What Is Driving Rising Farmland Values?

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Associate Professor of Economics and Extension Economist

ISU CARD Farmland Portal: www.card.iastate.edu/farmland

Iowa Farm Bureau, January 6, 2022



A Quick Introduction: Dr. Wendong Zhang

- Grew up in a rural county in Shandong Province, China
- Attended college in Shanghai and Hong Kong
- Ph.D. in Ag Econ from Ohio State in 2015
- Promoted to Associate Professor in August 2021
- Research and extension interests:

land value/ownership https://www.card.iastate.edu/farmland

2019 Iowa Lakes Survey https://www.card.iastate.edu/lakes

ISU China Ag Center https://www.card.iastate.edu/china



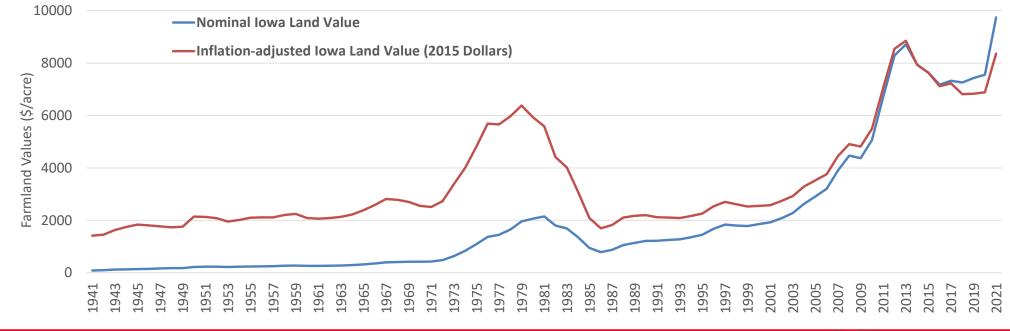
ISU Land Value Survey – How to Interpret

- It is an opinion survey
- It is an expert opinion survey: respondents are 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 the percent change
- To value individual parcels, consult appraisers or comparable sales



Nominal lowa land values reach historic high But inflation-adjusted values are still lower than 2012, 2013 Nominal values +29%; Inflation-adjusted values +21%

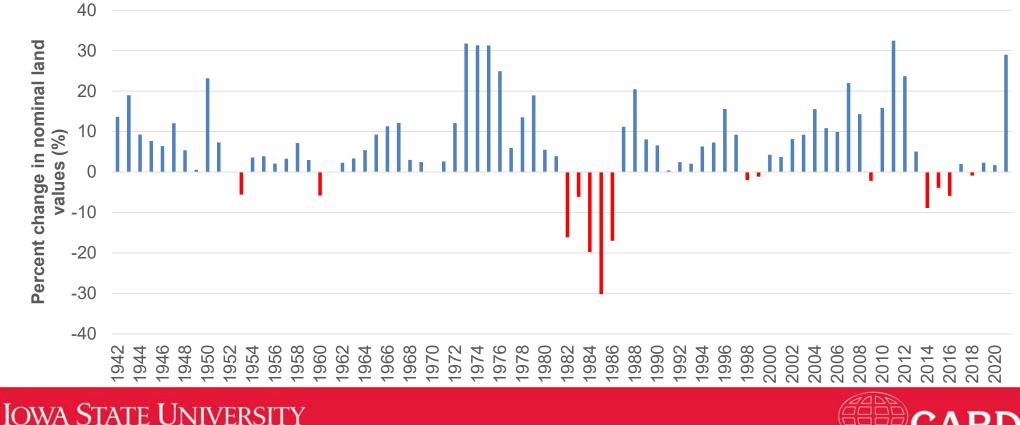
Average values of all farmland 1942–2021





2021 hike: 29% nominal, 21% inflation-adjusted

% Change in Nominal Iowa Farmland Values 1942-2021



Extension and Outreach



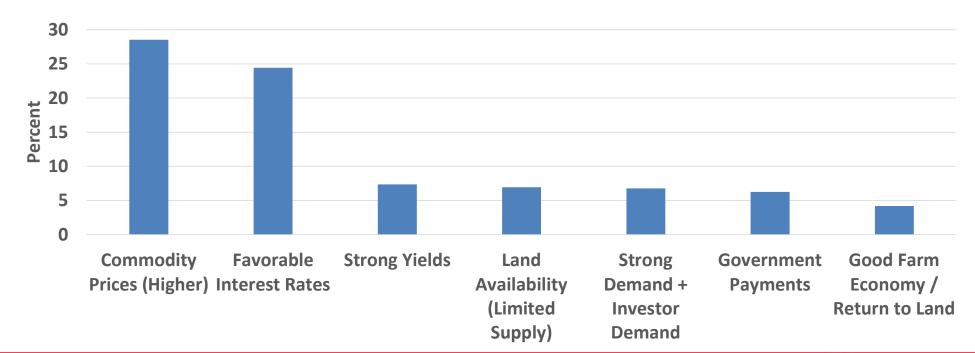
Land Values by District and Quality, Nov 2021

District	Average Value	% Change	High Quality	% Change	Medium Quality	% Change	Low Quality	% Change
Northwest	\$12,164	27.6%	\$13,997	29.8%	\$11,042	22.8%	\$8,088	24.7%
North Central	\$10,664	34.5%	\$12,064	35.7%	\$9,641	31.2%	\$6,992	32.0%
Northeast	\$9,958	32.3%	\$12,308	34.1%	\$9,122	30.7%	\$6,717	28.8%
West Central	\$10,461	33.1%	\$12,289	34.2%	\$9,700	30.5%	\$7,044	28.3%
Central	\$10,744	26.6%	\$12,512	27.7%	\$9,980	26.6%	\$7,136	23.2%
East Central	\$11,051	29.6%	\$13,503	32.4%	\$10,179	27.9%	\$7,215	28.9%
Southwest	\$7,582	24.0%	\$9,424	25.9%	\$7,145	22.3%	\$5,155	27.1%
South Central	\$6,035	29.6%	\$8,194	27.9%	\$6,094	33.6%	\$4,058	24.4%
Southeast	\$8,451	21.9%	\$11,628	25.0%	\$8,169	23.1%	\$4,734	14.5%
	¢0 751	20.0%	¢11 071	20 5%	¢0 074	27 40/	¢6 207	26.0%
lowa Avg.	\$9,751	29.0%	\$11,834	30.5%	\$9,071	27.4%	\$6,397	26.0%



