

ABSTRAK

In Indonesia, sweet corn has been known since the 1970s, corn has various benefits, ranging from its delicious taste, rich nutrients and nutrient-dense make corn much favored by the public. Corn cultivation using superior varieties that have high productivity, disease resistance, and are suitable in various environments is needed by farmers. Biofertilizers are fertilizers made from microbes that have the ability to provide nutrients and growth hormones for plants. This study aims to determine the effect of liquid biofertilizer on the growth and yield of several varieties of sweet corn. This research was conducted in Sangkelan Village, Banda Baro District, North Aceh Regency, from December 2023 to March 2024. Using a Randomized Block Design (RBD) experiment with two factors and three replications. The first factor is the variety consisting of (V1) Bonanza F1 variety, (V2) the Excotix pertiwi F1 variety, (V3) the Paragon F1 variety, and (V4) the RS-8 variety. The second factor is liquid biofertilizer which consists of 3 levels, namely (P0) 0 ml/liter of water, (P1) 35 ml/liter of water, and (P2) 70 ml/liter of water. The parameters observed were plant height, number of leaves, stem diameter, 50% male flowering age, harvesting age, cob length, cob length without cob, cob weight, cob weight without cob, cob weight per plot and production. The results showed that the best variety was RS-8 (V4) and the best liquid biofertilizer was P1 (35 ml/liter of water). There is an interaction between sweet corn varieties and liquid biofertilizer on the growth and yield of sweet corn.

Keywords: Bioboost Liquid Biofertilizer, Corn and Variety