

2020 FARMLAND UPDATE

RANDY HERTZ

Randy.Hertz@Hertz.ag

800.593.5263

www.Hertz.ag







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- Professional Farm Management
- Farmland Sales & Acquisitions
- Farmland Auctions
- Farmland Valuations



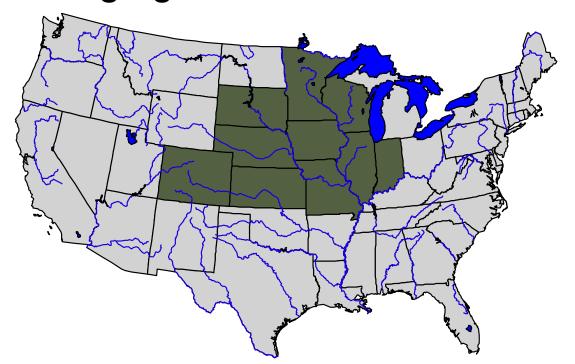








- 2019 Appraised 745 Properties… 112,000+ Acres
- 2019 Sold 293 Farms... 30k+ acres... >\$212mm
- 2019 Managing 2,600+ Farms & 573,000 Acres







Today's Agenda

1. Discuss Farmland Issues

2. Discuss Major Forces in the Farmland Market

3. Discuss Current Farmland Market





Climate Change













What is Changing

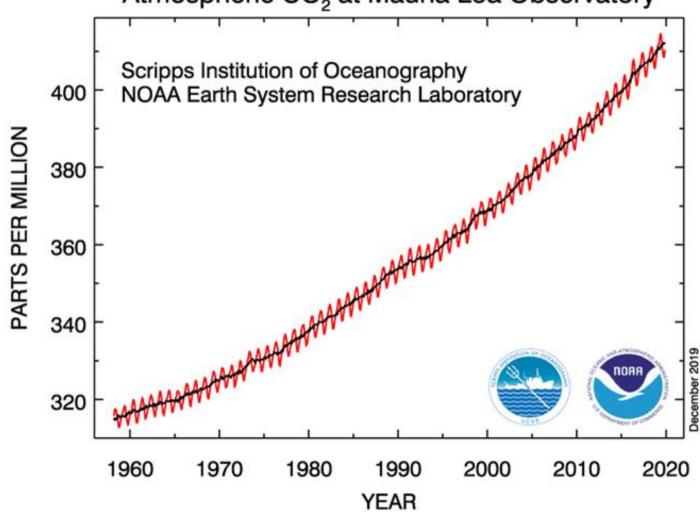
- Carbon dioxide
- Water vapor (humidity)
- Temperature
- Precipitation





