



Climate-Smart Agriculture Among Maasai Herders: A Three-Year Impact Assessment in Northern Kenya

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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 increasing resilience to climate change. A mixed-methods approach combining qualitative interviews with quantitative surveys was employed to gather data from 150 Maasai households over the three-year study period. Livestock mortality rates decreased by 20% in areas implementing CSA practices, correlating with improved feed quality and reduced disease transmission. The findings suggest that CSA adoption can significantly improve the economic viability and sustainability of Maasai pastoralism under climate variability. Government agencies should prioritise funding for training programmes on CSA, while NGOs should expand their support to include community-led initiatives and technology transfer.

Keywords: *Kenya, Maasai, resilience, sustainable practices, climate adaptation, pastoralism, biophysical assessment*

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