



Agroforestry Models for Enhancing Soil Fertility in Central African Rainforest Communities – Farmer Participation and Economic Returns Analysis

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Published: 11 May 2008 | Received: 16 December 2007 | Accepted: 09 April 2008

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DOI: [10.5281/zenodo.18871224](https://doi.org/10.5281/zenodo.18871224)

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Abstract

Central African rainforest communities face challenges in maintaining soil fertility due to deforestation and agricultural practices. A mixed-methods approach combining survey data from 150 □ □ and focus group discussions with 20 community leaders to evaluate model impacts and farmer participation. Farmers expressed strong interest (85%) but varied willingness to adopt new practices, primarily in tree species selection and intercropping strategies. Agroforestry models show promise for sustainable soil fertility enhancement with tailored interventions based on local preferences. Implement farmer-led agroforestry programmes supported by community development initiatives and policy support for adoption of new practices. agroforestry, Central African Republic, soil fertility, farmer participation, economic returns

Keywords: *Central African, agroforestry, soil fertility, mixed methods, community development, economic evaluation, participatory approach*

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