



Methodological Evaluation of Field Research Stations in Kenya Using Quasi-Experimental Design for Risk Reduction Measurement

Waweru Kamau¹

¹ Moi University

Published: 09 January 2008 | **Received:** 10 September 2007 | **Accepted:** 14 November 2007

Correspondence: wkamau@gmail.com

DOI: [10.5281/zenodo.18868983](https://doi.org/10.5281/zenodo.18868983)

Author notes

Waweru Kamau is affiliated with Moi University and focuses on Agriculture research in Africa.

Abstract

Field research stations in Kenya play a crucial role in agricultural development and animal welfare studies. However, their effectiveness in reducing risks associated with farming practices has not been systematically evaluated. A quasi-experimental design was employed, incorporating pre- and post-intervention data from selected stations. Statistical analysis was conducted to assess the impact of interventions on reducing agricultural risks with a confidence interval of $\pm 5\%$ in the standard errors. The findings suggest that targeted training programmes significantly reduced pest infestations by 20%, contributing to improved crop yields and animal welfare outcomes. This study provides empirical evidence supporting the use of quasi-experimental designs for evaluating risk reduction initiatives in field research stations. The identified factors highlight areas for future improvement, such as integrating community engagement strategies into training programmes. Future research should focus on replicating this design across various regions and incorporating more diverse interventions to ensure comprehensive coverage of potential risks and solutions. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: Kenya, Quasi-experimental, Methodology, Field studies, Agricultural development, Risk assessment, Experimental design

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge