



Climate Resilient Agriculture Practices and Food Security Among Smallholder Farmers in Southern Sudan and Namibia: A Comparative Study

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Abstract

Southern Sudan and Namibia are regions facing significant climate variability that impacts smallholder farmers' agriculture practices and food security. A comparative study design was employed with mixed-method data collection including surveys, interviews, and participatory observation. Data were analysed using statistical software for quantitative insights into practice adoption and qualitative analysis to explore farmer perspectives and challenges. Farmers in both regions demonstrated significant improvements in crop yields following the implementation of climate resilient practices, with a notable increase in maize production by up to 30% in Namibia compared to Southern Sudan. Climate resilient agriculture practices have shown promise in enhancing food security among smallholder farmers in both countries, though challenges remain related to infrastructure and financial support for adoption. Implementing targeted agricultural extension services and providing microfinance options are recommended to facilitate wider adoption of climate-resilient farming techniques.

Keywords: *African Agriculture, Climate Resilience, Smallholder Farmers, Food Security, Impact Evaluation, Comparative Analysis, Sustainability Models*

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