PURDUE CENTER FOR COMMERCIAL AGRICULTURE

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What Do Farmers Have to Say About the Ag Economy?

That's where the Purdue-CME Group Ag Economy Barometer comes in Each month we ask 400 farmers across the nation about

- Conditions on their farm today
- Expectations for future conditions on their farm
- Short-run & longer run expectations for U.S. Ag Economy
- Desirability of making big investments now
- Responses to questions above are used to calculate the Ag Economy Barometer
- Additional questions posed each month to learn more about drivers of sentiment



Who Do We Focus Our Nationwide Surveys On?

Value of Production	% of Farms	% of U.S. Production
Less than \$500,000	92%	19%
\$500,000 - \$999,000	4%	14%
\$1,000,000 - \$2,499,000	3%	23%
\$2,500,000 - \$4,999,000	1%	13%
\$5,000,000 or more	< 1%	32%
	8%	81%

U.S. Farms by Value of Production

Source: U.S. Department of Agriculture, 2012 Census of Agriculture



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What Are Farmers Telling Us About The Ag Economy? Ag Economy Barometer Survey Details

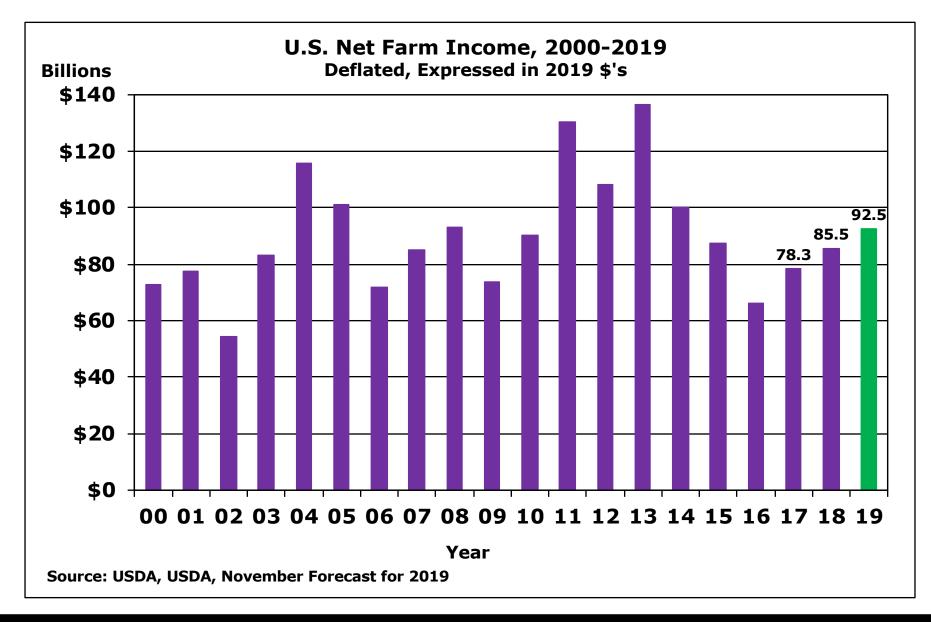
Monthly phone survey of 400 U.S. agricultural producers, focused on major crop & livestock enterprises	Survey Respondents By Enterprise Every Month	
Not come producers each menth, but characteristics of	Corn/Soybeans	53%
Not same producers each month, but characteristics of survey sample are held constant from month-to- month	Beef	19%
	Wheat	14%
Respondents value of production is <u>></u> U.S.\$500,000	Hogs	6%
Respondents further stratified by enterprise based on	Dairy	5%
USDA's Census of Agriculture	Cotton	3%
Representative of U.S. producers that provide vast majority of U.S. agricultural production		100%
Survey accuracy is +/- 5% @ 95% confidence level for population we sample	%'s are minimum targets since some farms are engaged in more than 1 enterprise	

Report released on 1st Tuesday of each month

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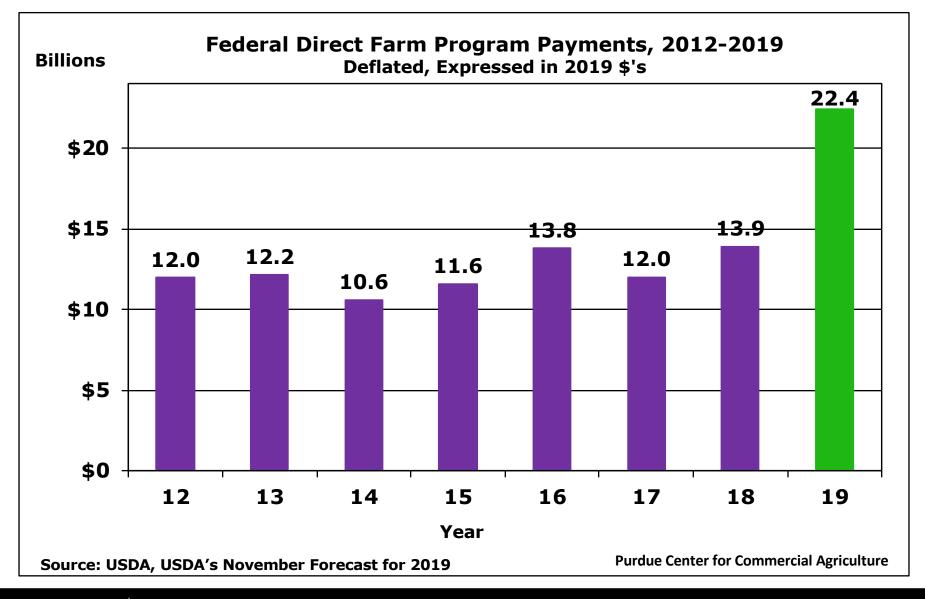
USDA Forecasts 3% Increase in Inflation Adjusted Net Farm Income



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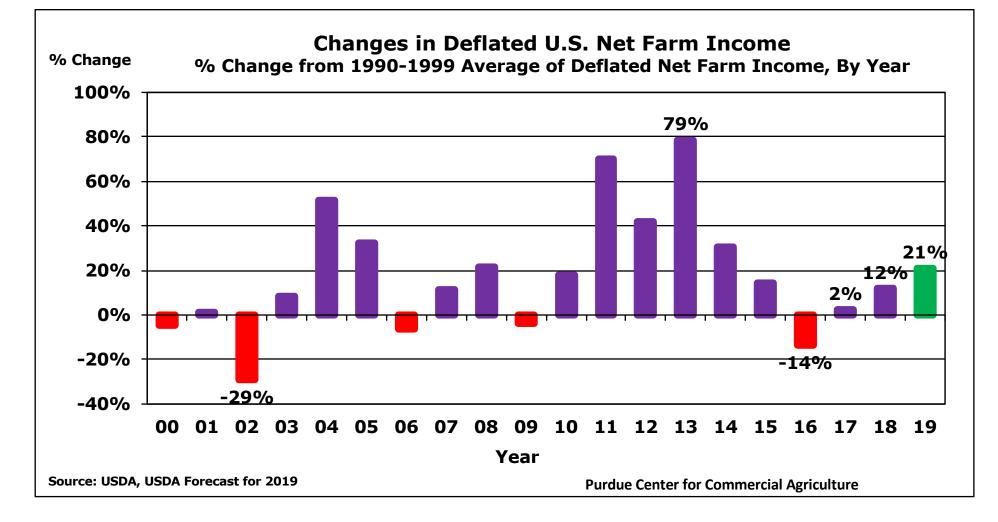
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But 2019 Income Would Decline Without An Increase in Government Payments Inflation Adjusted Government Payments Up 61% in 2019



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Some Perspective on Farm Income Comparing the 2000s to the 1990s

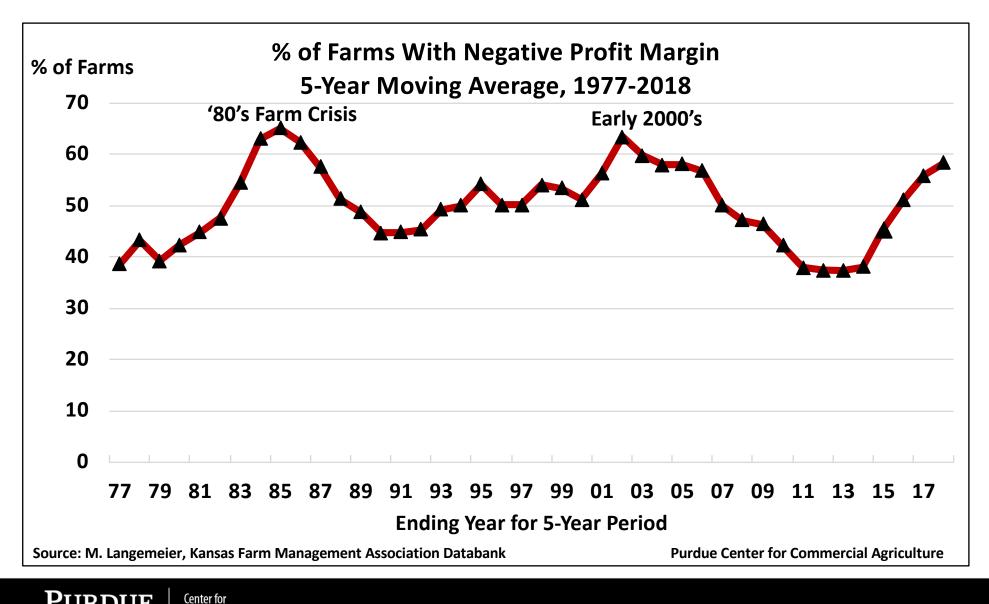


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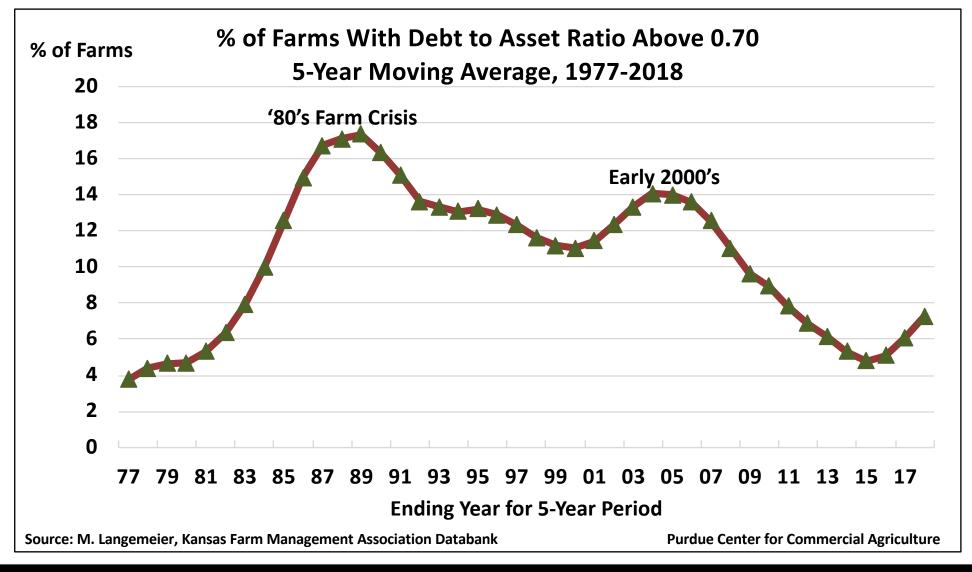
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More Farms With Negative Profit Margins



