



Ten-Year Forest Growth and Emissions Reduction Metrics in Mozambique under Community-Based Forestry Management Programmes: A Comprehensive Analysis

Ndidi Dhlakama¹

¹ Lúrio University

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Correspondence: ndhlakama@outlook.com

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Author notes

Ndidi Dhlakama is affiliated with Lúrio University and focuses on Energy research in Africa.

Abstract

Community-based forestry management programmes have emerged as a significant approach to combat deforestation and promote carbon sequestration in Mozambique. Data was sourced from a longitudinal dataset of community forestry projects across Mozambique, employing statistical models to assess growth patterns and carbon sequestration impacts over the study period. Community forestry initiatives have shown potential for sustainable forest growth and carbon sequestration, though variability across regions necessitates tailored policies to optimise outcomes. Policymakers should prioritise funding and support for community-led projects, while encouraging research into optimal management techniques and long-term sustainability measures. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African geography, Carbon sink analysis, Community forestry, Ecosystem services, Forest dynamics, Participatory monitoring, Sustainable land management*

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