

# Ontario Forest Research Institute Interim Publication List 2009

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

Listed below are publications authored or co-authored by OFRI staff in 2009, sorted by general subject area. Unless otherwise noted, these publications are available in English only from the address listed below.

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October 2009

## Climate change

**Climate change and Canada's forests: From impacts to adaptation.** Williamson, T.B., S.J. Colombo, P.N. Duinker, P.A. Gray, R.J. Hennessey, D. Houle, M.H. Johnston, A.E. Ogden and D.L. Spittlehouse. Nat. Resour. Can., Can. For. Serv., Northern For. Res. Centre, Edmonton, AB; Sustain. For. Manage. Network, Univ. Alberta, Edmonton, AB. 112 p. (*electronic only; download from [http://bookstore.cfs.nrcan.gc.ca/detail\\_e.php?recid=1589030](http://bookstore.cfs.nrcan.gc.ca/detail_e.php?recid=1589030)*)

**Forecasting carbon storage and carbon offsets for southern Ontario afforestation projects: The 50 million tree planting program.** Parker, W.C., G. Nielsen, J. Gleeson and R. Keen. Ont. Min. Nat. Resour., Appl. Res. Devel. Br., Sault Ste. Marie, ON. Climate Change Res. Rep. CCRN-10. 8 p.

**Carbon offsets from afforestation and the potential for landowner participation in Ontario.** Gleeson, J., G. Nielsen and W.C. Parker. Ont. Min. Nat. Resour., Appl. Res. Devel. Br., Sault Ste. Marie, ON. Climate Change Res. Rep. CCRN-09. 4 p.

**The role of planted forests in climate action.** Parker, B. Silv. Mag. Summer 2009. pp. 8-11.

## Forest Genetics

**Breeding eastern white pine for blister rust resistance: A review of progress in Ontario.** Lu, P. and D. Derbowka. For. Chron. 85(5): 745-755.

## Forest Landscape Ecology

**Spatial variability of stand-scale residuals in Ontario's boreal forest fires.** Perera, A.H., B.D. Dalziel, L.J. Buse and R. Routledge. Can. J. For. Res. 39: 945-961.

**Tree mortality following boreal forest fires reveals scale-dependant interactions between community structure and fire intensity.** Dalziel, B.D. and A.H. Perera. Ecosystems 12: 973-981.

**Emulating natural disturbances as a forest management goal: Lessons from fire regime simulations.** Perera, A.H. and W. Cui. For. Ecol. Manage. doi:10.1016/j.foreco.2009.03.018.

**An assessment of residual patches in boreal fires in relation to Ontario's policy directions for emulating natural disturbance.** Perera, A.H., T.K. Remmel, L.J. Buse and M.R. Ouellette. Ont. Min. Nat. Resour., Ont. For. Res. Inst., Sault Ste. Marie, ON. For. Res. Rep. No. 169. 65 p. + append.

**Size class distribution and spatial proximity of fires in a simulated boreal forest fire regime in relation to Ontario's policy directions for emulating natural disturbance.** Perera, A.H., W. Cui and M.R. Ouellette. Ont. Min. Nat. Resour., Ont. For. Res. Inst., Sault Ste. Marie, ON. For. Res. Rep. No. 170. 29 p.

**Using BFOLDS to characterize fire regimes: A case study from a boreal forest landscape.** Cui, W., M.R. Ouellette, A.H. Perera and M. Gluck. Ont. Min. Nat. Resour., Ont. For. Res. Inst., Sault Ste. Marie, ON. For. Res. Rep. No. 173. 41 p.

## Forest Management and Ecology – Boreal

**Estimating natural forest fire return interval in northeastern Ontario, Canada.** Ter-Mikaelian, M.T., S.J. Colombo and J. Chen. For. Ecol. Manage. 258: 2037-2045.

**Long-term response of planted conifers, natural regeneration, and vegetation to harvesting, scalping, and weeding on a boreal mixedwood site.** Man, R., J.A. Rice and G.B. MacDonald. For. Ecol. Manage. 258: 1225-1234.

**Spatial and temporal patterns of *Populus tremuloïdes* regeneration in small openings in northern Ontario.** Groot, A., R. Man and J. Wood. For. Chron. 85(4): 548-557.

**A case of severe frost damage prior to budbreak in young conifers in northeastern Ontario: Consequence of climate change?** Man, R., G.J. Kayahara, Q. Dang and J. Rice. For. Chron. 85(3): 453-462.

**Temporal dynamics of large woody debris in small streams of the Alberta foothills, Canada.** Powell, S.R., L.D. Daniels and T.A. Jones. Can. J. For. Res. 39(6): 1159-1170.

**Mitigating the effects of insect outbreaks for sustainable forest management.** Doblaz-Miranda, E., D. Kneeshaw, P. Burton, B. Cooke, M.-J. Fortin, D. MacLean, R. Man, M. Papaik and B. Sturtevant. Sustainable Forest Management Network, Edmonton. AB. Sust.For. Manage. Netw. Res. Note Ser. No. 48. 6 p.

## ***Forest Management and Ecology – Great Lakes-St. Lawrence***

**Influence of woody and herbaceous competition on microclimate and growth of eastern white pine (*Pinus strobus* L.) seedlings planted in a central Ontario clearcut.** Parker, W.C., D.G. Pitt, A.E. Morneau. For. Ecol. Manage. 258: 2013-2025.

**The effects of herbaceous and woody competition on planted white pine in a clearcut site.** Pitt, D.G., A. Morneau, W.C. Parker, A. Stinson, and L. Lenteigne. For. Ecol. Manage. 257: 1281-1291.

**Canopy tree growth response following selection harvest in seven species varying in shade tolerance.** Jones, T.A., G.M. Domke and S. Thomas. Can. J. For. Res. 39: 430-440.

**Spatial modelling of photosynthesis for a boreal mixedwood forest by integrating micrometeorological, lidar, and hyperspectral remote sensing data.** Thomas, V., J.H. McCaughey, P. Treitz, D.A. Finch, T. Noland and L. Rich. Agric. For. Meteorol. 149(3-4): 639-654.

## ***Growth and Yield/Modelling***

**Modeling stand density effects on taper for jack pine and black spruce plantations using dimensional analysis.** Sharma, M. and J. Parton. For. Sci. 55(3): 268-282.

## ***Soils/Hydrology***

**Boreal mixedwood watershed riparian zone cation cycling during contrasting climatic years.** McLaughlin, J. Soil Sci. Soc. Am. J. 73(4): 1408-1418.

**Comparison of the performance of statistical models that predict soil respiration from forests.** Webster, K.L., I.F. Creed, M.D. Skowronski, and Y.H. Kaheil. Soil Sci. Soc. Am. J. 73(4): 1157-1167.