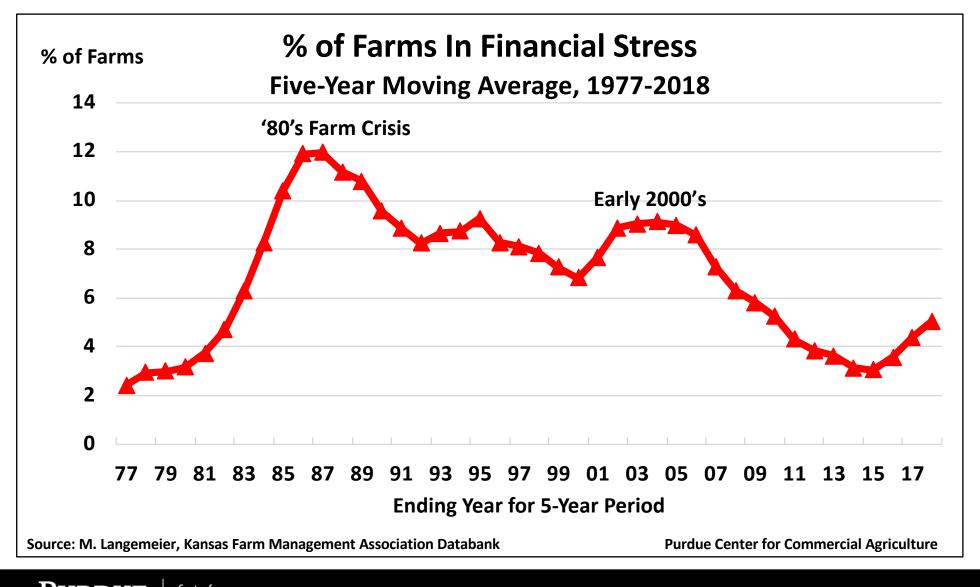
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% of Farms With High Debt/Asset Ratios Climbing But Remains Lower Than In The Past

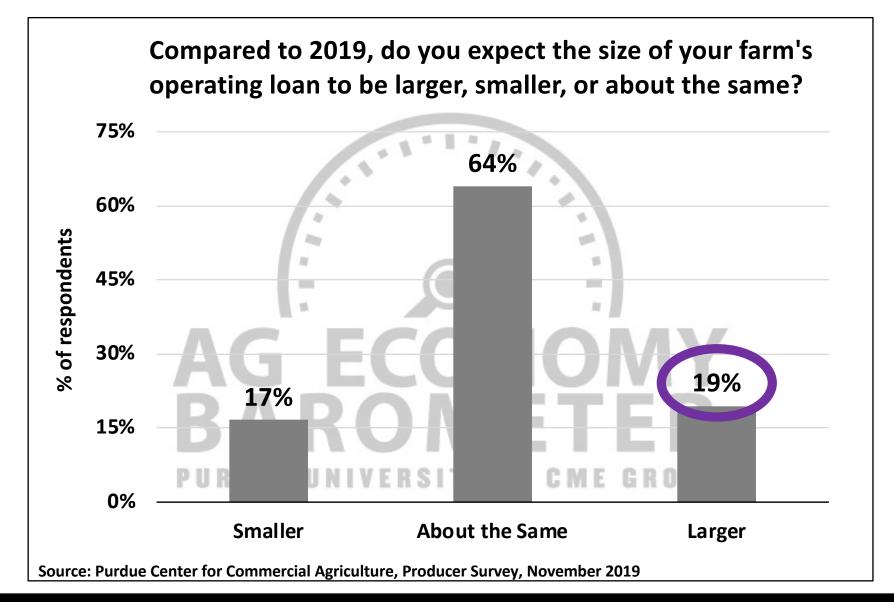


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And Farms in Financial Stress Climbing But Remains Below Most of the Last 3 Decades

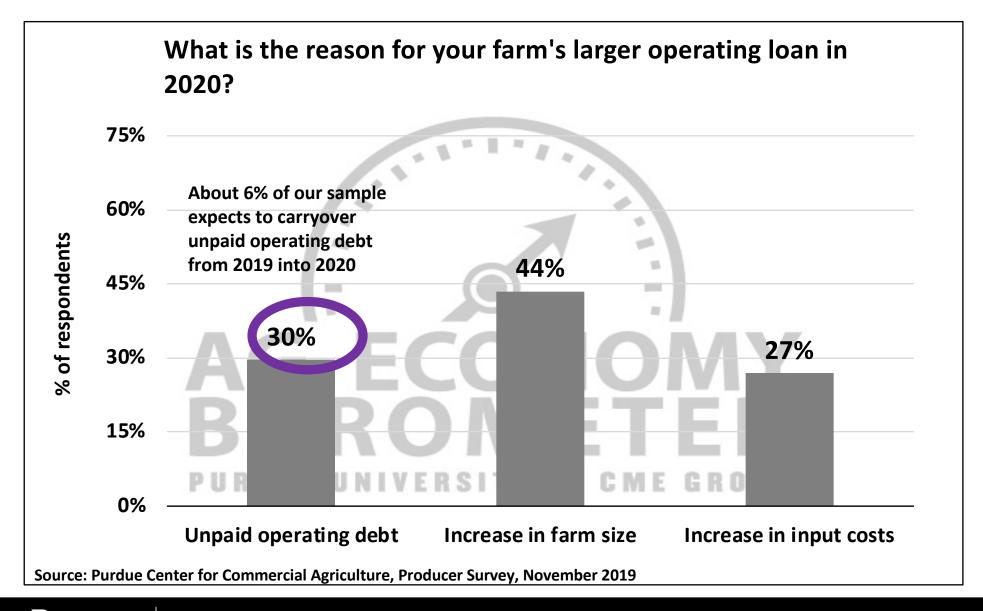


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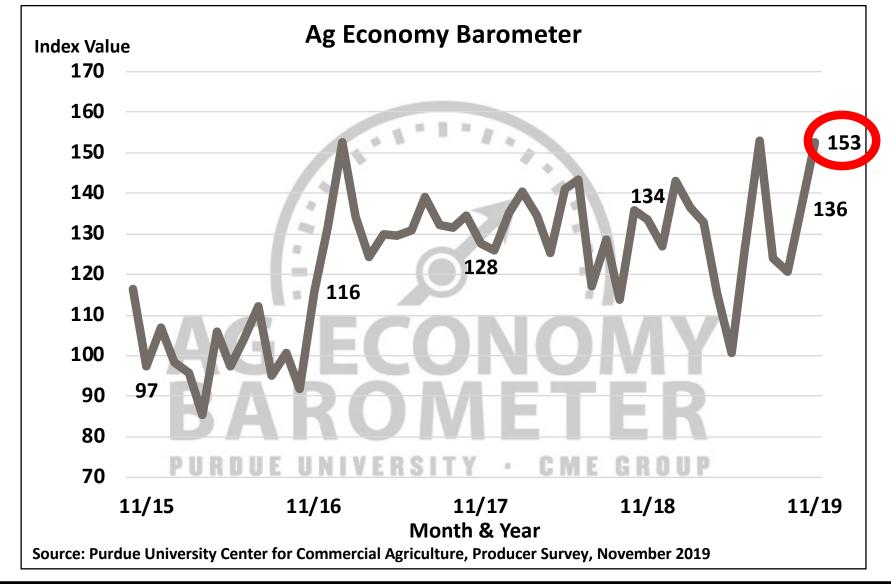
Carrying Over Operating Debt Is A Sign of Financial Stress



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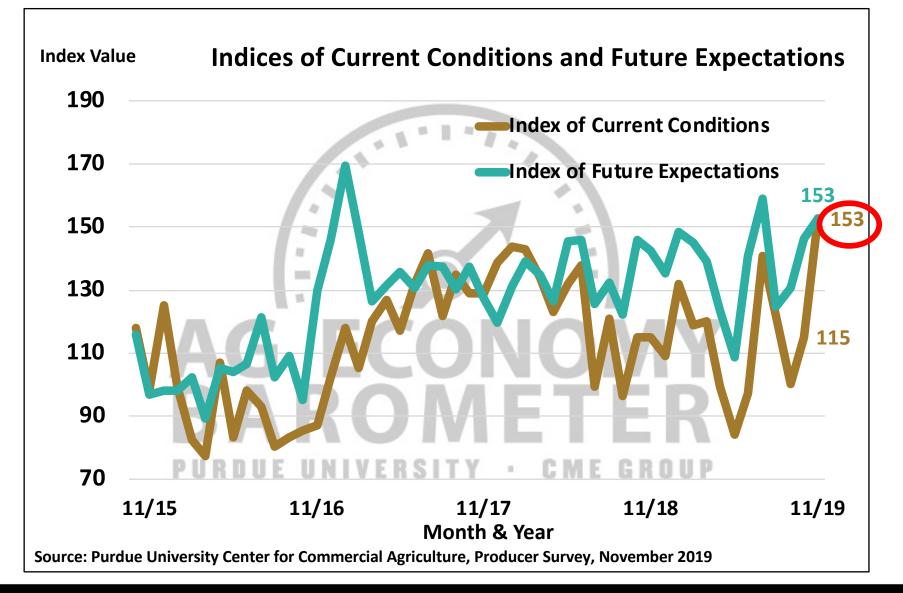
November Purdue-CME Group Ag Economy Barometer

