

STUDY ON SEED PROPAGATION AND GROWTH OF KHAO VANG (*Machilus bonii* Lecomte)

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Summary

This paper indicates results of seed propagation and growth of Khao Vang (*Machilus bonii* Lecomte) species in nursery period. Fruit was in sphere shape with diameter ranged from 1 to 1.5 centimeters, the mean weight of seed was 3.6 grams. Because seeds of *Machilus bonii* Lecomte are weak in germination, they need to remove unvalueable seeds and impurities after harvesting then keep in moist sand for 3-4 days, clean the shell and sow immediately, if not, they should be stored at 5 °C -10°C. Finally, directly sow in the seeding beds or planting pots. The experimental test of different formulas in planting pots showed that, the highest germination was in the formula of 90%+10% of soil and manure respectively. The formula of 90%+9%+ 1% of soil, manure, and super phosphate respectively presented the largest in diameter and height as the species was three months. The results also indicated that, different shading proportion affected on growth of seedlings in nursery, especially in tree height. At 3 months of age, the highest growth was observed in the 75%. 50% was the highest at 6 month olds. However, at 6 months, there was no difference in diameter in the tested experiments.

Key words: Height, diameter, propagation, growth, experiment.