

WIDLINGS AS PROPAGATES TO PRODUCE POTTED SEEDLINGS OF ROSE-WOOD (*Aniba rosaeodora* DUCKE) IN THE NURSERY

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The demand of potted seedlings of rose wood is increasing recently due to commercial plantations. IBAMA has obligated pau-rosa oil extractor companies to reforest this species in Western Amazon. However, the collecting of seeds is difficult, due to the high fruit predation by birds and irregular fruiting season. This fact justifies the development of new propagation techniques such as stalk, tissue culture and wildlings.

In this study, wildlings were collected in the understory of a 35 years old plantation, transferred to a nursery the wildlings were raised up in two types of substrate: forest soil (upper layer-10 cm) and nursery soil (sand + clay + chicken manure) under different shade intensities (0; 30; 50 and 75 %). The experimental design was a factorial (4 x 2), with a total of 240 wildlings using 30 repetitions for each treatment .

After 120 days of observations, the wildlings grown in forest soil under 50 % of shading presented 100% survival and greatest growth rates (1.8 cm increase in height and 0.4 cm in diameter).

The results suggest that wildlings after acclimatization to low level of radiation (50% shade) in the nursery can be used for reforestation.