Most Recent Survey Conducted in Mid-November, Report Released on Dec. 3



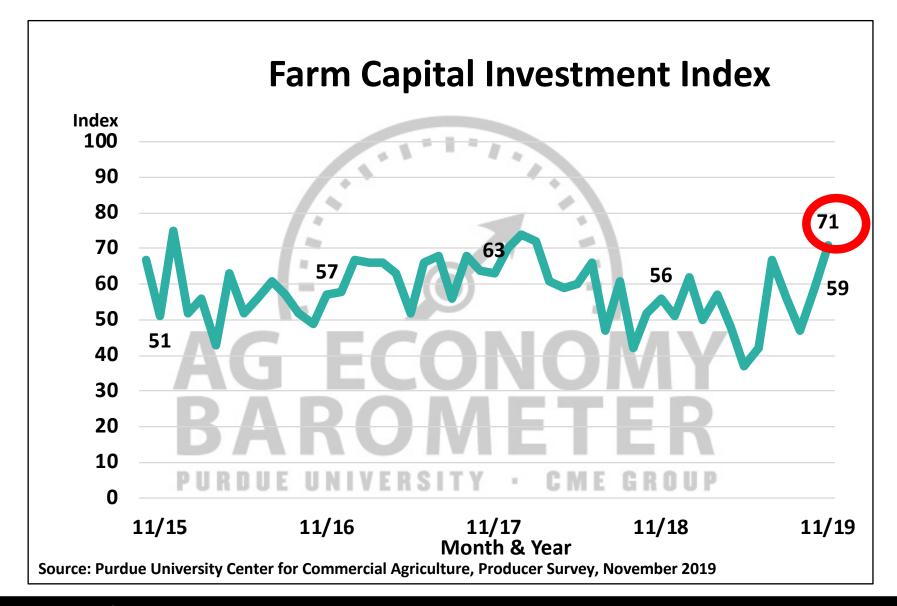


As Fall Harvest Wrapped Up Farmers Became More Optimistic About Both the Future & Especially Current Conditions



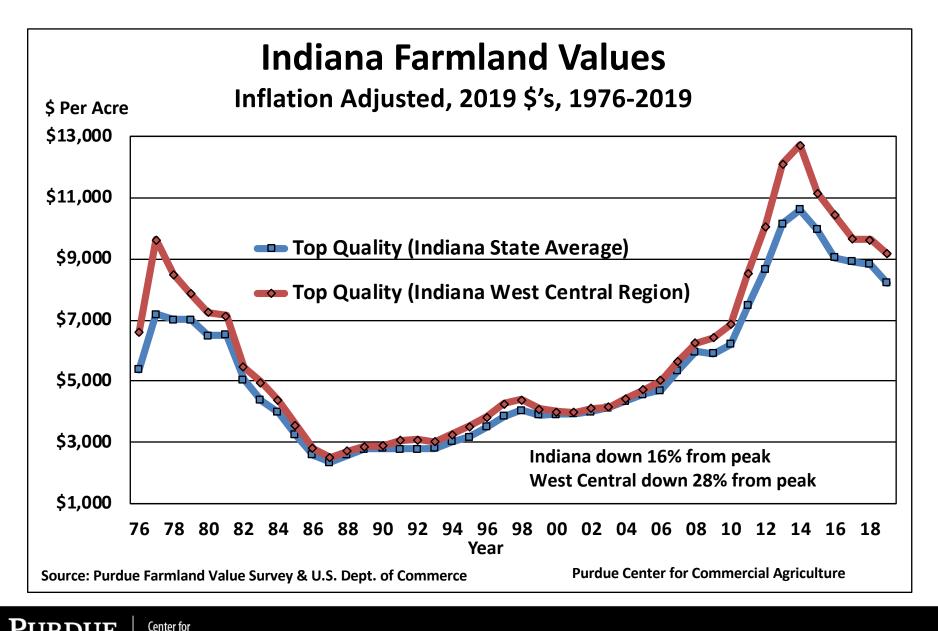


Farmers Interest in Making Capital Investments Improved Again in November



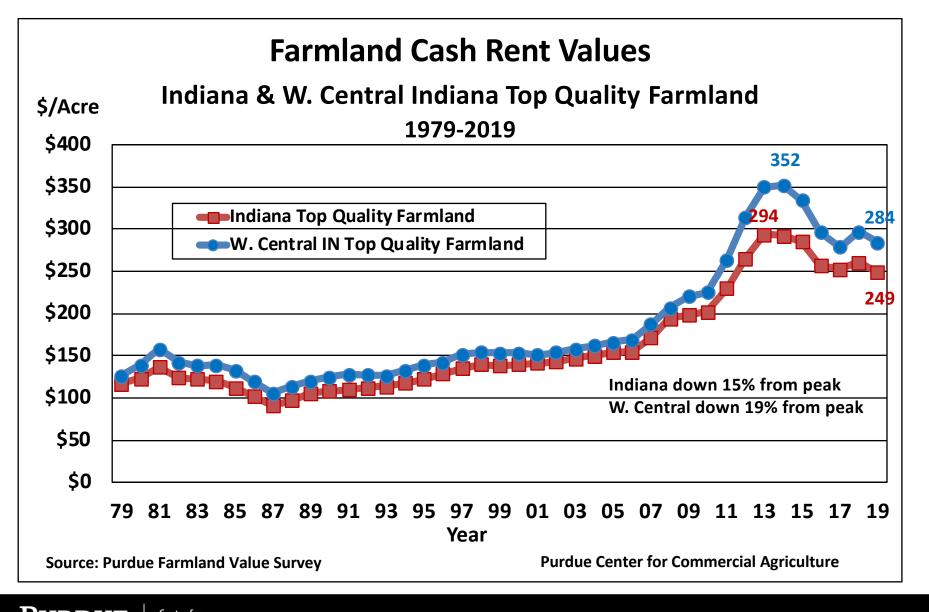
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Top Quality Farmland Values Weakened in 2019 vs. 2018



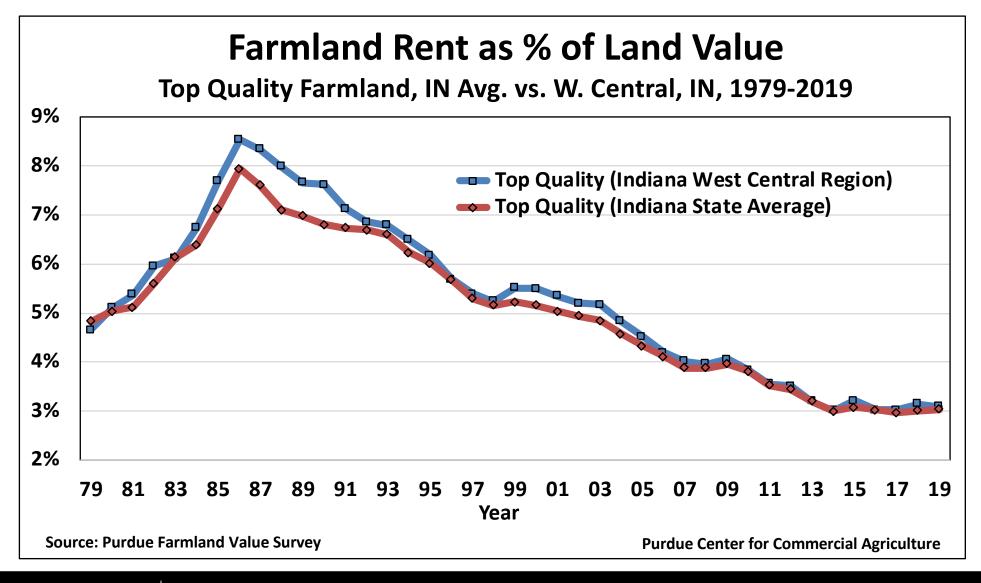
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Top Quality Land Cash Rental Rates Declined 4 to 5% in 2019



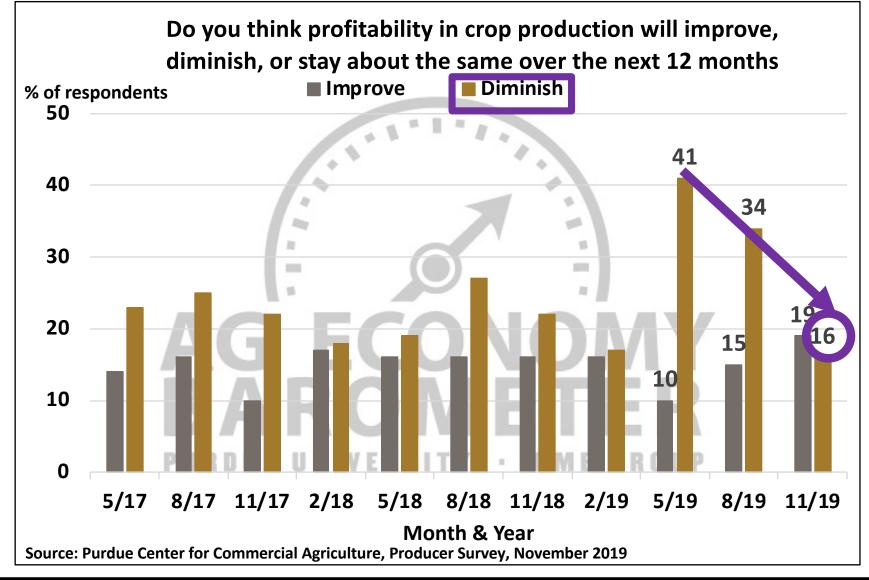
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Farmland Cash Rental Rates as % of Value Have Fallen Along With Interest Rates



