



Quasi-Experimental Design for Measuring Adoption Rates in Smallholder Farm Systems of Uganda: A Methodological Evaluation

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Abstract

Smallholder farming systems in Uganda face challenges related to technology adoption and sustainable practices. A mixed-method approach was employed, including surveys and interviews to assess farmer perceptions and behaviors regarding new farming technologies. The survey results indicated that 42% of farmers were moderately interested in adopting drip irrigation systems, with significant variability across different regions. The quasi-experimental design proved effective in identifying adoption trends but requires further refinement to improve predictive accuracy. Future research should focus on enhancing the survey questions and incorporating additional qualitative data for a more comprehensive understanding of farmer decision-making processes. quasi-experiment, smallholders, Uganda, technology adoption, mixed methods The empirical specification follows $Y = \beta_{0+\beta} p X + varepsilon$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: African agriculture, Smallholder farmers, Quasi-experimental design, Adoption rates, Methodological evaluation, Sustainable practices, Survey methodology

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