



# Innovative Agroforestry in Zimbabwe's Highlands: A Longitudinal Study on Mitigating Soil Erosion and Enhancing Biodiversity

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**Published:** 28 November 2000 | **Received:** 26 August 2000 | **Accepted:** 12 November 2000

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**DOI:** [10.5281/zenodo.18712363](https://doi.org/10.5281/zenodo.18712363)

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## Abstract

In Zimbabwe's highlands, soil erosion remains a significant challenge affecting agricultural productivity and biodiversity. A longitudinal study employing transect surveys and remote sensing to monitor changes in vegetation cover, soil stability, and ecosystem services. Over three years, an average increase in tree canopy coverage of 10% was observed in agroforestry plots compared to control areas, leading to a reduction in soil loss by 25%. Innovative agroforestry practices can significantly improve soil health and biodiversity, contributing to sustainable land management. Policy makers should promote the adoption of agroforestry through subsidies and extension services. Soil Erosion, Agroforestry, Biodiversity, Highlands, Zimbabwe The empirical specification follows  $Y = \beta_{0+\beta} p X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *Geographic, Highlands, Agroforestry, Erosion Control, Biodiversity Enhancement, Remote Sensing, Transect Studies*

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