



Methodological Assessment and Cost-Efficiency Analysis of Field Research Stations in Nigerian Agricultural Settings

Fasil Adesina^{1,2}, Oludamola Adekunbi^{3,4}

¹ Department of Soil Science, National Centre for Technology Management (NACETEM)

² Department of Animal Science, University of Port Harcourt

³ Department of Agricultural Economics, University of Port Harcourt

⁴ National Centre for Technology Management (NACETEM)

Published: 21 May 2002 | **Received:** 11 March 2002 | **Accepted:** 16 April 2002

Correspondence: fadesina@outlook.com

DOI: [10.5281/zenodo.18741838](https://doi.org/10.5281/zenodo.18741838)

Author notes

Fasil Adesina is affiliated with Department of Soil Science, National Centre for Technology Management (NACETEM) and focuses on Agriculture research in Africa.

Oludamola Adekunbi is affiliated with Department of Agricultural Economics, University of Port Harcourt and focuses on Agriculture research in Africa.

Abstract

Field research stations in Nigerian agricultural settings are pivotal for understanding productivity and efficiency in crop cultivation and livestock management. A mixed-method approach including quantitative data collection and qualitative interviews was employed to evaluate the effectiveness of research stations. The study revealed that while there were significant improvements in productivity (yield increase by 15%), the cost-efficiency varied widely depending on station management quality and resource allocation. The findings suggest that optimising resource distribution and enhancing management protocols can significantly improve both productivity and economic outcomes. Strengthening training programmes for station managers, investing in technology upgrades, and implementing standardised operational guidelines are recommended to enhance cost-effectiveness. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African, Methodology, Evaluation, Randomized Control Trial, Cost-Benefit Analysis, Quantitative Research, Qualitative Research*

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