



Theoretical Foundations of Varietal Adoption Among Smallholder Cassava Farmers in Western Uganda: A Longitudinal Perspective

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Abstract

Improved cassava varieties have shown promise in increasing yields among smallholder farmers in Western Uganda, yet their adoption remains suboptimal. Not applicable (Key insights section will provide empirical results). The theoretical framework identifies key drivers and constraints affecting varietal adoption among smallholder farmers in Western Uganda. Policy interventions should focus on enhancing farmer capacity through training and improving access to improved varieties. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African geography, cassava cultivation, smallholder farming, yield assessment, long-term impact, agroecology, sustainability models*

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