

2011

Enhancing Peri-Urban Dairy Production: IoT-Enabled Hydroponic Fodder Adoption, Milk Fat Content and Feed Cost Analysis for Small- Scale Farmers in Eldoret, Kenya

M, u, s, a, C, h, e, r, u, i, y, o, t, ,, W, a, n, j, i, k, u, K, i, p, r, o, p

DOI: <https://doi.org/10.5281/zenodo.18570684>

| Abstract

This study addresses a current research gap in African Studies concerning Adoption of hydroponic fodder units using IoT monitoring by small-scale dairy farmers in peri-urban areas of Eldoret, Kenya: Milk fat content and feed cost in Kenya. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A mixed-methods design was used, combining survey and interview data collected over the study period. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Adoption of hydroponic fodder units using IoT monitoring by small-scale dairy farmers in peri-urban areas of Eldoret, Kenya: Milk fat content and feed cost, Kenya, Africa, African Studies, original research This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.
