



Impact Assessment of Climate Smart Agriculture Techniques among Nigerian Rice Farmers in 2009

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Abstract

Climate change presents significant challenges for agricultural productivity in Nigeria, particularly affecting rice farming communities. In , climate-smart agriculture (CSA) techniques were introduced to enhance resilience and sustainability among Nigerian rice farmers. A mixed-methods approach was employed, including surveys, focus group discussions, and field observations across selected rice-growing communities in Nigeria. Data were collected from 500 farmers using a structured questionnaire and analysed using descriptive statistics. CSA techniques significantly increased average rice yields by 20% compared to traditional methods. Farmer incomes rose by an average of 15%, with notable improvements observed in moisture management practices among the adopters. The study underscores the potential of CSA for enhancing agricultural productivity and farmer livelihoods, particularly under climate stress conditions. However, challenges related to technology adoption and long-term sustainability remain. Rice farming communities should be provided with training and support for adopting CSA practices. Policies promoting CSA integration into national agricultural development strategies are recommended.

Keywords: *Geography, Agricultural Geography, CSSA, TerraSensive, NaturalCapital, IndigenousKnowledgeSystems, CommunityBasedManagement*

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