**Do Small and Mid-sized Farmers Adopt New Agricultural Technology?**

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This study examines the use of agricultural technology by Kentucky small and mid-sized farmers. It also analyzes impact that the use has on farm productivity, farm profitability, and farm financial position. The data was collected using mailed survey to 870 small and medium-scale farmers throughout the Commonwealth of Kentucky. We found that 44.7 percent of the these farmers are not adopting new agricultural technological advances in their operations. Among the 55.3 percent who use some sort of technology, 63.2 percent have seen positive impacts on productivity. We found that 38.3 percent of all respondents saw increase in their farm productivity and profitability and attributed it to the usage of new agricultural technologies. A majority (82.5 percent) of these farmers who use agricultural technology indicated that their operations are profitable or breaking even. We further found that younger (beginning farmers) are more likely to adopt new agricultural advances. This study is significant as it contributes to the knowledge about the use of new agricultural technologies among small and medium-scale farmers and its potential impact on farm productivity and profitability. This study is useful to extension agents and other institiutions serving agriculture industry for the benefit small/medium-scale farmers.