



Adoption Dynamics of Climate Smart Agriculture Among Women Farmers in the Volta Region, Ghana

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Abstract

Climate change poses significant challenges to agricultural productivity in sub-Saharan Africa, particularly affecting women farmers who often rely on rain-fed crops and have limited access to resources. The study employed mixed-methods research including surveys, key informant interviews, and participatory rural appraisal techniques to gather data from 200 randomly selected women farmers. Data analysis used content analysis and statistical tests to identify patterns of adoption among the sample population. Women farmers in the Volta Region showed a moderate interest in adopting CSA practices (35% reported willingness), with higher uptake observed among those who perceived increased benefits such as improved soil health and reduced water use. There was a notable preference for integrated pest management techniques over traditional chemical pesticides. Despite initial enthusiasm, barriers to CSA adoption included limited knowledge about the technology, financial constraints, and lack of supportive policies from local authorities. To enhance CSA adoption among women farmers, policymakers should prioritise education programmes on CSA benefits and provide subsidies for input costs. Increased support for extension services is also recommended to address practical challenges faced by adopters.

Keywords: *Geographical Indicators of Agriculture, Gender Studies, Participatory Methods, Sustainable Practices, Climate Resilience, Farmer Field Schools, Livelihood Security*

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