

SECTION 2: SELECTED PUBLICATIONS FROM SFM NETWORK-FUNDED RESEARCH

CONTENTS OF THIS SECTION:

- SFM Network publications;
 - Refereed journal articles; and
 - Graduate theses
- published between 1 April 2003 and 31 March 2004

Publications may be listed under more than one subject

SFM NETWORK PUBLICATIONS

Nelson H, Vertinsky I.

The Kyoto Protocol and climate change mitigation: implications for Canada's forest industry.
December 2003. *Research Communications 2003*.

Zhou X, Peng C, Dang Q-L, Chen J, Parton S.

Quantifying temporal and spatial variations of carbon stocks and fluxes at Lake Abitibi Model Forest in Ontario, Canada.

March 2004. *Project Reports 2003/2004*.

REFEREED JOURNAL ARTICLES

van Kooten GC.

Smoke and mirrors: the Kyoto Protocol and beyond.

Canadian Public Policy/Analyse de Politiques 2003 December; 29(4): 397-415.

**Selected Publications from SFM Network-Funded Research
Published between 1 April 2003 and 31 March 2004**

Ecological Criteria and Indicators

SFM NETWORK PUBLICATIONS

Bayne E, Boutin S, Moses R.

Are boreal forest mammals good indicators of cumulative effects?

March 2004. *Project Reports 2003/2004*.

Fryxell J, Thompson I, Nudds T, Baker J.

Population ecology of marten (*Martes americana*) in the boreal forests of northern Ontario.

March 2004. *Project Reports 2003/2004*.

Gignac LD, Dale MRT.

The effect of fragment size and habitat heterogeneity on plant diversity: a multiscale study in the subhumid low-boreal forest.

October 2003. *Project Reports 2003/2004*.

Hannon S.

Land use intensity and forest cover change: effects on the community composition of birds in the boreal forest.

October 2003. *Project Reports 2003/2004*.

Innes J.

BorNet Canada: final report.

August 2003. *Project Reports 2003/2004*.

Kachmar M, Sánchez-Azofeifa GA.

Detection and analysis of post forest fire residuals using medium and high resolution satellite imagery.

January 2004. *Project Reports 2003/2004*.

Kant S, Lee S, Kijazi M, Shuter J, Zhang Y.

Forest values, perceptions, criteria and indicators, and sustainable forest management in Ontario.

October 2003. *Project Reports 2003/2004*.

Kijazi M, Kant S.

Conformance of Ontario's Forest Management Planning Manual to criteria and indicators of sustainable forest management.

September 2003. *Research Communications 2003*.

Kurulok S, Macdonald E.

Impacts of post-fire salvage logging on tree regeneration and plant communities in the mixedwood boreal forest of Alberta.

February 2004. *Project Reports 2003/2004*.

Macdonald E, Mourelle C.

Effects of thinning and understory retention harvest on forest structure and understory plant communities.

March 2004. *Project Reports 2003/2004*.

MacLean DA, Higdon JW, Hemens B, Etheridge DA, Hagan JM, Reed JM, Wagner RG, Porter KB.

Patterns of natural and human-caused forest disturbance in northwestern New Brunswick and assessment of risk of extirpation of vertebrate species.

October 2003. *Project Reports 2003/2004*.

Munson AD, Darveau M, Bouthillier L, et al.

Indicateurs de la gestion durable des forêts : développement d'un processus de mise en œuvre dans une étude de certification dans la région de la Mauricie, Québec.

January 2004. *Project Reports 2003/2004*.

Nielsen B, Beck J Jr.

A study to determine the effects of thinning on songbird habitat and use in fire regenerated lodgepole pine stands.

November 2003. *Project Reports 2003/2004*.

Savage D, Thompson I, Baker J, Runesson U.

An evaluation of furbearer harvest statistics and breeding bird atlas data to assess the effects of forest management at large landscape scales in Ontario.

October 2003. *Project Reports 2003/2004*.

Schmiegelow FKA, Cumming SG.

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March 2004. *Project Reports 2003/2004*.

Simpson C, Reid M.

Consequences of stand thinning for bark beetles: direct and indirect effects.
January 2004. *Project Reports 2003/2004*.

Sullivan TP, Sullivan DS, Lindgren PMF, Ransome DB.

Old-growth attributes in intensively managed forests: integration of stand productivity with mammal diversity.
October 2003. *Project Reports 2003/2004*.

