

Biomass carbon: litter quality and implications for carbon sequestration by agroforestry in coastal Kenya

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Abstract

The potential impact of agroforestry systems on C sequestration is widely recognized. However limited data is available on its impact on C dynamics, as much of the previous research has been focused on agricultural productivity. This research was therefore conducted to determine biomass carbon and litter quality of commonly recommended improved fallow species, at the coastal region in Kenya. An on-farm experiment was established in 2006 at a coastal Kenya site, using a Randomized Complete Block Design with five agroforestry species replicated thrice. Biomass carbon and litter quality was assessed at 6 and 12 months after sowing (MAS). Data was analysed using R version 2.9.0. The effects of species, measurement time and their interaction on total carbon were highly significant ($P < 0.001$). Total carbon stocks at 6 MAS ranged from 0.04 (*S. sesban*) to 1.4 Mg C /ha (*M. pruriens*) compared to 1.7 (*S. sesban*) to 20.3 Mg C /ha (*T. cordata*) at 12 MAS. Results indicate that substantial amounts of C were sequestered in the biomass. However, duration of the fallow is a key factor to be considered. Litter quality was high with average polyphenol contents of 2.6 % while lignin contents were highest in *T. cordata* (16.3 %).

Key Words

Carbon sequestration, agroforestry, litter quality, lignin.

Introduction

The significance of agroforestry with regards to C sequestration has been widely recognized with an estimated global potential of between 12 and 228 Mg/ha (Albrecht *et al.* 2003). However, variability can be high within various agroforestry systems as biomass C stock depends on several factors including environmental conditions, soil type, magnitude of land degradation and the length of fallow period (Albrecht *et al.* 2003; Kaonga *et al.* 2009). Residue quality differences among agroforestry species further play a key role in regulating long term C build up, as the rate of soil organic matter decomposition is dependent on residue chemical quality which is mainly defined using various ratios of carbon, nitrogen, lignin and polyphenols (Vanlauwe *et al.* 1997).

Contrary to the argument that agroforestry systems can only contribute substantial C sinks if the rotation of trees is greater than 20 years, research has shown that short fallows of even less than 5 years represent a substantial C pool (Schroeder 1994; Albrecht and Kandji 2003). However, there is limited data available on impact of C dynamics by agroforestry species, as previous research has focused on agricultural productivity. Therefore, knowing the sizes of carbon pools in agroforestry systems is important to promoting the land use system as a C sink. The objective of this research was to determine the biomass carbon and litter quality of commonly recommended improved fallow species, in the coastal region of Kenya.

Methods

Site description and soil type

An on farm field experiment was established at Malindi Kenya (0° 12' S 40° 05' E), at an altitude of 20 m ASL, with a mean annual temperature of 25°C (Njarui *et al.* 2004). The site receives a mean annual rainfall of 1050 mm. The soils are weakly developed Arenosols characterized by a sandy texture with less than 15% clay (Walela *et al.* 2006; MOA 1982).

Field experiment and measurements

The experiment was arranged in a randomized complete block design with five treatments and three replicates during May/June 2006 long rains. The plot sizes were 5m by 5m and treatments comprised of: *Crotalaria grahamiana*, *Sesbania sesban*, *Tephrosia vogelii*, *Azadirachta indica*, and *Tephrosia cordata*.

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