Carbon Dioxide Changes



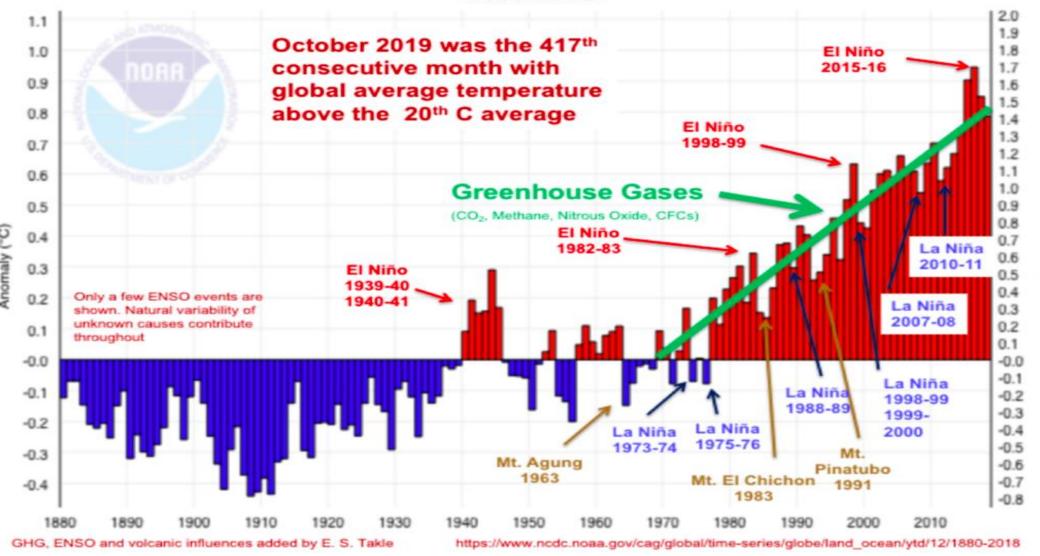






Ocean Temperature

Annual Global Land and Ocean Temperature Anomalies from 20th C Average 1880-2018







Cooler Warm Days and Warmer Cold Days

Change in Coldest Temperature of the Year 1986-2016 Average Minus 1901-1960 Average Difference (°F) <-6 -6 to -4 -4 to -2 -2 to 0 0 to 2 2 to 4 4 to 6 Change in Warmest Temperature of the Year 1986-2016 Average Minus 1901-1960 Average Difference (°F) ● -6 to -4 ─ -4 to -2 -2 to 0 0 to 2 2 to 4 4 to 6

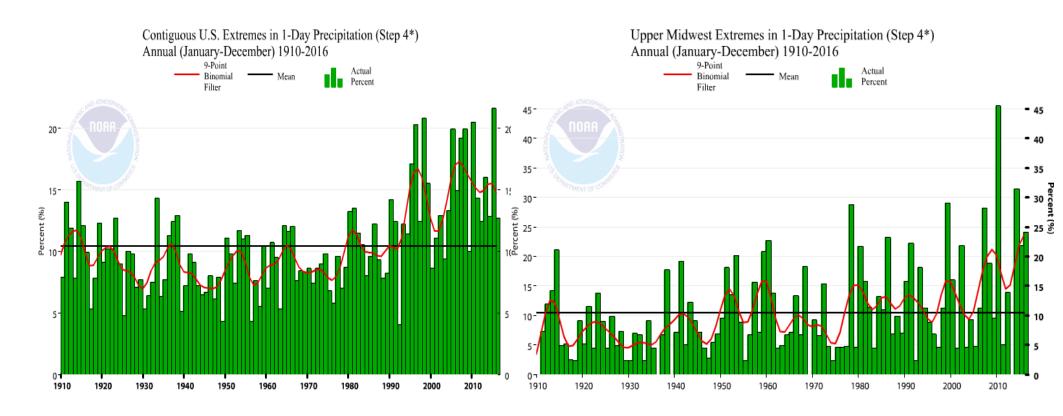
CSSP

NCA Region	Change in Coldest Day of the Year	Change in Warmest Day of the Year
Northeast	2.83°F	-0.92°F
Southeast	1.13°F	−1.49°F
Midwest	2.93°F	-2.22°F
Great Plains North	4.40°F	−1.08°F
Great Plains South	3.25°F	−1.07°F
Southwest	3.99°F	0.50°F
Northwest	4.78°F	−0.17°F



