

Rekomendasi Pemupukan Kalium pada Tanaman Nenas berdasarkan Status Hara Hara Tanah

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ABSTRACT

The aims of the research were: (1). to determine of the soil K nutritional status of pineapple, and (2) to determine of the critical level and optimum dosage of potassium fertilization for pineapple. The research was conducted using split plot randomized blocked design with five soil K status: K_{sr} = 0 kg K₂O ha⁻¹, K_r = 70 kg K₂O ha⁻¹, K_m = 140 kg K₂O ha⁻¹, K_t = 210 kg K₂O ha⁻¹, and K_{st} = 280 kg K₂O ha⁻¹. While sub plot that dosage potassium fertilizer were consisted of five levels: K₀ = 0 kg K₂O ha⁻¹, K₁ = 200 kg K₂O ha⁻¹, K₂ = 400 kg K₂O ha⁻¹, K₃ = 600 kg K₂O ha⁻¹, dan K₄ = 800 kg K₂O ha⁻¹. The result of the research are showed that plant growth and production of pineapple was affected by soil K nutrient content and dosage of K application. The level of soil K nutrient availability was low class (<14 ppm K₂O), medium class (14-50 ppm K₂O), and high class (>50 ppm K₂O). Potassium fertilizer recommend for the soil which has low class was 634 kg K₂O ha⁻¹. The critical level of K in the pineapple "D" leaf was 1.71% of dry matter.