PENGGUNAAN ARANG KOMPOS PADA MEDIA TUMBUH ANAKAN MAHONI

The Use of Compost Charcoal on the Growing Media of Mahoni Seedlings

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ABSTRACT

This report described results of an application of two kinds of compost charcoals on the growing media of mahoni seedlings (Swietenia macrophylla King) for 5-month duration. Objective of this study is to learn such application on the characteristics of seedlings growth.The two kinds of compost charcoals were : the one derived from tusam litters (A1) ; and the other from a mixture of litters and mahoni seeds (A2). Results revealed that the application of compost charcoal (A1 and A2) each at 30% dosage could increase height of mahoni seedlings as much as 17.67 – 25.02 cm, which is approximately 3 times greater than the control. The compost application also increased girth of mahoni seedling up to twice that of the controls. The application of compost charcoal at 40% dosage of either (A1) or (A2), however, showed a smaller increase in height and girth increament compared with the 30% dosage. Cummulatively, the application of compost charcoal could increase the seedling biomass by more than 40%.

Keywords: Mahoni seedlings, compost charcoal, litters.

ABSTRAK

Tulisan ini menyajikan hasil penelitian tentang penggunaan dua jenis arang kompos terhadap media tumbuh anakan mahoni (Swietenia macrophylla King) selama 5 bulan dengan tujuan untuk mengetahui pengaruh pemberian arang kompos terhadap respon pertumbuhan anakan mahoni. Bahan yang digunakan adalah arang kompos serasah tusam (A1), arang kompos serasah campuran (A2) dan bibit mahoni. Hasil penelitian menunjukkan bahwa dosis 30% arang kompos aik A1 maupun A2 dapat meningkatkan pertambahan tinggi anakan mahoni sebesar 17,67 – 25,02 cm atau 2,7 - 3,8 kali lipat dibandingkan dengan kontrol. Pertambahan diameter sebesar 0,16 – 0,19 cm atau sekitar 1,8 – 2,1 kali lipat dibandingkan dengan kontrol.Namun demikian, pemberian arang kompos sebesar 40% baik pada A1 maupun A2 menunjukkan pertambahan tinggi dan diameter yang lebih kecil dibandingkan dengan pemberian dosis 30%. Secara kumulatif, pemberian arang kompos dapat meningkatkan biomas anakan lebih dari 400%.

Kata kunci: Serasah, arang kompos, anakan mahoni