Major Positive Factors Affecting Iowa Farmland Market, 2021

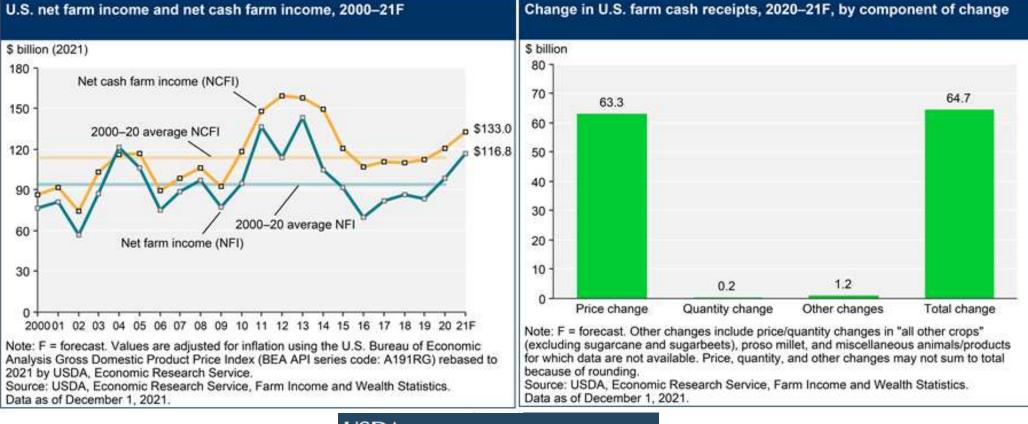
Positive Factors Affecting 2021 Farmland Market







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





Economic Research Service United States Department of Agriculture

		1	Perc	ent <mark>ch</mark> ange	from
	Latest period	Value	Prior period	Year ago	Two years ago
Prices received by farmers (index, 2011=100)	September	109	-0.7	22	24
Crops (index, 2011=100)	September	108	-1.5	16	23
Corn (\$ per bu.)	September	5. <mark>4</mark> 5	-13.8	60	43
Hay (\$ per ton)	September	188	0.0	25	18
Soybeans (\$ per bu.)	September	12.20	-10.9	32	46
Wheat (<i>\$ per bu.</i>)	September	7.75	8.7	64	79
Livestock and products (index, 2011=100)	September	109	0.0	30	25
Barrows & gilts (\$ per cwt.)	September	70. <mark>4</mark> 0	-10 <mark>.</mark> 4	38	46
Steers & heifers (\$ per cwt.)	September	127.00	1.6	21	22
Milk (\$ per cwt.)	September	18.40	4.0	4	-5
Eggs (\$ per doz.)	September	1.03	-3.7	24	51

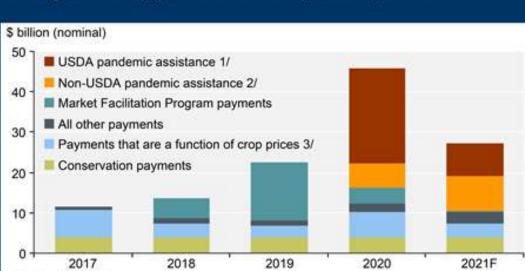
Commodity Prices Significantly Higher



The impacts of interest rate changes on US Midwest farmland values

Albulena Basha Deutsche Gesellschaft Für Internationale Zusammenarbeit (GIZ) GmbH, Pristina, Kosovo Wendong Zhang

Direct government payments to U.S. farm producers, 2017-21F



Note: F = forecast.

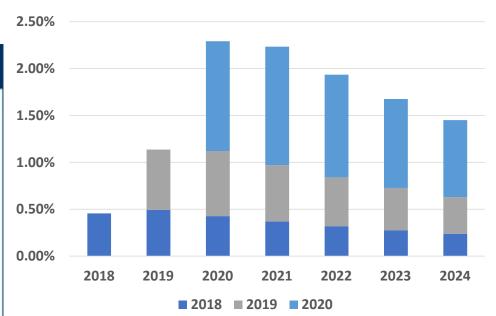
 Includes payments from the Coronavirus Food Assistance Program and other USDA pandemic assistance for producers.

2/ Includes loans from the Paycheck Protection Program.

3/ Includes Price Loss Coverage, Agriculture Risk Coverage, Ioan deficiency payments (excluding grazeout payments), marketing Ioan gains, certificate exchange gains, and dairy payments.

Source: USDA, Economic Research Service, Farm Income and Wealth Statistics. Data as of December 1, 2021.

The short- and long-term impacts of recent government payments on I-states' farmland values



https://doi.org/10.1108/AFR-11-2020-0163



Markets and the economy brace as the Federal Reserve's first rate hike could come in two months

PUBLISHED MON, JAN 3 2022-3:27 PM EST | UPDATED MON, JAN 3 2022-6:53 PM EST



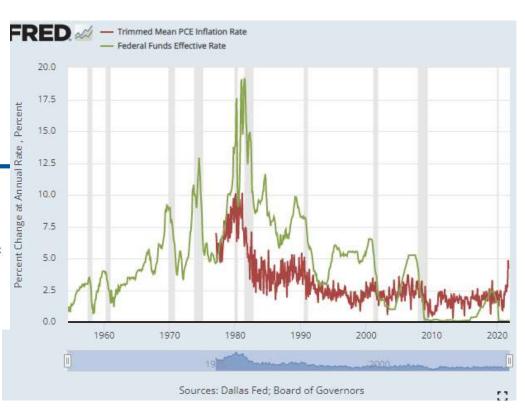
- KEY POINTS
- The Federal Reserve in a little over two months is expected to enact its first rate increase in three years.
- As officials prep for a return to more conventional monetary policy, Wall Street is watching closely.
- The Fed is responding to inflation pressures that are running by some measures — at the fastest rate in nearly 40 years.

THE WALL STREET JOURNAL.