>6

Extreme Precipitation









Erosion – Protect Soil from Big Rains











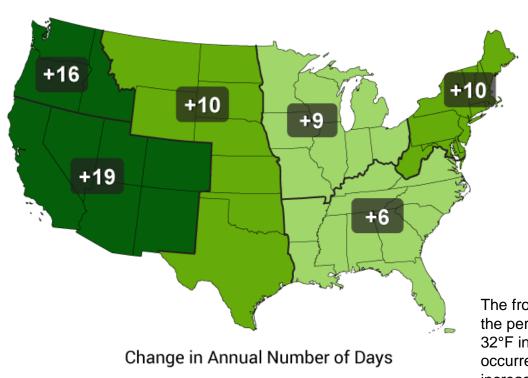






Longer Growing Seasons

Observed Increase in Frost-Free Season Length



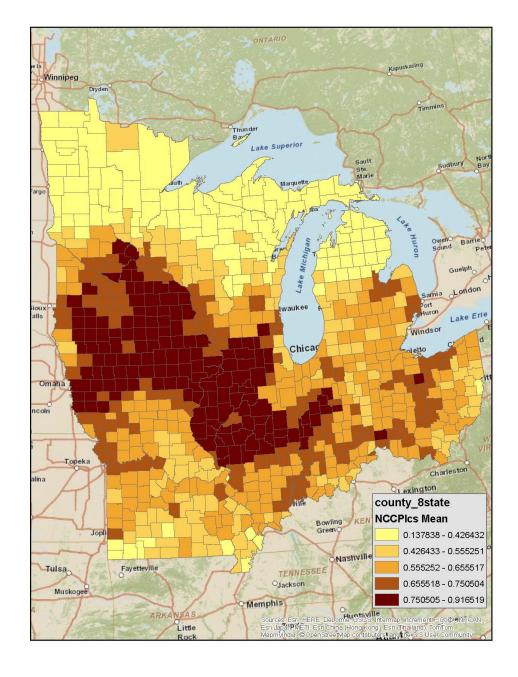


The frost-free season length, defined as the period between the last occurrence of 32°F in the spring and the first occurrence of 32°F in the fall, has increased in each U.S. region during 1991-2012 relative to 1901-1960. Increases in frost-free season length correspond to similar increases in growing season length. (Figure source: NOAA NCDC / CICS-NC).





Location of Most Productive Soil







Low Interest Rates & Cap Rates – Surplus Capital



Note: Shaded area indicates U.S. recession





Forces Affecting Land Values

- Low Interest Rates and Attractive Borrowing Rates
 - Fixed Interest Rate Farm Mortgages

