

Ontario Forest Research Institute Publication List 2007

Forest Research and Development Section • Applied Research and Development Branch • Ontario Ministry of Natural Resources

Listed below are publications authored or co-authored by OFRI staff in 2007, sorted by general subject area. Unless otherwise noted, these publications are available in English only from the address listed below. Please specify whether you prefer to receive paper or PDF versions.

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Climate Change

Climate change projections for Ontario: Practical information for policymakers and planners. Colombo, S.J., D.W. McKenney, K.M. Lawrence and P.A. Gray. Ont. Min. Nat. Resour., Appl. Res. Devel. Br., Sault Ste. Marie, ON. Climate Change Res. Rep. CCRR-05. 37 p. + CD-ROM.

Carbon storage in Ontario's forests, 2000-2100. Colombo, S.J., J. Chen and M.T. Ter-Mikaelian. Ont. Min. Nat. Resour., Appl. Res. Devel. Br., Sault Ste. Marie, ON. Climate Change Res. Note CCRN-06. 8 p.

Forest Growth and Yield/Modelling

Stand density management diagram for jack pine stands in eastern Canada. Sharma, M. and S.Y. Zhang. North. J. Appl. For. 24(1): 22-29.

Height-diameter equations for boreal tree species in Ontario using a mixed-effects modeling approach. M. Sharma and J. Parton. For. Ecol. Manage. 249(3): 187-198.

Validating tree species composition in forest resource inventory for Nipissing Forest, Ontario, Canada. Pinto, F., D. Rouillard, J.-M. Sobze and M. Ter-Mikaelian. For. Chron. 83(2): 247-251.

A method to validate stand attributes in a forest resource inventory: Case study in Nipissing Forest, Ontario. Pinto, F., M. Ter-Mikaelian J.-M. Sobze and D. Rouillard. Ont. Min. Nat. Resour., Ont. For. Res. Inst., Sault Ste. Marie, ON. For. Res. Rep. No. 166. 10 p. + append.

Complex stand structures and associated dynamics: Measurement indices and modelling approaches. Popular summaries. Newton, P.F. and V.M. LeMay

(cochairs). Ont. Min. Nat. Resour., Ont. For. Res. Inst., Sault Ste. Marie, ON. For. Res. Inf. Pap. No. 167. 117 p.

Modelling height-diameter relationship for tree species grown in mixed stands. Sharma, M. Pp. 83-84 in Newton, P.F. and V.M. LeMay (cochairs). Complex stand structures and associated dynamics: Measurement indices and modelling approaches. Popular summaries. Ont. Min. Nat. Resour., Ont. For. Res. Inst., Sault Ste. Marie, ON. For. Res. Inf. Pap. No. 167. 117 p.

Defining stem profile model for wood valuation of red pine in Ontario and Michigan with consideration of stand density influence on tree taper. Zakrzewski, W.T., M. Penner and D.W. MacFarlane. Pp. 281-290 in 2005 Proceedings of the Seventh Annual Forest Inventory and Analysis Symposium. 3-6 Oct 2005. Portland, ME. USDA For. Serv., Washington, DC. Gen. Tech. Rep. WO-77. 319 p.

Scaling taper relationships from miniature-scale to operational-scale stands of loblolly pine. Sharma, M., H.E. Burkhart and R.L. Amateis. For. Sci. 53(5): 611-617.

Forest Landscape Ecology

A review of published knowledge on post-fire residuals relevant to Ontario's policy directions for emulating natural disturbance. Perera, A.J., L.J. Buse and R.G. Routledge. Ont. Min. Nat. Resour., Ont. For. Res. Inst., For. Res. Inf. Pap. No. 168. 37 p. + append.

Sampling methodology for studying boreal post-fire residual stand structure with high resolution aerial photography and field plots. Routledge, R.G. Ont. Min. Nat. Resour., Ont. For. Res. Inst., For. Res. Inf. Pap. No. 169. 37 p. + append.

Forest Management and Ecology – Boreal

Seasonal susceptibility of boreal plants: Red raspberry phenology as a bioindicator of optimum within-season timing of glyphosate applications. Bell, F.W. and D.G. Pitt. For Chron. 83(5): 733-741.

Long-term effects of intensive silvicultural practices on productivity, composition, and structure of northern temperate and boreal plantations in Ontario, Canada. Fu, S., F.W. Bell and H.Y.H. Chen. For. Ecol. Manage. 241(1): 115-126.

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Do tree-level monocultures develop following Canadian boreal silviculture? Tree-level diversity tested using a new method. Dampier, J.E.E., N. Luckai, F.W. Bell and W.D. Towill. *Biodiv. Conserv.* 16: 2933-2948.

Stand structure attributes of a partial harvested boreal mixedwood stand. Kayahara, G.J., R. Man and J.A. Rice. Pp. 68-69 in Newton, P.F. and V.M. LeMay (cochairs). *Complex stand structures and associated dynamics: Measurement indices and modelling approaches. Popular summaries.* Ont. Min. Nat. Resour., Ont. For. Res. Inst., Sault Ste. Marie, ON. For. Res. Inf. Pap. No. 167. 117 p.

Forest Management and Ecology – Great Lakes-St. Lawrence

Effects of forest floor disturbances by mechanical site preparation on floristic diversity in a central Ontario clearcut. Newmaster, S.G., W.C. Parker, F.W. Bell and J.M. Paterson. *For. Ecol. Manage.* 246(2-3): 196-207.

Management of white pine ecosystems in Ontario: From exploitative to adaptive. Bell, F.W. *Can. Silv. Mag.* Feb 2007: 10-13.

Genetics

Cold hardiness of interspecific hybrids between *Pinus strobus* and *P. wallichiana* measured by post-freezing electrolyte leakage. Lu, P., S.J. Colombo and R.W. Sinclair. *Tree Physiol.* 27: 243-250.

Breeding white pine for resistance to blister rust: Eastern white pine (*Pinus strobus* L.) and interspecific hybridization. Genetics Research Program. Ont. Min. Nat. Resour., Ont. For. Res. Inst., Sault Ste. Marie, ON. Brochure (also available in French)

Soils and Hydrology

Forest Soil and Water Research Program Five-Year Research Strategy 2006-2011. McLaughlin, J.W. Ont. Min. Nat. Resour., Ont. For. Res. Inst., Sault Ste. Marie, ON. For. Res. Inf. Pap. No. 166. 30 p. + append.

Newsletters

Insights. Obenchain, A.M. (ed.). Ont. Min. Nat. Resour., Ont. For. Res. Inst., Sault Ste. Marie, ON. Newsletter. 8(1): 20.

Non-timber forest products

Bioproducts from Ontario's forest: Sustainable harvest of Canada yew – research project. Noland, T.L. *The Professional Forester* June 2007. 186: 9.

Miscellaneous

Ontario's forest science research and extension efforts after the 1998 ice storm. Lautenschlager, R.A. and C. Nielsen. *J. For.* 105(1): 34-42.