MARKETS | STOCKS

Stocks Face Rockier Path in 2022 as Fed Rate Increases Loom

Though investors remain hopeful, many see increased threats to the pandemic-era rally, as the central bank starts removing support for the economy





The impacts of interest rate changes on US Midwest farmland values

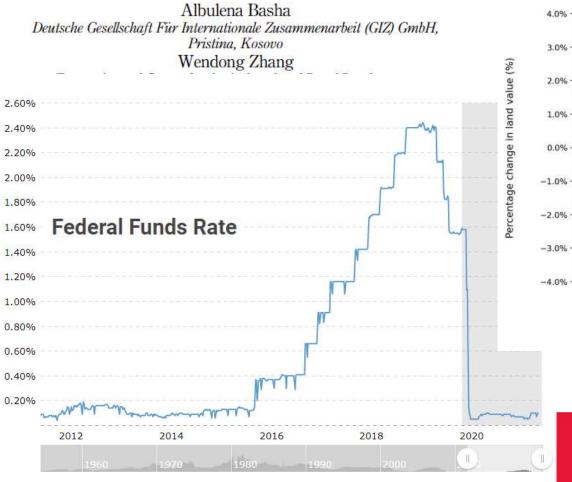
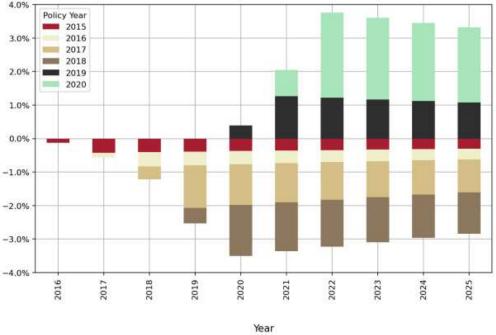


Fig. 3: The short- and long-term impacts of recent Federal Reserve interest rate moves on I-states' farmland values



https://doi.org/10.1108/AFR-11-2020-0163



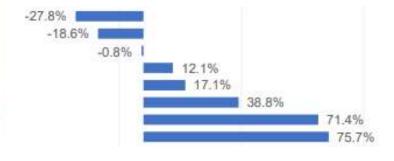
The relationship between inflation and farmland returns

October 2020

Bruce Sherrick, Ph.D., Director of the TIAA Center for Farmland Research and Fruin Professor of Farmland Economics

Table 2: Asset return characteristics, 1970 to 20196

Asset/Index	Annual average return	Standard deviation	Coefficient of variation	
		- 1970 - 2019		
U.S. ag 32 states	10.2%	6.5%	0.64	
U.S. equities	7.1%	16.5%	2.31	U.S. equities
European equities	6.1%	20.3%	3.35	European equities
U.S. corporate bonds	7.5%	2.6%	0.35	U.S. listed real esta
U.S. 10 year bonds	6.3%	3.0%	0.48	U.S. corporate bonds
U.S. 30 year mortgages	7.7%	3.6%	0.46	U.S. 10 year bonds Gold
U.S. listed real estate	10.9%	16.8%	1.53	CP
Gold	7.53%	22.2%	2.95	PP
PPI	3.40%	4.9%	1.44	
CPI	3.84%	2.8%	0.73	



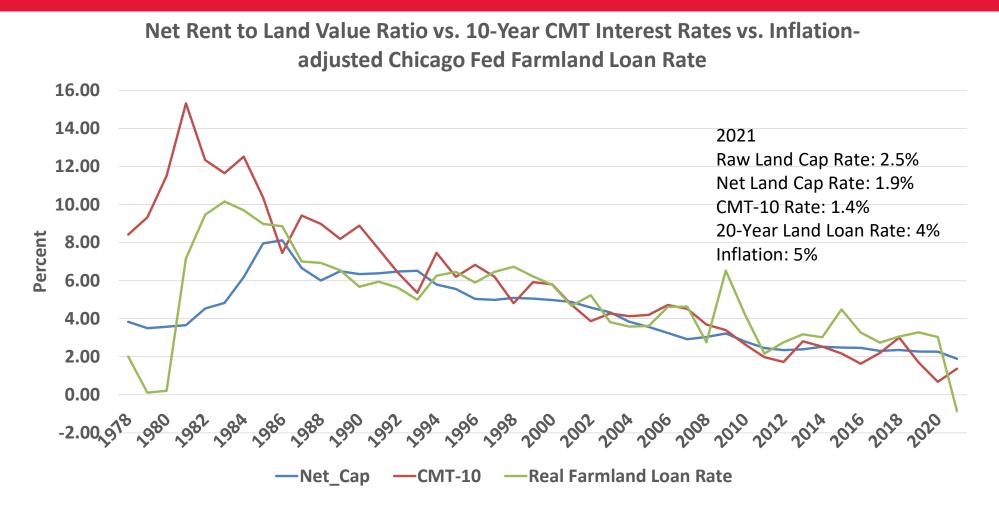
U.S. Equities: S&P 500 index; European equities: MSCI EAFE Index; U.S. corp

Corporate AAA rated bonds; U.S. 10 year bonds: U.S. 10 year Tr mortgages: Average rate on 30 year fixed rate mortgage; U.S. lis Figure 5: Three-year rolling geometric correlations with U.S. 32 state farmland Index; Gold: London Bullion Market Association Gold Price; PPI: Ireturns, 1970 to 20198

https://farmland.illinois.edu/research-briefs/

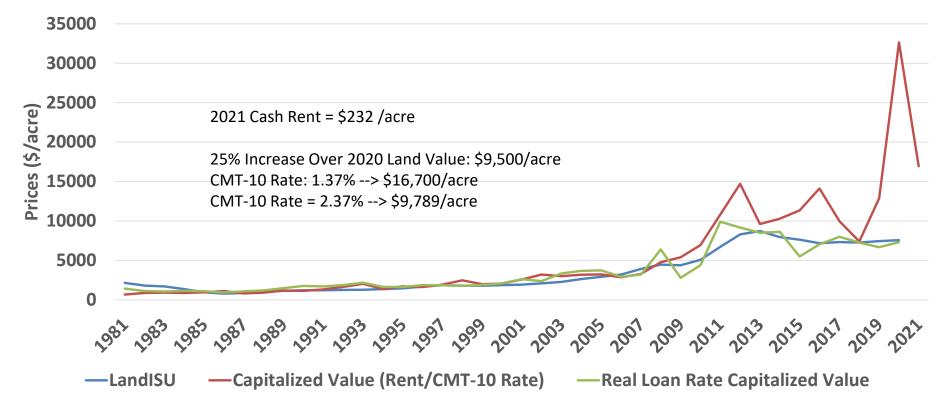
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

TIAA Center for Farmland Research





ISU Land Values vs. CMT-10 Capitalized Value vs. Real Loan Rate Capitalized Value



