

INFLUENCE OF EMPTY BUNCH ASH PLANTING MEDIUM PALM OIL AGAINST GROWTH

***Mucuna bracteata* De Candolle**

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ABSTRACT

Mucuna bracteata D.C is a rapidly growing ground cover plant, producing high biomass, an effective weed competitor (producing allelopathic compounds relative to various types of weeds). Generative n propagation of *M. bracteata* D.C is very difficult to do because of the hard skin of the seed and to accelerate germination it is necessary to scarify that is, remove part of the seed skin mechanically. Empty oil palm bunches (EFB) are one of the plantation wastes whose availability has increased but has not been optimal in its use. This activity aims to determine the influence of the planting media of empty bunch ash of oil palm on the growth of *mucuna bracteata* D.C. This research was carried out from October to December 2022 at the Greenhouse of the Jember State Polytechnic. This study used a Non-Factorial Group Randomized Design (RAK) consisting of 6 treatments with 4 tests, which included control media (topsoil), 80% topsoil: 20% EFB, 70% topsoil: 30% EFB, 60% topsoil: 40% EFB, 50% topsoil: 50% EFB, 40% topsoil: 60% EFB. The research data were analyzed with ANOVA followed by a 5% BNJ follow-up test. The results of the study provided that the application of oil palm empty bunch ash media had no noticeable effect on the parameters of plant height, number of leaves, wet weight of seedlings and dry weight of seedlings.

Keywords : *Mucuna bracteata* D.C, *Empty Bunches of Palm Oil*, *Topsoil*.