



## Ag Barometer Index Drops Below 100 as Coronavirus Disrupts Agriculture

May 5, 2020 | James Mintert and Michael Langemeier, Purdue Center for Commercial Agriculture

For the second month in a row the *Purdue University-CME Group Ag Economy Barometer* dropped sharply, falling 25 points in April to a reading of 96. This marks the first time the barometer has fallen below 100 since October 2016, effectively wiping out all of the improvement in farmer sentiment that took place following the 2016 election. April's decline leaves the *Ag Economy Barometer* 72 points below its record high, which was just established in February of this year. The *Ag Economy Barometer* is generated each month from 400 U.S. agricultural producers' responses to a telephone survey. This month's survey was conducted from April 19-24, 2020.

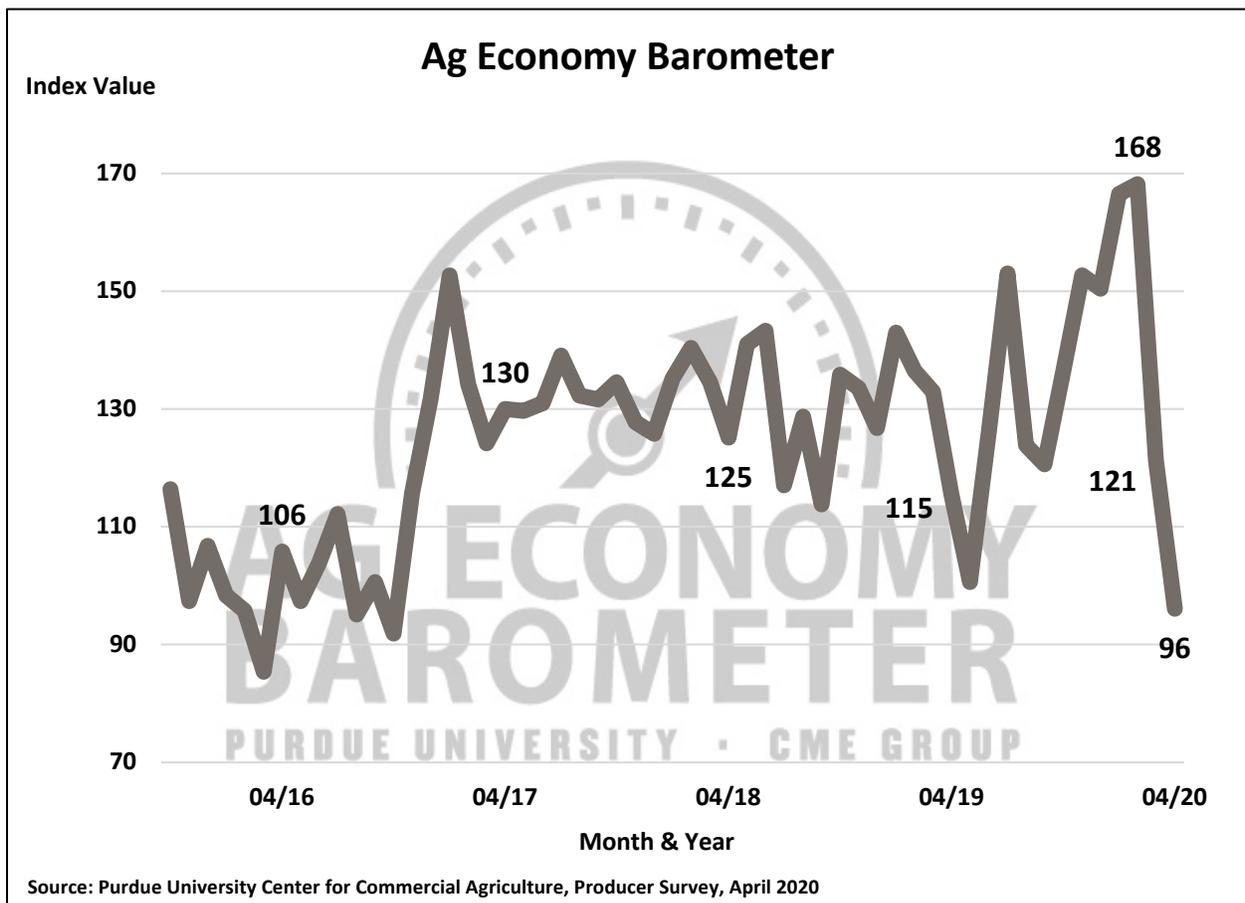
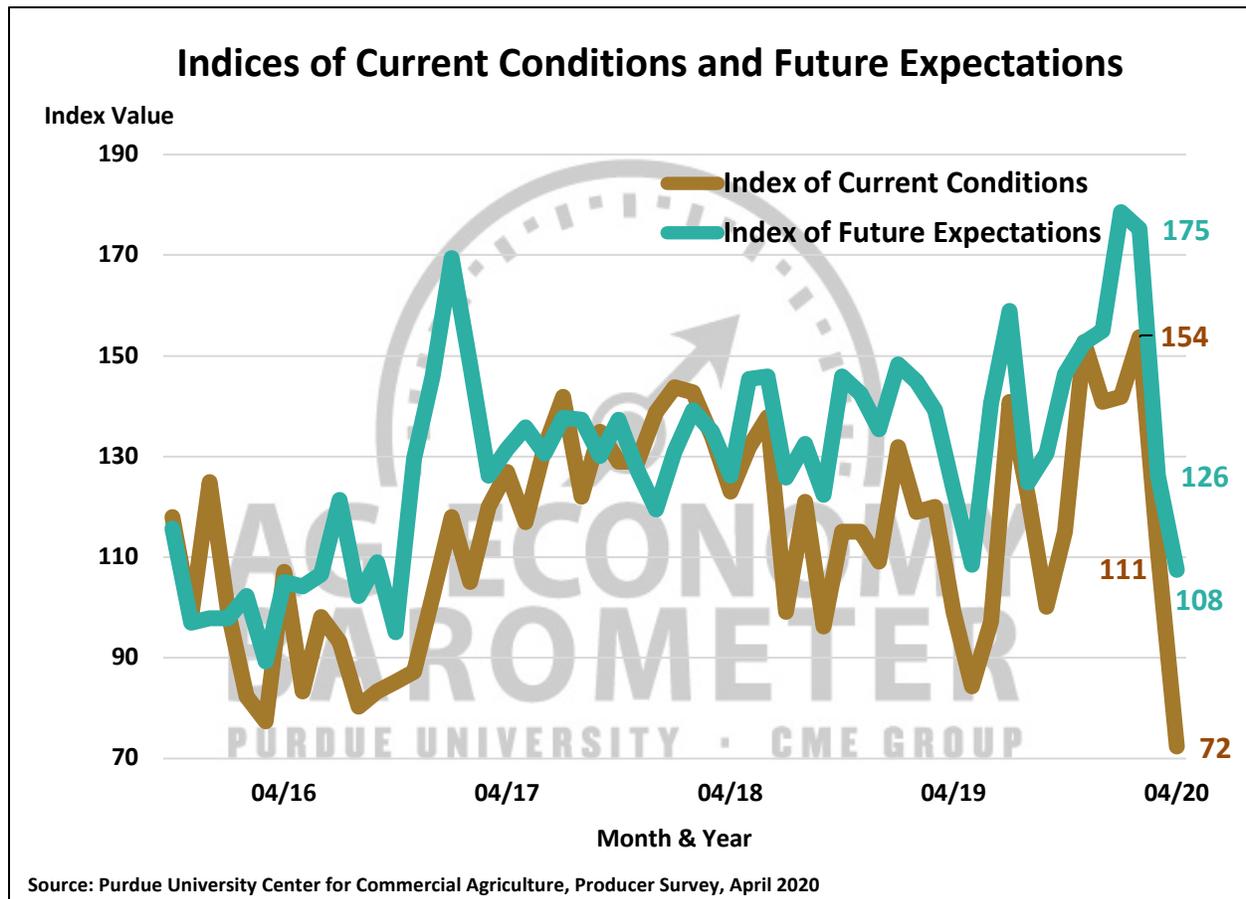


Figure 1. Purdue/CME Group Ag Economy Barometer, October 2015-April 2020.



