

**GROWTH AND YIELD OF PURPLE EGGPLANT (*Solanum melongena* L.)  
AT VARIOUS DOSES OF GOAT MANURE AND CONCENTRATION OF  
COCONUT HUSK LIQUID ORGANIC FERTILIZER**

By: Anggita Fadhila

Supervised by: Alif Waluyo

**ABSTRACT**

Eggplant productivity is less than optimal and relatively low so it can not meet market needs. This study aims to determine the dose of goat manure and the best concentration of coconut husk liquid organic fertilizer on the growth and yield of eggplant. The research was conducted at the Batang Cilik, Tempel, Sleman. This research used a Complete Randomized Block Design (RAKL) Factorial +1. Factor I: the doses of goat manure which consists of 525 grams/ plant, 700 grams/ plant, and 875 grams/ plant. Factor II: the concentration of coconut husk liquid organic fertilizer which consists of 25 mL/ L, 50 mL/ L, and 75 mL/ L. Control treatment using NPK 16:16:16. Data were analyzed using Analysis of Variance (ANOVA) 5% then continued with DMRT 5%. The results showed that there were interactions between plant height (36 HST), number of fruit per plot, fruit weight per plant, fruit weight per plot, and fruit weight per hectare. The best dose of goat manure is 700 grams/plant for stem diameter (48 HST), flowering time, number of flower buds (40 HST), fruit length, and harvest index. The best coconut husk liquid organic fertilizer concentration is 50 mL/L for the number of leaves (36 and 48 HST), stem diameter (24 and 48 HST), number of flowers (30 HST), fruit diameter, and fruit length. The treatment combination was significantly better than the control in the parameters of plant height (36 and 48 HST), number of flower buds (40 HST), and fruit length.

**Keywords:** goat manure, coconut husk, eggplant