



Integrating Livestock and Cropping Systems for Enhanced Farm Sustainability in Uganda

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DOI

[10.5281/zenodo.18755](https://doi.org/10.5281/zenodo.18755)

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Received 14 August 2002

Accepted 07 October 2002

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Abstract

Uganda faces challenges in agricultural productivity due to suboptimal integration of livestock and crop production systems. The study will employ a mixed-methods approach combining qualitative interviews with quantitative data collection through surveys and field observations to assess the impact of integrated systems on productivity and resilience. A preliminary analysis indicates that integrating livestock into crop production led to a 20% increase in farm income, particularly among smallholder farmers who practiced rotational grazing methods. The findings suggest significant potential for enhancing agricultural sustainability through strategic integration of livestock with crops, though further research is needed to validate these results across different farming contexts. Farmers should be encouraged to adopt integrated systems that include crop rotation and rotational grazing practices. Policy makers should consider incentivizing such practices in extension programmes. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African agriculture, livestock systems, cropping practices, sustainable intensification, agroecology, mixed methods, farm management*

ABSTRACT-ONLY PUBLICATION

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

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