EFFECT OF COMPOSITION OF PLANTING MEDIA AND LIQUID WASTE TO KNOW ABOUT GROWTH SUGARCANE SEEDS (*Saccharum officinarum L.*)

Nugroho Andy Prasetyo

Plantation Crop Cultivation Study Program
Department of Agricultural Production

ABSTRACT

The use of appropriate varieties and the application of organic fertilizers is expected to be an alternative to increase sugarcane production. Organic fertilizer is one type of fertilizer that can be used to overcome several problems in agricultural production, namely by applying POC (Liquid Organic Fertilizer). Utilization of agricultural waste can be overcome by optimizing the use of local resources to minimize environmental damage. This research is done. The research was conducted in September-December 2022 at the Jember State Polytechnic Innovation Park. The analytical method used was a factorial Randomized Block Design (RBD) consisting of 2 factors, each factor consisting of 3 levels which were repeated 3 times. The results showed that the POC of tofu liquid waste contained nitrogen, phosphorus, and potassium nutrients. The application of tofu liquid waste fertilizer has a significant effect on growth characters, namely root volume and root length. However, it was not significant for the parameters of plant height, number of leaves, stem diameter and number of tillers. The combination of various growing media and tofu liquid waste showed significant differences in root volume parameters. This is because the two treatment factors mutually support vegetative growth in sugarcane seedlings, being able to provide some of the micro and macro nutrients needed by the plants themselves.

Keywords: Sugarcane, Production, Tofu Waste, Composition of Growing Media