

**GROWTH AND YIELD OF SHALLOT (*Allium ascalonicum* L.) ON  
VARIOUS CONCENTRATION OF NATURAL PLANT GROWTH  
REGULATOR AND TIME INTERVAL APPLICATION OF LIQUID  
ORGANIC FERTILIZER**

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***ABSTRACT***

The research aimed to determine the interaction between concentration of coconut water as natural PGR and interval application of LOF. The research used a randomized complete block design (RCBD) with 2 factors and control with 3 replications. The first factor is soaking in concentration of coconut water with 3 levels namely 25%, 50% and 75%. The second factor is interval application of LOF with 3 levels namely 5 days, 10 days, and 15 days. Control treatment with chemical fertilizer only. The data were analyzed by variance analysis and contrast orthogonal then continued by Duncan's Multiple Range Test. The result showed that combination of both factors compared to control treatment was not significant affect on dry weight of tubers per hectare. Combination of both factors could reduced half dose of chemical fertilizer. There was an interaction with the best results of the A1P3 combination on the number of tubers per clump. Concentration 75% (A3) of coconut water showed significant affect on plant height (21, 28, and 35 days after planting) and tuber diameter. The time interval application 15 days (P3) of LOF significant affect on plant height (28 and 35 days after planting), root weight per clump, fresh weight of tubers per clump, and dry weight of tubers per clump.

***Keywords:*** Shallots, Organic PGR, Liquid Organic Fertilizer.