

**THE EFFECT OF KASCING MEDIA COMPOSITION ON THE GROWTH  
OF SEA SENGON SEEDS  
(*Paraserianthes falcataria* L. Nielsen)**

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**ABSTRACT**

Sea Sengon (*Paraserianthes Falcataria* L. Nielsen) belongs to the Mimosaceae family and is better known as the area sengon or jeungjing, which is a fast growing plant. Based on the National Level Forestry Plan, forest land owned by the government and community forests must be encouraged so that the percentage of their contribution to national development increases according to the area of the forest land itself. Growth media is a place to grow plants that provide nutrients, air and water for the needs of physiological activity and plant growth. Organic fertilizers have a very important role to improve the physical properties of the soil. One type of organic fertilizer that can be used is vermicompost or vermicompost organic fertilizer. Kascing Fertilizer is a compost process which utilizes micro-organisms as decomposers. This research was conducted from December 2019 to April 2020 in the Jember State Polytechnic Plantation. The experimental design used was a non factorial randomized block design consisting of 4 treatments, namely (P0) Top Soil, (P1) Kascing Media + Top Soil 1: 1, (P2) Kascing Media + Top Soil 2: 1, and (P3) Kascing Media + Top Soil 3: 1. The observational data obtained were tested with the F test (Anova) and if significantly different, the LSD test was carried out at the 5% level. The results showed that the composition of the vermicompost medium had a very significant effect on plant height, number of stalks and stem diameter, and had no significant effect on wet weight and dry weight. The composition of Kascing + Topsoil media (3: 1) was the treatment with the highest average.

Keyword : Sengon, vermicompost, Organic