

**Application of Shrimp Waste Liquid Organic Fertilizer on the Growth and
Production of Mung Bean Plants (*Vigna radiata* L.)**
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ABSTRACT

The amount of green bean production in Indonesia is still relatively low. Starting from 2016 - 2018 it continues to decline. This research was conducted from September to December 2022 on agricultural land located on Jalan Danau Toba, Summersari Village, Summersari, Jember Regency which aims to analyze the effect of shrimp waste liquid organic fertilizer on the growth and production of green beans as well determine the right concentration to increase production green bean plant. The method used in this study was a non-factorial Randomized Block Design (RBD) consisting of 6 levels, namely: 1. Concentration of 0 ml/liter of water (control); 2. Concentration 10 ml/liter (1%); 3. Concentration of 20 ml/liter of water (2%); 4. Concentration of 30 ml/liter (3%); 5. Concentration 40 ml/liter (4%); 6. Concentration of 50 ml/liter (5%). The results of the study showed that the treatment of shrimp waste liquid organic fertilizer had an influence on the observed variables of stem diameter, number of productive branches, fresh pod weight per sample, dry pod weight per sample, dry seed weight per sample, dry seed weight per plot and showed no effect on the variable plant height observations, the number of pods per sample and the weight of 1000 seeds. The best results were found in the treatment with a concentration of 50 ml/liter with seed weight per plot (570.25 grams).

Keywords: *Yield, POC, Shrimp waste and Pod*