

ORGANIC AND BIO-FUNGICIDE APPLICATION ON THE GROWTH AND YIELD RESPONSE OF ONION (*ALLIUM CEPA L*)

ADIZA V. DELA CRUZ

*Assistant Professor College of Agriculture, Nueva Ecija University of Science and Technology – Gabaldon Campus, Gabaldon,
Nueva Ecija, Philippines*

ABSTRACT

*Modern farming affects our world, by land exhaustion, soil erosion, and soil compaction, loss of cultivated biodiversity, habitat destruction, contaminated food and destruction of traditional knowledge. The study was aimed to determine the effects of organic fertilizers and bio-fungicide (*Trichoderma sp.*) on the growth and yield of onion. It was conducted at Nueva Ecija University of Science and Technology - Gabaldon Campus Research Area, Gabaldon Nueva Ecija. Organic fertilizers performed well in all data gathered: crop stands, Disease Incidence, Diseases Severity, Size of the Bulbs, Height of the Leaves, Yield/ha (Marketable and Non-Marketable), and in profit. And among the two organic fertilizers, Titan fertilizer applied with 20 grams of bio-fungicide gave the lowest disease incidence and diseases severity in onion and Titan with combination of 15 grams of bio-fungicide gave the highest mean in size of the bulb (10.27). On the other hand, Exceed Fertilizer with the combination of 15 grams Bio-fungicide gave the highest means in terms of crop stands (4.66), height of leaves (36.49 cm), Total Yield (2,337.50 kg/ha) and marketable yield of 2,225.0 kg/ha. Results reveal that Exceed Organic fertilizer with combination of 15 grams of bio-fungicide makes the crops good with higher leaves that produce a marketable and better yield.*

KEYWORDS: *Onion, Organic Fertilizer, Bio-Fungicide, Trichoderma, Growth & Yield*

Received: Mar 05, 2021; **Accepted:** Mar 25, 2021; **Published:** Jun 09, 2021; **Paper Id.:** IJMPERDAUG20212