• 3 year 3.83%

• 5 year 3.90%

• 10 year 4.21%

• 15 year 4.45%

• 20 year 4.62%

• 25 year 4.74%

• 30 year 4.82%

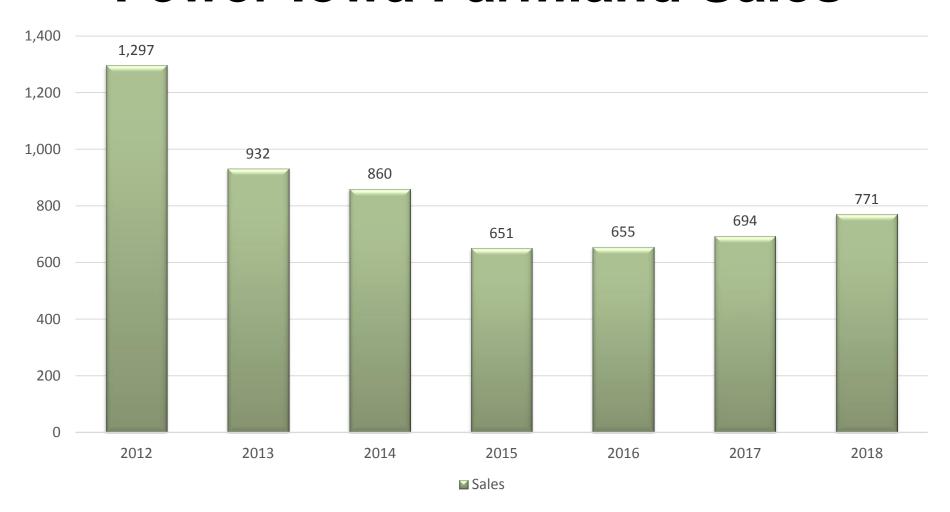


New Loans and Refinancing at Great Rates





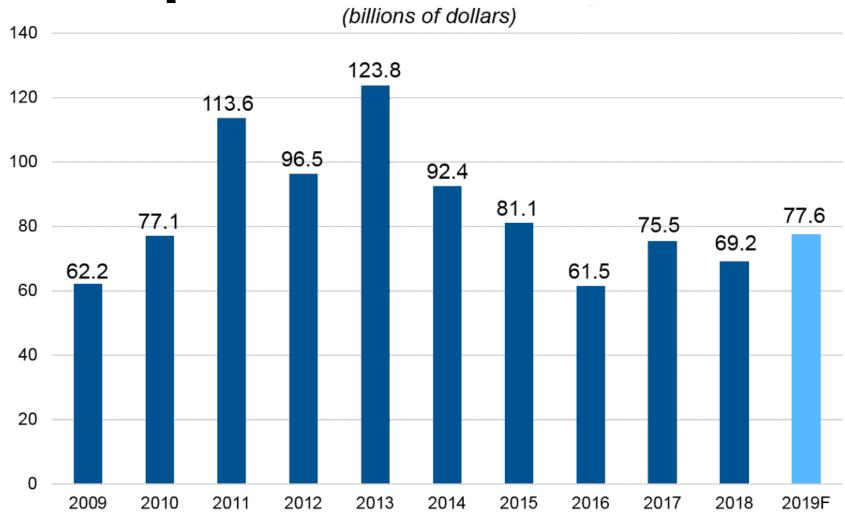
Few Quality Farms for Sale – Fewer Iowa Farmland Sales







Drop In Net Farm Income

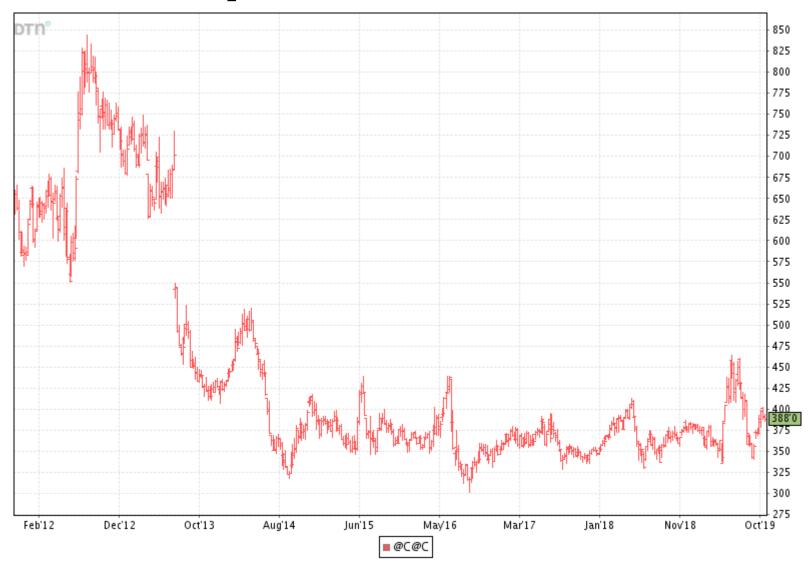


'F' represents the forecast as of Feb. 2019.



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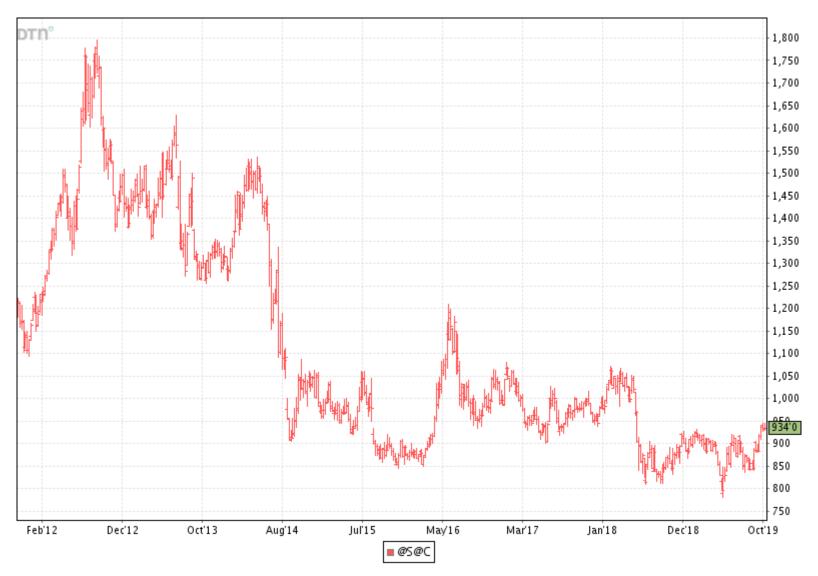
Drop In Corn Prices