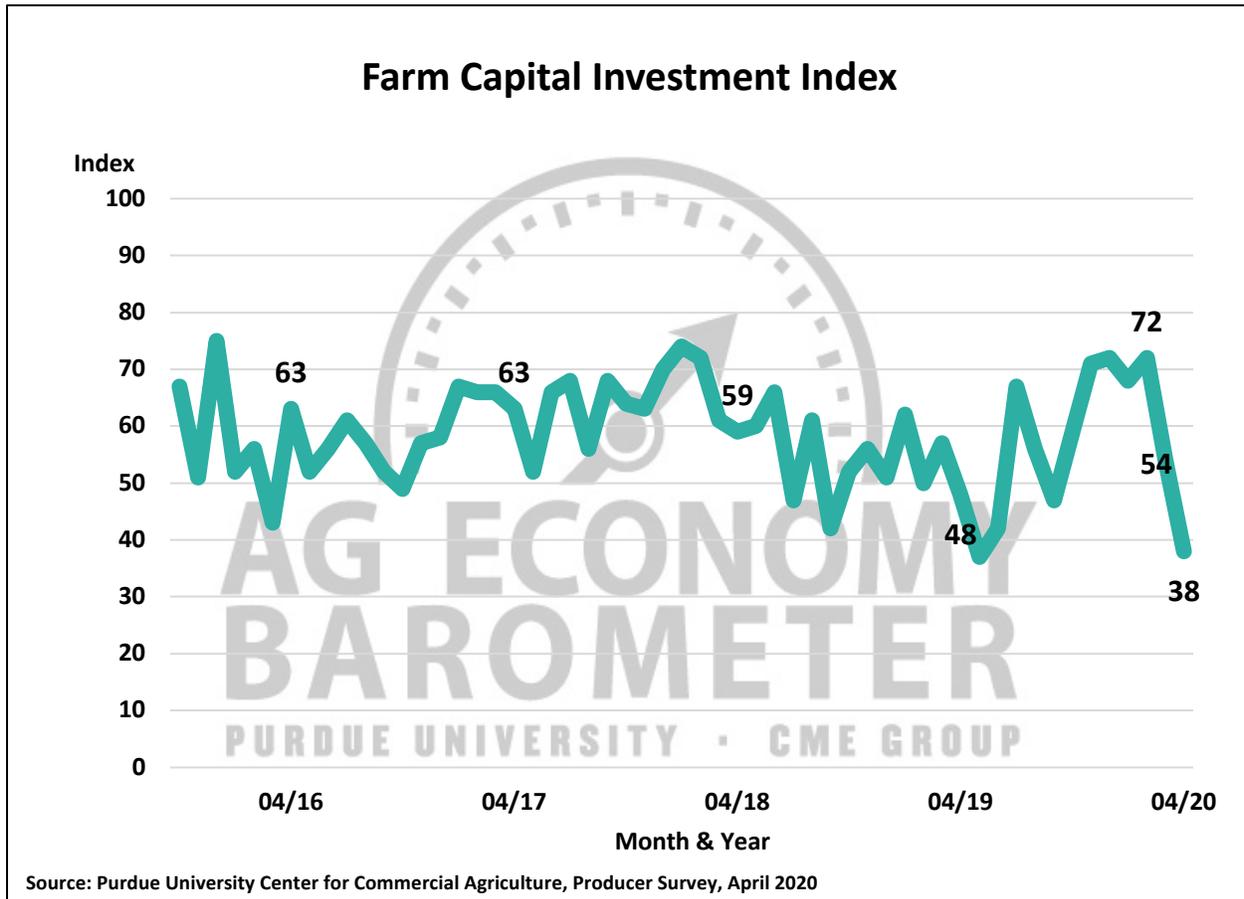


**Figure 2.** Indices of Current Conditions and Future Expectations, October 2015-April 2020.

Declines in both the *Index of Current Conditions* and the *Index of Future Expectations* drove the barometer lower this month with the largest decline occurring in producers' perceptions about their current situation. The *Index of Current Conditions* declined 39 points in April, to a reading of 72, while the *Index of Future Expectations* fell 18 points to a reading of 108. April's decline pushed the *Current Conditions Index* 53 percent below its all-time high set back in February. Over the same two-month period the *Future Expectations Index* fell 39 percent.

