

### **Genetic Variability and Structure of The Wild Service Tree (*Sorbus torminalis* (L.) Crantz) in Poland**

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Silvae Genetica 55 (2006) 4/5, p. 197-202

#### **Abstract**

*Sorbus torminalis* is a rare forest tree species in Poland. Allelic and genotypic structures at 25 isozyme gene loci were observed in 20 populations from Poland, situated mainly along a latitudinal gradient. Levels of genetic diversity were high both at the species level ( $P = 44\%$ ,  $He = 0.435$ ) and within populations (mean  $P = 40.8\%$ , mean  $He = 0.373$ ). Levels of differentiation among populations were relatively high ( $FST = 0.17$ ) and a noticeable geographic structure of this differentiation was detected. The population in the 'Brekinia' reserve had a unique genetic structure of a clonal population and was the most distinct from the other populations.

**Key words:** electrophoresis, isozymes, genetic diversity, population differentiation, *Sorbus torminalis*