

# **EFFORTS TO INCREASE BLACK SOYBEAN PRODUCTION DETAM-1 VARIETIES SYSTEM OF TILLAGE AND PROVISION OF SEVERAL TYPES OF ORGANIC FERTILIZERS**

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## ***ABSTRACT***

This study aims to determine the production of Detam-1 black soybean with the system of tillage and some types of organic fertilizer. The study was conducted for 4 months from November 2018 to February 2019 which was held at Tegal Gede Field, Summersari District, Jember. This study uses factorial Randomized Complete Block Design (RBD) with two factors, namely T factor consisting of no tillage (T0), system of tillage treatment 1x (T1) and system of tillage 2x (T2) and factor P which means without organic fertilizer (P0), cow manure (P1), sugarcane bagasse (P2), and goat manure (P3) with 12 treatment combinations which were repeated 3 times so there were 36 experimental units. Data were analyzed by ANOVA and 5% DMRT. The results showed that the treatment of tillage had a significant effect (\*) on the parameters of the height of the black soybean plant every week, while the organic fertilizer factor showed a significant effect (\*) on the parameters of the number of productive branches and the weight parameters of stover. However, the interaction factors of tillage and organic fertilizer did not show any significant effect (ns) on all observed parameters.

**Keywords:** *Black Soybean, System of Tillage and Types of Organic Materials*