

ABSTRACT

EDI HANDOKO : The influence of Planting Media and Present of NPK Manure (16:16:16) To Growth of Cacao (Theobroma cacao L.) in Nursery, leader by BALONGGU SIAGIAN and IRSAL.

The design of the experiment was randomized block design arranged in factorial pattern with two factors. The first factor is planting media, 100% subsoil, 75% subsoil + 25% trichokompost, 50% subsoil + 50% trichokompost, and 25% subsoil + 75% trichokompos. The second factor present of NPK Manure (16:16:16), 0,0 g/polibag, 2,5 g/polibag, 5,0 g/polibag, 7,5 g/polibag. The Parameter observed includes plant height (cm), number leafs (sheet), diameter of stem (mm), total of broad leaf (cm²), fresh and dry weight of crown (g) fresh and dry weight of root (g).

The result of reseach showed that planting media influential significantly on plant height, number of leafs ,diameter of stem, total of broad leaf, fresh and dryweight of crown,fresh and of root. Present of manure in fluential significantly to total of broad leaf, influentialunsignificantly to plant height, number of leaf, diameter of stem,fresh and dryweight of crown, fresh and dryweight of root. Interaction between planting media presnt of manure influential significantly to plant height, diameter of stem, total of broad leaf. The best taraf combination is planting M₂P₁ with 50% subsoil + trichokompost increased present of manure P₁ 2,5g/polibag.

Key Words :Trichokompost TKKS, Present of Manure, Cacao, Nursery

ABSTRAK

EDI HANDOKO : Pengaruh Media Tanam dan Pemberian Pupuk NPK (16:16:16) Terhadap Pertumbuhan kakao(*Theobroma cacao* L.) di Pembibitan, di bimbing oleh BALONGGU SIAGIAN dan IRSAL.

Rancangan penelitian yang digunakan adalah Rancangan Acak Kelompok (RAK) pola faktorial dengan dua faktor. Faktor pertama adalah media tanam, yaitu 100% Subsoil, 75% Subsoil + 25% Trichokompos, 50% Subsoil + 50% Trichokompos dan 25% Subsoil + 75% Trichokompos. Faktor kedua adalah pemberian pupuk NPK (16:16:16) yaitu : 0,0 g/polibag, 2,5 g/polibag, 5,0 g/polibag, 7,5 g/polibag. Parameter yang diamatai meliputi tinggi bibit (cm), jumlah daun (helai), diameter batang (mm), total luas daun (cm²), bobot basah dan kering tajuk (g), serta bobot basah dan kering tajuk (g).

Hasil penelitian menunjukkan bahwa media tanam berpengaruh nyata pada tinggi bibit, jumlah daun, diameter batang, total luas daun, bobot basah dan kering tajuk, serta bobot basah dan kering akar. Pemberian pupuk berpengaruh nyata pada total luas daun, berpengaruh tidak nyata pada tinggi bibit, jumlah daun, diameter batang, bobot basah kering tajuk, bobot basah kering akar. Interaksi antara media tanam dan pemberian pupuk berpengaruh nyata pada tinggi bibit, diameter batang, total luas daun. Kombinasi perlakuan terbaik adalah taraf kombinasi M2P1 campuran 50% subsoil + 50% trichokompos ditambah pemberian pupuk 2,5 g/polibag.

Kata Kunci : Trichokompos TKKS, Pemberian Pupuk, Kakao, Pembibitan