



# Urban Food Waste Recycling in Nairobi Slums: Quantifiable Reductions and Public Health Impacts

Kinyanjui Kihara<sup>1</sup>

<sup>1</sup> African Population and Health Research Center (APHRC)

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**Correspondence:** [kkihara@yahoo.com](mailto:kkihara@yahoo.com)

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## Author notes

*Kinyanjui Kihara is affiliated with African Population and Health Research Center (APHRC) and focuses on Environmental Science research in Africa.*

## Abstract

Urban food waste is a significant environmental issue in Nairobi slums, contributing to landfills and greenhouse gas emissions. A mixed-methods approach including quantitative surveys and qualitative interviews was employed to collect data from 10 randomly selected slum communities over a six-month period. Recycling efforts resulted in an average reduction of 25% in food waste per household, with specific themes emerging around community engagement and sanitation improvements. Urban food waste recycling initiatives show promise for reducing environmental impact and improving public health outcomes in Nairobi slums. Further studies should focus on scaling up successful models and integrating waste management into urban planning strategies. The empirical specification follows  $Y = \beta_{0+\beta} p X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** Kenya, Nairobi, Slums, Waste Management, Circular Economy, Quantitative Analysis, Qualitative Research, Landfills, Greenhouse Gases, Public Health Impacts

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