Drop In Soybean Prices







Tariffs Disrupt Trade – Especially China

Destination	Calendar 2017	Calendar 2018	Q1- 2019	% change vs. Q1-2018
China/Hong Kong	23.7	13.1	3.4	-38%
Canada	20.6	20.7	4.9	1%
Mexico	18.6	19.0	4.5	3%
EU-28	11.4	13.5	3.4	8%
Japan	11.9	12.9	3.2	2%
South Korea	6.9	8.3	2.1	2%
Taiwan	3.3	3.9	0.8	-2%
Indonesia	2.9	3.1	0.8	1%
Philippines	2.6	3.0	0.7	-8%
Vietnam	2.5	4.0	1.0	5%
Colombia	2.5	2.9	0.7	-9%
All Others combined	31.2	35.1	8.8	5%
Total:	138.2	139.6	34.3	-3.5%

Source: USDA GATS



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NAFTA Dead-USMCA

Hopefully approved soon...





Source: ISU - Chad Hart / USDA-FAS



Crop Insurance

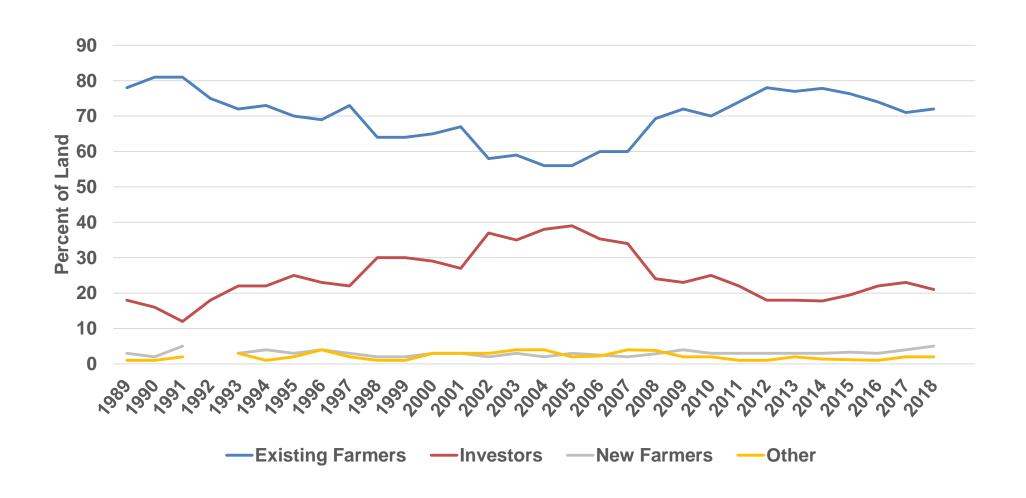
	2011	2012	2013	2014	2015	2016	2017	2018	2019
Corn									
Projected Price	6.01	5.68	5.65	4.62	4.15	3.86	3.96	3.96	4.00
Harvest Price	6.32	7.50	4.39	3.49	3.82	3.49	3.49	3.68	N/A
Soybeans									
Projected Price	13.49	12.55	12.87	11.36	9.74	8.85	10.15	10.16	9.54
Harvest Price	12.14	15.39	12.87	9.65	8.91	9.75	9.75	8.60	N/A



Source: FarmdocDaily



Who Is Buying Iowa Farmland?







