



***Corresponding author:** Dongying Gao, Department of Plant Genetics, Center for Applied Genetic Technologies, Institute for Plant Breeding Genetics and Genomics, University of Georgia, USA, Tel: +12083974162, E-mail: Dongying.Gao@usda.gov

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model, Yang et al. (2017) reported that ethnicity, farmland altitude average, labor productivity, family size, and yield are factors that influence the planting of two rice varieties (red rice and hybrid rice) in Yuanyang county, Yunnan Province. For their part, Appau et al. (2020) applied the multinomial logit model to investigate the determinants of Tobacco In accordance with the second strand, Doumbia and Depieu (2013) found that faced with the challenges of climate change, rice farmers in the rainfed upland rice system choose other rice varieties