



Climate Smart Agriculture Practices for Maize Farmers in Central Tanzania: Performance Measures and Adoption Rates Two Years In Post-Launch

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Abstract

Climate change is affecting agricultural productivity in Central Tanzania, particularly maize farming. Farmers were surveyed using a structured questionnaire to assess CSA practice implementation, yield outcomes, and socio-economic factors influencing adoption. The average maize yield increased by 15% in regions adopting CSA practices compared to non-adopting areas. CSA practices showed significant potential for enhancing agricultural productivity in Central Tanzania. Policy-makers should support further research and extension services to accelerate CSA adoption among farmers. climate smart agriculture, maize farming, yield improvement, adoption rates, Central Tanzania The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: Tanzania, Maize, Climate Change Adaptation, Sustainable Agriculture, Participatory Rural Appraisal, Yield Measurement, Farmer Field Schools

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