IMBANGAN TAKARAN PUPUK UREA DAN VERMIKOMPOS LIMBAH ORGANIK PASAR TRADISIONAL TERHADAP PERTUMBUHAN DAN HASIL SAWI (*Brassica juncea* L.*)*

The Balance of Urea Fertilizer and Vermicompost from Traditional Market Organic Waste on Growth and Yield of Mustard (Brassica juncea L.)

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ABSTRACT

The need for N elements in the growth of mustard plants can be added through a combination of urea fertilizer (synthetic) with vermicompost from traditional market organic waste which can be used as environmentally friendly fertilizers. The research aims to obtain the appropriate dose of Urea and vermicompost of traditional market organic waste for growth and yield of mustard plant. The research was conducted at the Research Laboratory and Green House of the Faculty of Agriculture, Muhammadiyah University of Yogyakarta in February-June 2018. The research was conducted with experimental method arranged in a Completely Randomized Design with a single factor tratments. The treatments tested is: 100 % N Urea, 75 % N Urea + 25 % N Vermicompost, 50 % N Urea+ 50 % N Vermicompost, 25 % N Urea+ 75 % N Vermicompost, 100 % N Vermicompost. The results of the research showed that all Urea fertilizer balance and vermicompost of traditional market organic waste were the right balance because give the same results with 100% Urea.

Keywords*: Nitrogen, synthetic fertilizers, and organic fertilizers.*