

Postfire natural regeneration of *Pinus brutia* in the forest park of Thessaloniki.

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ABSTRACT

The postfire natural regeneration of *Pinus brutia* was investigated in the Forest Park of Thessaloniki (North Greece), after the wildfire of July 1997. After the fire, 800 Ha of the burned area were planted with tree seedlings while the rest were left undisturbed. In undisturbed areas, the mean number of *Pinus brutia* seedlings was 5230 ha⁻¹, while in the reforested areas was 1940 ha⁻¹, after two years. Regeneration was higher in east and north aspects compared to south and west ones. The quality of site affected positively and significantly the number of surviving pine seedlings both in planted and undisturbed areas. Two resprouting species, *Quercus coccifera* L. and *Phillyrea latifolia* L. appeared immediately after wildfire and predominated over the rest resprouting species *Pistacia terebinthus* L., *Crataegus monogyna* Jack., *Cercis siliquastrum* L., *Arbutus adrachne* L., *Juniperus oxycedrus* L., *Fraxinus ornus* L., *Anthyllis hermanniae* L., *Pyrus amygdaliformis* Vill.