

Table of Contents

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Article Archive

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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

Complex study of foliage nutrient status in ash fertilized Scots pine stands in Lithuania

I. Varnagirytė-Kabašinskienė

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In Lithuania, a typical Scots pine stand under the influence of wood ash and nitrogen fertilization, containing different treatments and the control, was analyzed. The study aim was to interpret the foliage and soil analyses, and to find possible indications in the soil-plant relation in the stand. The analyses of the foliage nutrient status in the Scots pine stand when wood ash with/without N was recycled to the forest showed that the significance analyses of changes in the nutrient composition in the soil and needles were the best initial tool for the response evaluation. The comparison of the nutrient concentrations with optimal amounts, critical levels of deficiency or target levels for ratios to N, and applied graphical analyses, could also provide possible indications in the soil-plant relation.

Keywords:

Scots pine needles; wood ash; nitrogen; foliage; nutrients

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Contact

Mgr. Petra Kolářová
Executive Editor
phone: + 420 227 010 355
e-mail: jfs@cazv.cz

Address

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