Vernier PR, Bunnell FL, Schmiegelow FKA, Cumming SG, Walters CJ.

Spatial and temporal validation of habitat models in the boreal mixedwood.
August 2003. *Project Reports 2003/2004*.

Villard M-A.

Identification of ecological thresholds in harvesting intensity using avian indicators.
October 2003. *Project Reports 2003/2004*.

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Bélanger N, Paré D, Yamasaki SH.

The soil acid-base status of boreal black spruce stands after whole-tree and stem-only harvesting.
Canadian Journal of Forest Research/Revue canadienne de recherche forestière 2003 October; 33(10): 1874-1879.

Boulet M, Darveau M, Bélanger L.

Nest predation and breeding activity of songbirds in riparian and nonriparian black spruce strips of central Quebec.
Canadian Journal of Forest Research/Revue canadienne de recherche forestière 2003 May; 33(5): 922-930.

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Testing forest ecosystem management in boreal mixedwoods of northwestern Quebec: initial response of aspen stands to different levels of harvesting.
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Bunnell FL, Dunsworth BG.

Making adaptive management for biodiversity work: the example of Weyerhaeuser in coastal British Columbia.
The Forestry Chronicle 2004 January/February; 80(1): 37-43.

Cooke BJ, Roland J.

The effect of winter temperature on forest tent caterpillar (Lepidoptera: Lasiocampidae) egg survival and population dynamics in northern climates.
Environmental Entomology 2003 April; 32(2): 299-311.

Drapeau P, Leduc A, Bergeron Y, Gauthier S, Savard J-P.

Les communautés d'oiseaux des vieilles forêts de la pessière à mousses de la ceinture d'argile : problèmes et solutions face à l'aménagement forestier.
The Forestry Chronicle 2003 May/June; 79(3): 531-540.

Frey BR, Lieffers VJ, Munson AD, Blenis PV.

The influence of partial harvesting and forest floor disturbance on nutrient availability and understory vegetation in boreal mixedwoods.
Canadian Journal of Forest Research/Revue canadienne de recherche forestière 2003 July; 33(7): 1180-1188.

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Range of variability in boreal aspen plant communities after wildfire and clear-cutting.
Canadian Journal of Forest Research/Revue canadienne de recherche forestière 2004 February; 34(2): 274-288.

Ecological Criteria and Indicators

Hunt SL, Gordon AM, Morris DM, Marek GT.

Understory vegetation in northern Ontario jack pine and black spruce plantations: 20-year successional changes.

Canadian Journal of Forest Research/Revue canadienne de recherche forestière 2003 September; 33(9): 1791-1803.

Jardon Y, Morin H, Dutilleul P.

Périodicité et synchronisme des épidémies de la tordeuse des bourgeons de l'épinette au Québec.

Canadian Journal of Forest Research/Revue canadienne de recherche forestière 2003 October; 33(10): 1947-1961.

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Biotic and abiotic factors affecting ectomycorrhizal diversity in boreal mixed-woods.

Oikos 2003 September; 102(3): 497-504.

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Old growth in the boreal forest: a dynamic perspective at the stand and landscape level.

Environmental Reviews/Dossiers environnement 2003; 11(Supplement S1): S99-S114.

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Indicators to assess biological diversity: Weyerhaeuser's coastal British Columbia forest project.

The Forestry Chronicle 2003 May/June; 79(3): 590-601.

Lamb EG, Mallik AU.

Plant species traits across a riparian-zone/forest ecotone.

Journal of Vegetation Science 2003 December; 14(6): 853-858.

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Nest sites and nest webs for cavity-nesting communities in interior British Columbia, Canada: nest characteristics and niche partitioning.

The Condor 2004 February; 106(1): 5-19.

Melles S, Glenn S, Martin K.

Urban bird diversity and landscape complexity: species-environment associations along a multiscale habitat gradient.

Conservation Ecology 2003 June; 7(1): Article 5 [Internet; cited 2004 September 10].

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Snag use by foraging Black-backed Woodpeckers (*Picoides arcticus*) in a recently burned eastern boreal forest.

The Auk 2003 April; 120(2): 505-511.

Schmidt BC, Roland J.

Developing techniques for monitoring forest tent caterpillar populations using synthetic pheromones.

The Canadian Entomologist 2003 May/June; 135(3): 439-448.

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Relations among larval tailed frogs, forest harvesting, stream microhabitat, and site parameters in southwestern British Columbia.

