

PERFORMA AGRONOMI SEMANGKA (*Citrullus vulgaris* Schard.)

PASCA APLIKASI BEBERAPA FORMULASI PUPUK

DI LAHAN MARGINAL

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ABSTRAK

Semangka (*Citrullus vulgaris* Schard.) merupakan buah yang memiliki rasa yang manis dan segar sehingga banyak disukai oleh masyarakat Indonesia. Budidaya semangka dilahan marginal memerlukan pemupukan yang sesuai karena memiliki keterbatasan kandungan unsur hara. Penelitian bertujuan untuk mengetahui pengaruh beberapa formulasi pupuk terhadap karakter agronomi tanaman semangka dan pengaruh pupuk organik. Penelitian dilaksanakan pada bulan Februari - Juni 2024 di Kebun Semangka PT. East West Seed Indonesia, Pandeglang, Banten. Penelitian menggunakan metode Rancangan Acak Kelompok Lengkap (RAKL) dengan satu faktor. Banyaknya kelompok ada 3 yaitu lokasi lahan di Dusun Ponggehaur, Dusun Bengkok, dan Dusun Coneang. Perlakuan yang digunakan ada 5 yaitu menggunakan 100% DA (Dosis Anjuran), 50% DA, 50% DA dan 50% Cosmocel, 50% DA dan 100% Cosmocel, dan 50% DA dan 150% Cosmocel. Hasil penelitian menunjukkan tidak berbeda nyata disemua perlakuan formulasi pupuk pada semua parameter. Lokasi penelitian pada paramter jumlah daun dan panjang tanaman paling baik di Dusun Bengkok. Parameter berat buah, dan jumlah akar lateral paling baik di Dusun Ponggehaur. Parameter berat biji per buah, berat 1000 butir biji, panjang akar, serta berat basah akar dan batang tidak berbeda nyata.

Kata Kunci: *Semangka, Lahan Marginal, Performa Agronomi, Formulasi Pupuk.*

**AGRONOMIC PERFORMANCE OF WATERMELON (*Citrullus vulgaris*
Schard.) AFTER APPLICATION OF SOME FERTILIZER
FORMULATIONS ON MARGINAL LAND**

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ABSTRACT

Watermelon (*Citrullus vulgaris* Schard.) is a fruit that has a sweet and fresh taste that is widely favored by the people of Indonesia. Watermelon cultivation on marginal land requires appropriate fertilization because it has limited nutrient content. The study aims to determine the effect of several fertilizer formulations on agronomic characteristics of watermelon plants and the effect of organic fertilizers. The research was carried out in February - June 2024 at the Watermelon Farm PT. East West Seed Indonesia, Pandeglang, Banten. The research used the Randomized Complete Block Design (RCBD) method with one factor. There are 3 blocks, namely land locations in Ponggehaur Hamlet, Bengkok Hamlet and Coneang Hamlet. There are 5 treatments used, using 100% SR (Standard Recommendation), 50% SR, 50% SR and 50% Cosmocel, 50% SR and 100% Cosmocel, and 50% SR and 150 % Cosmocel. The results showed no significant difference in all fertilizer formulation treatments on all parameters. The research location on the parameters of the number of leaves and plant length is best in Bengkok Hamlet. The parameters of fruit weight, and the number of lateral roots are best in Ponggehaur Hamlet. The parameters of seed weight per fruit, 1000 seed weight, root length, and wet weight of roots and stems were not significantly different.

Keyword: *Watermelon, Marginal Land, Agronomic Performance, Fertilizer Formulation.*