

## **ABSTRACT**

### **EFFECT OF COMBINATION PAITAN COMPOST (*Tithonia diversifolia*) AND RABBIT URINE FERTILIZER ON GROWTH AND RESULTS OF BASIL (*Ocimum basilicum* L.)**

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Basil farming on a large scale is not much done, even though the demand for basil continues to increase. One of the efforts that can be made to increase the yield of basil is to improve cultivation techniques, such as fertilization. This study aims to determine the combination of paitan compost dosage and rabbit urine liquid fertilizer concentration which gives the best basil growth and yield. This research was conducted in Cisaga Village, Cisaga District, Ciamis Regency, West Java in September 2022 to February 2023. This study used a randomized block design (RBD) which consisted of 8 doses of paitan compost and rabbit urine liquid fertilizer concentrations repeated 4 times, namely A = without application of paitan compost and rabbit urine liquid fertilizer (control), B = 15 t/ha paitan compost, C = 20 t/ha paitan compost, D = Rabbit urine liquid fertilizer 200 ml/L, E = Paitan compost 15 t/ha + rabbit urine liquid fertilizer 100 ml/L, F = Paitan compost 15 t/ha + rabbit urine liquid fertilizer 200 ml/L, G = Paitan compost 20 t/ha + rabbit urine liquid fertilizer 100 ml/L, H = Paitan compost 20 t/ha + rabbit urine liquid fertilizer 200 ml/L. The results of this study indicated that the combination of paitan compost dosage and rabbit urine liquid fertilizer concentration had an effect on plant height, number of branches, number of leaves, fresh weight consumed per plant, fresh weight consumed per plot. Treatment of 200 ml/L rabbit urine liquid fertilizer and 20 t/ha paitan compost + 100 ml/L rabbit urine liquid fertilizer had a good effect on the growth and yield of basil.

**Keywords:** Basil, Paitan compost, Rabbit urine liquid fertilizer