

Curriculum Vitae – Thomas R. Crow

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Educational Background:

Iowa State University, forestry, B.S., 1965
University of Michigan, forest biology, M.F., 1966
University of Minnesota, forest ecology, Ph.D., 1970

Positions:

November 2003 to present – National Program Leader, Ecological Research, Wildlife, Fish, Water, and Air Research, USDA Forest Service, Washington, D.C.

September 2000 to November 2003 – Chief Research Ecologist, USDA Forest Service, North Central Research Station, Grand Rapids, MN

September 1998 to September 2000 – Theodore Roosevelt Professor of Ecosystem Management, School of Natural Resources & Environment, University of Michigan (IPA position between USDA Forest Service and the University of Michigan)

1987 to September 1998 – Project Leader and Research Ecologist, Landscape Ecology Project, USDA Forest Service, North Central Forest Experiment Station, Rhinelander, WI

1982-1987 – Project Leader and Research Ecologist, Physiology and Ecology of Establishing Northern Forest Species, USDA Forest Service, North Central Forest Experiment Station, Rhinelander, WI

1977-1982 – Project Leader and Research Ecologist, Silviculture and Ecology of Northern Hardwoods, USDA Forest Service, North Central Forest Experiment Station, Marquette, MI

1974-1977 – Principal Plant Ecologist, USDA Forest Service, Institute of Tropical Forestry, Rio Piedras, Puerto Rico

1970-1974 – Plant Ecologist, USDA Forest Service, North Central Forest Experiment Station, Institute of Forest Genetics, Rhinelander, WI

1971-1972 – Visiting Scientist, International Biological Program, Eastern Deciduous Biome, Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge

Selected Publications:

He, H.S., B.Z. Shang, T.R. Crow, E.J. Gustafson, and S.R. Shifley. In press. Simulating forest fuel and fire risk dynamics across landscapes – LANDIS fuel module design. *Ecological Modelling*.

Scheller, R.M., D.J. Mladenoff, T.R. Crow, and T.A. Sickley. In press. Simulating the effects of fire reintroduction versus continued suppression on forest composition and landscape structure in the Boundary Waters Canoe Area, northern Minnesota (USA). *Ecosystems*.

Bragg, D.C., D.W. Roberts, T.R. Crow. 2004. A hierarchical approach for simulating northern forest dynamics. *Ecological Modelling* 173: 31-94.

Hura, C.E. and T. R. Crow. 2004. Woody debris as components of ecological diversity in thinned and unthinned northern hardwood forests. *Natural Areas Journal* 24: 57-64.

Buckley, D.S., T.R. Crow, E.A. Nauertz, and K.E. Schulz. 2003. Influence of skid trails and haul roads on understory plant richness and composition in managed forest landscapes in Upper Michigan, USA. *Forest Ecology and Management* 509-520.

Crow, T.R. 2002. Putting multiple use and sustained yield into a landscape context, p. 349-365. In: Liu, J. and W.W. Taylor, eds., *Integrating Landscape Ecology into Natural Resource Management*. Cambridge University Press..

Crow, T.R., D.S. Buckley, E.A. Nauertz, and J.C. Zasada. 2002. Effects of management on the composition and structure of northern hardwood forests in upper Michigan. *Forest Science* 48: 129-145.

Fisk, M.C., D.R. Zak, and T.R. Crow. 2002. Nitrogen storage and cycling in old- and second-growth northern hardwood forests. *Ecology* 83: 73-87.

Gustafson, E.J., M.L. Murphy, and T.R. Crow. 2001. Using a GIS model to assess terrestrial salamander response to alternative forest management plans. *J. Environmental Management* 63: 281-292.

Crow, T.R., M.E. Baker, and B.V. Barnes. 2000. Diversity in riparian landscapes, p. 43-66. In E.S. Verry, J.W. Hornbeck, and C.A. Dolloff, eds., *Riparian Management in Forests of the Continental Eastern United States*. Lewis Publishers, Boca Raton.

He, H.S., D.J. Mladenoff, and T.R. Crow. 1999. Linking an ecosystem model and a landscape model to study forest species response to climate warming. *Ecological Modelling* 114: 213-233.

Crow, T.R., G.E. Host, and D.J. Mladenoff. 1999. Ownership and ecosystem as sources of spatial heterogeneity in a forested landscape. *Landscape Ecology* 14: 449-463.

Brososke, K.D., J. Chen, T.R. Crow, and S.C. Saunders. 1999. Vegetation responses to landscape structure at multiple scales across a northern Wisconsin, USA, pine barrens landscape. *Plant Ecology* 143: 203-218.

He, H.S., D.J. Mladenoff, V.C. Radeloff, and T.R. Crow. 1998. Integration of GIS data and classified satellite imagery for regional forest assessment. *Ecological Applications* 8: 1072-1083.

Saunders, S.C., J. Chen, T.R. Crow, and K.D. Brososke. 1998. Hierarchical relationships between landscape structure and temperature in a managed forest landscape. *Landscape Ecology* 13: 381-395.

Selected Professional Activities:

Past president of the U.S. Section of the International Association of Landscape Ecology; Past chair of the SAF Working Party on Forest Ecology, and current chair of the IUFRO Working Party for Landscape Ecology; Member of the Committee on National Capacity in Forestry Research sponsored by the National Research Council, National Academy of Science; Science Leader of the Forest Productivity Integrated Program within the North Central Research Station; Associated Editor, *Forest Science*, 1999-2001.