

***EFFECT OF LIQUID ORGANIC FERTILIZER AND PLANTING DISTANCE
ON THE GROWTH AND YIELD OF GREEN LETTUCE (*Lactuca sativa* L.)***

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ABSTRACT

Lettuce is one of the most widely consumed vegetables and one of the commodities that support the global economy, so efforts need to be made to increase green lettuce production by improving cultivation techniques by providing LOF and paying attention to planting distances. This study aims to examine the interaction between LOF treatment and planting distance and obtain the right concentration of LOF and planting distance on the growth and yield of green lettuce plants. This study used a factorial Randomized Complete Block Design (RCBD) with three replicates. The first factor is POC (P) with 4 levels, namely, P1=no LOF, P2=4ml/l, P3=5ml/l, and P4=6ml/l. The second factor is planting distance with 3 levels, namely, J1 = 20 × 20 cm, J2 = 20 × 25 cm, J3 = 25 × 25 cm. Data were analyzed with 5% variance and further tested by DMRT at the 5% level. The study's results showed an interaction between LOF treatment and planting distance on the plant height parameter of 4 WAP and the number of leaves aged 2 WAP. LOF concentrations of 4 ml/l provide the best growth at plant height parameters of 4 WAP and the number of leaves of 2 WAP. Planting distance of 20 cm × 25 cm and 25 cm × 25 cm provides good growth and yield for 2 WAP plant height, fresh weight, and economic weight.

Keywords: green lettuce, lof, planting distance