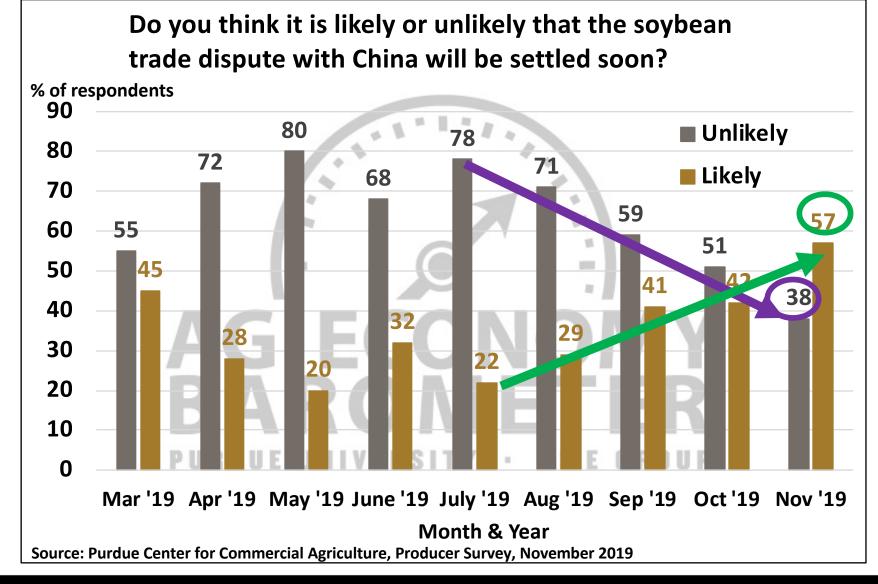
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Worries Among Farmers About Crop Profitability Peaked in May But Noticeably More Optimistic This Fall



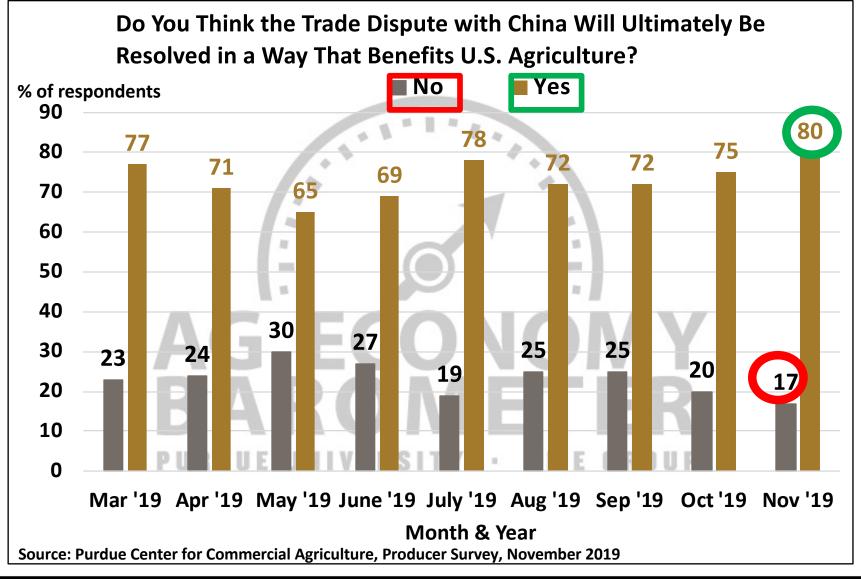
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Over the Summer Farmers Became More Optimistic That The Trade Dispute With China Will Be Settled Soon



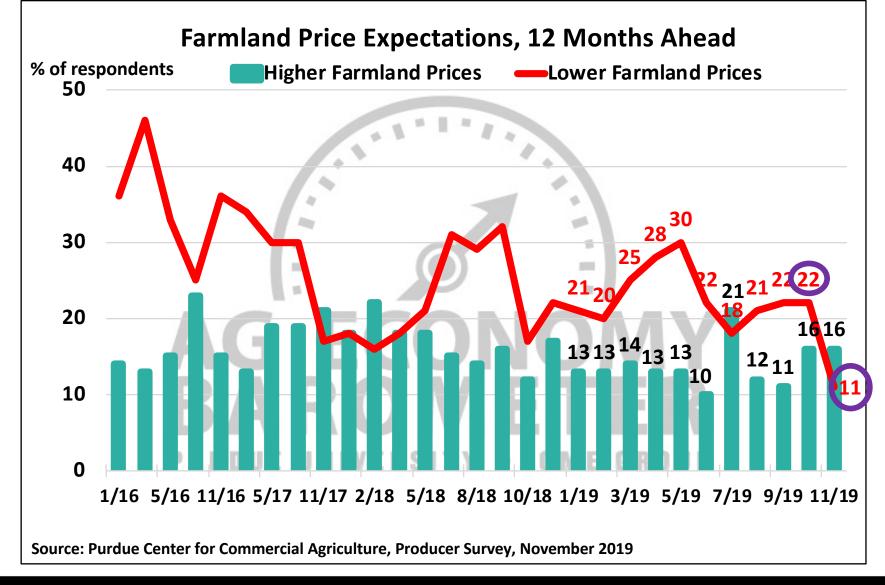


8 out of 10 Farmers Still Expect A Favorable Resolution for Agriculture to Trade Dispute with China



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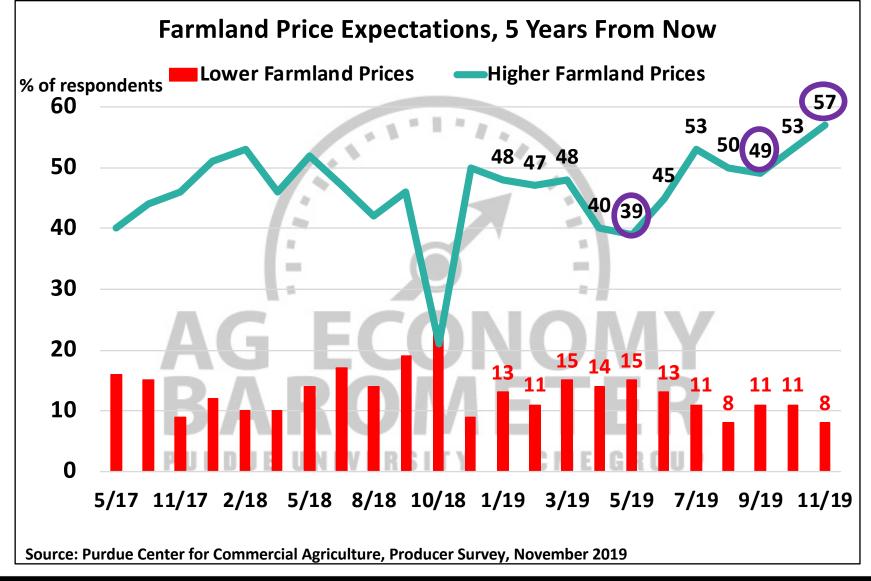
Much Less Pessimism Among Farmers This Fall About Farmland Than Last Spring When Asked to Look 12 Months Ahead





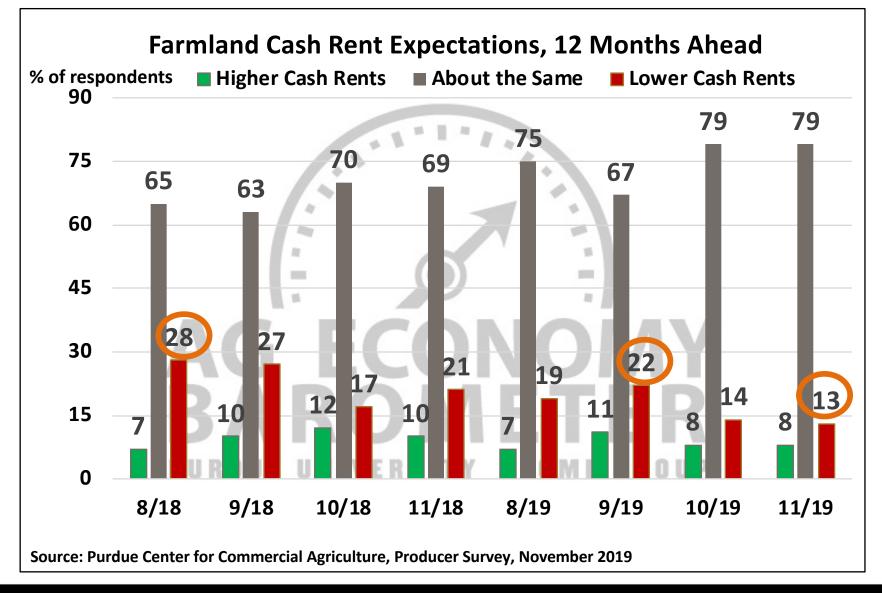
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And Much More Optimistic About Longer-Run Outlook for Farmland Than Last Spring and Late Summer



