



Resilience Framework for Climate Change Adaptation in East African Highland Coffee Growers: A Longitudinal Analysis

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Abstract

Climate change poses significant challenges to coffee growers in East African highlands, affecting yields and incomes. Not applicable as this is a theoretical framework article. The resilience framework highlights the importance of integrated agricultural practices, early warning systems, and community-based adaptation strategies to enhance farmer resilience against climate shocks. Investment in research and development of drought-resistant coffee varieties is recommended alongside policy support for insurance schemes and credit facilities. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *East African Highlands, Climate Resilience, Adaptation Strategies, Agroecology, Sustainable Practices, Longitudinal Analysis, Climatology*

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