



Sustainable Innovations in Livestock Feeding for Smallholder Farmers: A Theoretical Framework for Northern Tanzania

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Abstract

Livestock farming is a critical component of agriculture in Northern Tanzania, particularly for smallholder farmers who rely on livestock for income and food security. A mixed-methods approach combining qualitative interviews with quantitative farmer satisfaction surveys to gather data from approximately 200 randomly selected households across four districts in Northern Tanzania. This theoretical framework provides insights into the factors affecting farmer adoption of sustainable innovations in livestock feeding, emphasising the importance of community engagement and continuous education for successful implementation. Policy makers should prioritise investments in infrastructure supporting feed supply chains and comprehensive training programmes to enhance smallholder farmers' capacity to adopt sustainable practices effectively.

Keywords: *African Geography, Smallholder Farmers, Livestock Systems, Sustainability Theory, Farmer Empowerment, Mixed Methods, Ethnography*

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