Farmers indicated that, in the current environment, they are reluctant to make large capital investments in their farming operations. The *Farm Capital Investment Index* fell 16 points in April to a reading of 38, which was 34 points below its most recent high set in February of this year. April's investment index stood at a level nearly equal to last year's low of 37, set in May, when farmers were suffering from a combination of severe spring planting delays and low commodity prices.





**Figure 3.** Farm Capital Investment Index, October 2015-April 2020.

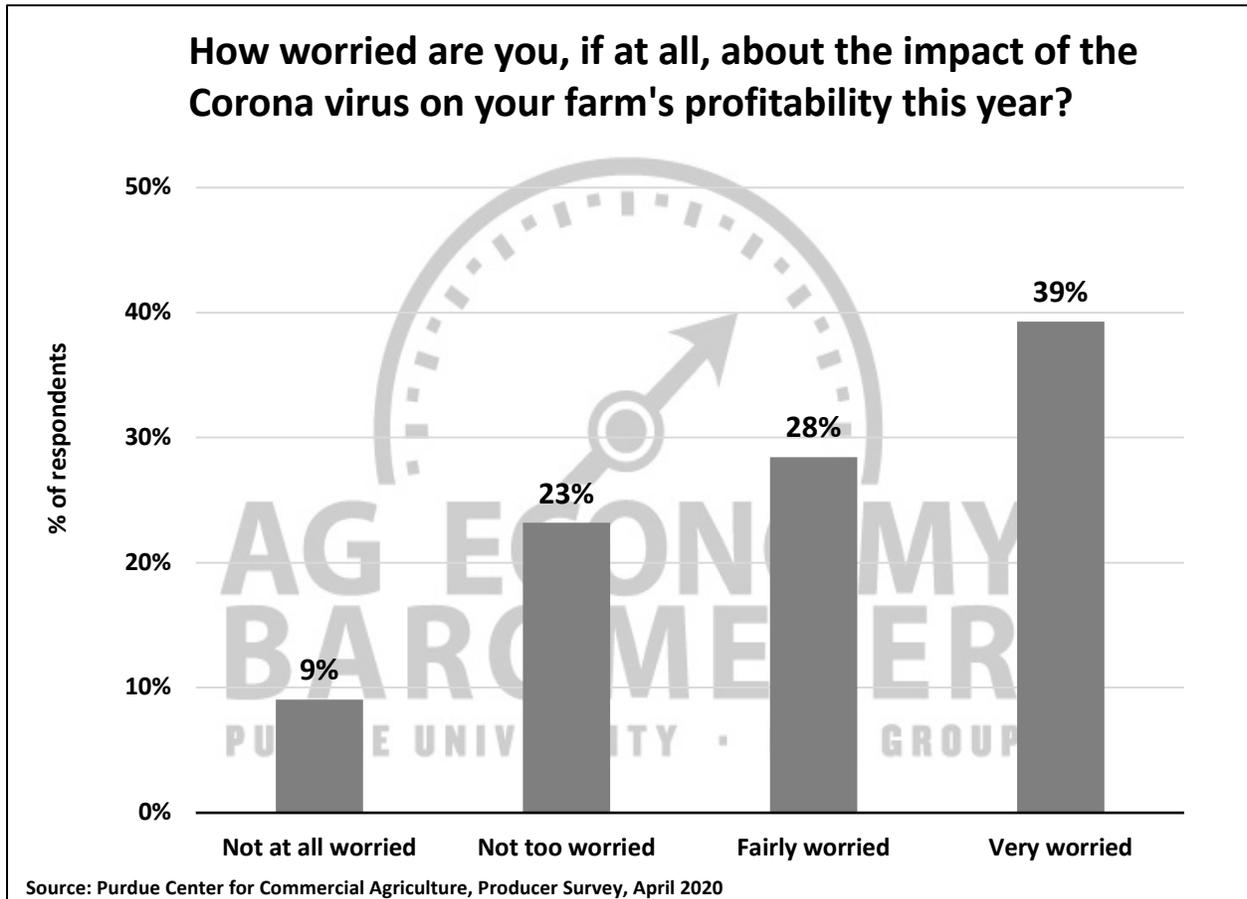
Farmers' pessimism was motivated, in part, by concerns about the impact coronavirus is having on their farms' profitability and their farming operations. Two-thirds of farmers in this month's survey said they were very worried (39%) or fairly worried (28%) about the impact of coronavirus on their farms' profitability this year. Over half (54%) of the farmers responding said they anticipate applying for one of the federal government's COVID-19 related financial assistance programs. When asked what their number one concern is regarding their farm and COVID-19, 42 percent of respondents said they were concerned about their farm's market access, and 37 percent said their number one concern was financial. Just 13 percent of producers said their number one concern regarding their farm was health and safety. However, 35 percent of this month's respondents said they have implemented changes in how they operate their farm in response to concerns about COVID-19.





