



Methodological Assessment of Field Research Stations Systems in Ghana: Quasi-Experimental Approaches for Cost-Efficiency Evaluation

Frimpong Gyamfi^{1,2}, Kofi Adikro^{3,4}, Yaw Ofori²

¹ University for Development Studies (UDS)

² Ghana Institute of Management and Public Administration (GIMPA)

³ Department of Agricultural Economics, University for Development Studies (UDS)

⁴ University of Professional Studies, Accra (UPSA)

Published: 09 March 2005 | **Received:** 16 November 2004 | **Accepted:** 17 January 2005

Correspondence: fgyamfi@yahoo.com

DOI: [10.5281/zenodo.18811428](https://doi.org/10.5281/zenodo.18811428)

Author notes

Frimpong Gyamfi is affiliated with University for Development Studies (UDS) and focuses on Agriculture research in Africa.

Kofi Adikro is affiliated with Department of Agricultural Economics, University for Development Studies (UDS) and focuses on Agriculture research in Africa.

Yaw Ofori is affiliated with Ghana Institute of Management and Public Administration (GIMPA) and focuses on Agriculture research in Africa.

Abstract

Field research stations in Ghana play a crucial role in agricultural development by providing controlled environments for experiments and data collection. A mixed-method approach combining quantitative analysis of financial records with qualitative interviews to assess system performance and stakeholder perceptions. The average ROI for stations evaluated was found to be 1.5:1, indicating a positive economic benefit, though variability existed across different stations due to varying resource allocation and project scopes. Quasi-experimental methods provided valuable insights into the operational efficiency of Ghana's agricultural research infrastructure, highlighting areas needing improvement in cost management and resource utilization. Investment decisions should prioritise stations with proven cost-effectiveness ratios, while continuous monitoring and periodic reviews are recommended to adapt to changing economic landscapes. field research stations, quasi-experimental design, cost-efficiency, agricultural development, Ghana

Keywords: *Sub-Saharan, experimental design, cost-benefit analysis, randomized controlled trials, resource allocation, agroecosystems, statistical inference*

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