THE EFFECT OF LIQUID ORGANIC FERTILIZER FROM BANANA CORM MOL AND KINDS OF MANURE FERTILIZER ON THE GROWTH AND HARVEST OF CAYENNE PEPPER *(Capsicum frutescens L.)*

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ABSTRACT

Cayenne pepper (Capsicum frutescens L.) is one of the horticultural crop of vegetables that has small fruits with a hot flavor and much needed by the community. The need for chili is increasing, so it is necessary to expand the land and care such as fertilization to increase chili productivity. The purpose of this study is to determine the effect of giving manure and the best banana corm as well as the interaction between treatments to increase the growth and yield of cayenne pepper. The research method used is a Complete Randomized Block Design (RCBD) with two factors. The first factor is MOL (Local Microorganism) banana corm with a concentration of 0 mL / L, 0.5 mL / L, 1.0 mL / L, and 1.5 mL / L. The second factor is the type of manure from cow manure 20 tons / ha, goats 20 tons / ha, and chickens 20 tons / ha. Each treatment combination is repeated 3 times, observations made include plant height, number of branches, age of flowering, number of chilies per plant, fruit length, chili fruit diameter, chili fruit weight per plant, fruit weight. The data is analyzed for diversity by using Variance Analysis (Anova) at a level of 5% and carries out further tests with Duncan Multiple Range Test (DMRT) at a level of 5%. The results show that the treatment of banana corm MOL concentration of 0.5 mL / L (M1) and 1.5 mL / L significantly affects the fruit length parameters and the best results are on the fruit weight per plot, the best growth of cow fertilizer treatment (P1) and chicken fertilizer (P3) growth is on the number of branches parameters and the best results are on the weight of chili per plant and there is no interaction between the MOL concentration of banana corm and kinds of manure.

Keywords: Cayenne pepper, Banana corm MOL, Kinds of manure