African Poultry Veterinary Science

Improving Post-Harvest Handling to Minimise Fruit and Vegetable Losses in Côte d'Ivoire: An Agricultural Perspective

Amadou Ba[1,2], **Mariama Coulibaly**[2,3], **Seyni Diabré**[1]

[1] Côte d'Ivoire Institute for Governance Studies

[2] Côte d'Ivoire National Institute of Education

[3] Côte d'Ivoire Centre for Gender Research

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Correspondence: aba@gmail.com

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Author notes

Amadou Ba is affiliated with Côte d'Ivoire Institute for Governance Studies and focuses on Agriculture research in Africa.

Mariama Coulibaly is affiliated with Côte d'Ivoire National Institute of Education and focuses on Agriculture research in Africa.

Seyni Diabré is affiliated with Côte d'Ivoire Institute for Governance Studies and focuses on Agriculture research in Africa.

Abstract

The post-harvest handling of fruits and vegetables in Côte d'Ivoire is often inefficient, leading to significant losses. Agricultural field surveys were conducted with local farmers and extension workers to gather data on current handling methods. A statistical model was developed to predict the impact of improved handling practices on loss reduction. Field studies showed that a structured cooling system reduced losses by approximately 20% compared to traditional storage methods, indicating significant potential for loss minimization. Improved post-harvest handling can significantly reduce fruit and vegetable losses in Côte d'Ivoire, with the most effective strategy being the implementation of controlled temperature storage systems. Local authorities should promote the adoption of controlled cooling systems to farmers through training programmes and subsidies. Farmers are advised to implement these practices to maximise yield and quality. The empirical specification follows $Y = \beta_{0+\beta}^{\rightarrow} p\, X + varepsilon$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African agroecology, post-harvest losses, value chain analysis, sustainable agriculture practices, climate-smart technologies, yield optimization techniques, agroforestry systems*

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