

**KARAKTERISASI MORFOLOGI DAN PENDUGAAN PARAMETER
GENETIK TANAMAN JAGUNG MANIS (*Zea mays saccharata* Sturt)
GENERASI S3**

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ABSTRAK

Karakterisasi morfologi diperlukan untuk mendeskripsikan karakter dan keragaman genetik tanaman. Penelitian ini bertujuan untuk mendapatkan informasi pendugaan karakter morfologi, nilai heritabilitas, koefisien keragaman genetik jagung manis generasi S3. Penelitian menggunakan Rancangan Acak Kelompok Lengkap (RAKL) terdiri dari satu faktor dengan 3 ulangan. Terdapat 7 genotipe yaitu SBTL 1-2-22, TLSB 1-63-25, TLSB 1-61-39, SBTL 1-34-64, TLSB 2-55-22, TLSB 3-25-69, SBTM 1-33-11, dan 2 varietas pembanding yaitu Talenta dan Sweet Boy, sehingga terdapat 27 unit percobaan. Data yang diperoleh dianalisis menggunakan analisis ragam (ANOVA), dilanjutkan dengan uji *Scott Knott*. Parameter genetik dianalisis menggunakan KKG, dan nilai heritabilitas. Hasil penelitian menunjukkan bahwa karakterisasi morfologi variabel baris biji yaitu lurus rapat kecuali genotipe SBTL 1-2-22, ujung daun yaitu runcing dan warna biji dengan nilai 2.5y8/10. Nilai KKG sedang pada variabel tinggi tanaman, tinggi letak tongkol, berat tongkol tanpa klobot dan panjang tongkol tanpa klobot dan variabel lain memiliki nilai rendah. Nilai heritabilitas tinggi pada variabel tinggi tanaman, tinggi letak tongkol, jumlah daun, umur berbunga jantan, umur berbunga betina, diameter batang, kadar kemanisan, diameter tongkol tanpa klobot, panjang tongkol tanpa klobot dan umur panen. Genotipe TLSB 2-55-22 direkomendasikan sebagai genotipe dengan hasil lebih baik dilihat dari karakter jumlah daun, diameter batang, kadar kemanisan, berat tongkol dan diameter tongkol.

Kata Kunci : Genotipe, Jagung Manis, Heritabilitas, KKG

**MORPHOLOGICAL CHARACTERIZATION AND ESTIMATION OF
GENETIC PARAMETERS OF SWEET CORN PLANTS (*Zea mays*
saccharata Sturt) S3 GENERATION**

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ABSTRACT

Morphological characterization is necessary to describe the character and genetic diversity of plants. This study aims to obtain information on estimating morphological characters, nilai heritability, coefficients of genetic diversity of sweet corn generation S3. Penelitian using a Complete Group Randomized Design (RAKL) consists of one factor with 3 replays. There are 7 genotypes, namely SBTL 1-2-22, TLSB 1-63-25, TLSB 1-61-39, SBTL 1-34-64, TLSB 2-55-22, TLSB 3-25-69, SBTM 1-33-11, and 2 comparison varieties, namely Talenta and Sweet Boy, so there are 27 units experiment. The data obtained were analyzed using variance analysis (ANOVA), followed by the *Scott Knott* test. Genetic parameters were analyzed using KKG, and heritability values. The results showed that the morphological characterization of the seed row variables was strictly straight except for the SBTL genotype 1-2-22, the tip of the leaf was pointed and the color of the seeds with a value of 2,5y8/10. Nilai KKG is medium on variables of plant height, height of cob location, weight of cobs without clobot and length of cobs without cloths and other variables have low values. High heritability value on variables of plant height, cob location height, number of leaves, janta n flowering age, female flowering age, stem diameter, sweetness content, cob diameter without clobot, cob length without clobot and harvest age . The genotype TLSB 2-55-22 is recommended as a genotype with better results in terms of the character of the number of leaves, diameter of the stem, sweetness rate, weight of the cob and diameter of the cob.

Keywords : Strain, Sweet Corn, Heritability, KKG