

ABSTRAK

Abstract. This research aims to determine the effect of Top G2 liquid organic fertilizer on the growth of Betara areca nut (*Areca catechu* L.var.Betara) seedlings in polybags. This research was conducted on Rt.25, Lorong Cadas, Telanai Pura, Jambi. This research was conducted for 3 months starting from May – August 2024. This research used a completely randomized design (CRD) with one factor with a treatment design of Top G2 liquid organic fertilizer concentration (t) consisting of 4 levels, namely t₀ (control), t₁ (3 cc POC Top G2/liter water), t₂ (6 cc POC Top G2/liter water), t₃ (9 cc POC Top G2/liter water) and t₄ (12 cc POC Top G2/liter water). The treatment was repeated 3 times, so there were 15 experimental units. Each experimental unit consisted of 4 plants and 2 plants were sampled, so the total number of plants was 60 Betara areca nut seeds. Based on data from research results and analysis of variance, it shows that the application of Top G2 liquid organic fertilizer in various doses has no significant effect on plant height, stem diameter, root dry weight, crown dry weight, root crown ratio, leaf area and seed quality index but has a significant effect on leaf color.

Keywords: Top G2 liquid organic fertilizer, Betara areca nut, nursery

Abstrak. Penelitian ini bertujuan untuk mengetahui pengaruh pemberian pupuk organik cair Top G2 terhadap pertumbuhan bibit pinang Betara (*Areca catechu* L.var.Betara) di polibag. Penelitian ini dilakukan di Rt.25, Lorong Cadas, Telanai Pura, Jambi. Penelitian ini dilakukan selama 3 bulan dimulai bulan Mei – Agustus 2024. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) satu faktor dengan rancangan perlakuan konsentrasi pupuk organik cair Top G2 (t) terdiri dari 4 taraf, yaitu t₀ (kontrol), t₁ (3 cc POC Top G2/liter air), t₂ (6 cc POC Top G2/liter air), t₃ (9 cc POC Top G2/liter air) dan t₄ (12 cc POC Top G2/liter air). Perlakuan diulang 3 kali, sehingga terdapat 15 satuan percobaan. Setiap satuan percobaan terdiri dari 4 tanaman dan 2 tanaman dijadikan sampel, sehingga jumlah keseluruhan tanaman sebanyak 60 bibit pinang Betara. Berdasarkan data hasil penelitian dan analisis ragam menunjukkan bahwa pemberian pupuk organik cair Top G2 berbagai dosis memberikan pengaruh tidak nyata pada tinggi tanaman, diameter batang, berat kering akar, berat kering tajuk, nisbah tajuk akar, luas daun dan indeks kualitas bibit tetapi berpengaruh nyata terhadap warna daun.

Kata kunci : Pupuk organik cair Top G2, pinang Betara, pembibitan.