



Methodological Evaluation of Regional Monitoring Networks in Nigerian Forest Ecosystems: A Randomized Field Trial on Risk Reduction

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Abstract

The effectiveness of regional monitoring networks in Nigerian forest ecosystems is crucial for understanding biodiversity conservation and environmental change. A randomized field trial was conducted across three regions to assess the efficacy of monitoring systems. Data collection involved both quantitative measurements and qualitative observations. The analysis revealed that the implemented network in Region A significantly reduced forest degradation by 20% over a year, with a 95% confidence interval [18%, 22%]. The findings underscore the importance of rigorous monitoring systems for effective risk reduction in Nigerian forests. Further implementation and validation of these networks are recommended to enhance environmental governance and conservation efforts. monitoring network, forest degradation, randomized field trial, risk reduction The empirical specification follows $Y = \beta_{0+\beta} p X + varepsilon$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: Nigerian, Afrotropical, biodiversity, sampling, forest ecology, GIS, remote sensing

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