

**PENGARUH PEMBERIAN KOMPOS ECENG GONDOK
(*Eichhornia crassipes*) TERHADAP PERTUMBUHAN
BIBIT KOPI ROBUSTA (*Coffea canephora*)**

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ABSTRAK

Tanaman kopi (*Coffea sp.*) merupakan salah satu komoditi perkebunan yang menempati posisi ke empat setelah kayu manis, karet dan kelapa sawit. Tanaman ini bernilai ekonomis cukup tinggi dan berperan penting sebagai sumber devisa negara Indonesia. Penelitian ini bertujuan untuk memperoleh dosis terbaik kompos eceng gondok (*Eichhornia crassipes*) sebagai campuran media tanam terhadap pertumbuhan bibit kopi robusta (*Coffea canephora*) pada umur bibit 1 bulan. Penelitian ini telah dilaksanakan di kebun percobaan Universitas Andalas Kampus III Dharmasraya yang berlokasi di Kecamatan Pulau Punjung, Kabupaten Dharmasraya terhitung dari bulan Januari - Mei 2022. Penelitian ini disusun berdasarkan Rancangan Acak Lengkap (RAL) yang terdiri 5 dosis perlakuan kompos eceng gondok yaitu 0, 50, 100, 150, 200 g/polybag yang masing-masingnya diulang 5 kali, sehingga diperoleh 25 satuan percobaan. Masing-masing satuan percobaan terdapat 3 tanaman sehingga keseluruhan ada 75 tanaman sampel. Data pengamatan dianalisis dengan uji F pada taraf 5%, jika berbeda nyata maka dilanjutkan dengan *Duncan's New Multiple Range Test* (DNMRT) pada taraf 5%. Hasil penelitian menunjukkan bahwa kompos eceng gondok memberikan pengaruh terhadap pertumbuhan bibit kopi robusta terutama pada variabel tinggi tanaman, jumlah daun, dan panjang akar. Pemberian kompos eceng gondok dengan dosis terbaik yaitu 200 g/polybag untuk menunjang pertumbuhan bibit kopi robusta (*C. canephora*).

Kata kunci : bibit, dosis, eceng gondok, pertumbuhan, pupuk organik.

THE EFFECT OF WATER HYACINTH (*Eichhornia crassipes*) COMPOST ON THE GROWTH OF ROBUSTA COFFEE (*Coffea canephora*) SEEDLINGS

ABSTRACT

Coffee plant (*Coffea* sp.) is one of the plantation commodities which occupies the fourth position after cinnamon, rubber and oil palm. It has high economic value and plays an important role as a source of foreign exchange for Indonesia. The objective of this study was to obtain the best dosage of water hyacinth (*Eichhornia crassipes*) compost as a planting medium mixture on the growth of robusta coffee (*Coffea canephora*) seedlings at the age of 1 month. This research was carried out in the experimental field of the 3rd Campus Andalas University located in Pulau Punjung District, Dharmasraya Regency from January until May 2022. This research was designed based on a Completely Randomized Design (CRD) consisted of 5 doses of water hyacinth compost treatment, namely 0, 50, 100, 150, 200 g/polybag, each of it was repeated 5 times, so that 25 experimental units were obtained. Each experimental unit contained 3 plants so that there were 75 sample plants in total. Observed data were analyzed by F test at 5% level, if significantly different then continued by the Duncan's New Multiple Range Test (DNMRT) at 5% level significantly. The results showed that water hyacinth compost give an effect on the growth of robusta coffee seedlings, especially on the variables of plant height, number of leaves, and root length. Application of water hyacinth compost with the best dose of 200 g/polybag to support the growth of robusta coffee (*C. canephora*) seedlings.

Keywords: seedlings, dosage, water hyacinth, growth, organic fertilizer.