Determination of The Potential of Briquette Ashes as a Plant Fertilizer vis-à-vis Conventi Commercial Fertilizers

Ndemo Winnie Onchonga¹, Osano Aloys² & Bakari Chaka³

1,283 Department of Mathematics and Physical Sciences, Maasai Mara University
P.O Box 861-20500, Narok, Kenya

Corresponding email: ndemo6013@student.mmarau.ac.ke

Abstract

Fertilizers are applied to replace the essential nutrients for plant growth in the soil after the depleted. Due to the increased food security in Kenya, poor agricultural yields are a sign problem. Inorganic fertilizers (nitrogenous and phosphate based) are expensive in that farmers can afford thus resulting in low yields affecting food security. The main objective study is to determine the potential of briquette ash as a plant fertilizer vis-à-vis converted fertilizers. The study evaluated the physicochemical properties, nutritional composition pesticide efficacy. Briquette ash has a positive impact on soil since it contains soil rich nutrier findings illustrated the high potential of the ash in terms of mineral composition and appear concerning other contemporary fertilizers as proved by their morphology, particle size (in distribution), crystallinity and physical chemicals. On the other hand, bio-assays analysis larvae of aphids and Fall armyworms. These findings illustrate that briquette ash can be suited especially in rural areas where commercial inorganic fertilizer is expensive and out of ruthe common farmers.

Keywords: briquette ash, fertilizer, conventional fertilizer