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**Journal of Forest Science**

Influence of pulverized limestone and amphibolite mixture on the growth performance of *Alnus incana* (L.) Moench plantation on an acidified mountain site

J. For. Sci., 55 (2009): 469-476

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A young speckled alder (*Alnus incana* [L.] Moench) stand was planted on a tract clear-felled due to air pollution and located on a summit plateau of the Jizerské hory Mts. (Central Europe, Czech Republic) at an altitude of 950 m a.s.l. The aim of the experiment was to test the suitability of *Alnus incana* to form preparatory stands covering the site and thus enabling the reintroduction of more sensitive target species. A potential of *Alnus incana* to respond to slow-release fertilizing was tested as well. The control treatment showed sufficient growth dynamics, nevertheless, the fertilization significantly promoted the growth (documented by height, height increment and stem-base diameter). If some limitations of alder such as high light requirements are respected, the speckled alder can be recommended as a suitable species for preparatory stands even in the 7th and 8th altitudinal (vegetation) zones, especially when fertilized.

## Keywords:

Jizerské hory Mts.; chemical amelioration; biological amelioration; initial fertilizing; pioneer species; height increment; mortality; crown diameter; stem-base diameter

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