ABSTRAK

Produksi terung hijau di Indonesia sangat fluktuatif, sehingga perlu ditingkatkan. Upaya untuk meningkatkan produksi tanaman terung dengan cara penggunaan macam mulsa dan pupuk yang tepat seperti pupuk organik (kompos *Azolla*). Tujuan penelitian ini untuk mengetahui dosis kompos *Azolla* dan macam mulsa yang optimal agar produksi terung hijau meningkat. Penelitian ini menggunakan RAK faktorial, 2 faktor, 3 ulangan. Faktor pertama perlakuan dosis *Azolla* (A), meliputi A_0: 0 g/m^2 A_1: 225g/m^2 A_2: 450 g/m^2 A_3: 675 g/m^2. Faktor kedua perlakuan macam mulsa (M), meliputi M_0:tanpa mulsa M_1: hitam perak M_2: jerami. Hasil penelitian menunjukkan bahwa faktor perlakuan dosis *Azolla* (A_3) merupakan perlakuan terbaik terhadap semua variabel pengamatan. Penggunaan macam mulsa (M_1) berpengaruh terhadap variabel tinggi tanamana 45 hst, jumlah daun 30 dan 45 hst, diametr batang 30 dan 45 hst, berat berangkasan basah, berat berangkasan kering, total berat buah per-sampel,total jumlah buah per-sampel, total berat buah per-plot dan total jumlah buah per-plot. Sedangkan interaksi antara perlakuan dosis kompos *Azolla* dan penggunaan macam mulsa berpengaruh tehadap berat berangksan basah, total berat buah per-sampel, total jumlah buah per-sampel. Perlakuan dosis kompos *Azolla* dan penggunaan macam mulsa yang terbaik A_3M_1 (dosis 675 g/m^2 + mulsa hitam perak)

Kata kunci: *Produksi Terung, Dosis Azolla, Macam Mulsa*

ABSTRACK

Green eggplant production in Indonesia is very fluctuativa, so it needs to be increased. Efforts to increase eggplant crop production by using a suitable kinds of mulch and fertilizers such as organic fertilizer (*Azolla* compost). The purpose of this study was to determine the optimal dose of Azolla compost and the type of mulch to increase the production of green eggplant. This study used factorial RCBD, 2 factors, 3 replications. The first factor was *Azolla* dose treatment (A), including A_0: 0 g/m^2 A_1: 225 g/m^2 A_2: 450 g/m^2 A_3: 675 g/m^2. The second factor was the type of mulch treatment (M), including M0: without mulch M1: black silver M2: straw. Study result showed that of the treatment of Azolla dose (A3) is the best treatment for all observation variables. The use of the type of mulch (M_1) affected on variables of plant height 45 DAP, number of leaves 30 and 45 DAP, stem diameter 30 and 45 DAP, wet root weight, dry plant weight, total fruit weight per sample, total number of fruit per sample, total fruit weight. per-plot and the total number of pieces per-plot. whereas the interaction between the dose of *Azolla* compost treatment and the use of mulch types affected on weight of plant biomass, total fruit weight per sample, and total number of fruit per sample. *Azolla* compost dose treatment and use of the best type of mulch A_3M_1 (675 g/m^2 + silver black mulch)

Keywords: Eggplant Production, *Azolla* Dosage, Types of Mulch