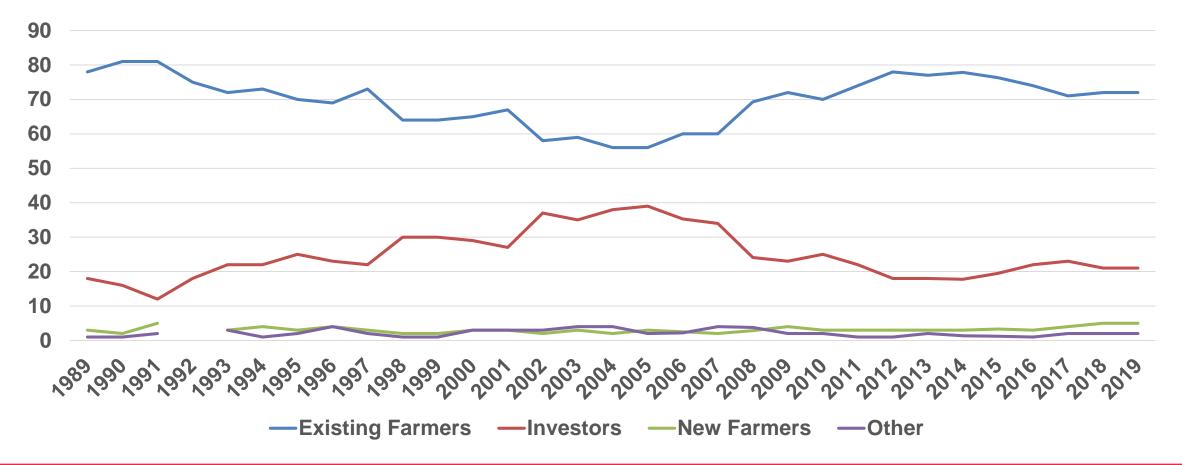
Percentage Change in Iowa Land Values 2018 to 2019



Percent
Changes in
Land
Values
from Nov
2018



lowa Farmland Purchases by Buyer Types 1989-2019





Iowa Farmland Purchases by Seller Types, 2019

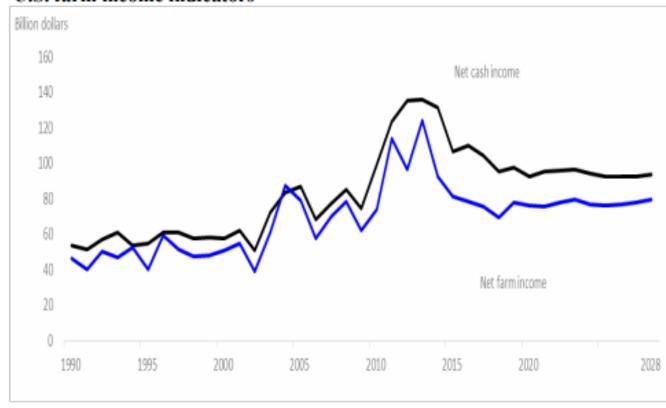
	Active Farmers	Retired Farmers	Estate Sales	Investors	Other				
		PERCENT							
Northwest	10	17	65	7	1				
North Central	12	20	60	6	2				
Northeast	15	31	45	6	3				
West Central	11	24	57	6	2				
Central	12	19	62	5	2				
East Central	13	23	56	6	2				
Southwest	12	25	49	10	4				
South Central	20	25	35	17	3				
Southeast	16	26	50	6	2				
STATE	16	24	52	7	1				





US Farm Income Projections 1990-2028

U.S. farm income indicators



Source: USDA OCE 2019: Long-term Ag Outlook to 2028





Home > Economy & Politics > Federal Reserve > The Fed

Three things market participants should watch for at the Fed interest-rate meeting

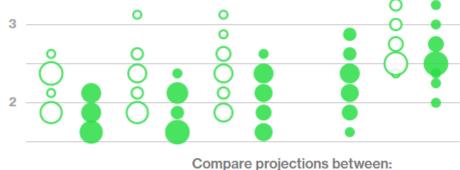
By Greg Robb

Published: Dec 9, 2019 3:43 p.m. ET

SHARE COMMENTS

Bloomberg

Will December's dot plot show a more united Fed after fractious reading in previous policy meetings



