

**GROWTH AND YIELD RESPONSES OF LONG BEAN (*Vigna sinensis* L.)  
BY APPLYING TYPE OF ORGANIC LIQUID FERTILIZER AND SHOOT  
PRUNING TIME**

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**ABSTRACT**

One of the efforts to increase long bean productivity is by applying liquid organic fertilizer and pruning shoots. This study aims to examine type of liquid organic fertilizer and the right time for pruning the shoots on the growth and yield of long bean plants. The research method used a Split Plot Design. The main plot is the time of topping which consisted of three levels of without pruning, shoot pruning 30 DAP pruning, and 40 DAP pruning. Subplots are a type of liquid organic fertilizer consisting of three levels of rabbit urine, PGPR, and biosaka. Data were analyzed using analysis of variance, with the Duncan' Multiple Range Test at the 5% test level. The results showed that there was an interaction on the parameters of plant height 30, 35, 40 DAP, number of leaves 35 DAP, and 40 DAP. The shoot pruning 30 DAP treatment had a significant effect on the parameters number of pods per plant, weight of pods per plant, length of pods per plant, number of pods per experimental plot, and weight of pods per hectare. Liquid Fertilizer from rabbit urine treatment had a significant effect on the parameters number of pods per plant, weight of pods per plant, and length of pods per plant when compared with PGPR. The shoot pruning 30 DAP treatment had a significant effect on the parameters number of pods per plant, weight of pods per plant, length of pods per plant, number of pods per experimental plot, and weight of pods per hectare.

Keywords: Long Bean, Liquid Organic Fertilizer, Shoot Pruning