



# Climate-Smart Agriculture Practices in Coastal Zanzibar: Farmer Adoption Outcomes

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## Abstract

Coastal Zanzibar in Tanzania faces significant climate challenges such as unpredictable rainfall and rising sea levels, impacting agricultural productivity. Qualitative interviews were conducted with 50 smallholder farmers in four villages. Focus groups explored CSA knowledge, attitudes, and challenges. Farmers showed strong interest in CSA practices but faced limited access to resources like seeds and credit, leading to inconsistent use of techniques such as mulching and irrigation systems. Despite initial enthusiasm, farmers' ability to fully adopt CSA is constrained by resource availability and financial constraints. Investment in CSA training programmes coupled with improved agricultural extension services can enhance farmer adoption rates.

**Keywords:** *African Geography, Climate Change Adaptation, Participatory Research, Indigenous Knowledge Systems, Farmer Field Schools, Sustainable Development Goals, Agroecology*

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