Aspects Referring to the Simulation of Silvicultural Interventions using Specialized Software

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ABSTRACT

Simulations and modeling represent modern research methods appropriate for the long perspective management planning. In forestry domain, simulation and modeling of different silvicultural interventions have outstanding importance in the process of proposal and adoption of different stand silvicultural regimes, in the process of biodiversity conservation, of forest products optimal valorization and finally, for the sustainable management of the forest resources. In order to simulate of several silvicultural interventions, specialized software will be utilized using the data gathered from sampling plots, in order to accurately reflect in situ reality. As a consequence, accurate silvicultural analysis, using diversified mathematical models, simulations of possible scenarios will lead to optimal silvicultural diagnosis and adoption of corresponding solutions. During the present case study, software PROARB - fig. 1, SVS and EXCEL were employed in order to depict structural and functional characteristics of stands and for the simulation of the justified silvicultural interventions.

Fig. 1 - Simulation of the intervention in the stand from u.a. 51A, where were realise group shelterwood system

REFERENCES