



Climate-Resilient Maize Varieties and Food Security in Tanzania's Highlands: Six-Month Feasibility Testing

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Abstract

This study examines the impact of climate-resilient maize varieties on food security in Tanzania's highlands, focusing on the feasibility and effectiveness of these new agricultural technologies. A mixed-methods approach was employed, combining quantitative data from field assessments with qualitative insights through interviews and focus groups. Farmers were randomly selected to participate in the trials, ensuring a representative sample of the targeted population. Initial findings suggest that climate-resilient maize varieties led to an average yield increase of 20% compared to conventional crops among participating farmers. Farmer acceptance was high, with over 85% expressing willingness to continue using these varieties post-trial. The six-month feasibility testing indicates promising results for the adoption of climate-resilient maize varieties in enhancing food security and sustainability in Tanzania's highlands. Further research is recommended to validate these findings. Policy makers are encouraged to support further trials, including scaling up the use of climate-resilient maize varieties through extension services and farmer training programmes. climate resilience, maize varieties, food security, smallholder farmers, highlands

Keywords: *Tanzania, Highlands, Climate Change, Resilience, Adaptation Strategies, Participatory Rural Appraisal, Impact Assessment*

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