

***THE EFFECT OF USING COW URINE POC ON THE GROWTH
SUGARCANE SEEDLINGS (*Saccharum officinarum* L.)
VARIETY PS 862 WITH THE BUD SET METHOD***

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ABSTRACT

*Sugar cane (*Saccharum officinarum* L.) is a cultivated plant that produces primary raw materials for making white sugar in Indonesia. Sugarcane plants are currently experiencing disruption in the vegetative growth phase at the beginning of germination due to lack of water which results in drought and lack of nutrients. Liquid organic fertilizer is a cheap and practical natural fertilizer that can be a solution to apply, especially liquid organic fertilizer from cow urine which contains several nutrients. This research aims to determine the impact of cow urine liquid organic fertilizer on the development of sugarcane varieties Ps-862. This the main factor being a variety of 5 treatments, namely P0: control (Urea), P1: 15 ml, P2: 20 ml, P3: 25 ml, P4: 30 ml. The data from this research uses a follow-up analysis of variance (ANOVA) test. If the results are significantly different then they are further tested using a Least Significant Difference (BNT) follow-up test at 5% level. This research obtained non-significantly different results for the parameters of stem height, number of leaves, number of tillers, stem diameter and significantly different results for the parameters of root wet weight and root dry weight and the best treatment was P2 with a concentration of (20 ml POC cow urine).*

Keywords: *Sugarcane Budset, Liquid Organic Fertilizer, Cow Urine*