



**Review Article**

# Effects of Organic Amendments on Soil Fertility and Environmental Quality: A Review

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**To cite this article:**

Mulugeta Aytenew, Getahun Bore. Effects of Organic Amendments on Soil Fertility and Environmental Quality: A Review. *Journal of Plant Sciences*. Vol. 8, No. 5, 2020, pp. 112-119. doi: 10.11648/j.jps.20200805.12

**Received:** August 5, 2019; **Accepted:** October 22, 2019; **Published:** September 8, 2020

**Abstract:** The main objective of this paper is to review the main effects of organic amendments on soil fertility and environmental quality. The review showed that both organic amendment types could improve the physical, chemical and biological characteristics of soil and environmental quality in a dose dependent manner and frequency of application. Application of organic amendments lower soil bulk density values by more than 5% versus sole urea fertilized soil and for each 1% increase inorganic matter, soil water holding capacity increased by up to 3.7%. Organic amendments play a positive role in chemical characteristics of the soil including increase in organic carbon (up to 58% with 120 t ha<sup>-1</sup> versus unfertilized soil) and organic nitrogen up to 90% depending on the type and the level applied. Repeated application of organic amendments to cropland led to an improvement of microbial biomass by up to 100% and increased enzymatic activity by 30%. Organic amendments also play a positive role in climate change mitigation by soil carbon sequestration although the size of which is dependent on their type, rates and frequency of application. However, organic amendments have more of long-term return rather than short-term positive effect and there is competition of organic materials for the purpose of fodder or fuel. As a result, additional measures such as physical and biological soil conservation measures should get due attention and it is better to use the combination of organic and inorganic fertilizers in order to sustain soil fertility and environmental quality.

**Keywords:** Organic Amendments, Soil Fertility, Environmental Quality, Compost, Farmyard Manure

## 1. Introduction

As population pressure increases and fallow cycles shortened, rapid depletion of nutrients in smallholder farms is one of the major problems affecting food production in Africa including Ethiopia [1]. Soil nutrient replenishment is therefore a prerequisite for halting soil fertility decline. Organic sources of plant nutrients as organic amendment could remain the principal sources for the maintenance of soil fertility and environmental quality, and this may also accomplished through the application of mineral and organic fertilizers [2, 3].

Organic materials derived from plants and animals might possess many characteristics that can improve soil fertility, quality of the environment and enhance crop performance.

These materials can be particularly useful as amendments to severely degraded soils associated with mining activities [4]. As a result, organic amendments (OAs) can be defined as any materials originated from plants and animals and added/or incorporated into the soil for the improvement and/or replacement of physical, chemical and biological properties of soil and in turn to make the environment suitable for production and productivity [5, 6].

The management of nutrients to maintain productivity and quality in crop production systems is great challenge that must be met through a combination of organic materials and management of soil organic matter (OM).

The management strategies might include use of leguminous crops, household wastes, crop residues, compost and manures [7]. In long-term soil conservation and/or

# Soil Amendments And Environmental Quality

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