

**EFFECTS OF BETUNG BAMBOO SHOOTS EXTRACT (*Dendrocalamus asper*)
ON THE GROWTH OF GRAFTING SEEDLINGS ON VARIOUS
VARIETIES OF AVOCADO (*American Persea Mill*)**

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ABSTRACT

Avocado(*American Persea*Thousand.) is one of the fruit commodities that has a fairly high economic value. The availability of quality avocado seeds in large quantities, in a short time and at affordable prices is the first step and an important factor in supporting the success of avocado cultivation. Top grafting(*grafting*)is an activity to combine two or more superior traits in one plant. This study aims to test the effect of the interaction of the use of bamboo shoot extract (*Dendrocalamus asper*) on the growth of grafted seedlings of various avocado varieties. The study was conducted in Parungponteng Village, Parungponteng District, Tasikmalaya Regency at an altitude of 300 m above sea level and at the UNSIL Tasikmalaya Laboratory, this study lasted for 4 months from August to November 2024. The design used in this study was a factorial Randomized Block Design (RAK) consisting of 2 factors with 4 replications, the first factor is avocado variety (V): v_1 :Varietas Miki, v_2 Kendil Variety, v_3 :Varietas Cuba, v_4 : SAB 034 Variety The second factor is the concentration of Betung Bamboo Shoot Extract (R), namely: r_0 : 0 ml/liter water (control), r_1 :10 ml/liter air, r_2 : 20 ml/liter air , r_3 : 30 ml/liter of water. The observation data were then processed using statistical analysis, then arranged in a list of variance analysis to determine the real level of the F test. The results of the study showed that There was no interaction between the treatment of avocado variety type and the concentration of bamboo shoot extract.(*Dendrocalamus asper*) in all observations, the extract of betung bamboo shoots (*Dendrocalamus asper*) with a concentration of 30 ml/liter gave the best effect, which was shown by a significant effect on the diameter of the avocado grafted stem at all observation ages. The Miki variety showed the best growth with an average shoot emergence time of 23.40 Days After Grafting (DAP), an average number of leaves of 25.94 leaves, an average shoot height of 20.16 cm and a stem diameter of 7.89 mm.

Keywords: Grafting, Betung bamboo shoot extract (*Dendrocalamus asper*),
Avocado variety (*Persea Americana* Mil.).