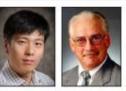


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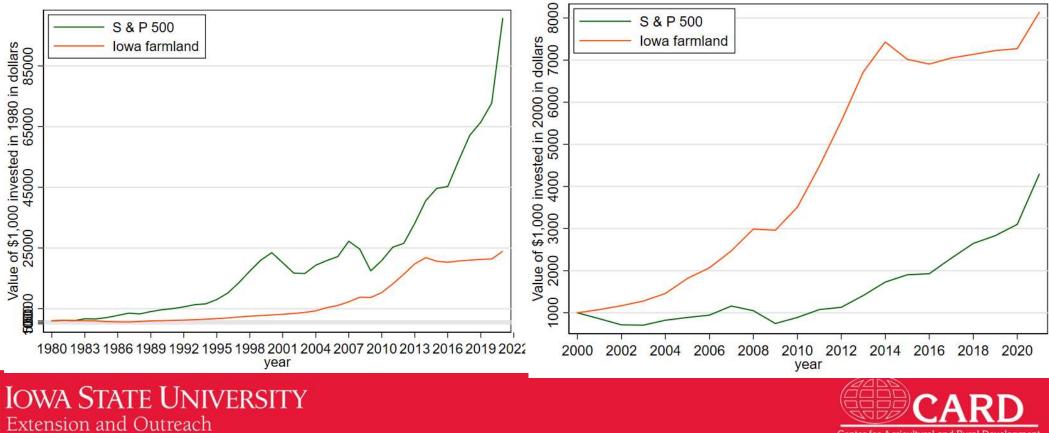
July 2019



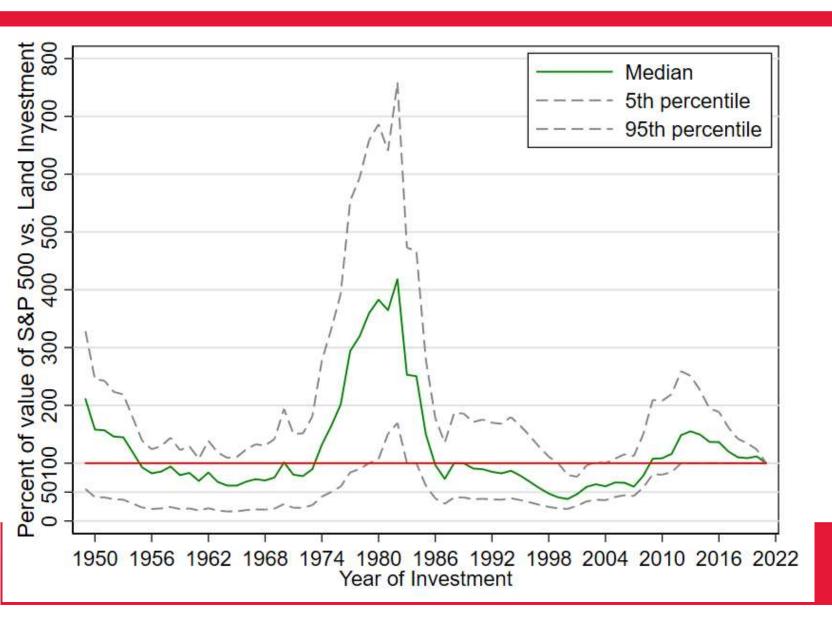


Comparing the stock market and Iowa land values: A question of timing

By Wendong Zhang, extension economist, 515-294-2536, wdzhang@iastate.edu and Mike Duffy, retired extension economist

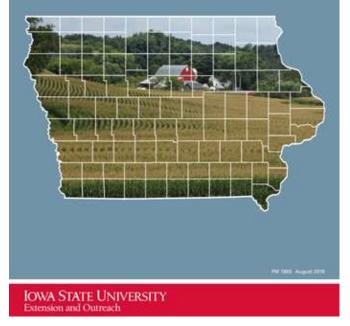


Center for Agricultural and Rural Developmen





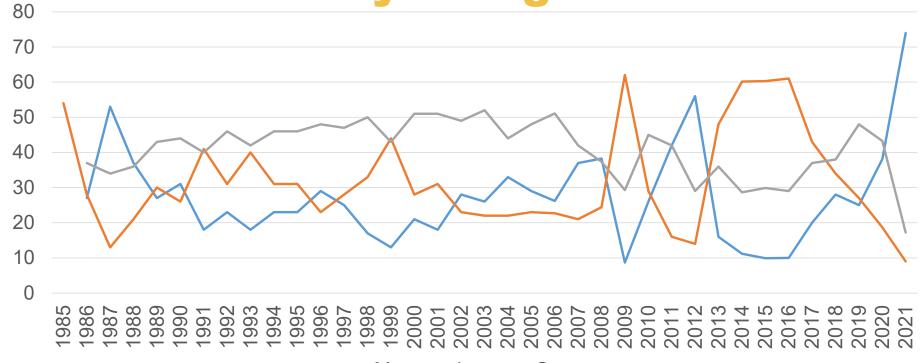
Iowa Farmland Ownership and Tenure Survey, 1982-2017: A Thirty-Five Year Perspective



- 82% of Iowa 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 landowners 80+ years old
- Ownership continues to shift from sole ownership to trusts and corporations
- 53% of Iowa 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

74% of respondents reported more sales than one year ago

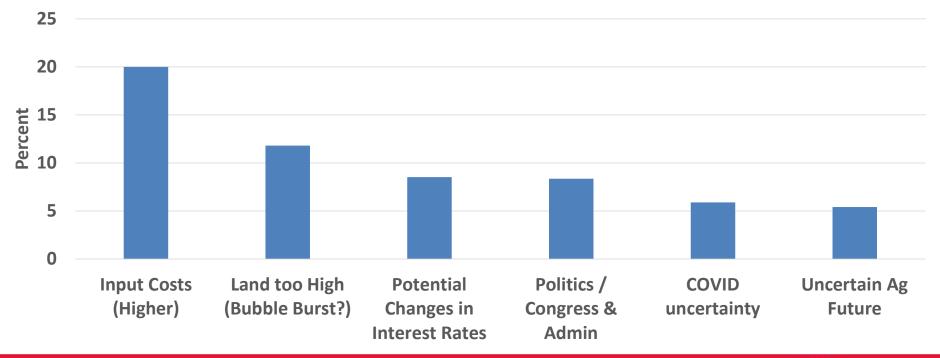


-More -Less -Same



Major Negative Factors Affecting Iowa Farmland Market, 2021

Negative Factors Affecting 2021 Farmland Market





the American Families Plan proposes taxing previously unrealized capital gain upon the transfer of appreciated property at death or by gift. This new tax never before implemented in the United States—would generally apply to gain exceeding \$1 million per person. The AFP proposes increasing the top marginal tax rate for ordinary income, taxing some capital gain at ordinary income tax rates, subjecting more income to the 3.8% Medicare tax, and taxing unrealized capital gain at death or upon gift. As proposed, the AFP would generally eliminate the tax-free step up in basis for capital gain exceeding \$1 million - So the first \$1 million would still receive a tax-free step up in basis, but the rest would receive the step up only after paying the tax

