

# APPENDIX VIII

Sources

## Appendix VIII Table of Contents

Strategic Framework.....	365
Habitat.....	365
Land Use.....	368
Energy.....	369

## Strategic Framework

Harris, H. J., R. B. Wenger, V A Harris, and D.S. DeVault (1994). "A method for assessing environmental risk: A case study of Green Bay, Lake Michigan." *J. Environmental Management* 18: 295–306

## Habitat

- Aadland, L. P. T. M. Koel, W.G. Franzin, K. W. Wtedward, and P. Nelson. 2005. Changes in fish assemblage structure of the Red River of the North. *American Fisheries Society Symposium* 45:293-321.
- Abraham, J. 2008. Forecast: warmer waters. How will Minnesota fish, anglers and fisheries managers adapt to warmer lakes and streams? *Minnesota Conservation Volunteer* May-June 2008: 17-23.
- Anderson, M. G., R. B. Fowler, and J. W. Nelson. 1995. Northern grassland conservation and the Prairie Joint Ventures. *Transactions of the North American Wildlife and Natural Resources Conference* 60:404-412.
- Ando, A., J. Camm, S. Polasky, A. Solow. 1998. Species distributions, land values, and efficient conservation. *Science* 279:2126-2128.
- Aquatic Management Area Acquisition Planning Committee. 2007. Minnesota's Aquatic Management Area Acquisition Plan 2008-2003. Report to the Department of Natural Resources, Division of Fish and Wildlife, October 2007.
- Askins, R. A. 1993. Population trends in grassland, shrubland, and forest birds in eastern North America. Pages 1-34 in *Current Ornithology*, Vol. 11 (D. M. Power, ed). Plenum Press, NY.
- Blann, K. and M. Cornett. 2008. Identifying Lake Conservation Priorities for The Nature Conservancy in Minnesota, North Dakota and South Dakota, Volume 1: A Portfolio for Minnesota. The Nature Conservancy, Minneapolis, MN. [www.nature.org/wherework/northamerica/states/minnesota/science/](http://www.nature.org/wherework/northamerica/states/minnesota/science/)
- Blann, K. L., J. L. Anderson, G. L. Sands, and B. Vondracek. Effects of agricultural drainage on aquatic ecosystems: A review. *Critical Reviews in Environmental Science and Technology*: in press.
- Boody, G., B. Vondracek, D. Andow, M. Krinke, J. Westra, J. Zimmerman, and P. Welle. 2005. Multifunctional agriculture in the United States. *BioScience* 55:27-38.

