

***EFFECT OF CONCENTRATION AND TIME OF APPLICATION
OF LIQUID ORGANIC FERTILIZER PINEAPPLE WASTE
(Ananas Comosus) ON EARLY GROWTH SUGARCANE
PLANT (Saccharum Officinarum L.)***

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ABSTRACT

Sugarcane (Saccharum officinarum L.) is a type of plantation commodity that plays an important role and has high economic value in Indonesia, namely the producer of sugar as one of the main staples of the population. There is a problem in sugarcane plantations, namely decreased sugarcane productivity. One way to increase sugarcane productivity is by applying liquid organic fertilizer Pineapple Waste. This study aims to determine the concentration and time of application of liquid organic fertilizer Pineapple Waste on Early Growth of Sugarcane Plants. This research was carried out in September-December 2022 at the Jember State Polytechnic. This study used a factorial randomized block design with liquid organic fertilizer concentration factors and liquid organic fertilizer application time, there were 8 treatment combinations and 3 replications. The liquid organic fertilizer concentration factor consisted of 4 levels (Control, 12%, 16%, 20%). The Application Time Factor consists of 2 levels (1 week, 2 weeks). Data analysis used ANOVA followed by a 5% BNJ test. The research results showed that the concentration treatment had a highly significant different effect on the parameters of plant 1-bottom, 2-bottom, 3-bottom height, 3-bottom diameter, 3-bottom tillers and 3-bottom stover. The liquid organic fertilizer application time treatment was not significantly different from all observation parameters.

Keywords : POC, Time of Application, Early Growth