Married couple owning 722 acres jointly, \$519,561 new tax liability per spouse (bought land in 2005 at \$3k/acre)



The Tax Implications of the American Families Plan on Iowa Farmland Owners

Kristine Tidgren*, Dolezal Adjunct Assistant Professor, Agricultural Education & Studies Department, Director, Center for Agricultural Law and Taxation, Iowa State University, ktidgren@iastate.edu

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

https://www.card.iastate.edu/products/ publications/pdf/21pb35.pdf



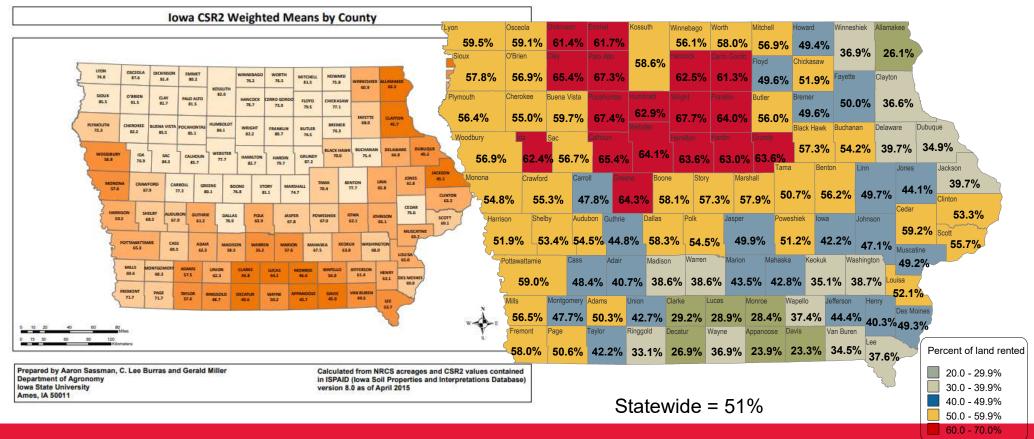


CSR2 by Crop Reporting District, 2021

	Re	eported Average CSR2	
	High Quality	Medium Quality	Low Quality
Northwest	89	80	67
North Central	85	75	61
Northeast	82	68	51
West Central	81	70	56
Central	86	75	60
East Central	86	71	54
Southwest	77	62	48
South Central	72	56	40
Southeast	82	68	49
STATE	83	70	55



CSR2 and Percent of land in farms rented out, 2017



IOWA STATE UNIVERSITY Extension and Outreach

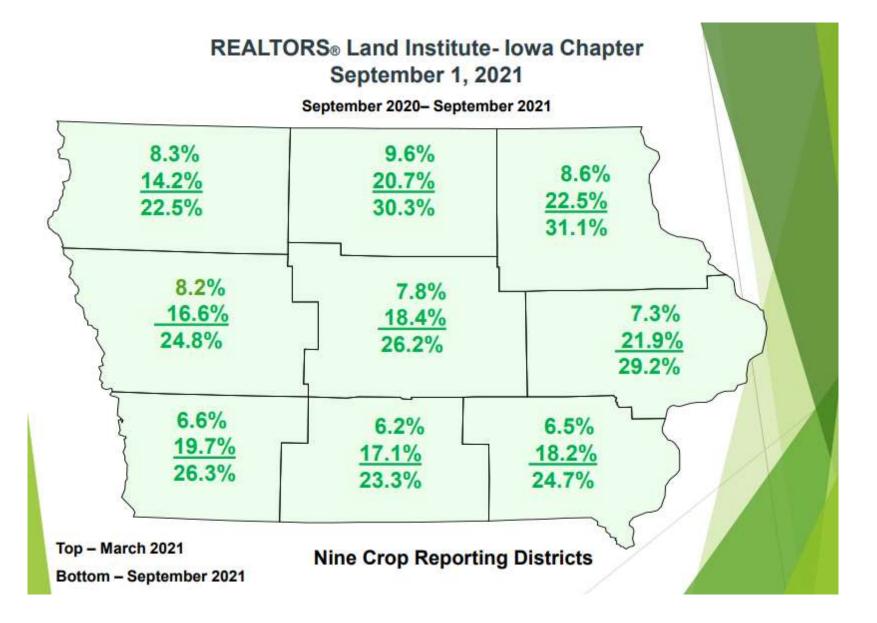
Source: 2017 USDA Census of Agriculture

Ag Decision Maker

CSR2 and % of Land Rented Out

	Report	ed Average C	SR2		mplied \$/CSR2	
	High Quality	Medium Quality	Low Quality	High Quality	Medium Quality	Low Quality
Northwest	89	80	67	\$168/CSR2	\$150/CSR2	\$130/CSR2
North Central	85	75	61	146	133	117
Northeast	82	68	51	148	141	138
West Central	81	70	56	154	141	132
Central	86	75	60	153	139	126
East Central	86	71	54	164	150	139
Southwest	77	62	48	120	113	107
South Central	72	56	40	121	110	103
Southeast	82	68	49	147	124	107
STATE	83	70	55	\$147/CSR2	\$134/CSR2	\$122/CSR2







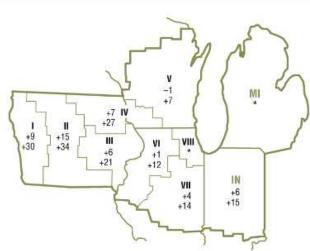
Federal Reserve Bank of Chicago

Midwest Farmland Values Surged in the Third Quarter

According to the most recent *AgLetter*, Seventh District farmland values in the third quarter of 2021 were 18 percent higher than a year ago—the largest year-over-year gain in nine and a half years. Values for "good" agricultural land in the third quarter of 2021 were 6 percent higher than in the second quarter.