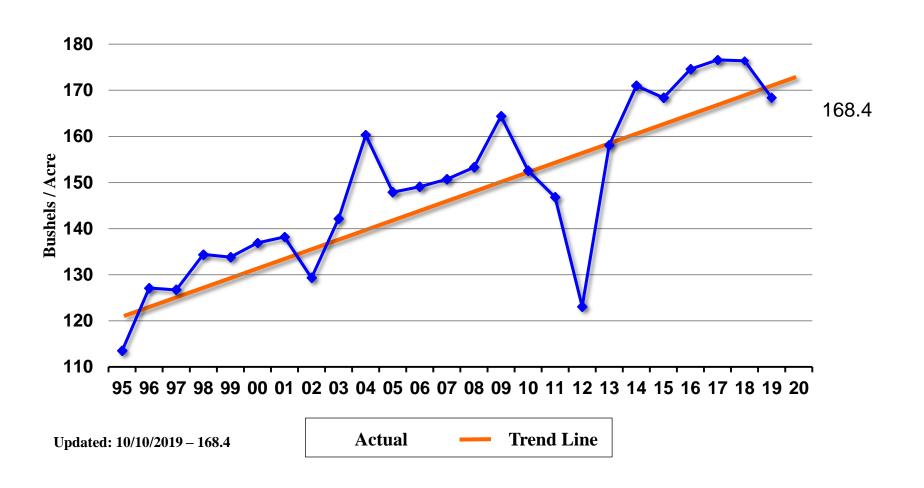
Key Factors

- Trade Tariffs
 - USMCA
 - · China
- Economic growth
- U.S. dollar
- Crude oil
 - Conflict in the Middle East
- Conservation Reserve Program
 - Increase from 24 to 27 million acres by 2023
- Asset prices
 - Equities due for a correction?
- Brexit Impact
- Population Growth
 - Population of 9 billion by 2050





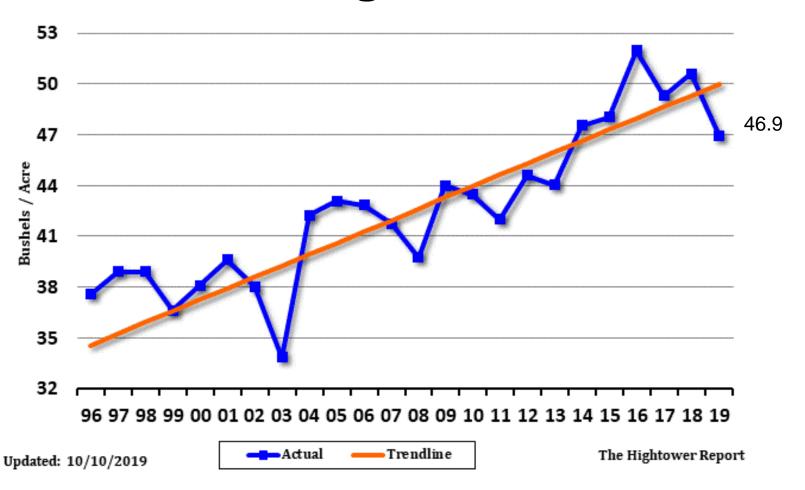
Great Corn Yields – and Getting Better







Great Soybean Yields – and Getting Better







Farmland Values

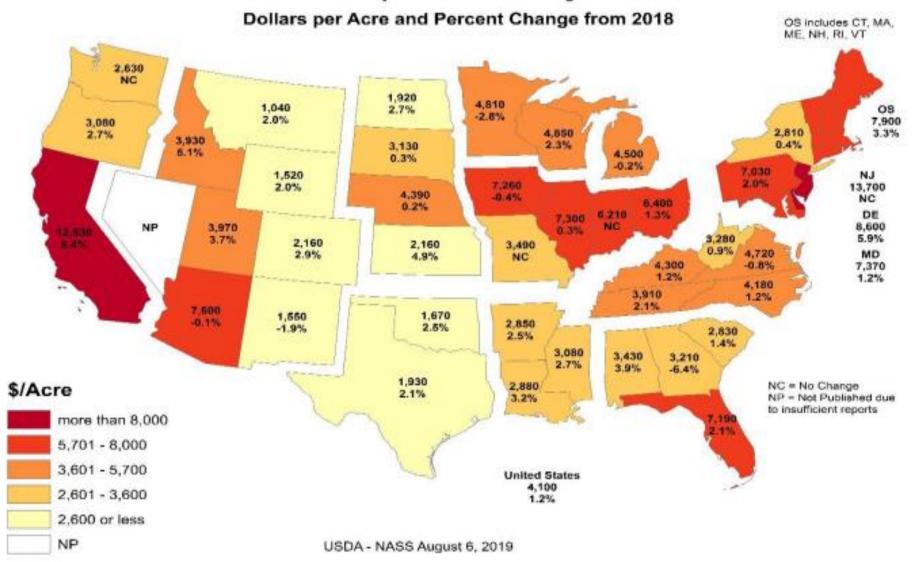
Farmland values are a barometer of the economic health and wealth of the farming economy.







