



# Ecological Restoration Techniques in Uganda's Degraded Lands: A Comparative Case Study Analysis

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## Abstract

Degraded lands in Uganda face significant environmental challenges requiring innovative restoration techniques. A comparative case study approach was employed, assessing multiple restoration projects through qualitative field observations and data collection. The analysis revealed a clear trend of increased vegetation cover by 20% within the first year for treatments using native seed mixes compared to traditional soil amendments. Native seed mixtures proved superior in accelerating ecological recovery, warranting their widespread adoption in Ugandan restoration efforts. Government agencies and NGOs should prioritise funding for projects utilising native seed mixes as a primary restoration tool. ecological restoration, degraded lands, Uganda, native seed mixes, vegetation cover The empirical specification follows  $Y = \beta_{0+\beta}^{-} p X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *Degraded Lands, Ecological Restoration, Conservation Biology, Landscape Ecology, Restoration Ecology, Afforestation, Grassland Management*

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