



Community-Based Forestry Initiatives in Eastern Uganda: Species Diversity Outcomes

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Felix Mugisha is affiliated with Makerere University Business School (MUBS) and focuses on Energy research in Africa.

Abstract

This study addresses a current research gap in Energy concerning Community-Based Forestry Initiatives for Biodiversity Conservation and Sustainable Forest Management in Eastern Uganda: Species Diversity Outcomes 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. Community-Based Forestry Initiatives for Biodiversity Conservation and Sustainable Forest Management in Eastern Uganda: Species Diversity Outcomes, Uganda, Africa, Energy, qualitative study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. The empirical specification follows $Y = \beta_{0+\beta}^{-} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Uganda, Community Forestry, Biodiversity Conservation, Sustainable Management, Forest Ecology*

ABSTRACT-ONLY PUBLICATION

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