GROWTH EVALUATION OF SIX SWEET CORN (*Zea mays saccharata* L.) HYBRID POTENTIALS

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ABSTRACT

This study aims to determine the growth of six sweet corn hybrid potentials. The research was carried out on a field located at Jenengan Raya Street, Jenengan Village, Maguwoharjo Sub-district, Depok District, Sleman Regency, Special Region of Yogyakarta. The research was conducted from April to June 2024. The study used a Complete Randomized Block Design with nine treatments and three replications. The treatments consisted of six sweet corn hybrid potentials 50/4-2 CCP X KD1/1(2/2/4), 50/4-2 CC X KD 1/3(48/6/1), 50/4-2 CGE X KD 1/3(48/6/1), 50/4-2 CGE X KD 1/1(2/2/4), 50/4-2 B X KD 1/1(2/1/4), 50/4-2 B X KD 1/1(2/2/4), and some comparison varieties namely Bonanza F1, Exsotic, and Paragon. The observation results were analyzed using Variance Analysis (ANOVA) and then continued using Duncan's Multiple Range Test at the 5% level. The results of the research showed that genotype 50/4-2 CGE X KD 1/1(2/2/4) showed better growth components value in the variables of stem diameter and number of leaves than other hybrid potential plants at the age of 45 days. Thus this genotype had the potential to be released as a hybrid variety because it was able to match the growth of the comparison varieties.

Keywords: sweet corn, hybrid sweet corn, growth evaluation