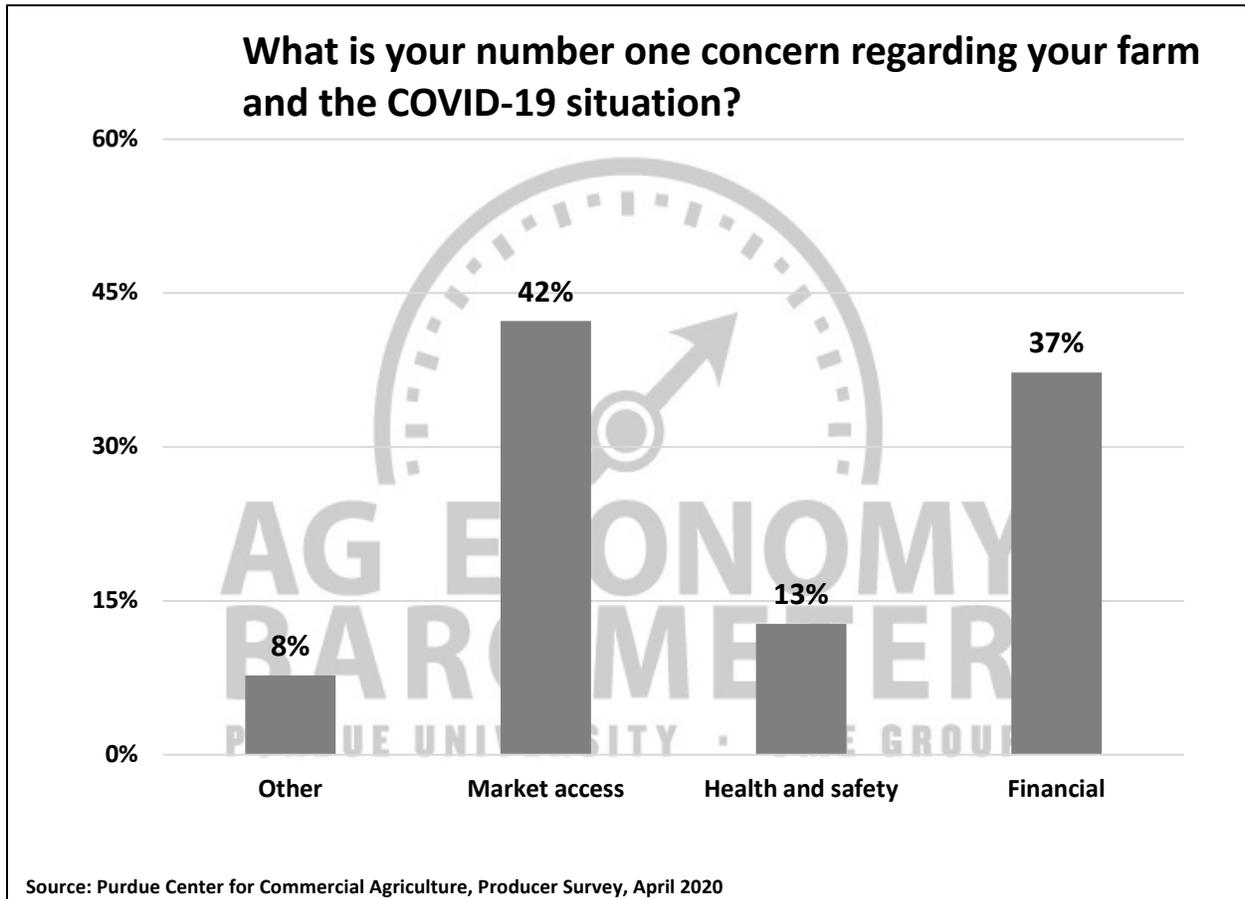
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**Figure 4.** How Worried Are You About the Impact of the Coronavirus on Your Farm's Profitability This Year?, April 2020





