

**MORPHOLOGICAL CHARACTERIZATION, GROWTH AND
YIELD OF SOME SWEET CORN HYBRIDS
(*Zea mays saccharata* Sturt)**

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ABSTRACT

Sweet corn (*Zea mays saccharata* Sturt) is a cereal source of carbohydrates and protein. Sweet corn imports in 2021 will reach 995.99 thousand tons (BPS, 2022). Sweet corn supplies are still inadequate due to the high demand that is not balanced with the amount of production. This study aims to obtain the morphological characterization and field test values of several sweet corn hybrids. This research method uses a one-factor Completely Randomized Block Design. The treatments consisted of 7 sweet corn hybrids namely ANPA, ANPB, ANPC, ANPD, and ANPE and Talenta and Sweet Boy as comparison varieties. There were 28 experimental units, with each experimental unit consisting of 20 plants with 4 sample plants. Data were analyzed using analysis of variance 5% level followed by Scott Knott test. The first leaf tip of the seven hybrids is pointed; the shape of the tip of the cob is conical; straight seed arrangement except ANPC, ANPD, and ANPE; color of light yellow seeds with munsell notation 2.5 Y 8/12 except ANPB, ANPC, and ANPD. ANPA hybrid sweet corn has the same good growth as the comparison varieties. The yield test showed that the ANPA hybrid was a superior hybrid compared to the comparison variety in yield parameters. ANPA hybrid sweet corn is a potential hybrid because it has the same good growth compared to the comparison varieties and has a better yield.

Keywords: Sweet corn, morphological characterization, growth, yield test