



Enhancing Horticultural Marketability through Greenhouse Projects in Côte d'Ivoire: Improving Plant Growth Rates

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Abstract

Côte d'Ivoire is a significant producer of horticultural products in West Africa, with greenhouse projects offering potential for enhancing marketability through improved plant growth rates. A mixed-method approach combining quantitative data analysis of greenhouse performance metrics with qualitative interviews to gauge farmer perceptions and practices. Greenhouse projects have demonstrated a significant average growth rate increase of 20% compared to traditional farming methods, attributed to optimised climate control and irrigation systems. The findings suggest that integrating energy-efficient technologies in greenhouse construction can substantially boost horticultural productivity and farmer incomes in Côte d'Ivoire. Government incentives should be provided for farmers adopting greenhouse projects, alongside support for technology transfer and skill development to maximise benefits. The empirical specification follows $Y = \beta_{0+\beta}^{-} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, African, Greenhouse, Crop, Yield, Agroforestry, Vegetable, ClimateSensitiveDesign*

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