

Nofita Sari. 150311100062. Pengaruh jenis pupuk daun dan konsentrasi GA₃ terhadap pertumbuhan dan hasil tanaman Mentimun (*Cucumis sativus* .L) lokal bangkalan

Dibimbing Oleh : **Ir. Amin Zuchri, M.P.**

ABSTRAK

Penelitian ini bertujuan mengetahui pengaruh jenis pupuk daun dan konsentrasi GA₃ terhadap pertumbuhan dan hasil tanaman mentimun lokal Bangkalan. Penelitian ini dilaksanakan pada bulan desember 2018 – Maret 2019 di kebun percobaan Socah. Penelitian ini menggunakan Rancangan Petak Terbagi (RPT) dengan pengulangan sebanyak 3 kali. Petak utama yakni 3 konsentrasi GA₃ yaitu 0 ppm (kontrol), 30 ppm, 60 ppm. anak petak adalah 3 jenis pupuk daun yaitu Gandasil B, MKP, dan Manocalbor. Variabel yang di amati yakni panjang tanaman, jumlah daun, jumlah bunga jantan, jumlah bunga betina, jumlah buah, presentase bunga jadi buah, diameter buah, panjang buah, berat buah, dan biomassa tanaman. Data pengamatan dianalisis dengan Analisis Sidik Ragam (ANSIRA) dilanjutkan dengan uji Beda Nyata Jarak Duncan (BNJD). Hasil penelitian menyatakan bahwa Terdapat interaksi antara konsentrasi GA₃ dan jenis pupuk daun pada parameter berat dan diameter buah. Perlakuan terbaik adalah aplikasi GA₃ 30 ppm dan jenis pupuk daun Gandasil B.

Kata kunci : Mentimun, Pupuk daun, GA₃

Nofita Sari. 150311100062. Effect of leaf fertilizer types and concentration of GA₃ on growth and yield of local Bangkalan cucumber (*Cucumis sativus*. L) plants

Under Guidance : **Ir. Amin Zuchri, M.P.**

ABSTRACT

This research was aim to study the effect of leaf fertilizer types and concentration of GA₃ on growth and yield of Bangkalan local cucumber plants. Research was conducted at in the Socah trial garden from December 2018 - March 2019. It used Split Plot Design (SPD) with 3 replications. Main plot are 3 level concentration of GA₃ that 0 ppm (control), 30 ppm, and 60 ppm. sub plot are 3 ty pe of leaf fertilizer, that Gandasil B, MKP, and Manocalbor. The Variables observed were plant length, number of leaves, number of male flowers, number of female flowers, number of fruits, percentage of flowers to fruit, fruit diameter, fruit length, fruit weight, and plant biomass. Observation data were Analysis Of Variance (ANOVA) followed by then followed by Duncan Multiple Range Test (DMRT). There is an interaction between the concentration of GA₃ and the type of leaf fertilizer on the parameters of fruit weight and diameter. The best treatment was application of GA₃ 30 ppm and type of leaf fertilizer Gandasil B.

Keywords: Cucumber, Leaf Fertilizer, GA₃