

**INFLUENCE OF LIQUID ORGANIC FERTILIZER (POC)  
Super MORTOFF AND GOAT MANURE ON GROWTH AND YIELD OF LETTUCE  
(*Lactuca sativa* L.)**

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**ABSTRACT**

The research's purpose are : 1.To determine the dosage of super mosphorus liquid organic fertilizer on the growth and yield of lettuce plants. 2.To find out the concentration of goat manure on the growth and yield of lettuce plants. 3. To determine the interaction of a combination of mosphorus plus fertilizer and goat manure on the growth and yield of lettuce plants. Time and Place of Research This research begins in June – July 2022 at the PUSPURA Page of Darul'Ulum University, Jombang, East Java. The research location is located at an altitude of +744 m above sea level, with a pH of 6.5. Complete Shelf (RAL), consisting of two factors and three replications. 1. The first factor is the application of liquid organic fertilizer super mortof (M) consisting of: M0 0 ml/As a control without treatment M1 50 ml/liter Dose of POC Mortof super M2 100 ml/ liter Dosage of POC Mortof super 2. The second factor is the dose of fertilizer Goat manure (K) consists of: K0 0 gr/ soil 100% (as control) K1 soil 75% + manure 25% K2 soil 50% + manure 50% K3 soil 25% + manure 75% Results from research has an influence on the dose of super mortof POC and goat manure on the growth and yield of lettuce plants (*Lactuca sativa* L.) which occurs in the parameters of observing the number of leaves with a combination of treatment doses of super mortof POC and goat manure (M2K2), namely 100 ml/liter and 50% soil media + 50% goat manure shows interaction and gives the best results. In terms of parameters for securing leaf area with the treatment of giving a dose of super mortof POC and goat manure (M2K2), namely 100 ml/liter and 50% soil media + 50% goat manure, it shows that there is an interaction and gives the best results. In the observation parameters of plant height with the treatment of giving a dose of Poc multitoic and goat manure (M2K2), namely 100 ml/liter and 50% soil media + 50% goat manure, it shows that there is an interaction and gives the best results. Based on the results and analysis of variance From the experiment it can be concluded that: a. The interaction effect between the treatment of planting media composition and POC dosage occurred on the parameters of leaf number at 21 DAP, planting length at 21 DAP, leaf area at 21 DAP, root length at 35 DAP, and stover weight at 35 DAP POC with a dose of 50% soil + 50% manure with a dose of 100ml/liter can increase lettuce production and produce a wet stover weight of 53.67 gr. c , leaf area, plant root length and stover in a ratio of 50%: 50% with the composition of the planting medium.

Keywords : super mosphorus liquid organic, goat manure, growth and yield of littude