Percent change in dollar value of "good" farmland

	July 1, 2021 to October 1, 2021	October 1, 2020 to October 1, 2021
llinois	+3	+13
Indiana	+6	+15
lowa	+10	+28
Michigan	*	*
Wisconsin	+1	+10
Sevent District	+6	+18



Top: July 1, 2021 to October 1, 2021 *Bottom:* October 1, 2020 to October 1, 2021

*Insufficient response.





Farmland Values Surge Alongside Strength in Agriculture

Agricultural credit conditions in the Tenth District remained strong in the third quarter and farm real estate values increased sharply.

November 15, 2021 | Agriculture | Ag Credit Survey



Federal Reserve Bank of Kansas City DENVER / OKLAHOMA CITY / OMAHA

Percent change from previous year *

	Nonirrigated	Irrigated	Ranchland
Kansas	9	20	14
Western Missouri	18	n/a **	25
Mountain States***	9	9	9
Nebraska	16	19	21
Oklahoma	9	n/a **	9
Tenth District	14	16	17

Percent changes are calculated using responses only from those banks reporting in both the past and the current quarters.

** Not reported due to small sample size.

*** Mountain States include Colorado, northern New Mexico and Wyoming, which are grouped because of limited survey responses from each state.



Land Values by County, 2021

Lyon 12,905	Osceola 11,911	Dickinson 11,061	Emmet 11,180	Kossuth	Winnebago 9,786	Worth 9,587	Mitchell 10,422	Howard 9,168	Winneshiek 9,467	Allamakee	
Sioux 13,701	O'Brien 13,713	Clay 11,586	Palo Alto 11.195	11,308	Hancock 10.390	Cerro Gordo	Floyd	Chickasaw			State Average
5					10,000	10,111	9,916	10,003	Fayette	Clayton	\$9,751
Plymouth	Cherokee	Buena Vista	Pocahontas	Humboldt 11.506	Wright	Franklin	Butler	Bremer	10,833	8,911)
12,416	11,730	12,222	11,686		11,535	10,406	10,422	-			5
Woodbury	Ida	Sac	Calhoun	Webster	Hamilton	Hardin	Grundy	Black Hawl	an in well	Delaware	Dubuque 10,425
9,318	11,21	11,987	11,897	11,323	11,821	10,960	11.724	11,757	10,930	11,572	10,425
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2	Pottawattamie	Cass	Adair	Madis	on Warren	Marion	Mahasi	ka Keoku	k Washing	Musca	tine .258
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	Mills 8,966	Montgomery 7,484	Adams 6,276	Union 6,510	Clarke 5,739	Lucas 5,340	Monroe 6,484	Wapello 6,923	7 045	lenry 8,369 Des Mo	5
	Fremont 8,147	Page 6,824	Taylor 5,756	Ringgold 5,745	Decatur 5,062	Wayne 5,405	Appanoose 5,116	Davis 6,302	Van Buren 6,745	.ee 9,0	
	5									8,499	Dollar Values
				-						2	\$7 ,000 or less

2021 Iowa Land Values







\$7,000 or less \$7,000-\$10,000 \$10,000-\$11,000 \$11,000-\$12,000 \$12,000 or more **20 counties** saw historically high land values in inflationadjusted terms

99 for nominal

IOWA STATE UNIVERSITY Extension and Outreach

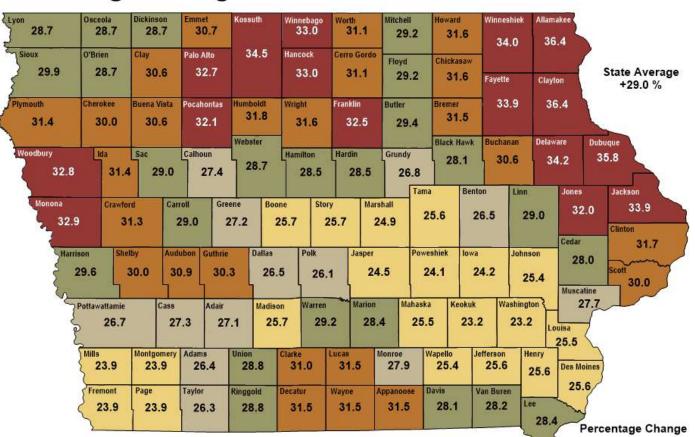
Lyon 12,905	Osceo 11,		Dickinso 11,0		Emmet 11,1		Kossut	th	Winnel 9,7	bago 86	Worth 9,5	87	Mitchel		Howard 9,1		Winnes 9,4		Allama	- 2		
Sioux 13,701	O'Brier 13,		^{Clay} 11,5	86	Palo Al 11,1		11,:	308	Hancoo 10,3		Cerro G 10, 1		Floyd 9,9		Chicka 10,0		Fayette		Clayto			State Average \$9,751
Plymouth 12,416	Cherol		Buena V 12,2		Pocaho 11,6		Humbo	506	Wright 11,		Franklir 10,4		Butler 10,4	122	Bremer 11,2	251	10,8		8,9		Y	
Woodbury 9,318	1		Sac 0 11,	987	Calhou 11	,897	Webste 11,:		Hamilto	on ,821	Hardin 10,	960	Grundy	/ 724 Tama	Black H		Bucha 10,	930	Delawa	572	Dubu 10,	425
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{	Mills 8,9		Montgo 7,48		Adams 6,27	76	Jnion 6,5	10	Clarke 5,73	9	<u>ucas</u> 5,34	0	lonroe 6,484	4	apello 6,923	3	fferson 7,04	5 8,	nry ,369	Des Mo 9,07	5	
¢	Frem 8, 1	ont 147	Page 6,82	24	Taylor 5,7		tinggol 5,74		Decatur 5,06		Wayne 5,40	-	5,11		^{avis} 6,302		an Bure 6,74	5 Lee	e 8,499	m	5	ollar Values
Center for		R	D ural			WA VIV												2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			\$7,000 or less \$7,000-\$10,00 \$10,000-\$11,0 \$11,000-\$12,0

