

Preliminary Study of the Potential of Propagation by Cuttings of *Juniperus thurefera* in Aures (Algeria)

Authors : N. Khater, I. Djbablia, A. Telaoumaten, S. A. Menina, H. Benbouza

Abstract : Thureferous Juniper is an endemic cupressacée constitutes a forest cover in the mountains of Aures (Algeria). It is an heritage and important ecological richness, but continues to decline, highly endangered species in danger of extinction, these populations show significant originality due to climatic conditions of the environment, because of its strength and extraordinary vitality, made a powerful but fragile and unique ecosystem in which natural regeneration by seed is almost absent in Algeria. Because of the quality of seeds that are either dormant or affected at the tree and the ground level by a large number of pests and parasites, which will lead to the total disappearance of this species and consequently leading to the biodiversity. View the ecological and social- economic interest presented by this case, it deserves to be preserved and produced in large quantities in this respect. The present work aims to try to regenerate the *Juniperus thurefera* via vegetative propagation. We studied the potential of cuttings to form adventitious roots and buds. Cuttings were taken from young subjects from 5 to 20 years treated with indole butyric acid (AIB) and planted out inside perlite under atomizer whose temperature and light are controlled. The results show that the rate of rooting is important and encourages the regeneration of this species through vegetative propagation.

Keywords : juniperus thurefera, indole butyric acid, cutting, buds, rooting

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