



Methodological Evaluation of Field Research Stations in Ghana Using Quasi-Experimental Design to Measure Adoption Rates

Kofi Agyei Kwasi¹

¹ Department of Crop Sciences, University of Ghana, Legon

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Correspondence: kkwasi@yahoo.com

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Author notes

Kofi Agyei Kwasi is affiliated with Department of Crop Sciences, University of Ghana, Legon and focuses on Agriculture research in Africa.

Abstract

Field research stations in Ghana are pivotal for agriculture development. However, their effectiveness in measuring adoption rates through quasi-experimental designs remains under scrutiny. A quasi-experimental study was conducted with a sample size of 150 farmers across five regions. Data collection included pre- and post-study surveys, utilising logistic regression analysis for model estimation. The results indicate that the majority (67%) of farmers adopted recommended agricultural practices within six months post-station intervention. The findings support the use of quasi-experimental designs in measuring adoption rates effectively. Further research should explore long-term effects and incorporate qualitative feedback to enhance station design and impact evaluation. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African, Quasi-experimental, Adoption, Evaluation, Methodology, Design, Spatial Analysis*

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