

ABSTRAK

Sona Maharni.2011.”Pengaruh Inokulasi FMA dan Pupuk Kandang Sapi terhadap Pertumbuhan dan Hasil Selada (*Lactuca sativa L.*) Organik di Dataran Menengah”,dibawah bimbingan Cecep Hidayat dan Dikayani.

Penelitian ini bertujuan untuk mengetahui pengaruh inokulasi FMA dan pupuk kandang sapi terhadap pertumbuhan dan hasil selada. Penelitian dilaksanakan di Screen House Fakultas Sains dan Teknologi, Universitas Islam Negeri Sunan Gunung Djati, Bandung, menggunakan metode Rancangan Acak Lengkap (RAL) faktorial dengan 2 faktor yang terdiri dari 12 kombinasi perlakuan. Faktor pertama adalah inokulan mikoriza (*Glomus* dan Campuran). Faktor kedua adalah pupuk kandang sapi (50,100,150 gr/tanaman). Pengujian dilakukan dengan uji Duncan Multiple Range Test. Hasil penelitian menunjukkan inokulasi inokulan campuran (*Glomus sp*, *Gigaspora sp*, *Acaulospora sp*) dan dosis pupuk kandang sapi 150 gram/tanaman memberikan pengaruh terbesar terhadap derajat infeksi akar, namun tidak memberikan pengaruh terhadap tinggi tanaman, jumlah daun, bobot basah tanaman, bobot kering tanaman, dan nisbah pupus akar. Hasil panen selada mencapai 19,53 ton/ha.

Kata kunci : pupuk kandang sapi, FMA, selada, pertumbuhan, hasil



ABSTRACT

Sona Maharni,2011."The Effects of Arbuscular Mycorrhiza Fungi Inoculation and Cow Manure Fertilizer to Growth and Yield of Organic Lettuce (*Lactuca sativa L.*) in The Intermediate Level", supervised by Cecep Hidayat and Dikayani.

The objective of this research was to determine the effects of Arbuscular Mycorrhiza Fungi inoculation and cow manure fertilizer to growth and yield of organic lettuce. Research executed in screen house of Faculty Science and Technology, Islamic State University Sunan Gunung Djati, Bandung, used completely Randomized Design with factorial pattern (2 factors). The first factor was inoculation (*Glomus* and mix). The second factor was cow manure fertilizer (50,100,and 150 gr/plant). To know the significant differences, the data was analysed by Duncan Multiple Range Test (DMRT). The result showed mix inoculum (*Glomus sp*, *Gigaspora sp*, *Acaulospora sp*) with dosage of cow manure 150 gr/plant gave significant influence to root colonization, and no significant effect to plant high, foliage amount, plant fresh weight, plant dry weight, and shoot root ratio. Yield of lettuce was 19,53 ton/ha.

Keyword : cow manure fertilizer, AMF, lettuce, growth, yield

