

Pengaruh Pematangan Dormansi dan Komposisi Media Tanam Terhadap Pertumbuhan Bibit Sengon (*Paraserianthes falcataria* (L.) Nielson). (*The Influence of Dormancy Breacking and The Composition of The Media Planting on Growth The Seedling Sengon (Paraserianthes falcataria (L.) Nielson).*)
Advisor: Rizal and Sri Rahayu

Asep Supiandi

*Seed Production Technique Program
Department of Agricultural Production*

ABSTRACT

*The efforts to improve productivity sengon seedlings as planting material in timber production is done by dormancy breaking and the composition media planting. This research was carried out in field trials and Seed Production Technology Laboratory Polytechnic of Jember in October 2015 - January 2016. The trial design used was a randomized block design (RAK) factorial consisting of two factors. The first factor is the dormancy breacking (D) consisting of seeds are soaked with a water temperature of 27⁰ C / control (D₀), seed oven, temperature of 60⁰ C for 24 hours followed soaking in water for 24 hours (D₁), seeds are soaked in hot water temperature 80⁰ C for 5 minutes followed regular water immersion for 24 hours (D₂), and the seeds are soaked in a solution of 125 ppm GA₃ (D₃). The second factor is the composition of the media planting , namely, land top soil (M₀), top soil and sand ratio of 1: 1 (M₁), top soil and rice husk ratio of 1: 1 (M₂), and top soil, sand and charcoal husk ratio of 1 : 1: 1 (D₃). The research results showing that Fracture dormancy breacking by immersion in hot water temperature of 80⁰ C was continued soaking at normal water temperature of 27⁰ C real effect on the parameters plant height and root length and produces an average of 22.56 cm plant height and root length of 17.39 cm. The composition of the planting media was highly significant (***) on the parameters plant height and plant fresh weight, significant (*) in diameter parameters of plants and plant dry weight. Media soil singly top soil produces an average plant height of 23.11 cm, 0.25 cm diameter, plant fresh weight of 1.83 grams and 0.81 grams of plant dry weight.*

Keywords: *Sengon, Dormancy Breaking, Planting Media*