Extension and Outreach

and Rural Development

S 000 .000 \$11,000-\$12,000 \$12,000 or more





Percentage Change in Iowa Land Values 2020 to 2021



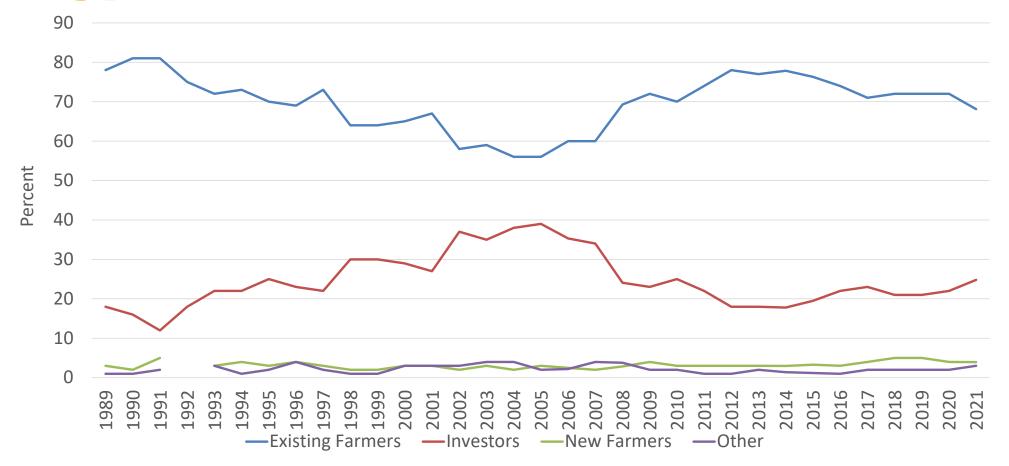


Percent Changes in Land Values from Nov 2020

Increase less than 26% Increase 26%–27.9% Increase 28%–29.9% Increase 30%–31.9% Increase 32% or more



Iowa Farmland Purchases by Buyer Types 1989–2021



Iowa Farmland Purchases by Seller Types, 2021

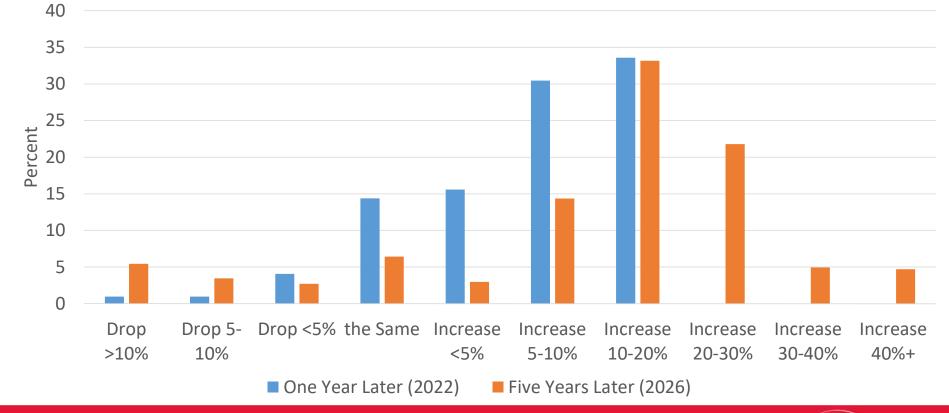
	Active Farmers	Retired Farmers	Estate Sales	Investors	Other
			PERCENT		
Northwest	4	18	66	8	4
North Central	8	19	60	12	2
Northeast	13	33	45	8	1
West Central	7	26	57	5	5
Central	8	26	54	9	3
East Central	9	25	54	9	3
Southwest	12	28	43	14	3
South Central	8	23	49	18	2
Southeast	7	26	57	6	3
STATE	9	24	54	10	3



One- and Five-year Cash Crop Price Predictions, 2021

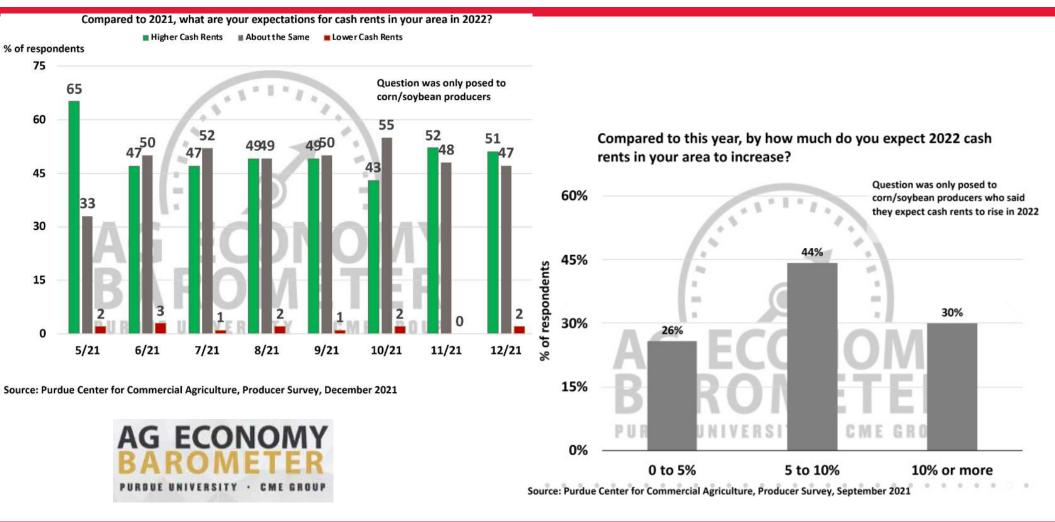
	Predicted Cas	h Corn Prices	Predicted Cash Soybean Prices					
	One Year Later	Five Years Later	One Year Later	Five Years Later				
Northwest	\$5.04	\$5.04	\$11.45	\$11.60				
North Central	\$5.07	\$5.13	\$11.34	\$11.67				
Northeast	\$5.25	\$5.29	\$11.95	\$12.32				
West Central	\$5.09	\$5.02	\$11.45	\$11.58				
Central	\$5.10	\$5.14	\$11.79	\$11.85				
East Central	\$5.22	\$5.33	\$12.27	\$12.29				
Southwest	\$4.99	\$5.26	\$11.50	\$11.50				
South Central	\$4.75	\$4.90	\$11.00	\$11.43				
Southeast	\$5.26	\$5.37	\$12.25	\$12.15				
STATE (2020 Prediction)	\$5.09	\$5.11	\$11.55	\$11.72				
2019 Prediction	\$3.	51 \$4.10	\$8.50	\$9.79				
2020 Prediction	\$3.	92 \$4.24	\$9.97	\$10.59				

