

Effect of different concentration of IBA on the success of hardwood and softwood cuttings of water apple

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ABSTRACT

Considering the nutritional, commercial potentiality and popularity there is an increasing tendency to grow water apple in different parts of West Bengal. However, due to the unavailability of genuine quality planting material, area under the cultivation of this crop is limited. Till date growers are raising this crop mostly through seed propagation. Asexual means of propagation reduces the long gestation period. Considering the above facts, an experiment was conducted to assess the effect of various concentrations of IBA on different types of cuttings of water apple. According to the results obtained, IBA concentration at 3000 ppm showed better response in terms of days taken for sprouting (8.66 days), number of leaves (54.23), sprouting (88.25 %), success (86.75) and survival rate (93.23 %) with least mortality rate (17.75 %) IBA at 3000 ppm performed better in terms of number of roots (23.70) and rooting per cent (91.75 %).

Keywords: Cuttings, IBA, propagation, water apple.