

**RESPONSE OF RED CHILI PLANTS (*Capsicum annum L.*) GROWTH TO
THE APPLICATION OF LIQUID ORGANIC FERTILIZER FROM GOAT
MANURE**

By:

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ABSTRACT

*Goat manure is one of the manures that has not been utilized optimally. One of the many options for treating solid manure from goat manure is to turn it into Liquid Organic Fertilizer. Organic fertilizer from goat manure is one of the fertilizers that can be used for red chili plants (*Capsicum annum L.*). This study aims to see the response of liquid organic fertilizer from goat manure to increase chili plant (*Capsicum annum L.*) growth. The research method used is the experimental method. Analysis of the Kruskal Wallis test on plant height resulted in a significant value of 0.321 $p > (0.05)$ which means that H_0 is accepted and indicates that the application of liquid organic fertilizer of goat manure in the planting medium has no effect on the height of red chili plants. The results of the Kruskal Wallis test analysis on the number of leaves, in the acquisition of a significant value of 0.06 ($p > 0.05$) which means that H_0 is accepted and shows that the application of liquid organic fertilizer of goat manure on the planting media does not show any effect on the number of leaves on red chili plants. The results obtained showed that the application of goat manure fertilizer on the growth of chili plants did not significantly affect all observation parameters. Goat manure fertilizer with a concentration of 4.5% gave the highest yield on all the observed parameters, namely plant height of 12.6 cm and number of leaves 12 strands, while treatments that did not involve goat manure on average produced the lowest values.*

Keywords: *Liquid organic fertilizer, red chili (*Capsicum annum L.*), goat manure.*