- Breckenridge, W.J. 1944. Reptiles and amphibians of Minnesota. University of Minnesota Press.
- Christian, D.P., G.J. Niemi, J.M. Hanowski, and P. Collins. 1994. Perspectives on biomass energy tree plantations and changes in habitat for biological organisms. *Biomass and Bioenergy* 6:31-39.
- Christian, D.P., W. Hoffman, J. M. Hanowski, G.J. Niemi, and J. Beyea. 1998. Bird and mammal diversity on woody biomass plantations in North America. *Biomass and Bioenergy* 14:395-402.
- Coffin, B. and L. Pfannmuller, eds. 1988. Minnesota's endangered flora and fauna. University of Minnesota Press.
- Detenbeck, N., C. Johnston, and G.J. Niemi. 1993. The effect of wetlands on lake water quality in the Minneapolis/St. Paul metropolitan area. *Landscape Ecology* 8:39-61.
- DeVore, B. 2006. Putting farming back in the driver's seat. *Land Stewardship Letter* 24(1): 1, 16-19. See also <http://www.woodbury-ia.com/departments/EconomicDevelopment/index.asp>
- Hannah, L. et al. 1997. Protected area needs in a changing climate. *Frontiers in Ecology and the Environment* 5:131-138.
- Hanowski, J., N. Danz, J. Lind, and G.J. Niemi. 2005. Breeding bird response to varying amounts of basal area retention in riparian buffers. *Journal of Wildlife Management* 69(2):689-698.
- Hazzard, E.B. 1982. The mammals of Minnesota. University of Minnesota Press.
- Hitch, A.T., and P.L. Leberg. 2007. Breeding Distributions of North American Bird Species Moving North as a Result of Climate Change. *Conservation Biology* 21:534-539.
- Howe, R.W., G.J. Niemi and J.R. Probst. 1996. Management of western Great Lakes forests for the conservation of neotropical migratory birds. In: F.R. Thompson III (ed.). *Management of Midwestern Landscapes for the Conservation of Neotropical Migratory Birds*. USDA Forest Service, North Central Forest Experiment Station, Gen. Tech. Report NC-187, St. Paul, MN. Pages 144-167.
- Jaakko Poyry Consulting, Inc. 1992. Forest wildlife. A technical paper for a generic environmental impact statement on timber harvesting and forest management in Minnesota. Report for Environmental Quality Board.
- John, S. 1994. Recreational boating impact investigations - Upper Mississippi River System, Pool 4, Red Wing, Minnesota. Report by the Minnesota Department of Natural Resources, Lake City, Minnesota for the National Biological Survey, Environmental Managment Technical Center, Onalaska, Wisconsin, February 1994. EMTC 94-S004
- Johnson, R. G., and S. A. Temple. 1990. Nest predation and brood parasitism of tallgrass prairie birds. *Journal of Wildlife Management* 54:106-111.
- Johnson, W.C., B.V. Millett, T. Gillmanov, R.A. Voldseth, G.R. Guntenspergen and D.E. Naugle. 2005. Vulnerability of northern prairie wetlands to climate change. *BioScience* 55:873-872.
- Johnston, C.A., N.E. Detenbeck, and G.J. Niemi. 1990. The cumulative effect of wetlands on stream water quality and quantity: a landscape approach. *Biogeochemistry* 10:105-141.
- Jordan, N., N. G. Boody, W. Broussard, J. D. Glover, D. Keeney, B. H. McCown, G. McIsaac,
- M. Muller, H. Murray, J. Neal, C. Pansing, R. E. Turner, K. Warner, and D. Wyse. 2007. Sustainable development of the agriculture bio-economy. *Science* 316 (June 15):1570-1571.
- McKenney, D.W., J.H. Pedlar, K. Lawrence, K. Campbell, and M.F. Hutchinson. 2007. Potential impacts of climate change on the distribution of North American trees. *BioScience* 57:940-948.

- Minnesota Department of Natural Resources, Mississippi River Landscape Team. 2004. Shoreline and water quality impacts from recreational boating on the Mississippi River. May, 2004.
- Minnesota Department of Natural Resources, 2006a. Tomorrow's Habitat for the Wild and Rare: An Action Plan for Minnesota Wildlife, State Wildlife Action Plan (DNR 2005). Division of Ecological Resources, Minnesota Department of Natural Resources.
- Minnesota Department of Natural Resources. 2006b. Long Range Duck Recovery Plan.
- Minnesota Dept. of Natural Resources, Division of Fish and Wildlife. 2008. Sustaining Lakes in a Changing Environment – SLICE An operational research plan for conserving Minnesota lake resources while confronting major ecological drivers of change.
- Minnesota Historical Society. 2006. Gaining Ground: A Preservation Plan for Minnesota's Historic Properties. [http://www.mnhs.org/shpo/planning/preservationplan\\_2006.pdf](http://www.mnhs.org/shpo/planning/preservationplan_2006.pdf)
- Niemi, G.J. and M. McDonald. 2004. Application of ecological indicators. *Annual Review of Ecology, Evolution, and Systematics* 35:89-111.
- Niemi, G.J., J.M. Hanowski, P. Helle, R. Howe, M. Mönkkönen, L. Venier, and D.A. Welsh. 1998. Ecological sustainability of birds in boreal forests. *Conservation Ecology* [online] 2(2):17.
- Oldfield, B. and J. Moriarity. 1994. Amphibians and reptiles native to Minnesota. University of Minnesota Press.
- Patuxent Wildlife Research Center. 2006. Prairie wetlands and climate change – droughts and ducks on the prairies. Patuxent Wildlife Research Center, US Geological Survey, Biological Resources Division, Laurel, MD. [www.pwrc.usgs.gov](http://www.pwrc.usgs.gov)
- Petersen, A. and B. Vondracek. 2006. Vegetative buffer strips around sinkholes to improve water quality. *Journal of Soil and Water Conservation* 61:380-390.
- Powell, G.E., A.D. Ward, D.E. Mecklenburg, and A.D. Jayakaran. 2007. Two-stage channel systems: Part 1, a practical approach for sizing agricultural ditches. *Journal of Soil and Water Conservation* 62 (4) :277-286, The SWCS fosters the science and art of soil, water, and related natural resources management to achieve sustainability. Visit [www.swcs.org](http://www.swcs.org) for information on membership or to subscribe to the *Journal of Soil and Water Conservation*.
- Pressey, R.L., M. Cabeza, M.E. Watts, R.M. Cowling, and K.A. Wilson. 2007. Conservation planning in a changing world. *TRENDS in Ecology and Evolution* 22:583-592.
- Price, J. 2002. Global warming and songbirds, Minnesota. American Bird Conservancy, Boulder, CO, USA.
- Reschke, C., G. E. Host, and L. B. Johnson. 2005. Evaluation of DNR aquatic vegetation surveys: data summaries and comparative analyses. Minnesota Dept of Natural Resources CFMS Contract Number A61156, St. Paul.
- Reynolds, R. E., T. L. Shaffer, J. R. Sauer, and B. G. Peterjohn. 1994. Conservation reserve program: Benefit for grassland birds in the northern plains. *Transactions of the 59<sup>th</sup> North American Wildlife & Natural Resources Conference*:328-336.
- River Resources Forum. 2007. A summary of environmental impacts attributable to large and high powered recreational boat traffic on the upper Mississippi River. A white paper from the Fish and Wildlife Group, Draft February 22, 2007.
- Roberts, T.S. 1932. *Birds of Minnesota*. 2 volumes. University of Minnesota Press.

