African Cultural Anthropology (Sociology focus)

African Community Dynamics in Climate Adaptation: A Theoretical Framework for Maize Farmers in Senegal's Villages

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Abstract

African communities are increasingly facing climate-induced challenges that affect their traditional livelihoods such as farming. In Senegal's southern villages, maize farmers have been particularly vulnerable to erratic weather patterns and reduced yields. The study will employ a qualitative approach, gathering insights from interviews and focus groups with maize farmers, village leaders, and meteorologists. Theoretical frameworks derived from existing literature on community resilience and agricultural practices in similar contexts will be used as a basis for the theoretical development. The theoretical framework underscores the importance of community collaboration and knowledge sharing in enhancing climate resilience among maize farmers in Senegal's southern regions. Policy makers should support initiatives that foster community-led adaptation strategies, such as weather monitoring systems and educational programmes on sustainable agricultural practices. These measures could significantly improve crop yields and farmer livelihoods.

Keywords: *African Geography, Community-Based Adaptation, Maize Yield Indices, Climate Data Analysis, Spatial Statistics, GIS Applications, Participatory Methods*