**Figure 5.** What is Your Number One Concern Regarding Your Farm and the COVID-19 Situation?, April 2020

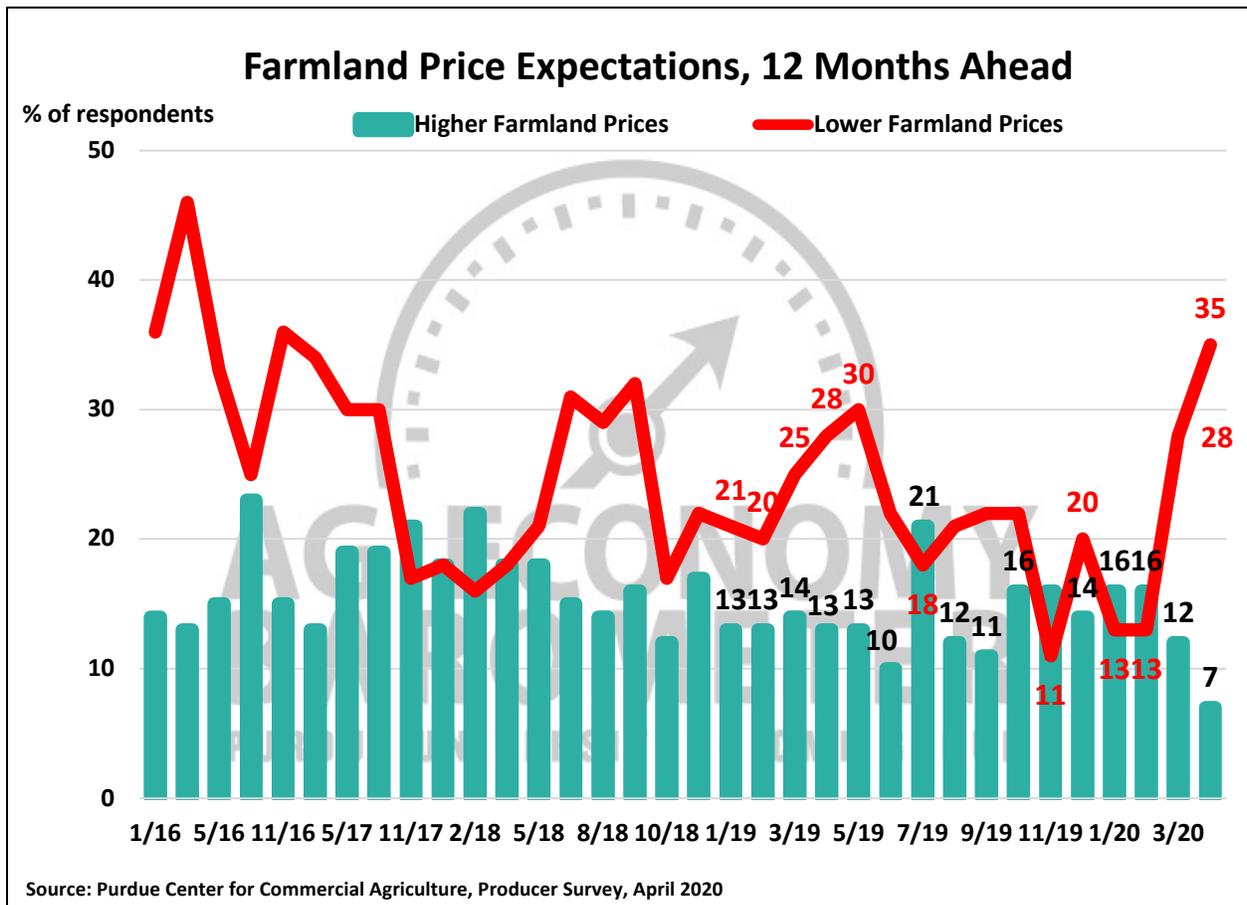
Underpinning the rise in pessimism among farmers was a precipitous decline in principal commodity prices over the last couple of months. For example, from March 2<sup>nd</sup> through April 24<sup>th</sup>, July CBOT corn futures declined 55 cents per bushel, a decline of nearly 15 percent. Over the same time frame July CBOT soybean futures declined 71 cents per bushel, a decline of 8 percent, June CME lean hog futures declined \$25.50 per hundredweight, a 33 percent decline, and June CME live cattle futures declined \$21.35 per hundredweight, a 21 percent decline. The commodity price declines are exerting tremendous financial pressure on many U.S. farm operations. When asked to compare their farms' expected financial performance in 2020 to 2019, 55 percent of respondents in the April survey said they expected worse financial performance in 2020 than in 2019, which compares to 40 and 30 percent of respondents who felt that way when surveyed in March 2020 and December 2019, respectively.