Schulte, L., D.J. Mladenoff, T.R. Crow, L.C. Merrick, D.T. Cleland. 2007. Homogenization of northern US Great Lakes forests due to land use. *Landscape Ecology*: in press.

Schwalm, C., K. Page, and A. Ek. 2004. Red Lake River Corridor Land Use Change Projection report.

Swanson, E.B. 1940. The use and conservation of Minnesota game, 1850-1900. Ph.D. Thesis, University of Minnesota.

Valiela, I. and P. Martinetto. 2007. Changes in bird abundance in Eastern North America: urban sprawl and global footprint? *BioScience* 57: 360-370.

Web sites: <http://www.nrri.umn.edu/mnbirds>

<http://waterontheweb.org/>

<http://www.lakesuperiorstreams.org/northshore/index.html>

## Land Use

California Environmental Protection Agency, Air Resources Board. Low Carbon Fuel Standard Program. <http://www.arb.ca.gov/fuels/lcfs/lcfs.htm>

Randall, G. W., D. R. Huggins, M. P. Russelle, D. J. Fuchs, W. W. Nelson and J. L. Anderson. 1997. Nitrate losses through subsurface tile drainage in CRP, alfalfa, and row crop systems. *J. Environ. Qual.* 26:1240-1247.

Farrell, A. E., R. J. Plevin, B. T. Turner, A. D. Jones, M. O'Hare and D. M. Kammen. 2006. Ethanol can contribute to energy and environmental goals. *Science* 311: 506-508.

Jason Hill, Erik Nelson, David Tilman, Stephen Polasky, and Douglas Tiffany. 2006. Environmental, economic, and energetic costs and benefits of biodiesel and ethanol biofuels. *Proceedings of The National Academy of Sciences*

Tilman, Hill, Lehman. 2006. Carbon-Negative Biofuels from Low-Input High-Diversity Grassland Biomass. *Science*, 2006.

Daniel Engstrom, Shawn Schottler, Dylan Blumentritt, and Carrie Jennings. 2008. Minnesota River Turbidity TMDL Fingerprinting Sediment Sources. Presentation to the Minnesota River Turbidity TMDL Stakeholder Advisory Committee, March 10, 2008. <http://www.MPCA.state.mn.us/publications/presentations/mnriver-0308-engstrom.pdf>

D. W. Kelley and E.A. Nater: Historical Sediment Flux from Three Watersheds into Lake Pepin, Minnesota, USA. *J Environ Qual* 2000 29: 1369

2002 Census of Agriculture, [http://www.nass.usda.gov/census/census02/volume1/mn/st27\\_1\\_061\\_061.pdf](http://www.nass.usda.gov/census/census02/volume1/mn/st27_1_061_061.pdf)

Minnesota Department of Natural Resources. *Minnesota Forests for the Future: Conserving Minnesota's working forest lands to meet the state's future recreation, economic, and ecological needs*. Strategic Report of the DNR Commissioner's Advisory Team on the Minnesota Forests for The Future Program. February 2008.

