



Adoption Rates and Impact Assessment of Climate Change Resilience Strategies on Livelihoods Among Smallholder Farmers in Western Kenya: A Mixed Methods Study

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Abstract

Climate change poses significant challenges to smallholder farmers in Western Kenya, affecting their livelihoods and resilience strategies. A mixed methods study combining quantitative surveys with qualitative interviews, data from government agricultural records, and focus group discussions. The survey revealed that 75% of respondents adopted at least one climate change resilience strategy, primarily involving improved irrigation systems and drought-resistant crop varieties. Qualitative data highlighted the positive impacts on income stability and food security for beneficiaries. Climate change resilience strategies have been effectively adopted by smallholder farmers in Western Kenya, with notable improvements in their livelihoods. Government agencies should increase funding for climate-resilient agricultural technologies and enhance farmer training programmes to maximise benefits from these interventions.

Keywords: *Kenya, Smallholder Farmers, Climate Change, Resilience Strategies, Qualitative Research, Quantitative Analysis, Mixed Methods*

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