

**THE EFFECT OF DIFFERENT LIGHT INTENSITY ON THE GROWTH OF LARAN  
(*Neolamarckia cadamba*) IN NURSERY**

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**ABSTRACT**

The study on the growth of Laran (*Neolamarckia cadamba*) seedlings using different light intensity was conducted at nursery, Forestry Complex Faculty of Science and Natural Resources, Universiti Malaysia Sabah. This study was carried out to identify the suitable light intensity rate for Laran seedlings in the nursery phase and also the root shoot ratio for the seedlings. Four treatments that was given to the Laran seedlings were 0% shading (T1), 50% shading (T2), 70% shading (T3) and 90% shading (T4) for 10 weeks. The complete randomized design (CRD) was chosen for this study. Collected data was analyzed using one way analysis of variance (ANOVA) to identify the significant difference ( $P < 0.05$ ). It was found that T2 and T3 shows good increment of height and diameter for the growth of Laran. While T1 and T4 shows less differences on the results based on the mean average for height, diameter and leaf area. The growth of Laran seedlings in the nursery stage was found better under the 70% shades compared to 0%, 50%, 70% and 90% of shades. T4 has the highest of the root shoot ratio (1:2.5). The highest score for the root plug density is T4 (score 4). Overall T3 is the best treatment for seedlings under the shade for the nursery phase.