

# Canadian Journal of Forest Research

Volume 42, Number 4, April 2012

# Revue canadienne de recherche forestière

Volume 42, numéro 4, avril 2012

Postage paid at Ottawa Port payé à Ottawa  
Publications mail Poste-publication  
Registration No. 40110225 Enregistrement n° 40110225  
USPS periodical postage paid at Plattsburgh, NY 12901, USA

## ARTICLES

## ARTICLES

Hugo Jacqmain, Louis Bélanger,  
Réhaume Courtois, Christian Dussault,  
Thomas M. Beckley, Martin Pelletier, and  
Sam W. Gull

Tara M. Barrett, Greg Latta,  
Paul E. Hennon, Bianca N.I. Eskelson, and  
Hailemariam Temesgen

Yidong Wang, Zhong-Liang Wang,  
Huimin Wang, Changcheng Guo, and  
Wankui Bao

Michael S. Watt, Carol A. Rolando,  
David J. Palmer, and Lindsay S. Bulman

J.R. Butnor, K.H. Johnsen,  
F.G. Sanchez, and C.D. Nelson

Mukund R. Shukla, A. Maxwell P. Jones,  
J. Alan Sullivan, Chunzhao Liu,  
Susan Gosling, and Praveen K. Saxena

Robert P. Long, Patrick H. Brose, and  
Stephen B. Horsley

Bonita L. McFarlane, John R. Parkins, and  
David O.T. Watson

**631–641**

Aboriginal forestry: development of a socioecologically  
relevant moose habitat management process using local Cree  
and scientific knowledge in *Eeyou Istchee*

**642–656**

Host-parasite distributions under changing climate: *Tsuga*  
*heterophylla* and *Arceuthobium tsugense* in Alaska

**657–666**

Rainfall pulse primarily drives litterfall respiration and its  
contribution to soil respiration in a young exotic pine plantation  
in subtropical China

**667–674**

Predicting the severity of *Cyclaneusma minus* on *Pinus radiata*  
under current climate in New Zealand

**675–685**

Impacts of pine species, stump removal, cultivation, and  
fertilization on soil properties half a century after planting

**686–697**

In vitro conservation of American elm (*Ulmus americana*):  
potential role of auxin metabolism in sustained plant  
proliferation

**698–709**

Responses of northern red oak seedlings to lime and deer  
exclosure fencing in Pennsylvania

**710–719**

Risk, knowledge, and trust in managing forest insect  
disturbance

*Continued on inside back cover / Suite au verso*



**Front cover:** Photo of a young red spruce seedling (*Picea rubens* Sarg.) in a Quebec mixedwood forest by Daniel Dumais.

**Page couverture :** Photo d'un jeune semis d'épinette rouge (*Picea rubens* Sarg.) en forêt mixte au Québec par Daniel Dumais.



<b>Jarosław G. Paluch and Hanna J. Stępniewska</b>	<b>720–732</b>	Effect of microsites on the survival, density, and ectomycorrhizal status of shade-tolerant <i>Abies alba</i> regeneration attacked by fungal pathogens
<b>Venceslas Goudiaby, Suzanne Brais, Frank Berninger, and Robert Schneider</b>	<b>733–748</b>	Vertical patterns in specific volume increment along stems of dominant jack pine ( <i>Pinus banksiana</i> ) and black spruce ( <i>Picea mariana</i> ) after thinning
<b>Constance I. Millar, Robert D. Westfall, Diane L. Delany, Matthew J. Bokach, Alan L. Flint, and Lorraine E. Flint</b>	<b>749–765</b>	Forest mortality in high-elevation whitebark pine ( <i>Pinus albicaulis</i> ) forests of eastern California, USA; influence of environmental context, bark beetles, climatic water deficit, and warming
<b>Thomas G. Matney, Emily B. Schultz, and Michael K. Crosby</b>	<b>766–771</b>	A difference equation approach to developing tree profile equations
<b>Manuella Strukelj, Suzanne Brais, Sylvie A. Quideau, and Se-Woung Oh</b>	<b>772–788</b>	Chemical transformations of deadwood and foliar litter of mixed boreal species during decomposition
	REVIEW	SYNTHESE
<b>Huiquan Bi, Julian C. Fox, Yun Li, Yuancai Lei, and Yong Pang</b>	<b>789–806</b>	Evaluation of nonlinear equations for predicting diameter from tree height
	NOTES	NOTES
<b>Amandeep Bal, Richa Anand, Odile Berge, and Christopher P. Chanway</b>	<b>807–813</b>	Isolation and identification of diazotrophic bacteria from internal tissues of <i>Pinus contorta</i> and <i>Thuja plicata</i>
<b>Gregory C. Wiles, Colin R. Mennett, Stephanie K. Jarvis, Rosanne D. D'Arrigo, Nicholas Wiesenbergs, and Daniel. E. Lawson</b>	<b>814–819</b>	Tree-ring investigations into changing climatic responses of yellow-cedar, Glacier Bay, Alaska