

## INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh konsentrasi dua pupuk daun anorganik serta konsentrasi optimum dari dua pupuk daun anorganik bagi pertumbuhan bibit kopi robusta. Penelitian ini menggunakan Rancangan Acak Kelompok (RAK) dengan tiga ulangan. Pada penelitian ini dilakukan dua perlakuan pupuk daun, pupuk daun pertama yaitu Gandasil D dan pupuk daun kedua yaitu Glow Green. Taraf perlakuan konsentrasi pupuk daun Gandasil D yaitu: D1 = 2 g/L, D2 = 4 g/L, D3 = 6 g/L, D4 = 8 g/L; dan untuk pupuk daun Glow Green yaitu: G1 = 2 ml/L, G2 = 4 ml/L, G3 = 6 ml/L, D4 = 8 ml/L. Data hasil pengamatan dianalisis dengan analisis ragam (ANOVA) dengan taraf kepercayaan 95% dan apabila hasil menunjukkan beda nyata, maka dilanjutkan dengan uji Beda Nyata Jujur (BNJ) atau *Honestly significant difference* (HSD) Tukey pada taraf signifikansi 5%. Uji Polinomial Ortogonal dilakukan untuk menentukan bentuk respon dari kurva hubungan variabel dengan taraf perlakuan. Hasil penelitian menunjukkan konsentrasi pupuk daun Gandasil D berpengaruh nyata pada tinggi tanaman, luas daun, bobot segar dan bobot kering daun, bobot segar dan bobot kering tajuk, serta bobot kering total bibit kopi robusta. Konsentrasi pupuk daun Glow Green berpengaruh nyata pada tinggi tanaman dan rasio tajuk akar bibit kopi robusta. Konsentrasi optimum pupuk daun Gandasil D bagi pertumbuhan bibit kopi robusta yaitu 6 g/L dan konsentrasi pupuk daun Glow Green yang berpengaruh lebih baik bagi pertumbuhan bibit kopi robusta yaitu 6 ml/L.

Kata kunci: konsentrasi, pupuk daun anorganik, bibit kopi robusta

## ABSTRACT

*This research aims to determine the effect of concentration of two inorganic foliar fertilizer, as well as the optimum concentration of each fertilizer on the robusta coffee seedlings growth. This research used a Randomized Complete Block Design (RCBD) with three replications. In this research, two foliar fertilizer were treated, the first foliar fertilizer was Gandasil D and the second foliar fertilizer was Glow Green. The concentration treatment levels for Gandasil D foliar fertilizer are: D1 = 2 g/L, D2 = 4 g/L, D3 = 6 g/L, D4 = 8 g/L; and for Glow Green leaf fertilizer are: G1 = 2 ml/L, G2 = 4 ml/L, G3 = 6 ml/L, D4 = 8 ml/L. The observational data were analyzed using analysis of variance (ANOVA) with a confidence level of 95% and if the results showed a significant difference, then it was continued with Tukey's Honestly Significant Difference (HSD) test at a significance level of 5%. The Orthogonal Polynomial Test was carried out to determine the variable relationship curve with the treatment level. The results of the research showed that the concentration of Gandasil D foliar fertilizer had a significant effect on plant height, leaf area, fresh weight and dry weight of leaves, fresh weight and dry weight of shoots, and total dry weight of robusta coffee seedlings. The concentration of Glow Green leaf fertilizer has a significant effect on plant height and root ratio of robusta coffee seedlings. The optimum concentration of Gandasil D leaf fertilizer for the growth of robusta coffee seedlings is 6 g/L of water and the concentration of Glow Green leaf fertilizer which has a better effect on the growth of robusta coffee seedlings is 6 ml/L.*

*Key words: concentration, inorganic foliar fertilizer, robusta coffee seedlings*