2019 Cropland Value by State







Chicago Federal Reserve Study

Percent Change in Dollar Value of "Good" Farmland

July 1, 2019

October 1, 2019

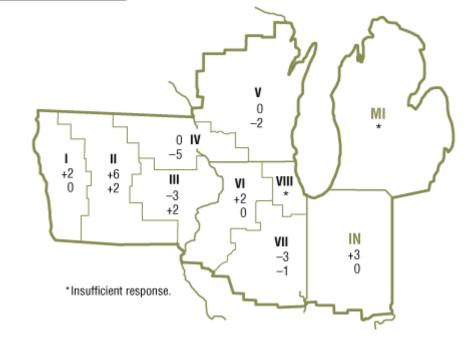
October 1, 2018

to

October 1, 2019

Illinois	-1
Indiana	+3
Iowa	+2
Michigan	*
Wisconsin	0
Seventh District	+1

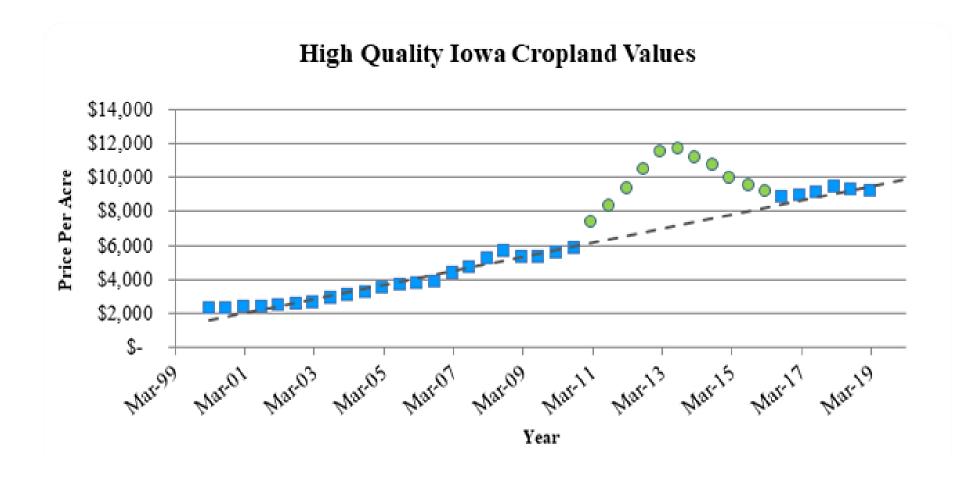
-1 0 0 * -2 -1







High Quality Iowa Cropland Values



Data is from Iowa Realtors Land Institute surveys

Analysis by Hertz Appraisal Services





Iowa REALTORS® Land Institute

September 2018 – March 2019 -1.0%

March 2019 – September 2019 +0.8%

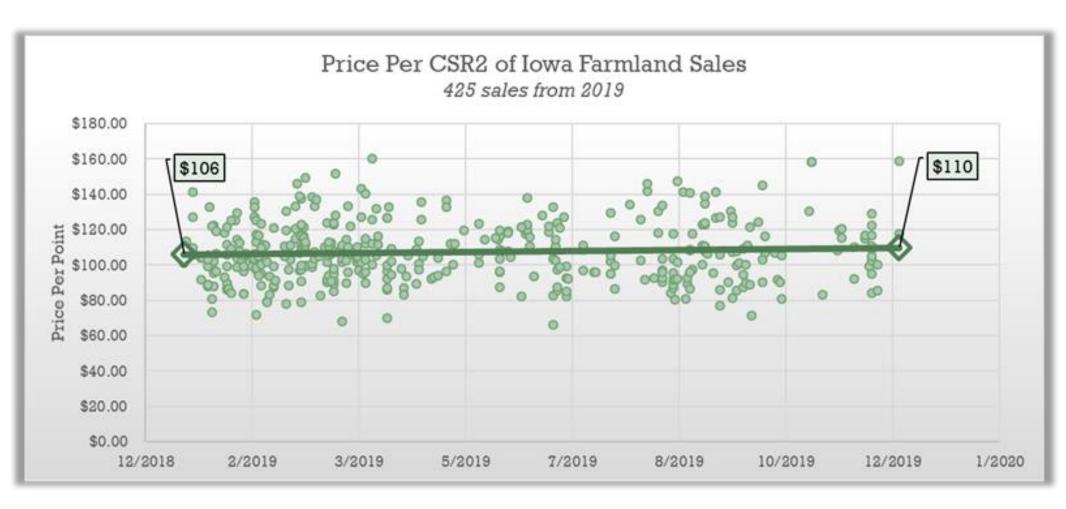
September 2018 – September 2019 -0.2%







Price per CSR2 per Crop Acre



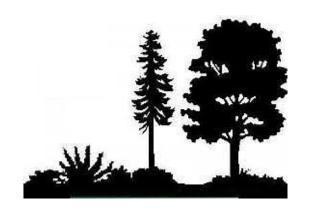
Analysis completed by Hertz Appraisal Services





