



Adoption Dynamics of Climate Smart Agriculture in Western Uganda's Mountainous Regions

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Abstract

Climate change poses significant challenges to agriculture in mountainous regions of Uganda, particularly affecting smallholder farmers who rely on rain-fed systems. A mixed-methods study combining qualitative interviews with quantitative surveys to assess farmer knowledge, attitudes, and practices related to climate-smart agriculture. Data collection was conducted through structured questionnaires and semi-structured interviews in selected villages. Farmers showed a moderate interest (35%) in adopting climate-smart techniques but were more receptive to financial incentives than training programmes alone. The adoption of climate-smart agriculture practices is influenced by socio-economic factors such as access to credit and education levels, indicating the need for tailored interventions. Funding agencies should prioritise providing microloans alongside farmer training workshops to enhance the uptake of climate-smart agricultural methods in mountainous regions. Climate Smart Agriculture, Mountainous Africa, Adoption Dynamics, Smallholder Farmers

Keywords: *Mountainous, Smallholder, Sustainable, Participatory, Iterative, Quantitative, Qualitative*

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