APPLICATION OF THREE TYPES OF ANIMAL MANURE FERTILIZER AND P FERTILIZER DOSAGE ON CORN PRODUCTION (*Zea mays* L.)

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ABSTRACT

The purpose of this study was to determine the effect and production of corn on the application of three types of manure and doses of P fertilizer. This research was carried out in February-June 2021 with a Randomized Block Design (RAK) with 2 factors. The first factor is the application of three types of manure (K0): No fertilizer, (K1): cow manure (K2): chicken manure, (K3): goat manure. The second factor is the dose of fertilizer P (P1): 35.2 grams/plot, (P2): 70.5 grams/plot, (P3): 105.8 grams/plot. Parameters observed were plant height, stem diameter, leaf area, wet weight per sample, dry weight per sample, and shell weight per sample. The results showed that the treatment with manure gave significantly different results for each parameter, while the best treatment was the application of P2 phase on the parameters of wet weight per sample, dry weight per sample and shed weight per sample. While in the vegetative phase the parameters of plant height, stem diameter, leaf area gave no significant difference.

***Keywords**: Corn; P fertilizer; Manure fertilizer*