Karakterisasi Tanaman Jagung (*Zea mays* L.) Delapan Calon Varietas Hibrida

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ABSTRACT

Maize (*Zea mays L.*) is one of the most important food crops in Indonesia. Corn plants are widely used as food, feed and alternative fuels. However, it is not supported by corn productivity. Efforts are made to meet the needs of corn by using seeds of high-quality superior varieties through plant breeding. Characterization of corn plants is an effort to determine the diversity of genotypes and the uniformity of the genotype of hybrid candidates that have the desired character advantages. The research was conducted in May – September 2024 at PT. Surya Kencana Agrifarm Sejahtera. This study uses a non-Factorial RAK experimental design with data analysis using Descriptive Analysis, Cluster Analysis and Key Component Analysis with Minitab 19 software. The test results based on descriptive analysis, cluster analysis and main component analysis (AKU) obtained superior genotypes based on their superiority and uniformity values in the TS 01 genotype with a diversity coefficient value of 0% - 8.7% had the best values on the characteristics of silk flowering age of 56 HST, stem diameter with a value of 22.58 mm and harvest age of 110 HST. The TS 08 genotype with a diversity coefficient value of 0% - 9.43% had the best value in the character of cob height in the 9th book, the number of leaves was 15 leaves, the leaf width with a value of 10.45 cm and the tassel flowering age was 56 HST. TS 01 and TS 08 have a similarity *value* of < 50%.

Keywords: Characterization, Genotype diversity, Uniformity