

ABSTRAK

Penelitian ini bertujuan untuk mempelajari serta mengetahui pengaruh pemberian berbagai jenis pupuk organik terhadap pertumbuhan bibit Kopi Liberika (*Coffea liberica* W. bull ex Hiern) Tungkal Jambi. Penelitian ini dilaksanakan dari bulan November 2020 s/d Februari 2021, di Teaching and Research Farm Fakultas Pertanian Universitas Jambi, Desa Mendalo Indah, Kecamatan Jambi Luar Kota, Kabupaten Muaro Jambi, Provinsi Jambi. Penelitian ini menggunakan Rancangan Acak Kelompok (RAK) pola satu faktor. yaitu Jenis Pupuk Organik sebanyak 5 taraf yaitu: p_0 = Tanpa Pemberian Pupuk Organik (Anorganik Urea, SP-36, KCl), p_1 = Pemberian Pupuk Organik Sampah Kota 40 ton/ha⁻¹ (200 g/polibag), p_2 = Pemberian Pupuk Organik Kambing 40 ton/ha⁻¹ (200 g/polibag), p_3 = Pemberian Pupuk Organik Sapi 40 ton/ha⁻¹ (200 g/polibag), p_4 = Pemberian Pupuk Organik Ayam 40 ton/ha⁻¹ (200 g/polibag). Hasil penelitian ini menunjukkan bahwa berbagai jenis pupuk organik memberikan respon yang berbeda terhadap pertambahan tinggi bibit, luas daun, bobot kering tajuk dan indeks vigor hipotesis bibit tanaman kopi liberika. Namun belum mampu memberikan respon yang berbeda terhadap pertambahan jumlah daun dan bobot kering akar bibit tanaman kopi liberika. Perlakuan pupuk organik kotoran kambing 40 ton/ha (200 g/polibag) dapat meningkatkan pertambahan tinggi bibit sebesar 12,14 cm, luas daun sebesar 170,29 cm², bobot kering tajuk sebesar 8,10 g dan indeks vigor hipotesis sebesar 5,17 pada umur 12 minggu.

Kata kunci : pupuk organik, kopi liberika, pembibitan

ABSTRACT

This study aims to study and determine the effect of various types of organic fertilizer on the growth of Liberika Coffee (*Coffea liberica* W. bull ex Hiern) Tungkal Jambi seedlings. This research was conducted from November 2020 to February 2021, at the Teaching and Research Farm, Faculty of Agriculture, Jambi University, Mendalo Indah Village, Jambi Outer City District, Muaro Jambi Regency, Jambi Province. This study used a one-factor randomized block design (RAK). namely Types of Organic Fertilizer as much as 5 levels, namely: p_0 = Without Application of Organic Fertilizer (Inorganic Urea, SP-36, KCl), p_1 = Application of Municipal Waste Organic Fertilizer 40 tons/ha-1 (200 g/polybag), p_2 = Application of Fertilizer Goat Organic 40 tons/ha-1 (200 g/polybag), p_3 = Cattle Organic Fertilizer 40 tons/ha-1 (200 g/polybag), p_4 = Chicken Organic Fertilizer 40 tons/ha-1 (200 g/polybag). The results of this study showed that various types of organic fertilizers gave different responses to the increase in seedling height, leaf area, crown dry weight and hypothetical vigor index of liberica coffee seedlings. However, it has not been able to provide a different response to the increase in the number of leaves and root dry weight of liberica coffee seeds. Organic fertilizer treatment of goat manure 40 tons/ha (200 g/polybag) can increase the growth of seedlings by 12.14 cm, leaf area by 170,29 cm², canopy dry weight by 8.10 g and hypothetical vigor index by 5.17 at 12 weeks of age.

Keywords: organic fertilizer, liberica coffee, nurseries