

INTISARI

Penelitian ini bertujuan mengetahui pengaruh kombinasi abu vulkan dan arang sekam serta kepadatan populasi terhadap serapan N, P dan K tanaman selada keriting (*Lactuca sativa*) yang ditanam di dua musim yang berbeda pada sistem pertanaman vertikal. Rancangan penelitian yang digunakan adalah Rancangan Acak Kelompok Lengkap (RAKL) dengan. Faktor pertama adalah kombinasi media (M), yaitu M1 (abu vulkan 37,5% + arang sekam 12,5% + kompos 50%), M2 (abu vulkan 33,3% + arang sekam 16,7% + kompos 50%) dan M3 (abu vulkan 25% + arang sekam 25%). Faktor kedua adalah jarak antar paralon atau kepadatan PVC (P), yaitu P1 (70cm x 70cm antar paralon), P2 (60cm x 60cm antar paralon), P3 (50cm x 50cm antar paralon). Perlakuan M3 dan P1 pada musim hujan merupakan perlakuan yang paling baik terhadap serapan N, P dan K selada keriting. Besarnya serapan musim hujan pada M3 terhadap serapan N sebesar 62,73 mg/tanaman, P sebesar 50,21 mg/tanaman, dan K sebesar 273,41 mg/tanaman. Berat segar trubus tertinggi terdapat pada perlakuan musim hujan M3 dan P2 yaitu 43,90 gram.

Kata kunci : Musim tanam, abu vulkan, arang sekam, kepadatan populasi, serapan, selada keriting (*Lactuca Sativa*).

ABSTRACT

This research aimed to determine the effect of combination of volcanic ash and rice husk as well as population density to absorption of Nitrogen, Phosphorus and Potassium in lettuce (*Lactuca sativa*) on the vertical cropping system which planted at dry and rainy season. This experiment was arranged in Complete Randomized Block Design (CRBD), the first factor was combination of medium (M); M1 (37,5% of volcanic ash + 12,5% of rice husk + 50% of compost), M2 (33,3% of volcanic ash + 16,7% of rice husk + 50% of compost) and M3 (25% of volcanic ash + 25% of rice husk + 25% of compost). The second factor was the distance between PVC or PVC population (P); P1 (70cm x 70cm between PVC), P2 (60cm x 60cm between PVC), and P3 (50cm x 50cm between PVC). M3 and P1 which planted at rainy season gave the best absorption of Nitrogen, Phosphorus and Potassium. The treatment of M3 at rainy season gave the Nitrogen absorption of 62,73 mg/plant, Phosphorus of 50,21 mg/plant, and Potassium of 273,41 mg/plant. While the treatment of M3 and P2 at rainy season gave the highest weight of biomass of 43,90 grams.

Keywords: Volcanic ash, rice husk, population density, absorption, curly lettuce (*Lactuca sativa*).