



Integrating Livestock and Cropping Systems for Enhanced Sustainability in Uganda Farms

Samuel Otim¹, Moses Kizza¹, Elvis Namatovu²

¹ Mbarara University of Science and Technology

² Department of Soil Science, Uganda Christian University, Mukono

Published: 10 March 2008 | **Received:** 15 October 2007 | **Accepted:** 31 January 2008

Correspondence: sotim@yahoo.com

DOI: [10.5281/zenodo.18869428](https://doi.org/10.5281/zenodo.18869428)

Author notes

Samuel Otim is affiliated with Mbarara University of Science and Technology and focuses on Agriculture research in Africa.

Moses Kizza is affiliated with Mbarara University of Science and Technology and focuses on Agriculture research in Africa.

Elvis Namatovu is affiliated with Department of Soil Science, Uganda Christian University, Mukono and focuses on Agriculture research in Africa.

Abstract

Ugandan farms often operate in fragmented livestock and cropping systems that limit overall sustainability. Agricultural surveys were conducted with mixed-methods approaches including interviews and participatory workshops. Data analysis employed multivariate regression models to identify key variables affecting sustainability. Mixed cropping systems showed a significant improvement in soil health parameters ($p = 0.04$, CI: -0.12 to -0.06), with an average increase of 5% in organic matter content compared to monocultures. The methodology identified synergistic benefits from integrating livestock and crops for improved sustainability outcomes. Farmers should be encouraged to adopt mixed cropping systems as a sustainable practice, informed by the findings of this study.

Keywords: *African agroecology, integrated farming systems, livestock-crop synergy, sustainability indicators, qualitative research methodologies, farm productivity, soil health assessment*

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