

CURRICULUM VITAE

Michael R. Saunders

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EDUCATION:

Ph.D. 2006 Forest Resources, Department of Forest Ecosystem Sciences, University of Maine, Orono.
M.S. 1998 Forestry/Wildlife Conservation, College of Natural Resources, University of Minnesota, St. Paul.
B.S. 1994 Forestry, Department of Forestry, Iowa State University, Ames.
B.S. 1994 Fisheries and Wildlife Biology, Department of Animal Ecology, Iowa State University, Ames.

PROFESSIONAL EXPERIENCE:

2007 – present Assistant Professor of Silviculture, FNR, Purdue University, West Lafayette, IN.
2006 – 2007 Forest Biometrician, Cooperative Forest Research Unit, University of Maine, Orono, ME.
2000 – 2005 Research Assistant, Dept. of Forest Ecosystem Sciences, University of Maine, Orono, ME.
2002 Silviculture Instructor, Dept. of Forest Ecosystem Sciences, University of Maine, Orono, ME.
1998 – 2000 Research Fellow, Dept. of Forest Resources, University of Minnesota, St. Paul, MN.
1996 – 1998 Research Assistant, Dept. of Forest Resources, University of Minnesota, St. Paul, MN.

HONORS:

SOCIETY OF AMERICAN FORESTERS:

Minnesota Society --Young Forester Leadership Award 2000
Minnesota Society --Young Forester Leadership Award 1999

UNIVERSITY OF MAINE:

Faculty Associate 2007 - present
Graduate Faculty 2006 - present
Dow-Griffiee Graduate Student Award 2002
Ralph H. Griffin Memorial Scholarship 2001
University Graduate Research Award 2001

UNIVERSITY OF MINNESOTA:

Graduate School Fellowship 1995

IOWA STATE UNIVERSITY:

Graduating Scholar (Senior Scholarship Award for Highest G.P.A.)—College of Agriculture 1994

TEACHING:

2007 – present Instructor, FNR 339: Principles of Silviculture, Purdue University.
2003 Instructor, FES 408: Silviculture, University of Maine.
2003 Co-Instructor (w/Alan White), FES 409: Forest Ecology/Silviculture Lab, University of Maine.
2002 Teaching Assistant (w/William Livingston), FES 100: Forest Biology, University of Maine.
2002 Teaching Assistant (w/Robert Seymour & Alan White), FES 409: Forest Ecology/Silviculture Lab, University of Maine.
1995 – 1997 Teaching Assistant (w/Klaus Puettmann), FR 5100: Silviculture, University of Minnesota.

GRANTMANSHIP:*Successful*

Productivity and financial viability of natural disturbance-based management in the Acadian Forest, **M.R. Saunders**, R.S. Seymour, R.G. Wagner, and D.F. Jacobs, Northern States Research Cooperative—Theme 1, \$53,095 for FY2008-2009.

Influence of silvicultural intensity and composition objectives on the productivity of regenerating forest stands in Maine. R.G. Wagner, J.C. Brissette, R. Dionne, and **M.R. Saunders**. USDA Agenda 2020 Program, \$113,056 for FY2003-2005.

Application of density management diagrams to forest health: an integrated approach to reducing adverse impacts of forest insects. S. Seybold, K. Puettmann, **M.R. Saunders**, and S. Katovich. USDA Forest Service Special Technology Development Program, \$78,025 for FY2000-2002.

Unsuccessful

Physiological regulation of productivity in young stands managed with varying degrees of silvicultural intensity: developing a holistic approach to understanding factors limiting productivity, M.E. Day, R.G. Wagner, **M.R. Saunders** and M.S. Greenwood, Northern States Research Cooperative—Theme 3, \$68,228 for FY2008-2009.

Effects of natural disturbance-based management on spatial and temporal patterns of understory plant diversity, **M.R. Saunders**, R.G. Wagner, M.L. Hunter, Jr., and M.G. Olson, Northern States Research Cooperative—Theme 1, \$104,342 for FY2008-2010.

Integrating spatially explicit models into long-term forest ecosystem studies for predicting sub-stand environmental heterogeneity. **M.R. Saunders**, R.G. Wagner, M.L. Hunter, Jr., and M.G. Olson. NSF LTREB Program, \$412,727 for FY2007-2011.

Influence of silvicultural intensity and species composition objectives on resource use efficiency and productivity of northeastern forest stands. R.G. Wagner, M.E. Day, **M.R. Saunders**, and M.G. Olson. Northern States Research Cooperative—Theme 3, \$84,728 for FY2006-2007.

Financial viability of ecological forest management in the Acadian Forest: an exploratory analysis of gap-based silviculture in the AFERP study. R.S. Seymour, **M.R. Saunders**, and R.G. Wagner. Northern States Research Cooperative—Theme 3, \$60,985 for FY2006-2007.

Influence of silvicultural intensity and species composition objectives on resource use efficiency and productivity of northeastern forest stands. R.G. Wagner, M.E. Day, M.S. Greenwood, and **M.R. Saunders**. USDA Agenda 2020 Sustainable Forest Productivity, \$133,691 for FY2006-2008.

A landscape approach to providing specific habitats in managed forests: deer wintering areas in Maine. J.S. Wilson, F.A. Servello, R.G. Wagner, and **M.R. Saunders**. USDA-NRI, \$447,878 for FY2004-2007.

PUBLICATIONS:*Refereed*

Saunders, M.R. and R.G. Wagner. In review. Allometric relationships for tree species of central Maine: Height-diameter models with random coefficients and site variables. *Annals of Forest Science*.

Saunders, M.R. and R.G. Wagner. In press. Spatial reconstruction and structural dynamics of Acadian mixedwood stands treated with various silvicultural and cutting methods. *Canadian Journal of Forest Research*.

Saunders, M.R. and R.G. Wagner. In revision. Use of common forest inventory plots for spatial point pattern analysis. *Forest Science*.

Saunders, M.R., and Wagner, R.G. 2005. Ten-year results of the Forest Ecosystem Research Program (FERP) – successes and challenges. *In*: Peterson, C.E., and Maguire, D.A., eds. Balancing ecosystem values: innovative experiments for sustainable forestry. Gen. Tech. Rep. PNW-GTR-635. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, OR.

Puettmann, K.J., and **Saunders, M.R.** 2001. Patterns of growth compensation in eastern white pine (*Pinus strobus* L.): the influence of herbivory intensity and competitive environments. *Oecologia* 129(2): 376-384.

Puettmann, K.J., and **Saunders, M.R.** 2000. Eastern white pine (*Pinus strobus*) growth response to partial hardwood overstory release. *Northern Journal of Applied Forestry* 17(3): 89-94.

Saunders, M.R., and Puettmann, K.J. 1999. Use of vegetational characteristics and browsing patterns to predict deer damage in eastern white pine (*Pinus strobus* L.) plantations. *Northern Journal of Applied Forestry* 16(2): 96-102.

Saunders, M.R., and Puettmann, K.J. 1999. Effects of overstory and understory competition and simulated herbivory on growth and survival of white pine seedlings. *Canadian Journal of Forest Research* 29(5): 536-546.