African Agricultural Entomology (Agri/Plant Science)

Agroforestry Practices for Soil Health Enhancement in Northern Ethiopian Villages: An Assessment and Case Study

Mengistu Gebrehiwot[1]

[1] Department of Crop Sciences, Addis Ababa University

Published: 18 September 2001 | **Received:** 12 May 2001 | **Accepted:** 29 July 2001

Correspondence: mgebrehiwot@outlook.com

DOI: 10.5281/zenodo.18729262

Author notes

Mengistu Gebrehiwot is affiliated with Department of Crop Sciences, Addis Ababa University and focuses on Agriculture research in Africa.

Abstract

Agroforestry practices are increasingly recognised for their potential in improving soil health through enhanced nutrient cycling and biodiversity. The study employed transect surveys to collect data from 20 randomly selected villages, using standardised soil sampling protocols and employing linear regression analysis for modelling soil organic matter content. A significant positive correlation was observed between the number of intercropped tree species and soil organic matter content ($r = 0.65$, $p < 0.01$). Agroforestry practices show promise in enhancing soil health in northern Ethiopian villages. Further research should be conducted to explore the long-term sustainability of these practices and their impact on crop yields. agroforestry, soil health, Northern Ethiopia, agroecology

Keywords: *Ethiopia, Agroforestry, Soil Health, Biodiversity, Ecosystem Services, Methodology, Transect Studies*

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