

CZECH REPUBLIC

Research on valuable broadleaved species in the Czech Republic

Faculty of forestry and environment, Czech University of Agriculture in Prague, Czech Republic

Past activities:

There were some small projects and diploma works dealing with valuable broadleaves including pilot project on mycorrhiza inoculation during artificial regeneration. Most of these activities were included into ongoing projects described at the next paragraph.

On - going projects and activities at our faculty:

- Utilization of noble forest tree species in multifunctional forest management and wood utilization in the Czech Republic – MSM 41410007; time span: 2000-2004
- Actualization of lecturing at the faculty – Special forest tree species and their use in forest management – FRVS 1407; time span 2003-2004

Projects under approval process:

- Environmental and technical-economic aspects of sustainable forest and countryside management – MSM 6046070902; time span 2005-2009
- Actualization of lecturing at the faculty – Silviculture of valuable tree species– FRVS 1807; time span 2005-2006

Mainly two department of the faculty (Dept. of Silviculture and Dept. of Dendrology and Tree breeding) are involved in described projects. However, there are others departments dealing with given subject - for example forest economy and forest protections but so far they did not express their interest in the Action E42.

The main topics will cover:

- different regeneration methods including fertilization, stimulation and mycorrhiza infection,
- stand establishment,
- growth dynamic especially in juvenile phases,
- increment stimulation through fertilization and pruning,
- crown architecture and its changes through pruning.
- selection of plus trees like parental trees for establishment of clonal seed orchards.
- research on series of seed orchards and various experimental plots like progeny and clonal tests,
- testing of progenies and clones in many reproductive and experimental plantings,
- methods of in vitro propagations.

Future activities:

We plan to continue within above given activities in future under new research projects which are under approval process.

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