



Soil Quality Preservation and Yield Stability in East African Highlands Coffee Plantations: An Ethnographic Study

Ahmed Al-Hussein¹, Abdullah Al-Qarib²

¹ Department of Advanced Studies, Libyan Academy for Postgraduate Studies

² Department of Research, Libyan Academy for Postgraduate Studies

Published: 03 May 2010 | **Received:** 14 December 2009 | **Accepted:** 20 March 2010

Correspondence: aalhussein@gmail.com

DOI: [10.5281/zenodo.18911789](https://doi.org/10.5281/zenodo.18911789)

Author notes

Ahmed Al-Hussein is affiliated with Department of Advanced Studies, Libyan Academy for Postgraduate Studies and focuses on Business research in Africa.

Abdullah Al-Qarib is affiliated with Department of Research, Libyan Academy for Postgraduate Studies and focuses on Business research in Africa.

Abstract

Coffee plantations in East African highlands are facing challenges related to soil quality degradation and yield variability due to intensive farming practices. An ethnographic approach was employed, involving in-depth interviews and observations among local farmers and industry experts to understand their perspectives and experiences regarding soil conservation and yield stability strategies. Farmers highlighted the importance of intercropping with nitrogen-fixing plants and implementing crop rotation cycles as key practices for maintaining soil fertility. A notable finding was that integrating at least three different crops per year led to a significant increase in soil organic matter by an average of 5% compared to monoculture systems. The study underscores the critical role of local knowledge and integrated farming methods in achieving sustainable soil quality preservation and yield stability in East African coffee plantations. Farmers are encouraged to adopt diversified cropping systems, while policymakers should promote these practices through extension services and subsidies.

Keywords: *African Geographic, Ethnography, Sustainability, Soil Conservation, Agroforestry, Methodology, Community Engagement*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge