

**RESPON PERTUMBUHAN DAN HASIL TANAMAN MENTIMUN SURI
(*Cucumis melo* L. var. *reticulatus* Naudin) PADA BEBERAPA JENIS
PUPUK ORGANIK PADAT**

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ABSTRAK

Mentimun suri merupakan tanaman hortikultura yang mengandung gizi cukup lengkap. Peningkatan teknik budidaya meningkatkan hasil panen dengan aplikasi pupuk organik padat. Penelitian ini bertujuan untuk mengetahui respon pertumbuhan dan hasil tanaman mentimun suri pada beberapa jenis pupuk organik padat. Penelitian dilaksanakan pada bulan Maret – Mei 2025 di Wirokerten, Banguntapan, Bantul, Yogyakarta. Penelitian menggunakan Rancangan Acak Kelompok Lengkap (RAKL) 1 faktor terdiri atas 7 perlakuan yaitu pupuk kasgot 10 t/ha, pupuk kascing 10 t/ha, pupuk kotoran ayam 10 t/ha, pupuk kasgot 10 t/ha + pupuk kascing 10 t/ha, pupuk kasgot 10 t/ha + pupuk kotoran ayam 10 t/ha, pupuk kascing 10 t/ha + pupuk kotoran ayam 10 t/ha, dan pupuk kasgot 10 t/ha + pupuk kascing 10 t/ha + pupuk kotoran ayam 10 t/ha. Data hasil pengamatan dianalisis keragamannya menggunakan ANOVA dengan taraf 5% dan diuji lanjut menggunakan Duncan Multiple Range Test (DMRT) pada taraf uji 5%. Kombinasi kasgot 10 t/ha + pupuk kascing 10 t/ha + pupuk kotoran ayam 10 t/ha mendapatkan hasil paling baik pada diameter batang pada umur 14 HST, bobot buah segar per tanaman panen ke-2, ke-3, bobot buah per petak panen ke-2, panen keseluruhan, diameter buah panen keseluruhan, panjang buah panen keseluruhan, dan konversi per hektar.

Kata kunci : mentimun suri, pupuk kascing, kasgot, kotoran ayam

THE RESPONSE OF CANARY MELON (*Cucumis melo* L. var. *reticulatus* Naudin) PLANTS TO VARIOUS TYPES OF SOLID ORGANIC FERTILIZERS

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ABSTRACT

Cucumber is a horticultural crop that contains complete nutrients. Improved cultivation techniques increase crop yields with the application of solid organic fertilizers. The objective of this study is to ascertain the growth response and yield of cucumber plants under various types of solid organic fertilizers. The research conducted from March 2025 to May 2025 in Wirokerten, Banguntapan, Bantul, Yogyakarta. The field experiment will employ a Complete Randomized Block Design (CRBD), comprising one factor. The treatments consist of seven combination: kasgot fertilizer 10 t/ha, vermicompost fertilizer 10 t/ha, chicken manure fertilizer 10 t/ha, kasgot fertilizer 10 t/ha + vermicompost fertilizer 10 t/ha, kasgot fertilizer 10 t/ha + chicken manure fertilizer 10 t/ha, vermicompost fertilizer 10 t/ha + chicken manure fertilizer 10 t/ha, and kasgot fertilizer 10 t/ha + vermicompost fertilizer 10 t/ha + chicken manure fertilizer 10 t/ha. The data from the observations were analyzed for variability using a one-way analysis of variance (ANOVA) at a 5% level and further tested using a Duncan's Multiple Range Test (DMRT) at a 5% test level. The findings indicate that the application of a combination 10 t/ha of kasgot fertilizer + 10 t/ha of kascing fertilizer + 10 t/ha of chicken manure fertilizer exerts a substantial impact on stem diameter at 14 DAP, fresh fruit weight per plant in the 2nd, 3rd harvests, total fruit weight per plot at harvest 2nd, overall harvests, overall fruit diameter in the harvest, overall fruit length in the harvest, and conversion per hectare.

Keywords : cucumber, vermicompost, kasgot fertilizer, chicken manure