

**PENGARUH MACAM PUPUK ORGANIK CAIR DAN PENGURANGAN
JUMLAH BUAH TERHADAP PERTUMBUHAN DAN HASIL
MENTIMUN VARIETAS JEPANG**

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INTISARI

Penelitian ini bertujuan untuk mengetahui kombinasi macam pupuk organik cair dan pengurangan jumlah buah yang terbaik untuk pertumbuhan dan hasil mentimun, untuk mengetahui pengaruh macam pupuk organik cair terhadap pertumbuhan dan hasil mentimun. Penelitian ini dilaksanakan di UPT kebun percobaan Universitas Mercu Buana Yogyakarta, Gunung bulu, Argorejo, Sedayu, Bantul mulai bulan November sampai Januari 2021. diketinggian tempat penelitian 144 meter dari permukaan laut dengan jenis tanah vertisol. Penelitian ini merupakan percobaan 2 faktorial disusun menggunakan Rancangan Acak Lengkap (RAL). Faktor pertama adalah macam pupuk organik cair terdiri atas 2 aras yaitu, pupuk organik cair Fortune (P1), dan pupuk organox (P2). Faktor kedua adalah pengurangan jumlah buah yang terdiri atas 3 aras yaitu, 2 buah per tanaman (B1), 4 buah per tanaman (B2), 6 buah per tanaman (B3). Sebagai perbandingan terdapat perlakuan tanpa pemangkasan (P2B0) sebagai kontrol. Dengan demikian diperoleh kombinasi perlakuan sebanyak $2 \times 4 = 8$ masing-masing diulang sebanyak 3 kali ulangan dan tiap unit percobaan terdiri dari 6 tanaman.

Hasil penelitian menunjukkan bahwa macam pupuk organik cair dengan pengurangan jumlah buah tidak berpengaruh nyata pada variabel pertumbuhan yang meliputi panjang sulur, dan saat berbunga. Sedangkan pada variabel hasil panjang buah, berat buah per tanaman, jumlah buah per tanaman, jumlah buah per plot berpengaruh nyata. Pupuk organik cair dan pemeliharaan buah yang paling efektif terhadap pertumbuhan dan hasil mentimun yaitu pada perlakuan pupuk organik cair organox dengan pemeliharaan 6 buah per tanaman.

Kata kunci: Pupuk organik cair, pengurangan jumlah buah, mentimun.

THE EFFECT OF LIQUID ORGANIC FERTILIZER AND THE NUMBER OF FRUITS REDUCTION ON THE GROWTH AND YIELD OF JAPANESE CUCUMBER VARIETIES

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ABSTRACT

This study aimed to determine the best combination of liquid organic fertilizer and fruit reduction for cucumber growth and yield, and also determine the effect of liquid organic fertilizer on cucumber growth and yield. This research was carried out at the UPT experimental garden at Mercu Buana University of Yogyakarta, Gunung Bulu, Argorejo, Sedayu, Bantul from November to January 2021. The height of the research site is 144 meters above sea level with vertisol soil. This research is a 2 factorial experiment and was arranged using a completely randomized design (CRD). The first factor is liquid organic fertilizer consisting of 2 levels, namely fortune liquid organic fertilizer (P1) and organic fertilizer (P2). The second factor was the reduction in the number of fruits, which consisted of 3 tiers, those are 2 fruits on each plant (B1), 4 fruits on each plant (B2), and 6 fruits on each plant (B3). As a comparison, there was a treatment without pruning (P2B0) as a control. Thus, $2 \times 4 = 8$ treatment combinations were obtained, each treatment was repeated 3 times and each experimental unit consisted of 6 plants. Observations were done on the growth variables (length of tendrils, flowering time), while yield variables were (fruit length, fruit diameter, fruit weight on each plant, number of fruits on each plant, fruit weight on each plot, number of fruits on each plot).

The results showed that a kind of liquid organic fertilizer with the number of fruits reduction had no significant effect on the variables growth including vine length and flowering age. While on the significant effect was found on the fruits length variable, fruits on each plot. The most effective liquid organic fertilizer and fruit maintenance on cucumber growth and yield was the namely organox liquid organic fertilizer with the treatment of 6 fruits on each plant.

Keywords : Liquid organic fertilizer, reduction of fruits number, cucumber.