June 2019 v and Sep 2019 v



2021

2019 2020

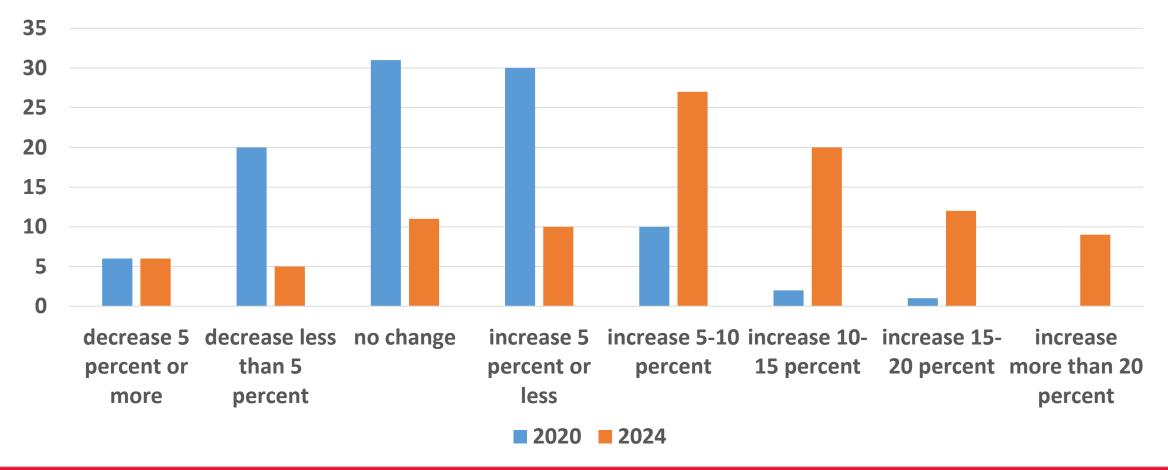
2022

Longer term

One and Five Year Cash Crop Price Predictions

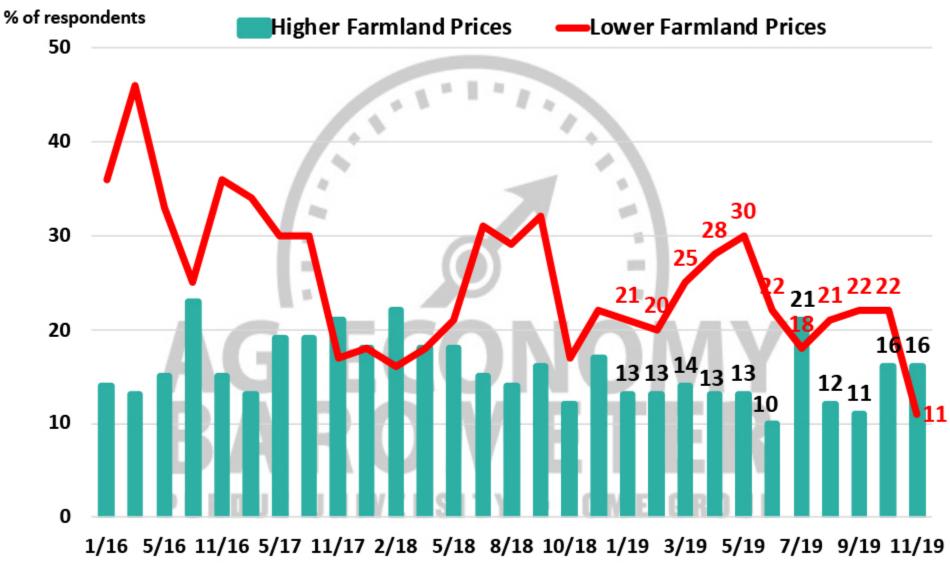
	Cash Co	rn Prices	Cash So	bean Prices
	A Year Later	Five Years Later	A Year Later	Five Years Later
Northwest	\$3.44	\$4.00	\$8.36	\$9.55
North Central	\$3.49	\$4.11	\$8.58	\$9.94
Northeast	\$3.46	\$4.16	\$8.57	\$9.92
West Central	\$3.44	\$4.00	\$8.36	\$9.55
Central	\$3.45	\$4.05	\$8.55	\$9.90
East Central	\$3.61	\$4.11	\$8.79	\$10.04
Southwest	\$3.55	\$4.05	\$8.44	\$9.64
South Central	\$3.64	\$4.17	\$8.29	\$9.65
Southeast	\$3.47	\$4.25	\$8.43	\$9.79
STATE	\$3.51	\$4.10	\$8.50	\$9.79
017 Predictions	\$3.32	\$3.98	\$9.21	\$10.25

