

STUDI KARAKTERISTIK MORFOLOGI DAN GENETIK BEBERAPA GENOTIPE JAGUNG MANIS JAGUNG MANIS SILANG GANDA

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ABSTRAK

Karakterisasi tanaman merupakan salah satu upaya dalam pembentukan varietas unggul yang bertujuan untuk mengetahui karakter-karakter penting yang bernilai ekonomis dan sebagai penciri dari suatu varietas. Penelitian ini bertujuan mengetahui karakteristik penciri beberapa tanaman jagung manis silang ganda, mengetahui nilai korelasi antar karakter morfologi dengan hasil beberapa tanaman jagung manis ganda, mengetahui karakter morfologi yang terkait dengan tingkat kemanisan dan hasil beberapa tanaman jagung manis silang ganda. Penelitian menggunakan Rancangan Acak Kelompok Lengkap (RAKL) dengan 3 ulangan. Perlakuan terdiri dari 10 genotipe jagung manis yaitu Paragon x Bonanza, Bonanza x Paragon, Paragon x Talenta, Talenta x Paragon, King Sweet x Paragon, Paragon x King Sweet, Bonanza, Talenta, King Sweet, dan Paragon. Data dianalisis dengan menggunakan analisis ragam (ANOVA) kemudian dilanjutkan dengan analisis korelasi. Hasil penelitian menunjukkan bahwa genotipe jagung manis King Sweet x Paragon memiliki hasil terbaik pada parameter jumlah tongkol, bobot tongkol klobot, bobot tongkol segar, dan jumlah baris pertongkol. Karakter hasil memiliki korelasi positif dengan jumlah daun ($r=0,351$), diameter batang ($r=0,075$), panjang tongkol ($r=0,099$), dan jumlah baris pertongkol ($r=0,69$). Tinggi tanaman, panjang daun, letak tongkol, jumlah tongkol, diameter tongkol, dan panjang tongkol berkorelasi positif dengan tingkat kemanisan.

Kata kunci: *karakteristik, silang ganda, korelasi, jagung manis*

STUDY OF MORPHOLOGICAL AND GENETIC CHARACTERISTICS OF SEVERAL GENOTYPES OF DOUBLE-CROSSED SWEET CORN

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ABSTRACT

Plant characterization is one of the efforts in the formation of superior varieties which aims to determine the important characters that have economic value and as a characteristic of a variety. This study aims to determine the characteristics of several double-crossed sweet corn plants, to determine the correlation between morphological character with yield components of several double-crossed sweet corn plants, to determine the morphological characters that correlate with the level of sweetness of several double-crossed sweet corn plants. The study used Randomized Complete Block Design (RCBD) with 3 replications. The treatments consisted of 10 sweet corns, Paragon x Bonanza, Bonanza x Paragon, Paragon x Talenta, Talenta x Paragon, King Sweet x Paragon, Paragon x King Sweet, Bonanza, Talenta, King Sweet, and Paragon. The data were analyzed using analysis of variance (ANOVA) and then continued with correlation analysis. The results showed that the King Sweet x Paragon genotype had the best results in number of ears variables, ear weight, ear weight without husk, and number rows of cob. The yield character had a positive correlation with the number of leaves ($r=0,351$), stem diameter ($r=0,075$), ear length ($r=0,099$), and the number of rows per ear ($r=0,69$). Plant height, leaf length, location of the ear, number of ears, diameter of the ear, and length of the ear were positively correlated with the level of sweetness.

Keywords: *characteristic, double-cross, sweet corn, correlation*