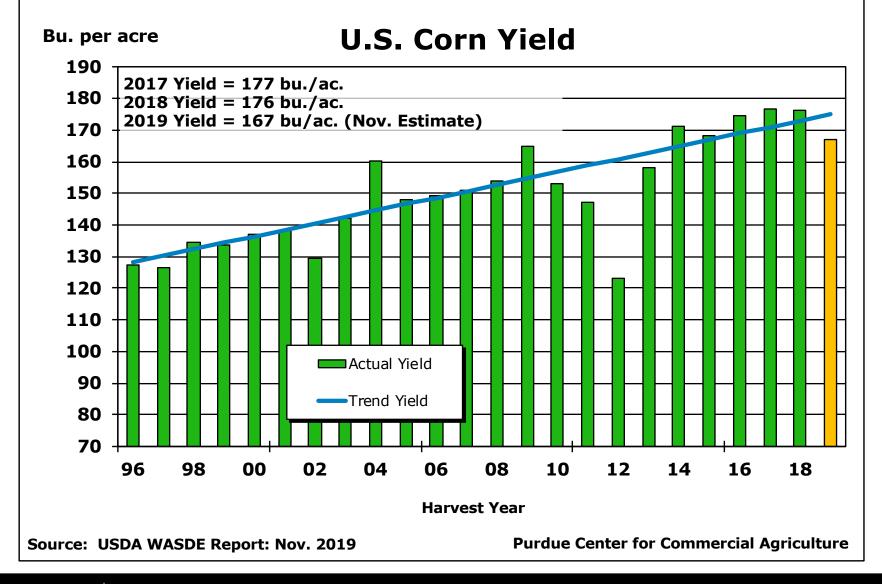


Fewer Farmers Expect Cash Rents to Decline in 2020



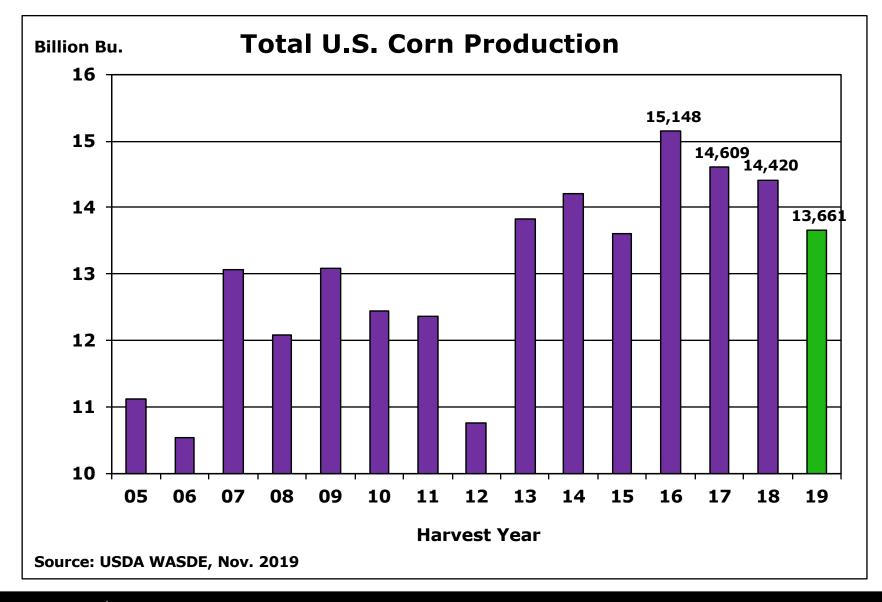


Surprisingly Good Yields This Fall



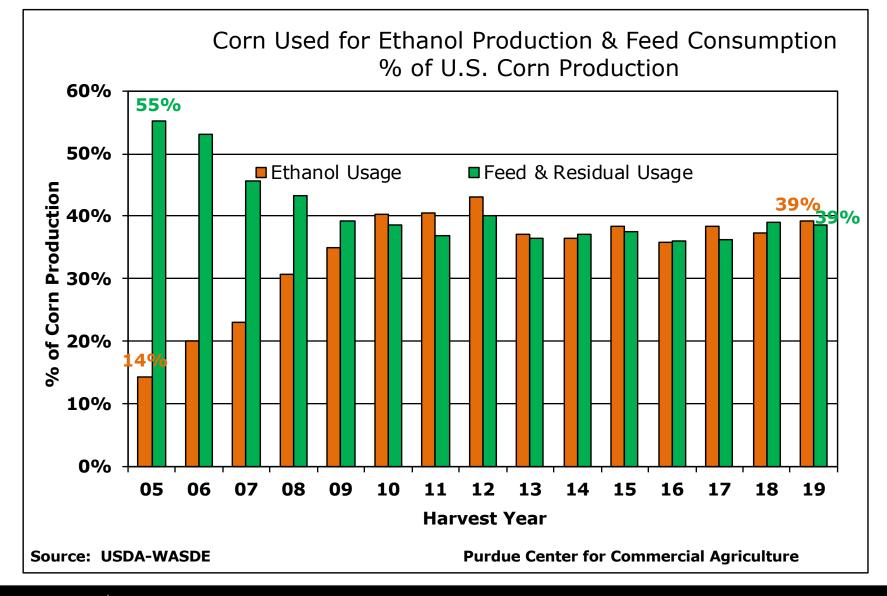


But Still Was 3rd Year in A Row for Corn Production Decline



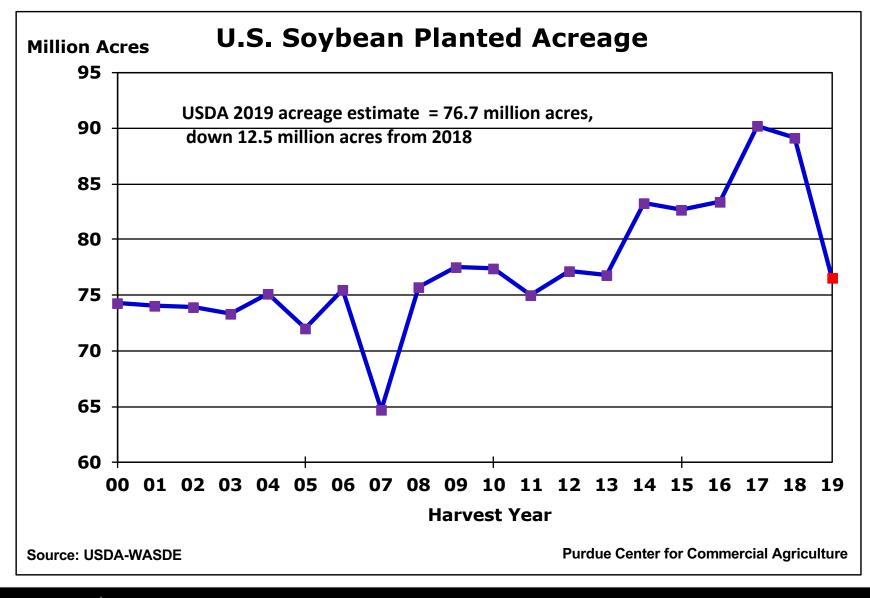
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Ethanol Usage Has Plateaued



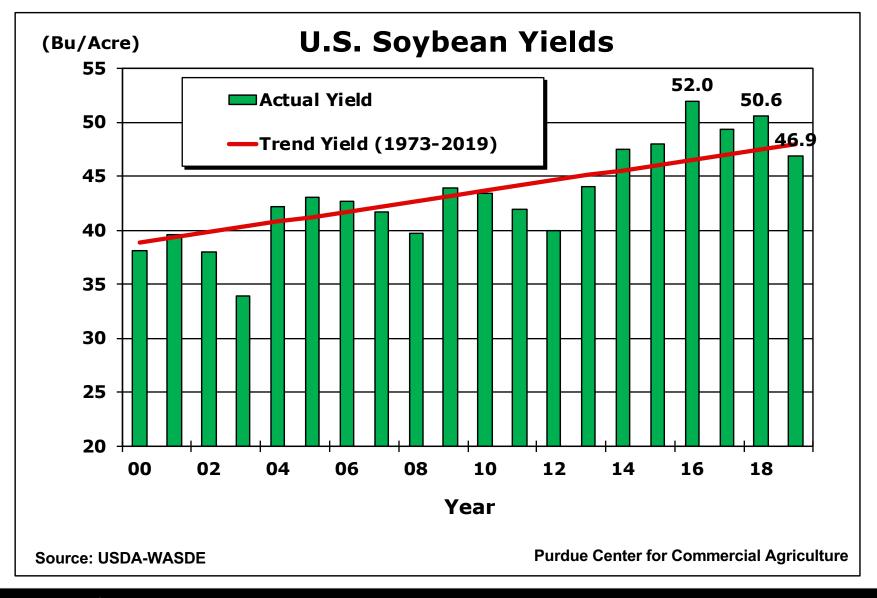


Soybean Acreage Plummeted As Prevented Plantings Soared





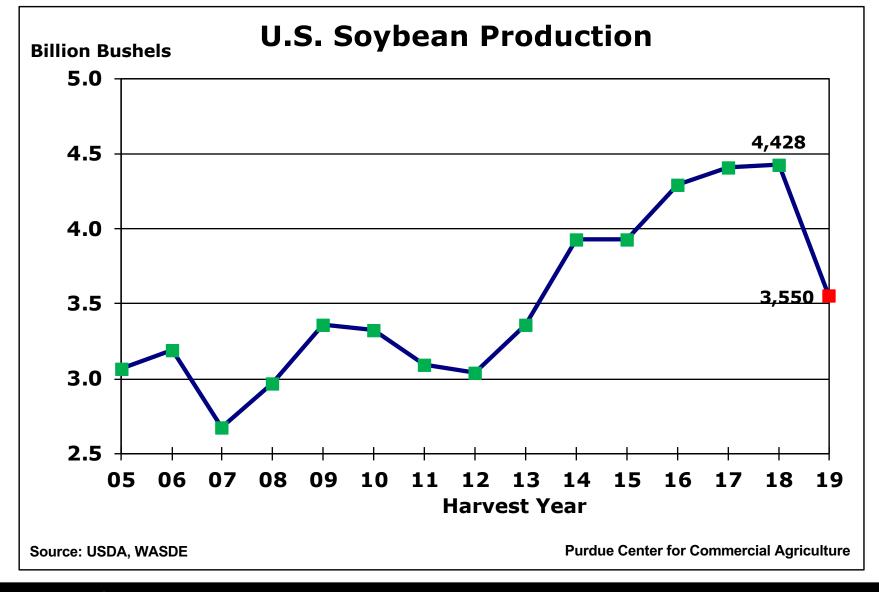
Lower Yields...But Not As Much As Expected





