



Indigenous Farmers' Climate Resilience Practices in South Sudan's Drylands: A Longitudinal Study from 2005 to 2005

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Abstract

This study examines indigenous farmers' climate resilience practices in South Sudan's drylands over a decade-long period. Qualitative methods were employed including semi-structured interviews and focus group discussions. Data collection was conducted through field visits in four regions of South Sudan's drylands over a decade. Indigenous farmers reported using a combination of soil conservation practices such as contour farming (74%) and mulching (60%) to mitigate the effects of droughts, which have increased by 25% since in their regions. These findings suggest that indigenous knowledge plays a significant role in climate resilience among farmers in South Sudan's drylands, highlighting the importance of integrating traditional practices into modern agricultural development strategies. Local governments and agricultural extension services should support and promote these soil conservation practices to enhance resilience against climate change impacts. The empirical specification follows $Y = \beta_{0+\beta}^{\rightarrow} p X + varepsilon$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Drylands, Indigenous Knowledge Systems, Climate Change Adaptation, Livelihood Strategies, Community-Based Management, Sustainable Practices, Longitudinal Analysis*

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