



Adoption Rates Among Smallholder Farms in Tanzania: A Randomized Field Trial within Longitudinal Study Framework

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Abstract

This study aims to evaluate adoption rates among smallholder farms in Tanzania within an environmental science context. A mixed-method approach was employed, including quantitative data collection through surveys and qualitative insights from interviews. Randomized field trials were conducted over two seasons to measure the impact of interventions designed to increase adoption rates. During the study period, a notable trend emerged where farms that received targeted training on soil conservation saw an average adoption rate increase of 25% compared to control groups without such intervention. The randomized field trial demonstrated significant efficacy in increasing adoption rates among smallholder farmers in Tanzania, particularly when guided by structured educational programmes focused on environmental sustainability. Based on the findings, it is recommended that policymakers and agricultural extension services incorporate more targeted training programmes into their strategies to accelerate sustainable farming practices. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Tanzania, Smallholder Farms, Methodology, Adoption Rates, Environmental Science, Quantitative Analysis, Qualitative Research*

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