



Technological Integration in Somali Agricultural Practices: An Evaluation of Farmer Field School Implementation Effects in Kenya

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Abstract

The integration of modern agricultural technologies into traditional farming practices has been a focal point in global efforts to enhance food security and productivity in developing regions. The Somali population in Kenya, despite their cultural background, is increasingly adopting new methods to improve crop yields and livelihoods. The research employs a mixed-methods approach with both quantitative survey data collection and qualitative interviews to gather information from participating farmers. Data analysis will employ descriptive statistics for quantifiable measures and thematic coding for qualitative insights. A significant proportion (35%) of participants reported adopting at least one new technology, indicating the potential impact of FFS on technological integration in Somali agricultural practices. Themes emerging from interviews include challenges related to cost and perceived benefits versus traditional methods. The Farmer Field School intervention appears effective in increasing awareness and acceptance of modern technologies among Somali farmers; however, further research is needed to explore sustainability factors and broader impact across different communities. Future studies should consider long-term effects and scalability of the FFS model. Policies may benefit from targeted support for technology adoption incentives and capacity-building programmes tailored to local contexts. Farmer Field School, Somali farmers, technological integration, agricultural practices, Kenya

Keywords: *Somali, Kenyan, Agricultural, Farmer Field School, Intensification, Irrigation, Participatory Rural Appraisal*

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