

**PENGARUH PEMBERIAN KOMPOS AMPAS KEMPAAN DAUN
GAMBIT TERHADAP PERTUMBUHAN BIBIT
KOPI ROBUSTA (*Coffea canephora* L.)**

SKRIPSI



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ABSTRAK

Penelitian tentang pengaruh pemberian kompos ampas kempaan daun gambir terhadap pertumbuhan bibit kopi robusta (*Coffea canephora* L.) telah dilaksanakan pada bulan April sampai September 2022 di kebun percobaan Kampus III UNAND di Nagari Sungai Kambut, Kecamatan Pulau Punjung, Kabupaten Dharmasraya. Tujuan dari penelitian ini adalah untuk mengetahui pengaruh pemberian kompos ampas kempaan daun gambir dan dosis terbaik kompos ampas kempaan daun gambir terhadap pertumbuhan bibit kopi robusta. Percobaan ini menggunakan Rancangan Acak Lengkap (RAL), dengan 5 perlakuan dan 4 ulangan sehingga diperoleh 20 unit percobaan. Setiap unit percobaan terdiri dari 3 tanaman sehingga tanaman sampel seluruhnya adalah 60 tanaman. Dosis kompos yang digunakan yaitu 0 gram, 50 gram, 100 gram, 150 gram, dan 200 gram per 5 kg tanah. Variabel yang diamati yaitu tinggi bibit, jumlah daun, panjang daun, diameter batang, panjang akar, berat kering akar, berat kering tajuk dan ratio tajuk akar. Semua data yang diperoleh dari setiap peubah yang diamati dianalisis ragam dan jika berbeda nyata dilanjutkan dengan Duncan's New Multiple Range Test (DNMRT) pada taraf 5%. Hasil penelitian menunjukkan bahwa pemberian kompos ampas kempaan daun gambir memberikan pengaruh terhadap pertumbuhan bibit kopi robusta dengan dosis terbaik yaitu 100 g per 5 kg tanah yang mampu meningkatkan pertumbuhan tinggi bibit 22,50 cm, jumlah daun 13,50 cm, panjang daun 20,50 cm, diameter batang 4,33 mm, dan panjang akar 31,50 cm bibit kopi robusta.

Kata kunci: Bibit kopi robusta, kompos, ampas kempaan daun gambir, pertumbuhan tanaman

THE EFFECT OF GAMBIER LEAVES PRESSED DREGS COMPOST ON THE GROWTH OF ROBUSTA COFFEE (*Coffea canephora L.*) SEEDLINGS

ABSTRACT

Research on the effect of gambier leaves pressed dregs compost on the growth of robusta coffee (*Coffea canephora L.*) seedlings was carried out on April until September 2022 at the experimental field of 3rd Campus UNAND located in Sungai Kambut Village, Pulau Punjung District, Dharmasraya Regency. The objectives of this study were to determine the effect of gambier leaves pressed dregs compost and the optimal dosage of it on the growth of robusta coffee seedlings. This research was an experiment used a Completely Randomized Design (CRD) consisted of five treatments and four replications to obtain 20 experimental units. Each experimental unit consisted of 3 plants, so the total sample was 60 plants. The dosage of compost were 0 grams, 50 grams, 100 grams, 150 grams, and 200 grams per 5 kg of soil. The variables observed were seedling height, number of leaves, leaf length, stem diameter, root length, root dry weight, shoot dry weight, and shoot root ratio. All data obtained from each observed variable were analyzed of variance, and if significantly different, it was continued by the Duncan's New Multiple Range Test (DNMRT) at the 5% level. The results showed that the application compost from gambier leaves pressed dregs significantly affected the growth of robusta coffee seedlings, with the best dose was 100 g per 5 kg of soil which was able to increase seedling height to 22,50 cm, the number of leaves 13,50 cm, leaf length 20,50 cm, stem diameter 4,33 mm, and the root length 31,50 cm of robusta coffee seedlings.

Keyword: Robusta coffee seedlings, compost, gambier leaves pressed dregs, plant growth