Land value predictions for 2022 and 2026

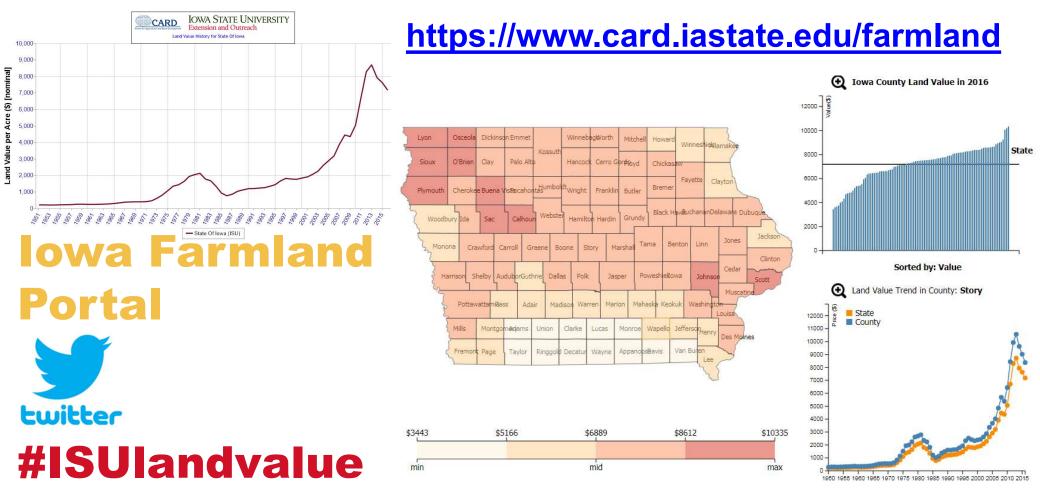














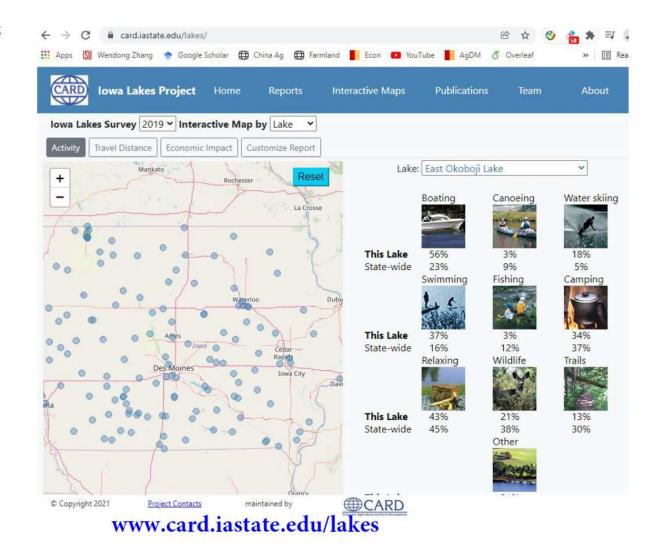
Questionnaire: <u>Iowa Lakes</u> <u>Survey 2019</u>

Survey Report: <u>Iowa Lakes Report</u> 2019

Summary

• Sixty-five percent of Iowa respondents reported at least one single-day trip, while about 20% reported taking at least one overnight trip.

- In 2019, Iowa households took around 9 million single-day trips across Iowa. The top-10 most visited lakes in 2019 were Clear Lake, Saylorville Reservoir, Ada Hayden Lake, Coralville Lake, Lake Macbride, Grays Lake, Big Creek Lake, Red Rock Lake, George Wyth Lake, and Lost Grove Lake, respectively.
- Respondents made most of their lake trips in the summer, and the top three activities selected by respondents were relaxing and/or picnicking, fishing, and nature/wildlife watching, respectively.
- On average, Iowa respondents took around 8 trips and traveled 48 miles to visit Iowa lakes in 2019; neighboring states' respondents took one trip and traveled 84 miles to visit Iowa lakes in 2019.
- We estimate that the total statewide expenses from all single-day trip takers was \$1.023 billion, or an average of \$7.4 million per lake.



FINDING FIRMER GROUND: The Role of Agricultural Cooperation in U.S.-China Relations

A Report by the US Heartland China Association and The Carter Center

September 202



Dr. Minghao Li Assistant Professor Economics, Applied Statistics, and International Business Department New Mexico State University

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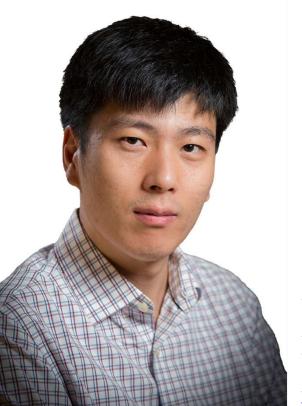
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2019 ISU Land Value S

2019 ISU Land Value Survey

The 2019 SIJ Land Value Survey shows a 3.3 percent increase in average lowa familard values from November 2018 to November 2019. The average statewide value of an acre of familand is now estimated at \$7,432. This modest increase, which barely exceeds the pace of inflation, is the second rise over the past six years, but still represents a 15 percent docrease from the 2013 peak in nominal land values, or a 25 percent docreased values.

2017 Iowa Farmland Ownership & Tenure Survey Paper Copy Available for Order (\$5 0

The new, 60-page 2012 lows Farmland Conneship and Tenure Survey report is available for order at the Extension Store #2 for only \$5 each paper copy. This is a unique survey across the nation which provides statistically representative information on many aspects of land ownership, tenure and transitions in Iowa. For example, the survey finds that 60% of Iowa land is owned by people 65 years or older, 82% of Iowa land is owned free of debt, and 29% of all acres is primarily owned for family or sentimental reasons.

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Ames, Iowa 50011-1054	© Copyright 2020 CARD	Since November 2018, China has reduced its hog and sow
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Xi He and Wendong Zhang. 2020. "Implications of 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 re Tree Nats

exporting port, plays a large intermediary role in US-China trade, and the revocation of its special status may provoke China into taking retailatory 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 <u>African Swine Fever.</u>" *Agricultural Policy Review*. Center for Agricultural and Rural Development, Towa State University.

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