

**PENGARUH BEBERAPA KONSENTRASI PUPUK ORGANIK  
CAIR SABUT KELAPA TERHADAP PERTUMBUHAN BIBIT  
KOPI ROBUSTA (*Coffea canephora* L.)**

**SKRIPSI**

**OLEH**

**PUTRA ALDI PRATAMA  
NIM. 2010242007**



**Dosen Pembimbing :**

- 1. Dr. Ir. Gustian, MS**
- 2. Dede Suhendra, SP., MP**

**FAKULTAS PERTANIAN  
UNIVERSITAS ANDALAS  
DHARMASRAYA  
2024**

# **PENGARUH BEBERAPA KONSENTRASI PUPUK ORGANIK CAIR SABUT KELAPA TERHADAP PERTUMBUHAN BIBIT KOPI ROBUSTA (*Coffea canephora* L.)**

## **ABSTRAK**

Penelitian tentang pengaruh beberapa konsentrasi pupuk organik cair sabut kelapa terhadap pertumbuhan bibit kopi robusta (*Coffea Canephora* L.) telah dilaksanakan pada bulan Januari sampai maret 2024 di kebun percobaan Kampus III UNAND di Nagari Sungai Kambut, Kecamatan Pulau Punjung, Kabupaten Dharmasraya. Tujuan dari penelitian ini adalah Mengetahui pertumbuhan bibit kopi robusta (*Coffea canephora* L.) setelah diberi pupuk cair organik sabut kelapa, mengetahui dosis pupuk organik cair sabut kelapa yang terbaik untuk pertumbuhan bibit kopi robusta (*coffea canephora* L.) 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. Adapun perlakuan yang diaplikasikan adalah pupuk organik sabut kelapa dengan konsentrasi 600 ml per polybag digunakan yaitu tanapa perlakuan, 16,6%, 33,3%, 50%, dan 66,6 % / polybag. Variabel yang diamati yaitu tinggi bibit, jumlah daun, diameter batang, luas daun, volume akar, panjang akar, berat kering akar, berat kering tajuk dan ratio tajuk akar. Semua data yang diperoleh dari hasil pengamatan 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 pupuk organik cair sabut kelapa menunjukkan pengaruh tinggi tanaman, diameter batang, luas daun, volume akar, berat kering akar, dan berat kering tajuk bibit kopi robusta. Konsentrasi terbaik pupuk organik cair sabut kelapa yang di aplikasikan untuk menunjang pertumbuhan bibit kopi robusta adalah 10% / polybag.

Kata kunci: Bibit kopi robusta, sabut kelapa, pertumbuhan tanaman.

**THE EFFECT OF SEVERAL CONCENTRATIONS OF  
COCONUT COIR LIQUID ORGANIC FERTILIZER ON  
SEEDLING GROWTH ROBUSTA COFFEE  
(*Coffea canephora* L.)**

**ABSTRACT**

Research on the effect of several concentrations of coconut coir liquid organic fertilizer on the growth of robusta coffee seedlings (*Coffea Canephora* L.) was carried out from January to March 2024 at the UNAND Campus III experimental garden in Nagari Sungai Kambut, Pulau Punjung District, Dharmasraya Regency. The purpose of this study was to determine the growth of robusta coffee seedlings (*Coffea canephora* L.) after being given coconut coir organic liquid fertilizer, knowing the best dose of coconut coir liquid organic fertilizer for the growth of robusta coffee seedlings (*Coffea canephora* L.) This experiment used a completely randomized design (CRD), with 5 treatments and 4 replications so that 20 experimental units were obtained. Each experimental unit consisted of 3 plants so that the total sample plants were 60 plants. The treatment applied was coconut coir organic fertilizer with a concentration of 600 ml per polybag used, namely no treatment, 16,6%, 33,3%, 50%, and 66,6%/polybag. The variables observed were seedling height, number of leaves, stem diameter, leaf area, root volume, root length, root dry weight, crown dry weight and root crown ratio. All data obtained from the observed observations were analyzed for variance and if significantly different, continued with Duncan's New Multiple Range Test (DNMRT) at the 5% level. The results showed that the application of coconut coir liquid organic fertilizer showed the effect of plant height, stem diameter, leaf area, root volume, root dry weight, and crown dry weight of robusta coffee seedlings. The best concentration of coconut coir liquid organic fertilizer applied to support the growth of robusta coffee seedlings is 16,6% / polybag.

Keywords: Robusta coffee seedlings, coconut fiber, plant growth.