



Climate-Smart Agriculture Among Northern Ghanaian Smallholders: A Thorough Impact Assessment

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Abstract

Climate-smart agriculture (CSA) is a set of practices designed to enhance agricultural productivity while reducing greenhouse gas emissions and enhancing resilience to climate change. The study employed mixed-methods research design combining quantitative surveys with qualitative case studies to assess farmer perceptions and practices. Farmers showed a significant interest in adopting CSA practices, particularly those related to soil health management (65% reported increased soil organic matter content). CSA adoption led to improved yields and reduced input costs among northern Ghanaian smallholders, highlighting the need for tailored extension services. Implement targeted farmer training programmes focusing on CSA practices and provide access to low-cost inputs such as seeds and fertilizers.

Keywords: *Sub-Saharan, Smallholder, Sustainability, Adaptation, Participatory, Interventions, Ecosystem Services*

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