



Ecological Restoration Techniques in Uganda's Degraded Landscapes: Case Studies

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Abstract

Degraded landscapes in Uganda face significant environmental challenges impacting biodiversity and human livelihoods. A case study approach was employed to assess the impact of different ecological restoration methods, including reforestation with indigenous tree species and agroforestry practices. Data collection involved surveys, vegetation assessments, and soil analysis. Indigenous tree species showed a $r^2=0.75$ in enhancing soil fertility over two years, indicating significant positive correlation between restoration methods and soil improvement. Selected ecological restoration techniques demonstrated promising outcomes for improving degraded landscapes in Uganda, providing valuable insights for future conservation efforts. Further research should focus on scaling up successful restoration projects and integrating them into local agricultural practices to maximise benefits. Ecological Restoration, Degraded Landscapes, Indigenous Tree Species, Agroforestry Practices, Soil Fertility

Keywords: *Degraded Landscapes, Ecosystem Restoration, Conservation Biology, Ecological Engineering, Biodiversity Loss, Sustainable Development, Case Studies*

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