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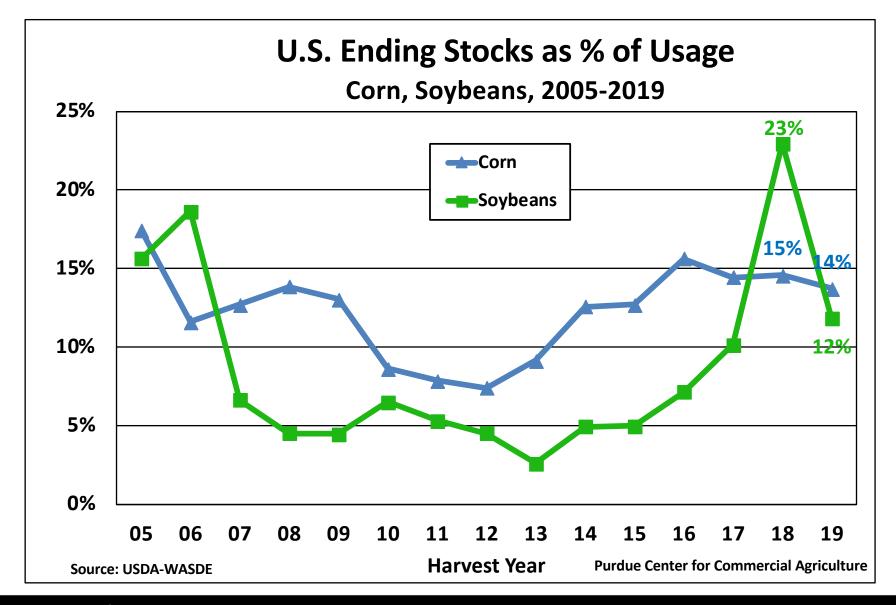
Soybean Production Down 20%





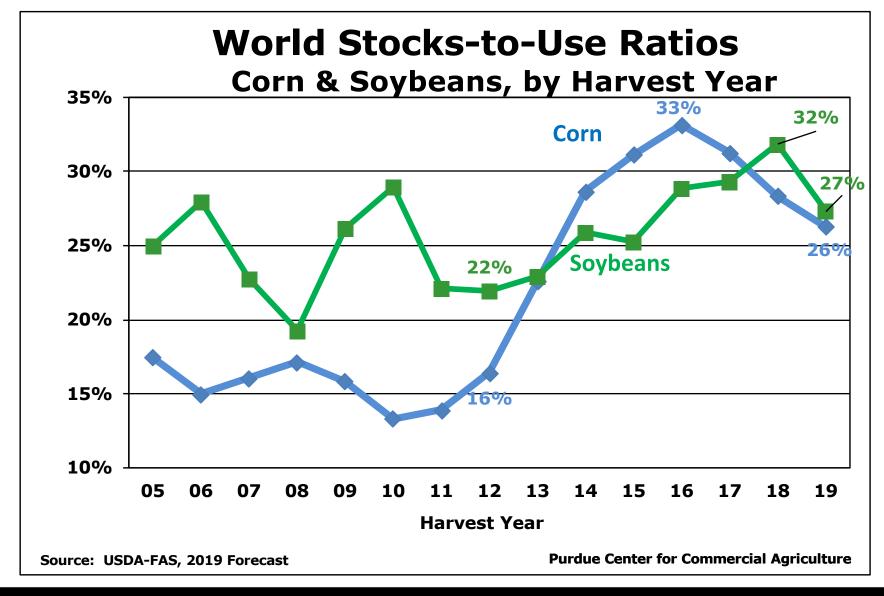
U.S. Ending Stocks Tightening

Could Tighten More If Actual Production Falls Below USDA's Projections

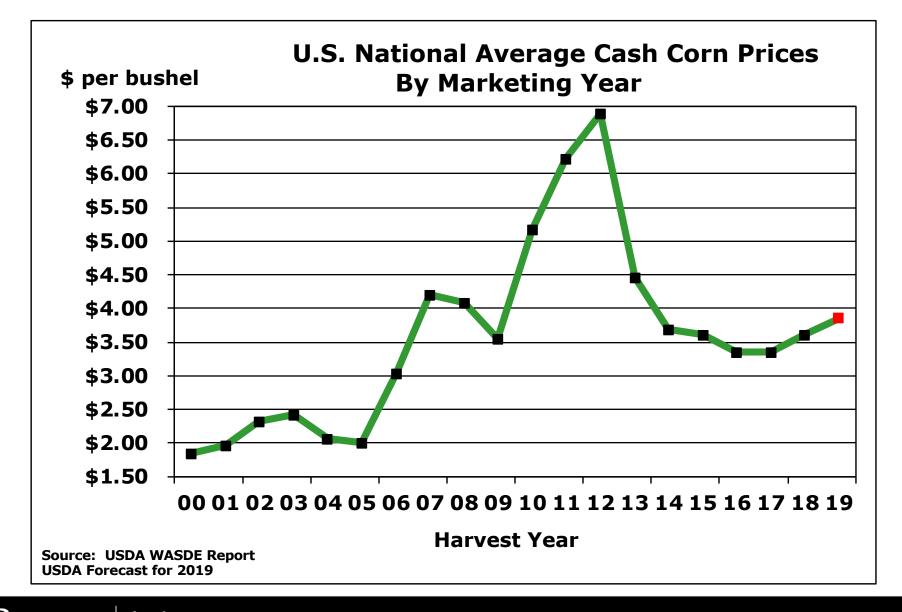


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World Stocks Are Tightening, But Remain Large

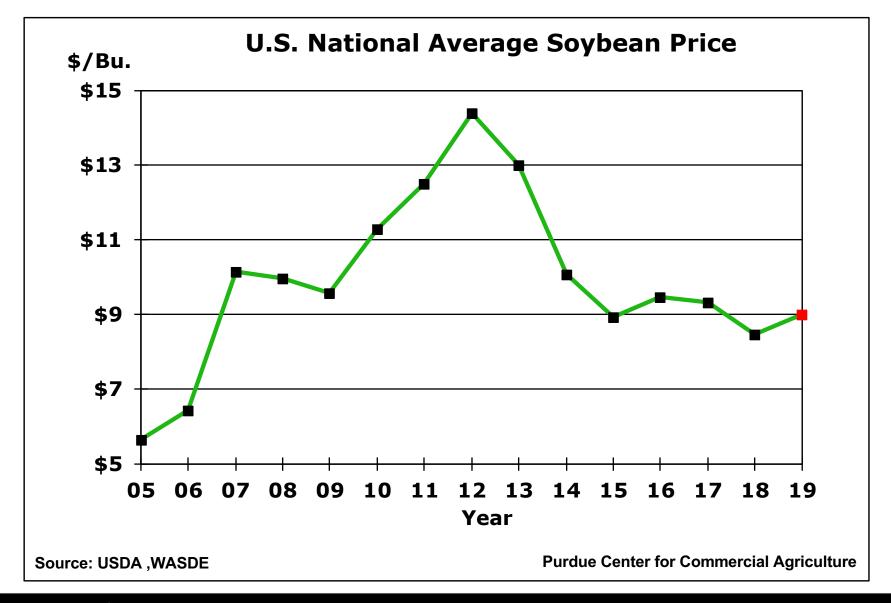






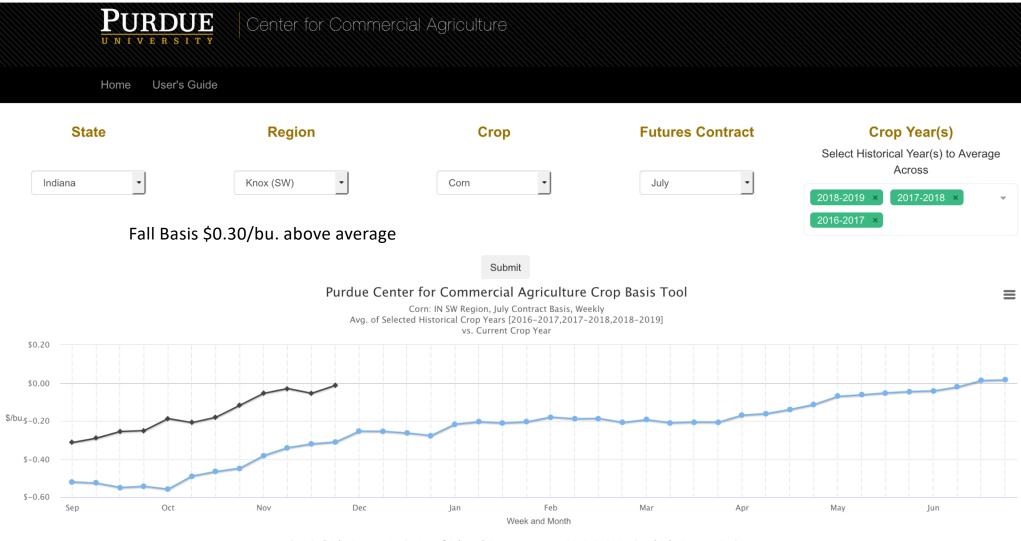
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Fall Corn Basis Very Positive...Implies Weak Corn Storage Returns



- Historical July Contract Basis, Avg of Selected Crop Years - 2019-2020 Regional July Contract Basis https://www.purdue.edu/commercialag



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Looking Ahead to the 2020 Corn Crop

Dec. 2020 Corn Futures Settled @ \$3.90/bu.

Late Sept. Southwest IN Basis Forecast =\$-0.22/bu.

\$3.90 + (\$-0.22) = \$3.68/bu. Expected Sale Price, if hedged

History suggests opportunity to roll this hedge forward at harvest time to take advantage of increase in futures market carry

May 2021 Corn Futures Settled @ \$4.01/bu. Late April Southwest IN Basis Forecast =\$-0.01/bu. <u>\$4.01 + (\$-0.01) = \$4.00 Expected Sale Price, if hedged</u>



Strong Nearby Soybean Basis Implies Weak Storage Returns

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e	Region	Сгор	Futures Contract	Crop Year(s) Select Historical Year(s) to Aver
•	Knox (SW)	Soybeans -	January -	Across
	Ļ	Avg. of Selected Historical Crop Years [2017–2018 vs. Current Crop Year	8,2018-2019]	
	4	vg. of Selected Historical Crop Years (2017–2018 vs. Current Crop Year	8,2018-2019]	
		vg. of Selected Historical Crop Years (2017-2018 vs. Current Crop Year	8,2018-2019]	
		vg. of Selected Historical Crop Years (2017–2018 vs. Current Crop Year	8,2018-2019]	
		vg. of Selected Historical Crop Years [2017-2018 vs. Current Crop Year	8,2018-2019]	
		vg. of Selected Historical Crop Years (2017-2018 vs. Current Crop Year	8,2018-2019]	

https://www.purdue.edu/commercialag



Looking Ahead to the 2020 Soybean Crop

Nov. 2020 Soybean Futures Settled @ \$9.32/bu.

