

Mázsa, K., Balázs, B., Horváth, F., Bölöni, J. & Aszalós, R. (2008): Transition of a managed forest towards a natural one-forest history and stand survey study in an oak forest reserve. 6th European Conf. on Ecol. Restoration, Ghent, Belgium, 8-12/09/2008

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Short reference: Mázsa et al. (2008)

First author: Mázsa Katalin

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Abstract

Transition of a managed forest towards a natural one - forest history and stand survey study in an oak forest reserve

Mázsa K., Balázs B., Horváth F., Bölöni J., Aszalós R.

Pannonian oak woods (91G0), 91H0, 91M0) are the main forest types of the study area - the Várhegy Forest Reserve at Felsőtárkány, Hungary. In this study, our aim was to reconstruct the temporal and spatial variation of stand development in the previous 130 years. Land-use history documents from the past 130 years were analysed and compared with the results of a detailed field survey of forest stands. Four age classes were found for the main tree species - *Quercus petraea*, *Qu. cerris*, *Qu. pubescens*, *Carpinus betulus*, *Fagus sylvatica*, *Fraxinus excelsior* and *Acer campestre*. The most important impacts in this area were the change from forest management (cutting system) to abandonment, and oak decline, which induced natural regeneration processes. Our database and case study give example for the transition of an oak forest after cutting management, and provide lessons for future climate forest restoration.

forest dynamic, gap dynamic, succession

forest management

forest structure: stand

forest history

Notes

91M0, 91G0, 91H0, land use change, oak decline, forest regeneration, restoration of wilderness areas, biodiversity policy, forest reserve

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