Predicting the Adoption of Sustainable Agricultural Practices among Kentucky Farmers and Its Barriers

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The adoption of sustainable agricultural practices (SAPs) has been very helpful to attain agricultural sustainability. However, practices are localized and site specific and, thus, less understood in Kentucky. A research was conducted throughout the Kentucky using double stratified survey method to understand the adoption of sustainable agriculture practices (SAPs) and their adoption barriers throughout Kentucky. The results of negative binomial regression analysis show that row crop and vegetable farmers, farmers in favor of diversification, irrigation facilities, formal education level are significant (*p < 0.95)* and positive predictors of adoption of sustainable agriculture practices. However, age is significant (*p < 0.90)* and a negative predictor of adoption of SAPs in Kentucky. Knowledge and Revenue are two major barriers of the adoption of SAPs in Kentucky.