

# Perbaikan sifat kimia tanah fluventic eutrudepts pada pertanaman sedap malam dengan pemberian pupuk kandang ayam dan pupuk NPK / Mubarok S, Kusumiyati, A Zulkifli

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## Abstrak

*Polianthes tuberosa L.* is a potential flowering plant to be developed in Jatinangor, but, the type of soil in Jatinangor belongs to Fluventic Eutrudepts has a lower of pH, medium of available K and potential K. New strategy is needed to resolve these problems such as by adding the organic and an-organic fertilizer. This research

was conducted to determine the effect of the combination organic fertilizer and NPK on soil reaction (pH), available K, Potential K, and fresh weight of tuberose (*Polianthes tuberosa L.*) on Fluventic Eutrudepts. The research design used was Randomized Block Design (RBD) with ten treatments and three replications, consist of:

without organic fertilizer + NPK (control); without organic fertilizer + recommended dosage of NPK; recommended dosage of organic fertilizer + without NPK;  $\frac{1}{2}$  recommended dosage of organic fertilizer +  $\frac{1}{2}$  recommended dosage of NPK;  $\frac{1}{2}$  recommended dosage of organic fertilizer + recommended dosage of NPK; recommended dosage of organic fertilizer +  $\frac{1}{2}$  recommended dosage of NPK; without organic fertilizer +  $1\frac{1}{2}$  recommended dosage of NPK;  $1\frac{1}{2}$  recommended dosage of organic fertilizer + without NPK;  $1\frac{1}{2}$  recommended dosage of organic fertilizer +  $\frac{1}{2}$  recommended dosage of NPK;  $1\frac{1}{2}$  recommended dosage of organic fertilizer + without NPK;  $1\frac{1}{2}$  recommended dosage of organic fertilizer +  $\frac{1}{2}$  recommended dosage of NPK;

dosage of organic fertilizer +  $\frac{1}{2}$  recommended dosage of NPK;  $1\frac{1}{2}$  recommended dosage of organic fertilizer +

recommended dosage of NPK. The results show that there were effect of soil reaction (pH), available P, potential

P, and fresh weight of tuberose from combination of organic fertilizer and NPK. Treatments of  $1\frac{1}{2}$  recommended

dosage of organic fertilizer + without NPK gives the best results of 148,6 g plant-1 with an increase 63,2% compared with no treatment.

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Sedap malam (*Polianthes tuberosa L.*) merupakan tanaman hias berbunga indah yang sangat potensial dikembangkan salah satunya di Jatinangor. Tanah di Jatinangor yang termasuk ke dalam sub group Fluventic Eutrudepts mempunyai reaksi tanah agak masam, K-potensial sedang, K-dd sedang, dan KTK rendah, sehingga

perlu dilakukan upaya untuk meningkatkannya yang salah satunya dengan pemupukan. Percobaan dilakukan untuk

mengetahui pengaruh pemberian kombinasi pupuk organik dan pupuk NPK terhadap K-potensial, K-dd, KTK dan

bobot segar tanaman sedap malam (*Polianthes tuberosa L.*) pada Fluventic Eutrudepts. Rancangan percobaan

yang digunakan adalah Rancangan Acak Kelompok (RAK) faktor tunggal dengan sepuluh perlakuan dan

tiga ulangan, yaitu terdiri dari : Tanpa pupuk organik + pupuk NPK (kontrol); Tanpa pupuk organik + dosis anjuran NPK; Dosis anjuran pupuk organik + tanpa pupuk NPK;  $\frac{1}{2}$  dosis anjuran pupuk organik +  $\frac{1}{2}$  dosis anjuran NPK;  $\frac{1}{2}$  dosis anjuran pupuk organik + dosis anjuran NPK; Dosis anjuran pupuk organik +  $\frac{1}{2}$  dosis anjuran NPK; Tanpa pupuk organik +  $1\frac{1}{2}$  dosis anjuran NPK;  $1\frac{1}{2}$  dosis anjuran pupuk organik + tanpa pupuk NPK;  $1\frac{1}{2}$  dosis anjuran pupuk organik +  $\frac{1}{2}$  dosis anjuran NPK. Hasil penelitian menunjukkan terdapat pengaruh terhadap K-potensial, K-dd, KTK dan bobot segar tanaman sedap malam akibat pemberian kombinasi pupuk organik dan pupuk NPK. Perlakuan  $1\frac{1}{2}$  dosis anjuran pupuk organik + tanpa pupuk NPK memberikan bobot segar tanaman sedap malam terbaik sebesar 148,6 g tanaman-1 dengan kenaikan bobot segar 63,2% dibandingkan dengan tanpa perlakuan.