



AGROSYM

BOOK OF ABSTRACTS



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"Agrosym 2025"
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MICROCLIMATIC CHARACTERISTICS AND REGENERATION OF SESSILE OAK IN THE FRUŠKA GORA NATIONAL PARK, SERBIA

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Abstract

The paper presents data on microclimatic conditions (air temperature, soil temperature, relative humidity, solar radiation, wind direction, and speed) in a pure stand of sessile oak within Fruška Gora National Park. The phytocoenological affiliation of the stand is a monodominant sessile oak forest (*Quercetum montanum typicum* Čer. et Jov. 1953). The stand is even-aged, of vegetative origin, and 101 years old. It is located on a northwestern exposure at an altitude of 470 m, with a 6° incline and a canopy cover of 0.6. The results of the microclimate research conducted in July 2008 showed that the average air temperature during this period ranged from 19.2°C to 28.9°C, peaking at 2 PM. The relative air humidity varied between 34.2% and 54.2%, while solar radiation levels ranged from 7.5 W/m² to 675.0 W/m². The average daily value of the soil temperature ranged from 18.8°C to 21.7°C, with a culmination two hours after the culmination of the air temperature. The data were compared with the reference climatological station Rimski Šančevi located near the object of the study. The most frequent wind during the research period was from the south to southeast direction with an average speed of 0.7 m/s. These microclimate data are crucial for the success of forest regeneration, as they allow three-year-old seedlings to survive and develop successfully. The number of individuals per hectare is 38 pcs/m², i.e., 380,000 individuals per ha. Understanding these conditions is also crucial for establishing new forests through seed sowing.

Key words: *microclimate characteristics, regeneration, sessile oak, Fruška Gora National Park, Serbia.*