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Comparative Analysis on Seed and Cutting propagation in *Cupressus arizonica, Cupressus sempervirens,* and *Thuya orientalis* : influence of seasonal climatic effects conditions

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1 ABSTRACT

Various experiments on propagation through seeding and different types of cuttings, on different substrates, were conducted for three species of conifers: *Thuya orientalis (Chinese thuja*), *Cupressus sempervirens (Common Cypress*) and *Cupressus arizonica* (*Arizona Cypress*) . The results demonstrate variability among the different species studied: the ex-situ germination rate ranges from 4% to 50%. Regarding in-situ germination, the study shows that germination of all species is higher in peat. Regarding cuttings performed on different substrate types and during two different periods (winter and spring), the results vary among the different species studied, with low rooting percentages, especially in *Cupressus arizonica*, which showed better rooting during the spring period