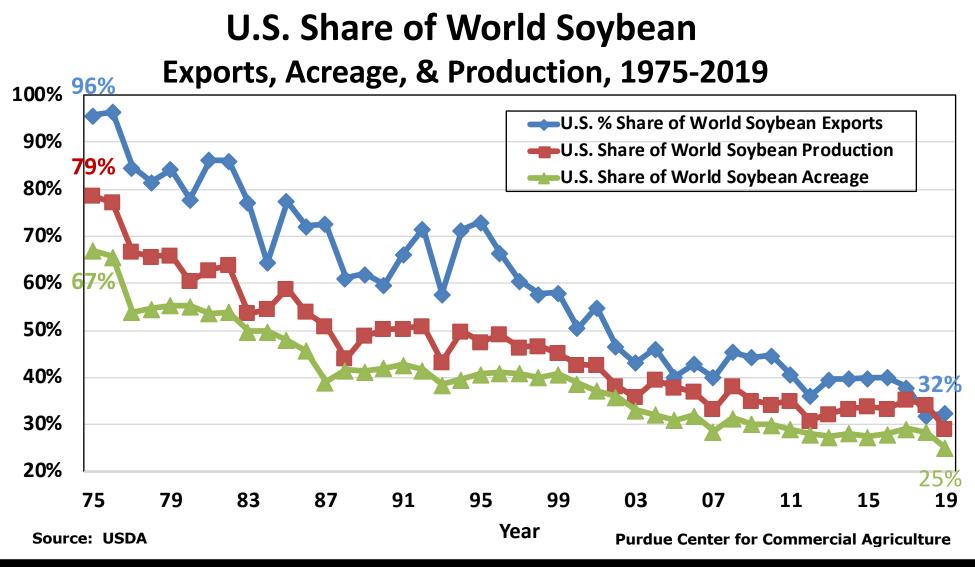
Late Sept. Southwest IN Basis Forecast =\$-0.40/bu.

<u>\$9.32 + (\$-0.40) = \$8.92/bu. Expected Sale Price, if hedged</u>

History suggests opportunity to roll this hedge forward at harvest time to take advantage of increase in futures market carry

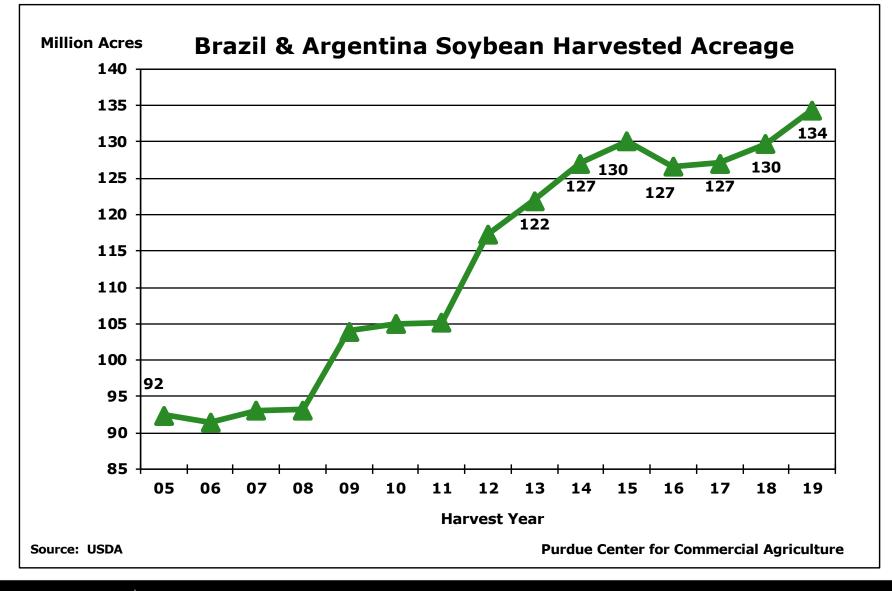


Ongoing Erosion of U.S. Market Share



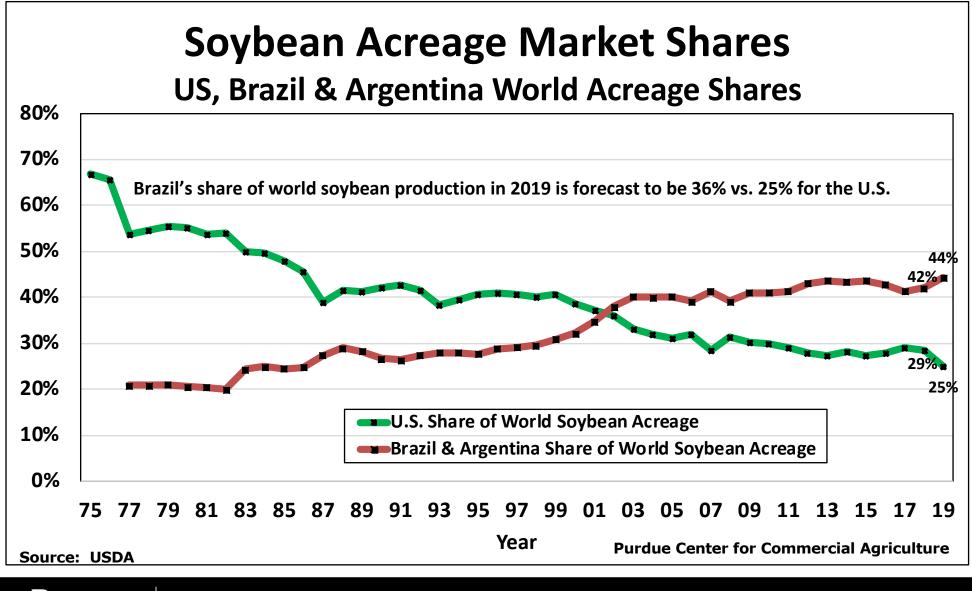
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Acreage Expansion Continues in South America



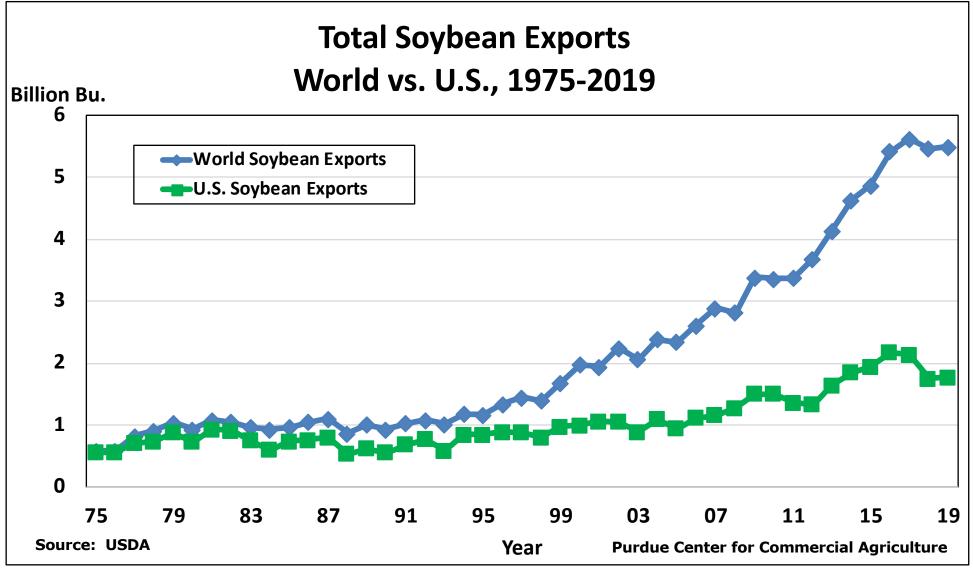


And South America Continues to Gain Market Share



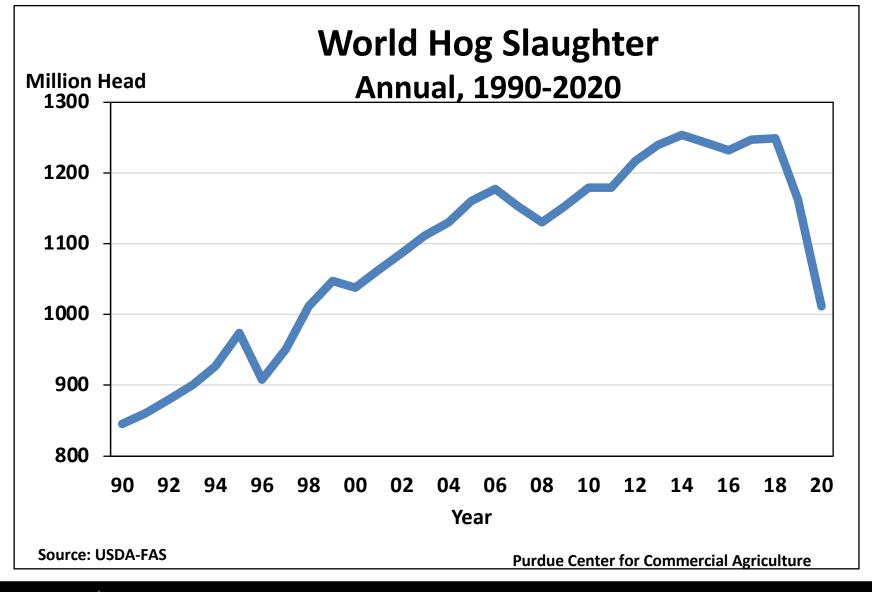
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World Soybean Exports Down 3% in 2018 vs. 2017 While U.S. Exports Declined by 18%



