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Integrating Livestock and Cropping Systems for Enhanced Farm Sustainability in Uganda: A Comparative Analysis

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Abstract

This study addresses a current research gap in Agriculture concerning Integrating Livestock and Crop Production for Improved Farm Sustainability in Uganda in Uganda. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured analytical approach was used, integrating formal modelling with domain evidence. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Integrating Livestock and Crop Production for Improved Farm Sustainability in Uganda, Uganda, Africa, Agriculture, comparative study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. The empirical specification follows $Y = \beta_{0+\beta}^{\rightarrow} p\, X + varepsilon$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, African, Livestock-Crop, Sustainability, Fodder, Cropping, Systems, Agroecology*

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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