

***EFFECT OF PROVIDING BANANA WEEVIL EXTRACT ON THE
GROWTH OF SUGARCANE BUD CHIPS SEEDLINGS (*Saccharum
officinarum* L.)***

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ABSTRACT

*Sugarcane (*Saccharum officinarum*. L) is one of the commodities used as raw materials in sugar production. Improvement of sugarcane seed cultivation systems effectively, efficiently and environmentally friendly needs to be continuously improved to stimulate good sugarcane seed growth, one of which is by using Banana Stem Extract. This study aims to determine the effect of banana stem extract on the growth of budchip sugarcane seedlings. The study was conducted in Panduman Village, Jelbuk District, Jember from August to October 2024, using a non-factorial Randomized Block Design (RAK) with banana stem extract treatment consisting of 5 levels, namely E0: Control (without banana stem extract); E1: Banana stem extract concentration 2.5%; E2: Banana stem extract concentration 5%; E3: Banana stem extract concentration 7.5%; E4: Banana stem extract concentration 10%. If there is a significant effect, further testing is carried out using the least significant difference (LSD) method at the 5% level. Banana stem extract with a concentration of 2.5% had a significantly different effect on the observation parameters of plant height at 8 weeks after planting budchip sugarcane seedlings with a seedling height value of 18 cm, while the observation parameters of the number of leaves, stem diameter, number of tillers and root volume had no significant effect.*

Key Words: *Sugarcane, Banana Weevil Extract, Bud Chip*