STUDY ON METHOD OF VEGETATIVE PROPAGATION ON DAYLILY IN HANOI

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Summary

Daylily (*Hemerocallis* sp.) is clump-forming perennial monocotyledon, which is one of the widest popular ornamental plant in the world. In Vietnam, it is commonly used in landscape design. The study was carried out to determine techniques to improve the ability of daylily propagation in Hanoi. The results indicated that the substrate mixed from soil : sand : rice husk ash : coconut fiber (v/v 1:1:1:1) shortened adventitious root emergence time (13.6 days) and improved quality of the seedling. Cutting stem into 4 pieces produced the highest multiplication rate (2.9 times). Treating cutting by Atonik solution (20 g/l) in 10-12 seconds raised quality of rooting system (the quantity of primary and secondary root was 2.9 and 16.1, respectively) and the length of root achieved 9.8 cm. The 12 cm cutting height was the most suitable for daylily propagation (the emergence time of leaf and root were shortened to 8.7 and 14.7 days, respectively). September was the best season for cutting propagation. From the results, the simple cutting propagation procedure of daylily with 5 steps was revealed. The techniques had been simplified for applying in Hanoi and the similar areas in Vietnam.

Key words: *Cutting propagation, daylily, substrate, Vietnam.*