



## Intisari

Penelitian ini bertujuan untuk mengetahui status hara nitrogen, fosfor, dan kalium pada entisol serta hubungannya dengan sifat fisik-kimia tanah pada berbagai penggunaan lahan dan kemiringan lereng di HGU Djengkol Plosoklaten, Kediri, Jawa Timur. Metode penelitian yang digunakan adalah *purposive sampling* dengan 41 titik. Sampel tanah diambil pada kedalaman 0-30cm. Karakteristik tanah yang dianalisis adalah pH  $H_2O$ , kapasitas tukar kation, bahan organik, kadar nitrogen, kadar fosfor, kadar kalium, dan tekstur tanah. Kadar nitrogen tanah diukur menggunakan metode kjeldahl. Kadar fosfor tanah diukur menggunakan metode olsen. Kadar kalium diukur menggunakan metode spektrofotometri. Hasil penelitian menunjukkan bahwa peta status hara NPK dibuat pengharkatan untuk mengetahui tinggi rendah kadar NPK pada tiap petak kebun. Tinggi rendah status unsur hara dipengaruhi oleh faktor sifat fisik-kimia tanah. Rekomendasi pemupukan pada lahan tebu dilakukan dengan analisis grafik nomograf.

Kata kunci : *nitrogen, fosfor, kalium, HGU Djengkol, entisol*



## Abstract

This research aims to determine the nutrient status of nitrogen, phosphorus and potassium in entisol and its relationship with soil chemical-physical properties in various land uses and slopes in Djengkol Plosoklaten HGU, Kediri, East Java. The research method used was purposive sampling with 41 sample points. Soil samples were taken at a depth of 0-30cm. The soil characteristics analyzed are pH H<sub>2</sub>O, cation exchange capacity, organic matter, nitrogen content, phosphorus content, potassium content, and soil texture. Soil nitrogen levels were measured using the Kjeldahl method. Soil phosphorus levels were measured using the Olsen method. Potassium levels were measured using the spectrophotometric method. The research results showed that the NPK nutrient status map was made to determine the high and low levels of NPK in each garden plot. High and low nutrient status is influenced by soil physical-chemical properties. Recommendations for fertilization on sugar cane fields are carried out using nomograph graphic analysis.

**Keywords:** *nitrogen, phosphor, potassium, HGU Djengkol, entisol*