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[home](#) [page](#) [about us](#) [contact](#)



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**Table of
Contents**

IN PRESS

JFS 2015

JFS 2014

JFS 2013

JFS 2012

JFS 2011

JFS 2010

JFS 2009

JFS 2008

JFS 2007

JFS 2006

JFS 2005

JFS 2003

JFS Home

**Editorial
Board**

For Authors

- **Authors
Declaration**
- **Instruction
to Authors**
- **Guide for
Authors**
- **Copyright
Statement**
- **Submission**

**For
Reviewers**

- **Guide for
Reviewers**
- **Reviewers
Login**

Subscription

Journal of Forest Science

**Hymenoptera (Aculeata) of spruce stands in the air-pollution
region of Northern Bohemia**

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[[fulltext](#)]

Using Moericke's yellow dishes we studied the Hymenoptera (Aculeata) fauna (with the exception of Formicoidea) in spruce (*Picea abies*) stands of the colder region of Northern Bohemia. We collected 103 species and the most important species in this spectrum were *Vespula vulgaris* (56.4%), *Vespula rufa* (4.7%), *Dolichovespula norvegica* (3.1%), *Dolichovespula saxonica* (4%), *Nysson spinosus* (1.8%), *Andrena lappona* (1.9%), *Cleptes semiauratus* (5.9%), *Halictus* sp. (6.7%) and *Trypoxylon minus* (2.2%). Comparisons made in 1990–1994 and 1995–1999 indicated a recession of species of the genus *Halictus*, of *Andrena nitida* (Apidae), *Pemphredon lugubris*, *Trypoxylon clavicerum* and *T. minus* (Sphecidae), and an increased abundance of *Cleptes semiauratus* (Cleptidae), *Nysson spinosus* (Sphecidae), *Vespula vulgaris* and *V. rufa* (Vespidae). Compared to closed stands, open spruce stands had a greater species diversity and lower number of captured specimens.

Keywords:

Hymenoptera; Aculeata; *Picea abies*;
yellow dishes; Northern Bohemia

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