African Small Animal Veterinary Practice

Integrated Farming Systems for Resource-Poor Farmers in Benin: A Case Study

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Abstract

This study addresses a current research gap in Agriculture concerning Integrated Farming Systems for Resource-Poor Farmers in Benin in Benin. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. 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. Integrated Farming Systems for Resource-Poor Farmers in Benin, Benin, Africa, Agriculture, original research 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: *African Agriculture, Resource Management, Integrated Farming Models, Sustainable Practices, Participatory Rural Appraisal, Farmer Field Schools, Agroecology*

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