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





Farmland Price Expectations, 12 Months Ahead



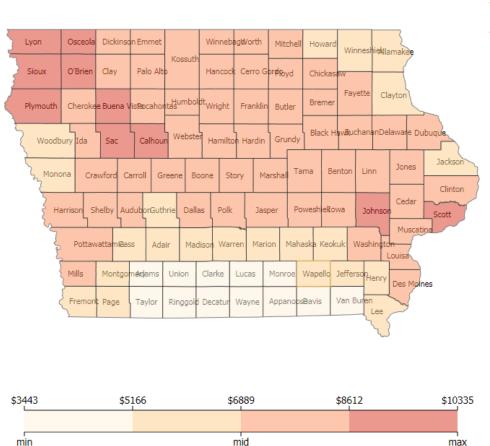


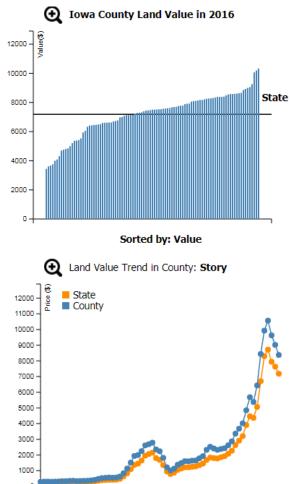




IOWA STATE UNIVERSITY 10,000 9.000 Acre (\$) [nominal] 7.000 6.000 5,000 3,000 2.000 1.000 \$\text{8}\text owa Farmland Portal **twitter**

https://www.card.iastate.edu/farmland







#ISUlandvalue



1950 1955 1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 2010 2015

https://www.card.iastate.edu/china

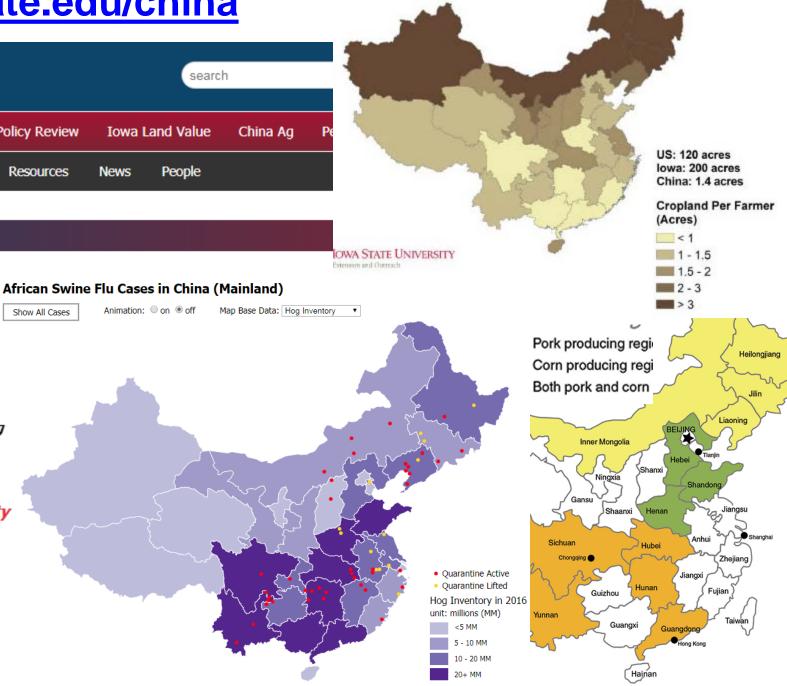


Shuyang Qu, Wendong Zhang, Minghao Li, Lulu Rodriguez, Guang Han, Erin Cork, James M Gbeda. 2019. "Midwest Crop Farmers' Perceptions of the U.S.-China Trade War." CARD Policy Brief. Center for Agricultural and Rural Development, Iowa State University.

Tao Xiong and Wendong Zhang. 2019. "Who benefits most from China's growing import demand due to African Swine Fever?" Ag Decision Maker. Iowa State University Extension and Outreach.

Impact of African Swine Fever on US and World Commodity Markets

Miguel Carriquiry, Amani Elobeid, Dermot Hayes, and Wendong Zhang



Thank You!

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