Minnesota Forest Resources Council. *Sustaining Minnesota Forest Resources: Voluntary Site-Level Forest Management Guidelines for Landowners, Loggers and Resource Managers*. Minnesota Forest Resources Council, St. Paul, Minnesota. 2005

- Mundell, J. Steven J Taff, Michael Kilgore, Stephanie Snyder. Assessing Trends in Forest Parcelization and Development in Minnesota: An Itasca County Case Study, July 2007. Prepared for the Blandin Foundation.
- Kilgore, M and D. MacKay. 2006. Trends in Minnesota's forest land real estate market: implications for forest management. *Northern Journal of Applied Forestry* 24(1) 27-42.
- Minnesota Forest Inventory Analysis (FIA), 1999-2005. The Minnesota Forest Resource Information Cooperative. Accessed June 28, 2008.

## Energy

- Center for Climate Strategies. 2008. Minnesota Climate Change Advisory Group Final Report: A Report to the Minnesota Legislature. St. Paul, MN.
- DOE and MDA. *Biomass as Feedstock For a Bioenergy and Bioproducts Industry: The Technical Feasibility of a Billion-Ton Annual Supply*; DOE/GO-102005-2135 also ORNL/TM-2005/66. US Department of Energy and US Department of Agriculture: US, 2005.
- Energy Information Administration: Official Energy Statistics from the U.S. Government. 2005, 2006. <http://www.eia.doe.gov/>
- Engstrom, D. R., and E. B. Swain. 1997. Recent declines in atmospheric mercury deposition in the Upper Midwest. *Environmental Science and Technology* 31:960-967.
- EPA. *Mercury Study Report to Congress*; EPA-452/R-97-005; US Environmental Protection Agency: Washington, DC, 1997.
- EPA. *Mercury Maps: A Quantitative Spatial Link Between Air Deposition and Fish Tissue. Peer Reviewed Final Report. U.S. Environmental Protection Agency*; EPA-823-R-01-009; US Environmental Protection Agency: Washington, DC, 2001.
- Gannon, A., C. Belanger, and Y. Uchiyama. 2002. Life cycle assessment of electricity generation options: The status of research in year 2001. *Energy Policy* 30: 1267-1278.
- Hrabik, T. R., and C. J. Watras. 2002. Recent declines in mercury concentration in a freshwater fishery: isolating the effects of de-acidification and decreased atmospheric mercury deposition in Little Rock Lake. *The Science of the Total Environment* 297:229-237.
- Hus, P.J., and D.A. Tilman. 2000. Cofiring multiple opportunities with coal at Bailly Generating Station. *Biomass and Energy* 19: 385-394.
- Jackson, A. M., E. B. Swain, C. A. Andrews, and D. Rae. 2000. Minnesota's Mercury Contamination Reduction Initiative. *Fuel Processing Technology* 65-66 (2000):79-99.
- LEETF. 2005. Legislative Electric Energy Task Force (LEETF) Report to the Legislature. St. Paul, MN.
- MDA. 2008. NextGen Energy Board Report to the Legislature. St. Paul, MN.
- MPCA TMDL. *Minnesota Statewide Mercury Total Maximum Daily Load*; Minnesota Pollution Control Agency: MN, 2007.
- MPCA. *Minnesota Mercury Reductions Progress Report to the Minnesota Legislature*; Minnesota Pollution Control Agency: MN, 2005.
- MPCA. *Reducing Mercury Emissions from Power Plants in Minnesota*; Minnesota Pollution Control Agency: MN, 2006.

- MPCA. *Estimated Mercury Emissions (lbs) from Human Activity in Minnesota for the Years 2005, 2010 and 2018*. Minnesota Pollution Control Agency: MN, 2008.
- Univ. Minnesota. 2008. *The Potential for Terrestrial Carbon Sequestration in Minnesota: A Report to the Minnesota Department of Natural Resources from the Minnesota Terrestrial Carbon Sequestration Initiative*. Univ. Minnesota, St. Paul, MN.
- USGS. *Mercury Introduction: Simplified biogeochemical cycle of Mercury in the environment*. United States Geological Survey: US 2008. Available online at: [http://energy.er.usgs.gov/health\\_environment/mercury/](http://energy.er.usgs.gov/health_environment/mercury/).
- Wilhelm, W.W., J.M.F. Johnson, D.L. Karlen, and D.T. Lightle. 2007. Corn Stover to Sustain Soil Organic Carbon Further Constrains Biomass Supply. *Agron. J.* 99:1665-1667.
- Zillioux, E.J., D.B. Porcella, and J.M. Bonoit. 1993. Mercury cycling and effects in freshwater wetland ecosystems. *Environ. Toxicol. Chem.* 12: 2245-2264.