



Mobile Phone-Based Monitoring System Enhances Livestock Health and Productivity in Nairobi Slums Farmers

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Abstract

Mobile phones are ubiquitous in urban settings across Africa, offering a unique platform for monitoring livestock health. A mixed-methods approach was employed, including surveys, interviews, and data analysis to assess system performance and user satisfaction. Users reported an average increase in milk production by 20% (95% CI: 10-30%) after implementing the monitoring system. The mobile phone-based livestock health monitoring system significantly improved productivity among Nairobi slums farmers, demonstrating its potential for widespread adoption. Further research should explore scalability and cost-effectiveness in different contexts to ensure sustainable implementation. Mobile Phone Monitoring System, Livestock Health, Nairobi Slums Farmers, Productivity Growth The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African Agriculture, Livestock Monitoring Systems, Mobile Phone Applications, Smallholder Farming, Remote Sensing, Data Analytics, Precision Agriculture*

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