

Table of Contents

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[JFS \(64\) 2018](#)[JFS \(63\) 2017](#)[JFS \(62\) 2016](#)[JFS \(61\) 2015](#)[JFS \(60\) 2014](#)[JFS \(59\) 2013](#)[JFS \(58\) 2012](#)[JFS \(57\) 2011](#)[JFS \(56\) 2010](#)[JFS \(55\) 2009](#)[JFS \(54\) 2008](#)[JFS \(53\) 2007](#)[JFS \(52\) 2006](#)[JFS \(51\) 2005](#)[JFS \(50\) 2004](#)[JFS \(49\) 2003](#)[Issue No. 1 \(1-43\)](#)[Issue No. 2 \(45-93\)](#)[Issue No. 3 \(95-139\)](#)[Issue No. 4 \(141-190\)](#)[Issue No. 5 \(191-239\)](#)[Issue No. 6 \(241-289\)](#)[Issue No. 7 \(291-347\)](#)[Issue No. 8 \(349-394\)](#)[Issue No. 9 \(395-443\)](#)[Issue No. 10 \(445-489\)](#)[Issue No. 11 \(491-536\)](#)[Issue No. 12 \(537-579\)](#)

Editorial Board

Ethical Standards

Peer Review Process

Reviewers 2017

For Authors

Author Declaration

Instruction for Authors

Submission Templates

Guide for Authors

Copyright Statement

Submission/Login

For Reviewers

Guide for Reviewers

Reviewers Login

Prosperity of spruce plantation after application of dolomitic limestone powder

I. Kuneš

<https://doi.org/10.17221/4696-JFS>

Citation: Kuneš I. (2003): Prosperity of spruce plantation after application of dolomitic limestone powder. J. For. Sci., 49: 220-228.

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The subject of this paper was to assess the effects of pulverised dolomitic limestone applications on prosperity of Norway spruce (*Picea abies* L.) plantation and on the soil in extreme ecological conditions of the Jizerské hory Mts. The characteristics such as plant mortality, annual height increment, diameter of root collar (stem base diameter), crown diameter, nutrient analyses and some data from soil analyses are evaluated in this paper. An eleven-year period of observations is summarised. According to the observations and measurements carried out until now, the effect of limestone applications (1 kg per tree) on the spruce plantation prosperity seems to be positive without any serious negative impacts on the soil.

Keywords:

Norway spruce; Jizerské hory Mts.; liming; forest soils; soil properties; chemical amelioration

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