African Cross-Cultural Psychology

Climate-Smart Agriculture Practices in Semi-Arid Ethiopia: Farmer Participation and Yield Enhancements

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Abstract

Climate change poses significant challenges to agriculture in semi-arid regions of Ethiopia, where erratic rainfall and drought threaten crop yields. The study employed a mixed-method approach combining surveys with focus group discussions to gather data from 150 randomly selected farmers across three semi-arid districts of Ethiopia. Participants reported higher adoption rates (78%) for CSAPs compared to conventional practices, leading to an average yield increase of 20% in the first year post-intervention. The findings suggest that integrating farmer participation into climate-smart agriculture strategies can effectively enhance yields and resilience against climate variability. Policy makers should prioritise training programmes for farmers on CSAPs, alongside financial incentives to encourage wider adoption of these practices in Ethiopia's semi-arid regions.

Keywords: *Sahelian, agroforestry, participatory, climate-resilience, adaptation, iterative, biophysical*

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