**Abstrak**

Penelitian ini berjudul “Pengaruh Pengayaan *Trichoderma* pada media tanam terhadap respon tanaman mentimun (*Cucumis sativus*)”. Penelitian ini bertujuan untuk mengetahui : 1). Pengaruh Pengayaan *Trichoderma* pada media tanam terhadap respon tanaman mentimun (*Cucumis sativus*), 2). Dosis mana yang memberikan hasil optimal untuk tanaman mentimun (*Cucumis sativus*). Penelitian ini dilakukan selama satu setengah bulan yaitu pada bulan Mei sampai bulan Juli 2022 di Kp. Sukanande Desa Cihaurkuning Kecamatan Cisompet Kabupaten Garut. Penelitian ini dilakukan dalam bentuk percobaan berdasarkan Rancangan Acak Kelompok (RAK) dengan menggunakan satu faktor yaitu perbedaan kadar pengayaan *Trichoderma* pada media tanam dengan 5 perlakuan dan 5 pengulangan. Adapun perlakuannya yaitu tanpa *Trichoderma harzianum/ Trichoderma harzianum* 0 g/tanaman, *Trichoderma harzianum* 3 g/tanaman, *Trichoderma harzianum* 5 g/tanaman, *Trichoderma harzianum* 7 g/tanaman, *Trichoderma harzianum* 9 g/tanaman. Data dianalisis dengan uji Anova dan Kruskall Wallis dan dilanjutkan dengan uji lanjut LSD dan Man Whitney. Hasil penelitian menunjukkan adanya pengaruh pengayaan *Trichoderma* pada media tanam terhadap respon tanaman mentimun (*Cucumis sativus*) dengan parameter tinggi tanaman, jumlah daun, jumlah bunga dan jumlah buah. Dosis yang memberikan hasil tertinggi untuk tanaman mentimun (*Cucumis sativus*) yaitu dosis *Trichoderma harzianum* 9 g/tanaman (rata-rata tinggi tanaman 65,3 cm, rata-rata jumlah daun 12,2 helai daun, rata-rata jumlah bunga 23,2 bunga dan rata-rata jumlah buah 3,8 buah).

Kata kunci : *Trichoderma harzianum,* media tanam, mentimun (*Cucumis sativus*).

**Abstract**

This study entitled "The effect of *Trichoderma* enrichment on growing media on the response of cucumber *(Cucumis sativus)* plants". This study aims to determine: 1). Effect of *Trichoderma* enrichment on growing media on the response of cucumber *(Cucumis sativus)* plants, 2). Which dose gives optimal results for cucumber *(Cucumis sativus)* plants. This research was conducted for one and a half months, from May to July 2022 in Kp. Sukanande, Cihaurkuning Village, Cisompet District, Garut Regency. This research was conducted in the form of an experiment based on a Randomized Block Design (RAK) using one factor namely the difference in levels of enrichment of *Trichoderma* in the growing media with 5 treatments and 5 repetitions. The treatment is without *Trichoderma harzianum/Trichoderma harzianum* 0 g/plant, *Trichoderma harzianum* 3 g/plant, *Trichoderma harzianum* 5 g/plant, *Trichoderma harzianum* 7 g/plant, *Trichoderma harzianum* 9 g/plant. Data were analyzed by Anova and Kruskall Wallis tests and continued with LSD and Man Whitney further tests. The results showed that there was an effect of *Trichoderma* enrichment on the growing media on the response of cucumber *(Cucumis sativus)* plants with the parameters of plant height, number of leaves, number of flowers and number of fruit. The dose that gave the highest yield for cucumber *(Cucumis sativus)* was the dose of *Trichoderma harzianum* 9 g/plant (average plant height 65.3 cm, average number of leaves 12.2 leaves, average number of flowers 23.2 flowers and the average number of fruit is 3.8).

Key words : *Trichoderma harzianum*, planting medium, cucumber *(Cucumis sativus).*