



Sustainable Land Management Strategies in Sahelian Chad: Combating Desertification Through Ecological Restoration Practices

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Abstract

Sahelian Chad is facing significant desertification challenges due to climate change and unsustainable land management practices. The research employs a mixed-methods approach combining qualitative interviews with key stakeholders and quantitative analysis of satellite imagery data. A preliminary analysis indicates that tree planting initiatives have shown an average success rate of 85% in restoring degraded land areas, reducing soil erosion by approximately 40%. The results suggest that ecological restoration practices can be effective in mitigating desertification and improving local livelihoods. Promoting community-led initiatives and integrated ecosystem management approaches are recommended for sustainable desertification control in Chad's Sahel region. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sahelian, Sahel, Ecological Restoration, Sustainable Development, Soil Conservation, Climate Change Adaptation, Participatory Mapping*

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