

THE EFFECT OF TYPES OF MULS AND LIQUID ORGANIC FERTILIZER ON THE GROWTH AND YIELD OF TOMATO PLANTS (*Lycopersicum esculentum* Mill.)

By: Kiki Mustika Ayu (134170012)

Supervised by: Oktavia Sarhesti Padmini and Husain Kasim

ABSTRACT

Tomato (*Lycopersicum esculentum* Mill.) Is a plant that can grow in the lowlands and highlands. Obstacles in tomato cultivation in Indonesia are a nutrient deficiency and weed competition. The research objective was to determine whether there was an interaction between types of mulch and POC to increase growth and yield of tomato plants. This research was conducted in September -November 2020 in Sukoharjo, Sembung Ngaglik Sleman Yogyakarta. This study used a with split plots repeated three times. The main plot of the type of mulch consisted of three levels, namely without mulch, straw mulch, and silver black plastic mulch. Then subplots, namely the POC types of Gamal leaves, lamtoro leaves, and paitan leaves. The data obtained were analyzed using analysis of variance at the 5% level if there was a real difference followed by the DMRT test at the 5% test level. The results showed that there was no interaction between all types of mulch and POC treatments.

Keywords: Tomato, POC, and Mulch