



Climate Resilience Training Workshops for Smallholder Farmers in South Sudan: A Longitudinal Study of Adaptation to Weather Extremes,

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Abstract

Climate resilience has become a critical issue for smallholder farmers in South Sudan, where weather extremes frequently disrupt agricultural productivity and food security. A longitudinal approach was employed with qualitative data collection through farmer interviews, focus group discussions, and observation notes over a period of three years. Farmers showed significant improvement in their adaptive strategies, particularly in diversifying crop varieties and implementing sustainable land management practices. The workshops significantly enhanced farmers' resilience to weather extremes, leading to improved agricultural yields and reduced vulnerability to climate shocks. Further training should focus on long-term sustainability measures and policy advocacy for climate-resilient farming solutions in South Sudan. Climate Resilience, Smallholder Farmers, Weather Extremes, Adaptation Strategies, Training Workshops

Keywords: *Geographical Indicators, Smallholder Agriculture, Climate Change Adaptation, Longitudinal Studies, Community Empowerment Programmes, Participatory Action Research, Indigenous Knowledge Systems*

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