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Wells RW, Bunnell FL, Haag D, Sutherland G.

Evaluating ecological representation within differing planning objectives for the central coast of British Columbia.

Canadian Journal of Forest Research/Revue canadienne de recherche forestière 2003 November; 33(11): 2141-2150.

Whitson IR, Chanasyk DS, Prepas EE.

Hydraulic properties of orthic gray luvisolic soils and impact of winter logging.

Journal of Environmental Engineering and Science/Revue du génie et de la science de l'environnement 2003; 2(Supplement S1): S41-S49.

Work TT, Spence JR, Volney WJA, Morgantini LE, Innes JL.

Integrating biodiversity and forestry practices in western Canada.

The Forestry Chronicle 2003 September/October; 79(5): 906-916.

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Ancelin RP.

Evaluation of a spatially explicit habitat suitability model applied in west-central Alberta for the least flycatcher [Master's thesis].

2003. Halifax, Nova Scotia: Dalhousie University.

Bone S.

Evaluation of a spatial habitat suitability index model for varied thrush in west-central Alberta [Master's thesis].

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Owl responses to habitat change at the landscape and regional scale and effects of weather in east central Alberta [Master's thesis].

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2003. Moncton, Nouveau-Brunswick: Université de Moncton.

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Patterns of ecosystem development in jack pine (*Pinus banksiana* Lamb.) and black spruce (*Picea mariana* [Mill.] B.S.P.) plantations in northern Ontario, Canada [PhD thesis].

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Savage DW.

The effects of forest management, weather, and landscape pattern on furbearer harvests at large-scales [Master's thesis].

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Seto M.

Qualité de l'eau des ruisseaux et des lacs suite à la coupe et après 25 ans en Haute-Mauricie (Québec) [Master's thesis].

2003. Québec, Québec: Université Laval.

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Ecological consequences of forest thinning for bark beetles (Coleoptera: Scolytidae): direct and indirect effects [Master's thesis].

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Toms JD.

Spatial scale and temporal variability of songbird population dynamics in the boreal mixedwood forests of northern Alberta [Master's thesis].

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Vizcayno Soto G.

Development of a method to determine tree species nutritional standards from natural variation in tree growth and leaf chemistry [Master's thesis].

2003. Montréal, Québec: McGill University.

Young JE.

Land-use and land-cover change in a highly fragmented boreal forest: the Beaverhills Case Study [Master's thesis].

2003. Edmonton, Alberta: University of Alberta.

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March 2004. *Project Reports 2003/2004*.

MacLean DA, Higdon JW, Hemens B, Etheridge DA, Hagan JM, Reed JM, Wagner RG, Porter KB.
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Old-growth attributes in intensively managed forests: integration of stand productivity with mammal diversity.

October 2003. *Project Reports 2003/2004*.

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Identification of ecological thresholds in harvesting intensity using avian indicators.

October 2003. *Project Reports 2003/2004*.

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Gonzales EK, Arcese P, Schulz R, Bunnell FL.

Strategic reserve design in the central coast of British Columbia: integrating ecological and industrial goals.

Canadian Journal of Forest Research/Revue canadienne de recherche forestière 2003 November; 33(11): 2129-2140.

Krcmar E, Vertinsky I, van Kooten GC.

Modeling alternative zoning strategies in forest management.

International Transactions in Operational Research 2003 September; 10(5): 483-498.

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Modeling spatial and temporal economic activity in forested landscapes.
October 2003. *Project Reports 2003/2004.*

Girardin M-P, Tardif J.
Sensitivity of tree growth to the atmospheric vertical profile in the Boreal Plains of Manitoba.
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Martell DL, Hirsch K, Malcolm J, McAlpine R, Weintraub A, Acuna M, Cui W, Espinoza A, Johnson J, Palma C.
A FireSmart approach to integrated fire and forest management in the boreal forest region of Canada.
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October 2003. *Project Reports 2003/2004.*

Schmiegelow FKA, Cumming SG, Lessard R.
Landscape issues in sustainable forest management: wildlife modeling, landscape simulation and model-based sampling.
March 2004. *Project Reports 2003/2004.*

Tardif J.
Fire history in the Duck Mountain Provincial Forest, western Manitoba.
March 2004. *Project Reports 2003/2004.*

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Identification of ecological thresholds in harvesting intensity using avian indicators.
October 2003. *Project Reports 2003/2004.*

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Armstrong GW, Adamowicz WL, Beck JA Jr, Cumming SG, Schmiegelow FKA.
Coarse filter ecosystem management in a nonequilibrating forest.
Forest Science 2003 April; 49(2): 209-223.

