

ROMANIA

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I. Current and planned research activities concerning E42 objectives in Romania

At present, there are a few ongoing research activities and projects concerning some of the valuable broadleaved forest tree species:

1. Research on the definition of optimal, sub-optimal and limiting ecological niches of some valuable indigenous forest tree species (sycamore maple, wild service tree, wild cherry species); research team led by Prof. Dr. Dumitru-Romulus Tarziu, University "Transylvania" of Brasov (UTBv); research cycle: 2002-2004; submission of final report: end of 2004; nothing published until now

2. New methods of pre-treatment for interrupting the dormancy state of seeds of mountain ash and wild service tree; research team led by Dr. Cecilia Farcas, Forest Research and Management Institute (ICAS), Brasov Station; research cycle: 2002-2004; submission of final report: end of 2004; nothing published until now

3. Research on natural and artificial pruning of black walnut; research team led by Prof. Dr. Norocel-Valeriu Nicolescu, University "Transylvania" of Brasov, and Assoc. Prof. Dr. Johann Kruch, University "Vasile Goldis" Arad; project started in 2003; some preliminary results on natural pruning of black walnut already published in 2003 - see the following reference:

Nicolescu, N.V., Kruch, J., Petritan, I-C., 2003: Cercetari privind elagajul natural al nucului negru (*Juglans nigra* L.) (*Research on natural pruning of black walnut (Juglans nigra L.)*). Revista Padurilor (Romania), **5**, p. 8-11.

4. Research on biometrical correlations in individual sycamore maple and common ash trees: research team led by Prof. Dr. Norocel-Valeriu Nicolescu, University "Transylvania" of Brasov; project started in 2004; nothing published until now

II. The expected contribution of Romania to COST Action E42

I strongly believe that the Romanian team can make important contributions to the following topics related to the structure of E42's working groups:

Working Group 1

- selection of species and provenances while considering site conditions and management targets
- identification of value-relevant wood properties
- identification of non-wood goods and services
- spacing, species mixture, weed control and tending the stands
- growth dynamics in respect to site and species

Working Group 2

- controlling diameter growth
- crown architecture
- natural and artificial pruning
- stem form development and control
- selection and management of future crop trees
- controlling volume growth of high value timber
- final cutting systems

- regeneration practices according to species, mixture and site

Working Group 3

- identification of non-wood goods and services

Regarding your last query, as I have already done a lot of reading and fieldwork in the field of silviculture and defects of some valuable broadleaved tree species, I would be very interested to contribute to the topic “Silviculture and Growth”.