

Title Effect of different IBA concentration and type of cutting on rooting and flowering of *Poinsettia pulcherrima*

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Abstract

One of the problems for breeding of poinsettia is the measure of its damages during the propagation. In this research we are examining those processes which are helpful for better rooting. This project has been doing in the form of factorial test in frame work of randomized complete block design with 12 different treatments and 3 replications. In this experiment the cutting are providing in 3 forms (top cutting, middle cutting, lower cutting). After the insertion of IBA (Indole 3- Butyric acid) with four density 0,1000,2000,4000 mg/L in 2.5 centimetre of lower part of the cuttings for 5 seconds, they had been planted in the washed sand then planted cuttings were put under the mist system, so after 5 weeks they were rooting. The results showed that in plants produced from lower cutting have the maximum of rooting, the number of bract, the number of leaf, the number of bud and the size of bract. In density of 1000 mg/L of IBA there were the highest increase in the length of root, the number of bract, the number of cyathium, the number of leaf and the size of bract. The former tests have shown that the most rooting are seen in top cutting and IBA for rooting of poinsettia is not necessary, and density of 2500 mg/L is suggested for increasing the speed of rooting and monotony of root, but according to the results of this research, IBA with density about 1000 mg/L causes longer roots and most rooting has seen in the lower cuttings.