

***THE EFFECT OF LIQUID ORGANIC FERTILIZER FROM DOMESTIC
ORGANIC WASTE ON THE INITIAL GROWTH OF SUGARCANE
(*Saccharum officinarum* L.) ORIGIN SEED BUD SET***

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ABSTRACT

One of the problems of the national sugar industry is inseparable from the condition of the land, namely the condition of Indonesia's land which is decreasing in fertility. This decrease in fertility is caused by the use of inorganic fertilizers exceeding the dosage, so that is the main reason why the sugar cane-based industry in Indonesia has not increased. The aim of this study was to determine the effect of liquid organic fertilizer from domestic organic waste on the initial growth of sugarcane from bud set. This research was conducted from October 2022 to January 2023 at the Jember State Polytechnic Jember State Polytechnic. which is located at Jl. Mastrip, Krajan Timur, Kec. Sumbersari, Jember Regency, East Java. The method used was a non-factorial randomized block design with 1 factor. The first factor used 5 levels which included P0 (control), P1 (20 ml/polybag), P2 (40 ml/polybag), P3 (60 ml/polybag), P4 (80 ml/polybag). The results showed that the application of liquid organic fertilizer from domestic organic waste had no significant effect on the observed parameters of stem diameter, the results were significantly different for the parameters of plant height, number of leaves and number of tillers.

Keywords: *Sugarcane, POC organic waste domestic, Bud Set*