

**PENGARUH PUPUK ORGANIK CAIR *Azolla pinnata*
TERHADAP PERTUMBUHAN BIBIT KOPI
ROBUSTA (*Coffea canephora*)**

SKRIPSI

OLEH

**MITRA TURAHMAH
1610242059**

Pembimbing:

- 1. Prof. Dr. Ir. Warnita, MP**
- 2. Wulan Kumala Sari, SP, MP, Ph.D**



**FAKULTAS PERTANIAN
UNIVERSITAS ANDALAS
DHARMASRAYA
2021**

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ABSTRAK

Produksi tanaman kopi robusta yang tinggi sangat bergantung pada kualitas dan kuantitas bibit yang dapat ditingkatkan pertumbuhannya dengan pupuk organik cair *Azolla pinnata*. Penelitian ini bertujuan untuk mengetahui pengaruh pupuk organik cair *Azolla pinnata* terhadap pertumbuhan bibit kopi robusta dan mendapatkan dosis terbaik. Pupuk organik cair tersebut yang menunjang pertumbuhan bibit kopi robusta. Percobaan disusun menurut Rancangan Acak Lengkap (RAL) dengan 5 perlakuan yang diulang 4 kali. Data hasil pengamatan dianalisis dengan uji F pada taraf 5% dan jika data berbeda nyata dilanjutkan dengan Duncan's New Multiple Range Test (DNMRT) pada taraf 5 %. Peubah yang diamati adalah tinggi tanaman, diameter batang, jumlah daun, panjang daun, lebar daun dan rasio tajuk akar. Hasil penelitian menunjukkan bahwa pupuk organik cair *Azolla pinnata* memberikan pengaruh terhadap pertumbuhan bibit kopi robusta terutama pada variabel tinggi tanaman, jumlah daun dan panjang daun. Dosis terbaik yaitu pada perlakuan dengan dosis 1.000 ml /tanaman.

Kata kunci: *Azolla pinnata*, pupuk organik cair, bibit, dosis, kopi robusta.

**THE EFFECT OF LIQUID ORGANIC FERTILIZER OF
Azolla pinnatae ON THE GROWTH OF ROBUSTA COFFEE
(*Coffea canephora*) SEEDLINGS**

ABSTRACT

The high production of robusta coffee crops depends on the quality and quantity of seedlings which its growth can be increased by liquid organic fertilizer of *Azolla pinnata*. The objectives of this study were to determine the effect of liquid organic fertilizer *Azolla pinnata* on the growth of robusta coffee seedlings and to obtain the best dosage of its that supports the growth of robusta coffee seedlings. The experiment was designed according to a Completely Randomized Design (CRD) with 5 treatments and repeated 4 times. The observed data were analyzed by the F test at 5% level and if it significantly different, then continued by the Duncan's New Multiple Range Test (DNMRT) at 5% level significantly. The observed variables were plant height, stem diameter, number of leaves, leaf length, leaf width and shoot root ratio. The results showed that the liquid organic fertilizer of *Azolla pinnata* had an effect on the growth of robusta coffee seedlings, especially on the variables of plant height, number of leaves and leaf length. The best dose that supports the growth of robusta coffee seedlings was 1,000 ml /plant.

Key words: *Azolla pinnata*, liquid organic fertilizer, seeds, dosage, robusta coffee