Armstrong GW, Cumming SG.
Estimating the cost of land base changes due to wildfire using shadow prices.
Forest Science 2003 October; 49(5): 719-730.

Bunnell FL, Dunsworth BG.
Making adaptive management for biodiversity work: the example of Weyerhaeuser in coastal British Columbia.
The Forestry Chronicle 2004 January/February; 80(1): 37-43.

Coates KD, Canham CD, Beaudet M, Sachs DL, Messier C.
Use of a spatially explicit individual-tree model (SORTIE/BC) to explore the implications of patchiness in structurally complex forests.
Forest Ecology and Management 2003 December 5; 186(1-3): 297-310.

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Integrating edge detection and dynamic modeling in quantitative analyses of ecological boundaries.
BioScience 2003 August; 53(8): 730-738.

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Consequences of various landscape-scale ecosystem management strategies and fire cycles on age-class structure and harvest in boreal forests.

Canadian Journal of Forest Research/Revue canadienne de recherche forestière 2004 February; 34(2): 310-322.

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Rempel RS, Kaufmann CK.
Spatial modeling of harvest constraints on wood supply versus wildlife habitat objectives.

Environmental Management 2003 September; 32(3): 334-347.

Sauchyn DJ, Stroich J, Beriault A.
A paleoclimatic context for the drought of 1999-2001 in the northern Great Plains of North America.

The Geographical Journal 2003 June; 169(2): 158-167.

Schneider RR, Stelfox JB, Boutin S, Wasel S.
Managing the cumulative impacts of land uses in the Western Canadian Sedimentary Basin: a modeling approach.

Conservation Ecology 2003 June; 7(1): Article 8 [Internet; cited 2004 September 10].

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The development and application of a decision support system for sustainable forest management on the Boreal Plain.

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Integrating biodiversity and forestry practices in western Canada.

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2003. Halifax, Nova Scotia: Dalhousie University.

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Evaluation of a spatial habitat suitability index model for varied thrush in west-central Alberta [Master's thesis].

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The effects of salvage logging on timber supply and wildlife habitat [Master's thesis].

2004. Edmonton, Alberta: University of Alberta.

MacKendrick NA.
Opportunities and constraints on voluntary environmental strategies: a comparative case study of integrated resource management in Alberta, Canada [Master's thesis].

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Public participation and the Fundy Model Forest: reconciling activities and experiences with government and certification requirements [Master's thesis].

2003. Halifax, Nova Scotia: Dalhousie University.

Sanchez-Guisandez MA.

FireSmart management of flammable Wildland Urban Interface landscapes [Master's thesis].

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Bergeron Y.

Developing forest management strategies based on fire regimes in northwestern Quebec, Canada.
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Boucher D, De Grandpré L, Gauthier S.

Development of a statistical tool for classifying stand structure and comparison of two territories in the black spruce-moss forest region of Québec.
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Climate and fire relationships in the central and eastern Canadian boreal forest.
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Sensitivity of tree growth to the atmospheric vertical profile in the Boreal Plains of Manitoba.
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Effects of fire, logging and settlement on the boreal forest landscape in Ontario.
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Kenkel N, Foster C, Caners R, Lastra R, Walker D.

Spatial and temporal patterns of white spruce recruitment in two boreal mixedwood stands, Duck Mountains, Manitoba.
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Morin H, Levasseur V, Jardon Y, Parent S, Deslauriers A, Park Y-I, Desjardins O, Fantin N, Simard I, Simard S.
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D'Aoust V, Kneeshaw D, Bergeron Y.

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Girardin M-P, Tardif J, Flannigan MD, Wotton BM, Bergeron Y.

Trends and periodicities in the Canadian Drought Code and their relationships with atmospheric circulation for the southern Canadian boreal forest.

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Haeussler S, Bergeron Y.

Range of variability in boreal aspen plant communities after wildfire and clear-cutting.

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Structure, composition, and diversity of old-growth black spruce boreal forest of the Clay Belt region in Quebec and Ontario.

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Forest structure and composition at young fire and cut edges in black spruce boreal forest.

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Hély C, Flannigan M, Bergeron Y.

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