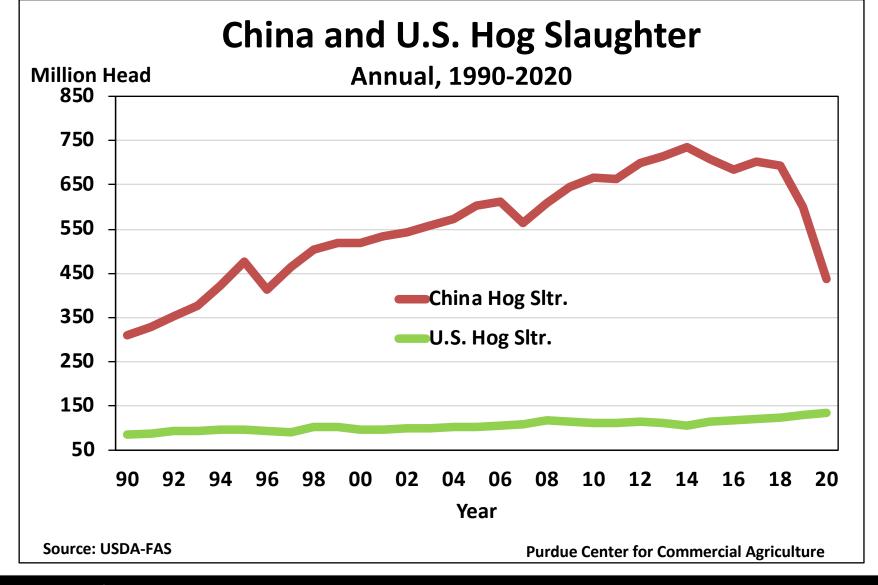
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World Pork Supplies Dropping



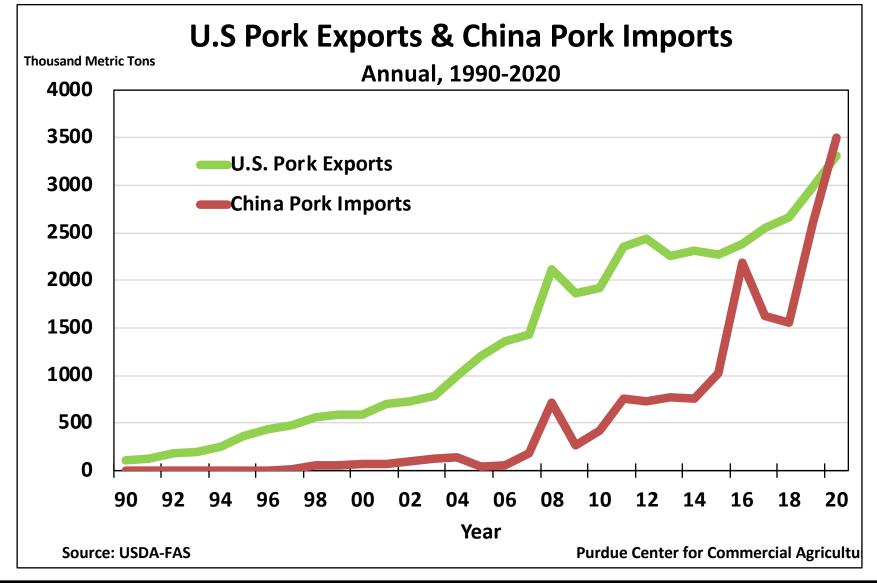
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ASF in China Is The Reason



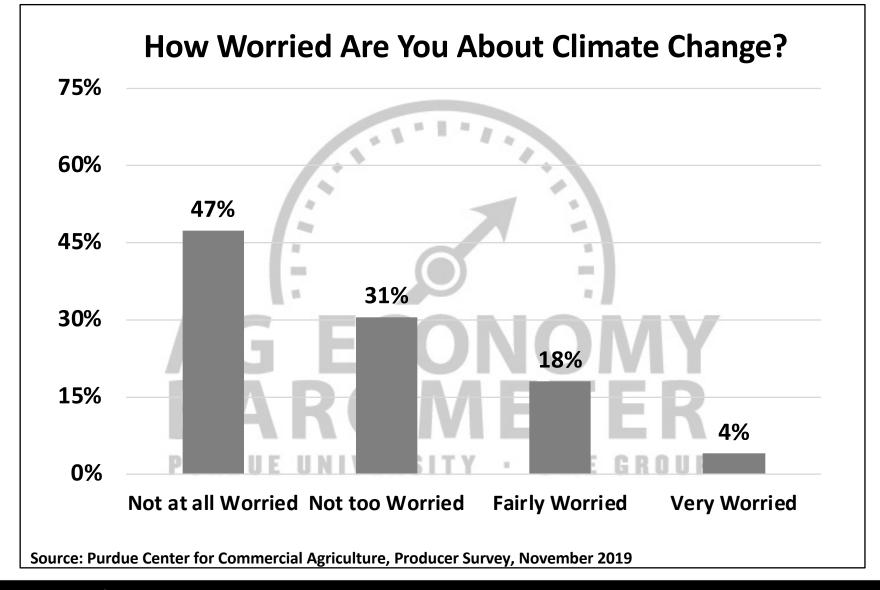


China's Pork Imports Rising Rapidly Opportunity for the U.S.?



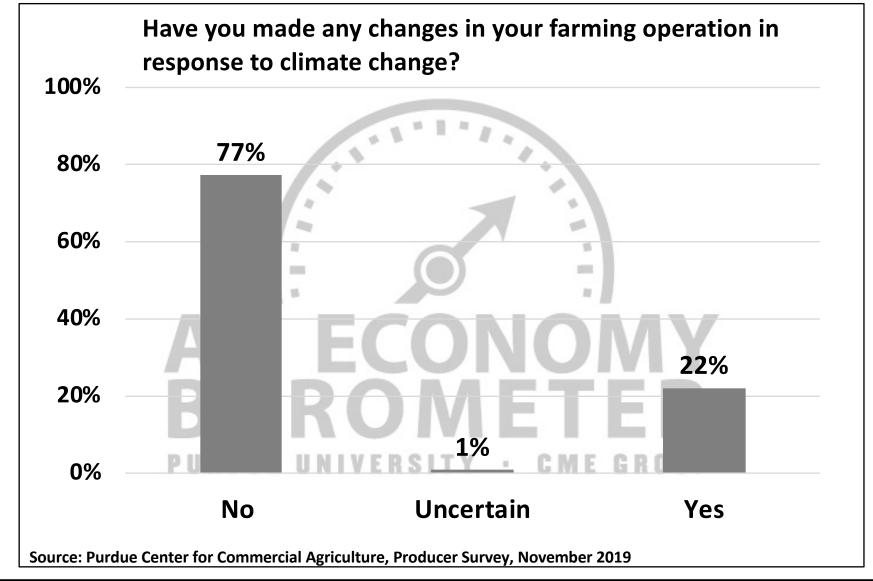


How Do Farmers Feel About Climate Change?



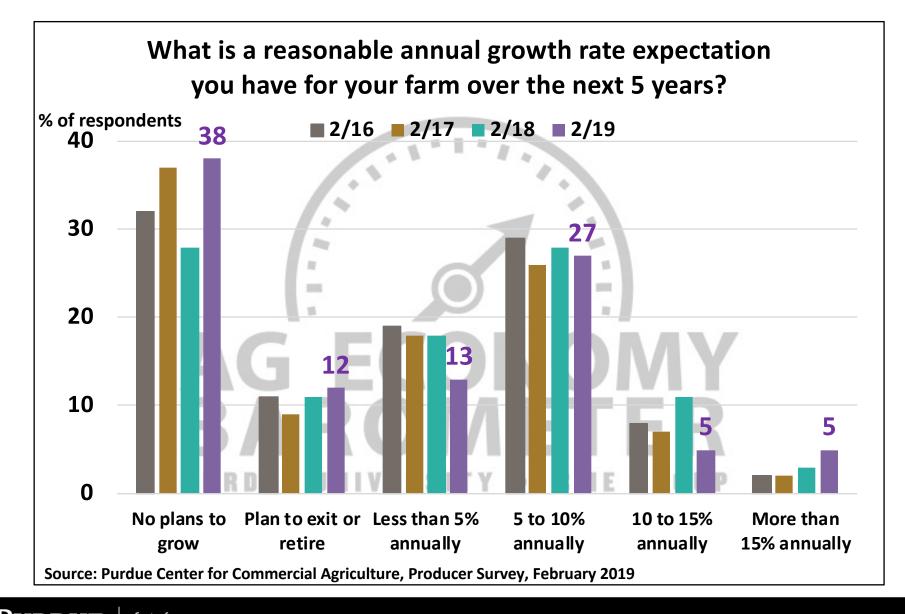


1 out of 5 Farmers Say They Are Already Adapting to Climate Change





Thinking About Your Farming Operation





Growth Questions to Consider

- 1. Consider Your Options for Growth
 - Expand?; Diversify?; Replicate?
- 2. Look at Options Strategically
 - Internally: Your resources?; Comparative advantage?
- 3. Evaluate Options Carefully
 - Expected returns?; Ease of entry (and exit)?; Risks?; Management requirements & skills required
- 4. Financing Considerations
 - Sources of funds: Retained earnings?; Debt?; Partners?
- 5. What's Your Sustainable Growth Rate
 - How much growth can you sustain without increasing financial leverage?
 - What's sustainable from a managerial perspective



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Center for Commercial Agriculture COLLEGE OF AGRICULTURE

January 9-10 in West Lafayet

TOP FARMER CONFERENCE

Take part in one of the most successful and longestrunning management programs geared specifically for farmers at the Beck Agricultural Center, in West Lafayette, IN, on January 9-10, 2020. Surrounded by farm management, farm policy, agricultural finance and marketing experts, and a group of your peers, the conference will stimulate your thinking about agriculture's future and how you can position your farm to be successful in the years ahead.

LEARN MORE & REGISTER

About Programs Resources

- 2009: Digital harvest data FarmWorks - manage & archive in house
- 2010: Digital planting data
- 2011: Grain cart scales
- 2012: RTK Active Guidance
- In-season field operations w/ implement



FREE Next Webinar





Ag Barometer