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Journal of Forest Science

Growth and health state of silver fir (*Abies alba* Mill.) in the ridge area of the Jizerské hory Mts.

Balcar V., Kacálek D.:

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The silver fir was planted under mountain conditions in order to reveal its response to the addition of finely ground rocks (limestone and amphibolite) mixed with soil into the planting holes. The results document that the increments of the plantations fertilised with amphibolite were higher by 25% on average than those of the control plantations while the increments of the plantations treated with dolomitic limestone were lower by 13%. Generally, as concerns both the plantations with the application of ground rocks and the control ones, the development of the fir plantations in 1994–2007 is considered successful. As the damage by climatic stresses has gradually diminished, the number of dead trees has been decreasing and the height increments have been increasing in the last years, therefore a positive development is to be expected also in future.

Keywords:

silver fir; *Abies alba* Mill.; artificial

regeneration; chemical amelioration

[[fulltext](#)]

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