

**PENGARUH TINGKATAN REKOMENDASI PEMUPUKAN  
PADA BEBERAPA ORDO TANAH TERHADAP SERAPAN  
HARA N, P DAN K TANAMAN JAGUNG  
(*Zea mays Saccharata L.*)**

**SKRIPSI**



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Dosen Pembimbing II

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**Abstrak**

Perbedaan ordo tanah menyebabkan perbedaan kesuburan tanah dalam menyediakan hara bagi tanaman. Penelitian bertujuan untuk mempelajari pengaruh tingkatan rekomendasi pemupukan dan perbedaan ordo tanah terhadap pertumbuhan, serapan hara dan kadar hara N, P dan K tanaman jagung manis (*Zea mays saccharata L.*). Penelitian dilaksanakan di rumah kawat dan Laboratorium Tanah Fakultas Pertanian, Universitas Andalas. Rancangan Penelitian Faktorial dua faktor yang ditempatkan menurut Rancangan Acak Lengkap (RAL). Ordo Tanah sebagai Faktor A terdiri dari 3 ordo tanah (Ultisol; Inceptisol; dan Andisol). Rekomendasi pemupukan sebagai Faktor B (0.5R; dan 1R) dengan masing-masing 3 ulangan. Penelitian dilakukan dalam 3 seri berdasarkan umur tanam yaitu 15 hari setelah tanah (HST); 30 HST dan 45 HST. Hasil penelitian menunjukkan bahwa rata-rata pertumbuhan dan serapan hara tanaman tertinggi terdapat pada Andisol dengan input 1R pemupukan. Serapan hara N, P dan K tanaman meningkat seiring dengan bertambahnya umur tanam. Kadar hara N dan P rata-rata menunjukkan penurunan dengan bertambahnya umur tanam, sedangkan hara K cenderung mengalami peningkatan dengan bertambahnya umur tanam.

Kata Kunci : *Andisol, Inceptisol, jagung manis, kandungan hara, serapan hara, Ultisol*



# **EFFECT OF FERTILIZER RECOMMENDATION LEVELS AT SOME SOIL ORDERS ON N, P AND K UPTAKE OF CORN CROPS (*Zea mays Saccharata L.*)**

## **ABSTRACT**

The difference in soil orders causes difference in soil fertility and determines the nutrient availability for plants. This research was aimed to study the effect of fertilization recommendation levels and differences in soil orders difference on growth, nutrient uptake and the nutrient ( N, P, and K) content for sweet corn (*Zea mays saccharata L.*). The study was conducted at the wire house and the Soil Laboratory of Faculty of Agriculture, Andalas University. The treatments consisted of two factors (soil order and fertilization). Factor I consisted of 3 soil orders (Ultisols; Inceptisols; Andisols), and Factors II consisted of 2 levels of fertilizer recommendation (0.5R and 1R). Each treatment had 3 replications, therefore there were 18 experimental units all together. The study was conducted in 3 series based on crop age (15, 30, and 45 days after showing). Each series was allocated based on Completely Randomized Design (CRD) in wire house. The results showed that the highest plant growth and nutrient uptake were found in Andisol with 1R fertilizer. Nutrient (N, P, and K) uptake by crops increased by increasing crop age. The average N and P nutrient levels decreased with increasing crop age, while K nutrient tended to increase with increasing crop age.

Keywords : *Andisol, Inceptisol, sweet corn, nutrient content, nutrient uptake, Ultisol*

