Effect of juvenil and adult at the comprative investingation of rooting at three spruce species (picea. spp) cuttings with using IBA hormone.

Hamed Reza Safdari & Mohamad Sanie Shariat Panahi

Seed and Plant Improvement Research Institute in Karaj, Horticultural Division\_KARAJ Isgamic Azad University

In the presented research, three spruce species (P.abies, P. pungens, and p. glauca) were investigated from rooting indices (rooted cuttings number, root number percutting, and root length) points of veiw, with using different concentrations of IBA and considering juvenility and maturity effects and their inteerracations of IBA and considering juvenility and muturity effects and their relations, by using mist system.

The maximum rooting percentage was achieved in P. glauca juvenile cuttings with 8000 PPM IBA, The maximum root number in juvenile P. abies cutting was achieved with 8000 PPM IBA and the longest root length in juvenile was achieved with P. glauca cuttings with 6000 PPM IBA. It should be emphasized that in the all investigated species and hormone concentrations, juvenile cuttings were superior than mature cuttings from rooting indices points of view and the most different quantities of rooting indices were considered between mature and juvenile cuttings of P. abies and minimum differences were in P. pungens.