



Ecological Restoration Techniques in Ugandan Degraded Lands: Case Studies

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Abstract

Degraded lands in Uganda are a significant ecological concern, affecting biodiversity and local communities' livelihoods. Field surveys were conducted to assess initial land conditions and post-restoration outcomes. Statistical models were used to analyse data from four intervention sites. Tree species survival rates averaged at 75% across all sites with a confidence interval of $\pm 5\%$, indicating variable success due to site-specific factors. While overall restoration efforts showed promise, localized conditions influenced outcomes, necessitating tailored strategies for each degraded landscape. Localized ecological assessments are recommended before implementing large-scale restoration projects in Uganda. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Degraded Landscapes, Geographical Information Systems, Ecological Restoration, Conservation Biology, Community Engagement, Habitat Restoration, Biodiversity Conservation*

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