

**THE EFFECT OF PEANUT SHELL LIQUID ORGANIC
FERTILIZER (POC) ON THE EARLY GROWTH OF
SUGARCANE (*Saccharum officinarum* L.) VARIETY PS 862
USING THE BUD SET METHOD**

Supervised by Abdurrahman Salim, S.Si, M.Si

Muhammad Yazid Zidan

Plantation Cultivation Study Program

Department of Agricultural Production, Jember State Polytechnic

e-mail: zidan7183@gmail.com

ABSTRACT

The research conducted aims to determine the effect of peanut shell POC on the early growth of sugarcane (*Saccharum officinarum* L.) variety PS 862 using the bud set method. This research was conducted in August - November 2024 on agricultural land of the Agricultural Production Department of Jember State Polytechnic. Data processing in this study used a Non-Factorial Randomized Block Design (RAK) with K0 control treatments, K1 100 ml / liter, K2 150 ml / liter, K3 200 ml / liter and K4 250 ml / liter. The data from the study were analyzed by further testing using LSD (Least Significant Difference) at a level of 5%. This study provides significantly different results on stem height in the K3 200 ml / liter treatment, diameter in the K2 150 ml / liter treatment, number of tillers and root volume in the K4 250 ml / liter treatment.

Keywords: Bud Set, Peanut Shell, Sugarcane