

**THE EFFECT OF COW URINE ORGANIC FERTILIZER
CONCENTRATION AND FREQUENCY APPLICATION
FREQUENCY ON THE GROWTH OF SUGARCANE
SEEDS (*Saccharum officinarum* L.) VARIETY
VMC 86-550 BUDSET METHOD**

Supervised by Sepdian Luri Asmono, S.ST., M.P.

Wahyuning Putri Ramadhani

Plantation Plant Cultivation Study

Department of Agricultural Production, Jember State Polytechnic

email: wahyuningputri160@gmail.com

ABSTRACT

This study aims to determine the effect of the concentration of cow urine liquid organic fertilizer and the frequency of application on the growth of sugarcane seedlings VMC 86-550 variety with the budset method. This research was conducted in October-January 2023 which took place in the Nursery garden of the Jember State Polytechnic. This study used a factorial randomized block design with the concentration factor of cow urine POC administration and the application frequency factor, in which there were 10 treatment combinations and 3 replications. The concentration factor for giving POC to cow urine consists of 5 levels, namely (0%, 10%, 15%, 20%, 25%). The application frequency factor consists of 2 (every 2 weeks and 4 weeks). Data analysis used ANOVA followed by a 5% BNT follow-up test. The results showed that the interaction between administration of POC cow urine and the frequency of application treatment showed no significant difference in the observed parameters of plant height, stem diameter, number of leaves, number of tillers and root length.

Key words: *budset, frequency, cow urine,*