Demand v. Supply

- Demand for Recreational Land
- Demand for Home Sites
- Demand for Development Land







Farmland: Financial Performance

Table 1. Asset Return Characteristics

	Annual Ave.	Standard	Coefficient			
Asset/Index	Return	Deviation	of Variation	Correlation		
	1970 - 2017					
US Ave Farm (all)	10.15%	6.46%	0.637	1		
S&P500	7.02%	16.47%	2.347	-0.261		
NASDAQ	10.09%	24.89%	2.467	-0.145		
EAFE	6.32%	20.37%	3.222	-0.228		
AAA	8.71%	2.79%	0.320	0.064		
TCM10Y	6.48%	2.97%	0.458	0.163		
Mort30F	8.07%	3.29%	0.408	0.135		
All REITS	9.08%	19.90%	2.191	-0.135		
Gold	7.51%	22.56%	3.006	0.300		
CPI	3.91%	2.83%	0.724	0.663		

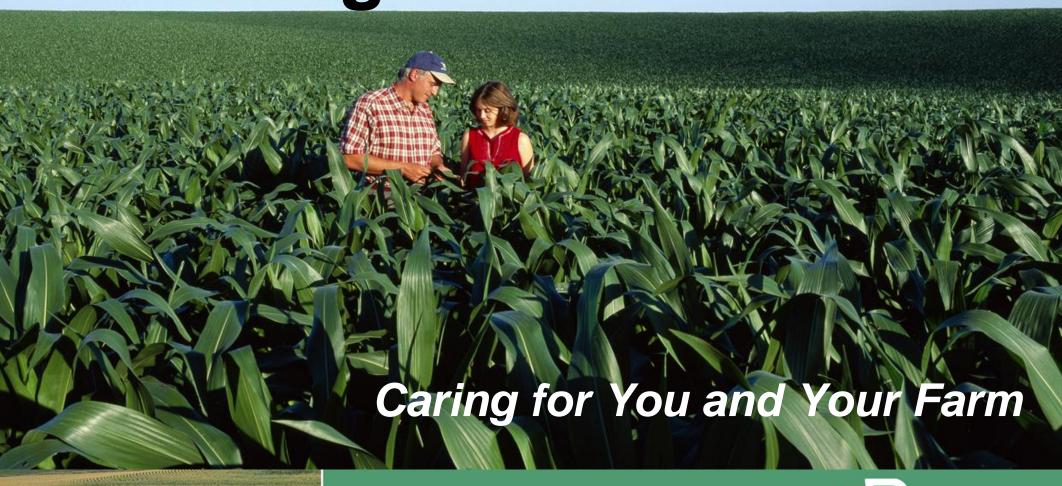


Source: University of Illinois



Questions?

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