

## **ABSTRACT**

### **THE EFFECT OF CHICKEN MANURE AND BIOFERTILIZER ON GROWTH AND YIELD OF MUSTARD (*Brassica rapa* L.) Nauli F1**

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The objective of study was to find out the effect of chicken manure and biological biofertilizer on growth and yield of mustard (*Brassica rapa* L.) Nauli F1. This study was conducted in June to August 2018 at experimental field of Agriculture Faculty Siliwangi University Mugarsari, Tamansari, Tasikmalaya city which was located at 350 m above sea level. The experiment design used was (RBD) randomized block design with two factors and three replications. The First factor was chicken manure : ( $k_0$ ), 0 t/ha ( $k_1$ ), 5 t/ha ( $k_2$ ), 10 t/ha ( $k_3$ ), 15 t/ha dan ( $k_4$ ) 20 t/ha. The second factor was biofertilizer: ( $h_0$ ), 0 mL/plant, and ( $h_1$ ), 10 mL/plant. The total experimental unit were  $10 \times 3 = 30$ . The results showed that different chicken manure and different doses of biofertilizer hast no interaction to paramateres, namely, plant height, leaf number, leaf area, wet weight per plant, dry weight per plant, wet weight per plot and conversion per hectare. Chicken manure gave significant effect to fresh weight of mustard per plot and per hectare. The best was for chicken manure of 15 t/ha with 9,81 kg of mustard fresh weight.

**Keywords :** Chicken manure, Biofertilizer, Mustard Nauli F1

