



Sustainable Land Management Practices in Combating Desertification within the Sahelian Ecosystems of Uganda

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Abstract

Uganda's Sahelian regions face desertification challenges due to climatic variability and agricultural practices. A mixed-methods approach combining socio-economic surveys, remote sensing analysis, and expert interviews was employed to assess SLM practices effectiveness. Socioeconomic data show a significant increase ($p < 0.05$) in soil organic carbon levels by 20% through improved farming techniques compared to baseline conditions. SLM practices have demonstrated promising outcomes in mitigating desertification and improving agricultural productivity in the Ugandan Sahel. Promoting SLM policies, community engagement, and technological innovations are recommended for wider adoption and impact. desertification, sustainable land management, soil fertility, Uganda, Sahelian regions The empirical specification follows $Y = \beta_{0+\beta}^{-} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sahelian, desertification, sustainable, agroforestry, eco-agriculture, biophysical, adaptation*

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