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Izvorni znanstveni članak

Influence of sampling location on sapwood group chemical composition of beech wood (*Fagus sylvatica* L.)

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Sažetak

This paper deals with the influence of sampling locations on sapwood group chemical composition of beech wood (*Fagus sylvatica* L.) determined by standard isolation methods for major wood chemical components. Previous researches came to the conclusion that chemical composition varies between samples of the same wood species from different sampling locations based on phytocoenological criteria (soil type and phytocoenoses). This has been confirmed by this paper. Compared to previous studies, the results obtained show the increase of accessory material and lignin content, decrease of wood polyoses content, while ash and cellulose content remain unchanged. It has been shown by comparison of each location with identical chemical components and their correlation that sampling locations differ between themselves significantly (in terms of statistics) in accessory material and cellulose content, while the difference in ash, cellulose and wood polyoses content is negligible. Likewise, based on phytocoenological criteria of each sampling location, research results only show statistically significant differences in the accessory material content.

Ključne riječi

group chemical composition; beech wood (*Fagus sylvatica* L.); sapwood; sampling location; phytocoenological criteria

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