



Revisiting Field Research Station Systems in Kenya: Quasi-Experimental Assessment of Adoption Rates

Odhiambo Kinyanjui¹

¹ Department of Advanced Studies, Moi University

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Correspondence: okinyanjui@hotmail.com

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Author notes

Odhiambo Kinyanjui is affiliated with Department of Advanced Studies, Moi University and focuses on Environmental Science research in Africa.

Abstract

Field research stations in Kenya have been established to monitor seismic activity. Previous studies have documented their establishment but lacked detailed analysis of adoption rates. A mixed-method approach was employed, including surveys and observational studies to evaluate the effectiveness and uptake of these stations in monitoring seismic activity. Significant variation was observed in the adoption rates among different regions. For example, in the Rift Valley region, only 40% of the proposed field research stations were operational within two years post-establishment, while in coastal areas, 65% had active operations by the same period. The quasi-experimental design revealed that environmental science applications influenced adoption rates significantly. Factors such as funding availability and local community engagement played crucial roles. Future research should focus on improving data collection methods to ensure more accurate assessments of station functionality, particularly in regions with lower operational rates. Field Research Stations, Adoption Rates, Quasi-Experimental Design, Environmental Monitoring The empirical specification follows $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: Kenyan, adoption rates, quasi-experimental, methodology, stations, monitoring, seismic

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