Unsurprisingly, given the declines in commodity prices, farmers became more pessimistic about farmland values in April. When asked about their farmland price expectations 12 months ahead, the percentage of respondents expecting values to decline rose from 28 percent in March to 35 percent in April. The shift in attitudes is more extreme when compared to results from this past winter. In both January and February, just 13 percent of survey respondents said they expected farmland values to





decline in the upcoming year. However, when producers were asked about their perspective on farmland values 5 years from now, they were noticeably more optimistic. In fact, the percentage expecting higher farmland values increased slightly to 44 in April compared to 41 percent in March, and the percentage expecting lower values fell to 9 percent in April from 12 percent in March. The divergence between producers 12-month and 5-year ahead expectations for farmland values suggests they view the current disruption in agriculture and food markets to be temporary and look for markets to rebound farther down the road.



**Figure 6.** Farmland Price Expectations, 12 Months from Now, May 2017-April 2020.

### Wrapping Up

For the second month in a row, farmer sentiment declined sharply as the *Ag Economy Barometer* dropped below 100 for the first time since October 2016, effectively wiping out the improvement in sentiment that took place following the 2016 election. Dramatic declines in commodity prices, combined with concerns about coronavirus impact on farm profitability, led to the largest one-month decline in the *Index of Current Conditions* in the history of the barometer survey. Two-thirds of farmers participating in our April survey said they were either “fairly worried” or “very worried” about the coronavirus’ impact on the farms’ profitability this year. The percentage of farmers expecting their





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farms' profitability to decline in 2020 compared 2019 increased to 55 percent in April, compared to 40 percent in March, and just 30 percent who felt that way in December 2019. Over half of this month's survey respondents said they anticipate applying for a COVID-19 related financial assistance program. Concerns about the economic outlook for their farms led fewer farmers to think now is a good time to make large investments in their farming operation as the *Farm Capital Investment Index* fell 16 points compared to a month earlier. This put the *Farm Capital Investment Index* near its lowest reading of 2019 which occurred in May amidst last year's severe planting delays and low commodity prices. Unsurprisingly, farmers' near-term perspective on farmland values weakened, but their longer-run perspective on farmland values actually improved slightly suggesting that they view the current disruption in agriculture and food markets to be temporary and look for markets and farm profitability to rebound in the years ahead.

