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Czech J. Genet. Plant Breed.

Monitoring of selected threatened species in Bohemia

Czech J. Genet. Plant Breed., 46 (2010): S21-S26

The monitoring was based on 6 localities selected from within different regions of the Czech Republic. The vegetation was monitored during 2005 to 2008. Plant checklists have been made for each locality. Permanent plots of 9 m² in size have been marked and the phytosociological relevés have been recorded. The standard Braun-Blanquet scale of abundance/dominance was used. Biological diversity was evaluated using the Shannon, Simpson, and Evenness indexes. While some localities were stable and no threat was found (Radobýl), other localities were (to an extent) disturbed (Grado, Václavka, and Děčín); seriously damaged (Zbraslav), or permanently lost (Jílovský potok). Collecting seeds for the Gene Bank *ex-situ* conservation can serve as a backup for *in situ* conservation. Protection of two localities is suggested.

Keywords:

conservation; *in situ*; monitoring; phytosociological relevés; plant genetic resources; threatened species

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