

Effect of different media on vegetative and physiological traits of five varieties of Dracaena (Dracaena spp.)

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Abstract Effect of different media on vegetative and physiological traits of five varieties of Dracaena (Dracaena spp.) An experiment was conducted to evaluate the effect of several types of media on vegetative and physiological characteristics of 5 cultivars of Dracaena . This experiment was conducted in a factorial arrangement based on a randomized complete block design with two factors: the first factor was five varieties of Dracaena (Dracaena marginata "Red Edge", "D. marginata "Green"", D. marginata "Tricolor" "D. massangeana" and "D. dremensis Compact" Janet Crig ") and the second factor was the culture medium in 7 levels (garden soil (control)," 70% garden soil 30% leaf litter ", " 50% garden soil 50% azocompost, 50% garden soil 50% rice husk, 33% garden soil 33% sand 33% leaf litter, 60% garden soil 40% peanut shell and 33% sand 33% Rice husk 33% leaf litter) in 35 treatments, three replications. The studied traits were vegetative indices such as height, leaf number, total plant weight and the physiological parameters were chlorophyll a, b and total, anthocyanin, catalase and peroxidase. The results showed that the highest stem height was in tricolor, the highest total weight belonged to the D. massangeana, the highest number of leaves, the highest chlorophyll a, b and total and the highest amount of anthocyanins was in the D. dremensis Compact. Comparing of data mean on the media showed that the treatments of "garden soil sand leaf litter" have the greatest effect on the amount of chlorophyll a, total and anthocyanin. The highest chlorophyll a, total and anthocyanin levels was also obtained under " D. dremensis compact × garden soil Sand leaf litter" treatment. Key words: azocompost, anthocyanin, media, leaf litter, Dracaena dremensis Compact.

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dremensis Compact.

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