

## PUBLICATIONS

Below are lists of scientific reports and other publications by personnel in the Wildlife Populations and Research Unit for the approximate period March 2005 through February 2006. Some titles by Unit personnel pertain to work done while employed by the DNR, but other reports are on work done elsewhere (e.g., as a graduate student, employed by another agency, while on leave of absence, etc.) An (\*) before an author's name indicates that the report was listed as in press or in review in previous summaries of research project findings. Included under scientific reports are those which have been published and those accepted for publication (in press). Names in bold indicate a DNR employee.

ALT, G. L., **M. D. GRUND**, AND B. P. SHISSLER. 2006. Challenges of white-tailed deer management. Transactions of the North American Wildlife and Natural Resources Conference 71. In press.

**BERDEEN, J. B.**, AND D. L. OTIS. 2006. Effects of subcutaneous transmitter implants on mourning doves. Wildlife Society Bulletin. 34:93-103.

BRINKMAN, T. J., C. S. DEPERNO, J. A. JENKS, **B. S. HAROLDSON**, and R. G. OSBORN. 2005. Movement of female white-tailed deer: effects of climate and intensive row-crop agriculture. Journal of Wildlife Management 69:1099-1111.

\***CARSTENSEN POWELL, M., G. D. DELGIUDICE**, AND **B. A. SAMPSON**. 2005. Low risk of

marking-induced abandonment in free-ranging white-tailed deer neonates. Wildlife Society Bulletin 33:643-655.

**CARSTENSEN POWELL, M., G. D. DELGIUDICE, B. A. SAMPSON, AND D. W. KUEHN**. 2006. Survival and cause-specific mortality of white-tailed deer neonates relative to winter severity and nutritional condition of their dams. Journal of Wildlife Management 70. In review.

\*COX, E. W., D. L. MURRAY, W. B. BALLARD, H. A. WHITLAW, **M. S. LENARZ**, T. W. CUSTER, T. BARNETT, AND T. K. FULLER. 2006. Parasite-mediated decline in a moose population at the southern range periphery. Wildlife Monographs. In press.

DEPERNO, C. S., B. J. BIGALKE, J. A. JENKS, **B. S. HAROLDSON**, and R. G. OSBORN. 2005. Electrocution of an adult white-tailed deer. Prairie Naturalist 37:47-49.

\***DELGIUDICE, G. D., J. FIEBERG, M. R. RIGGS, M. CARSTENSEN POWELL**, AND W. PAN. 2005. A long-term age-specific survival analysis of female white-tailed deer. Journal of Wildlife Management 69. In press.

**DELGIUDICE, G. D., M. S. LENARZ, AND M. CARSTENSEN POWELL**. 2006. Age-specific fertility and fecundity in northern free-ranging white-tailed deer: evidence for reproductive senescence? Journal of Mammalogy 87. In review.

- DELGIUDICE, G. D., B. A. SAMPSON, D. W. KUEHN, M. CARSTENSEN POWELL, AND J. FIEBERG.** 2005. Understanding margins of safe capture, chemical immobilization, and handling of free-ranging white-tailed deer. *Wildlife Society Bulletin* 33:677–687.
- DIJAK, W. D., C. D. RITTENHOUSE, M. A. LARSON, F. R. THOMPSON, III, AND J. J. MILLSPAUGH.** 2006. Software review: Landscape HSI models software. *Wildlife Society Bulletin* 34. In press.
- DINGMAN, K. L., R. O. KIMMEL, J. D. KRENZ, AND B. R. MCMILLAN.** 2006. Factors affecting spring wild turkey hunting quality in Minnesota. *National Wild Turkey Symposium* 9. In press.
- DUCHAMP, J. E., E. B. ARNETT, M. A. LARSON, AND R. K. SWIHART.** 2006. Ecological considerations for landscape-level management of bats. Chapter 9 in M. J. Lacki, J. P. Hayes, and A. Kurta, editors. *Conservation and management of bats in forests*. Johns Hopkins University Press, Baltimore, MD. In press.
- \***EDWARDS, A. J., M. W. SCHRAGE, AND M. S. LENARZ.** 2004. Northeastern Minnesota moose management – a case study in cooperation. *Alces* 40:23-31.
- ERMER, J. R., K. J. HAROLDSON, R. O. KIMMEL, C. D. DIETER, P. D. EVENSON, AND B. D. BERG.** 2006. Characteristics of winter roost and activity sites of wild turkeys in Minnesota. *National Wild Turkey Symposium* 9. In press.
- \***GARSHELIS, D. L., AND H. HRISTIENKO.** 2006. State and provincial estimates of American black bear numbers versus agency assessments of population trend. *Ursus* 17. In press.
- GARSHELIS, D. L., AND K. V. NOYCE.** 2006. Discerning biases in a large-scale population estimate for black bears. *Journal of Wildlife Management* 70. In press.
- GOETZ, S. L., AND W. F. PORTER.** 2006. Statewide assessment of wild turkey habitat in Arkansas using satellite imagery. *National Wild Turkey Symposium* 9. In press.
- GORMAN, T. A., J. D. ERB, B. R. MCMILLAN, AND D. J. MARTIN.** 2006. Space use and sociality of river otters (*Lontra canadensis*) in Minnesota. *Journal of Mammalogy* 87. In press.
- \* **GORMAN, T. A., J. D. ERB, B. R. MCMILLAN, D. J. MARTIN, AND J. A. HOMOYACK.** 2006. Site characteristics of river otter (*Lontra canadensis*) natal dens in Minnesota. *American Midland Naturalist* 155. In press.
- \* **GORMAN, T. A., B. R. MCMILLAN, J. D. ERB, C. S. DEPERNO, AND D. J. MARTIN.** 2006. Survival and cause-specific mortality of a protected population of river otter (*Lontra canadensis*) in Minnesota. *Wildlife Biology* 12: In review.
- HANSON, M.A., K.D. ZIMMER, M.G. BUTLER, B.A. TANGEN, B.R. HERWIG, AND N.H. EULISS, JR.** 2005. Biotic Interactions as

- determinants of ecosystem structure in prairie wetlands: an example using fish. *Wetlands* 25:764-775.
- HAROLDSON, K. J., R. O. KIMMEL, M. R. RIGGS, AND A. H. BERNER.** 2006. Association of ring-necked pheasant, gray partridge, and meadowlark abundance to CRP grasslands. *Journal of Wildlife Management* 70. In press.
- KANE, D. F., R. O. KIMMEL, AND W. E. FABER.** 2006. Winter Survival of wild turkey hens in central Minnesota. *Journal of Wildlife Management* 70. In press.
- KIMMEL, R. O., AND W. J. KRUEGER.** 2006. Northern wild turkeys: issues or opportunities. *National Wild Turkey Symposium* 9. In press.
- LARUE, M. A., C. K. NIELSEN, AND M. D. GRUND.** 2006. Using distance sampling to estimate white-tailed deer density in south-central Minnesota. *Prairie Naturalist* 38. In press.
- LENARZ, M. S.** 2006. Book Review – Ecology and management of the North American moose. *Wildlife Society Bulletin* 34. In press.
- MAXSON, S.J., J. R. FIEBERG, AND M. R. RIGGS.** Black tern nest habitat selection and factors affecting nest success in northwestern Minnesota. *Waterbirds*. Submitted.
- NOYCE, K. V., AND D. L. GARSHELIS.** 2005. Minnesota black bear status report. *Eastern Black Bear Workshop* 18. In press.
- PAISLEY, S., AND D. L. GARSHELIS.** 2006. Activity patterns of Andean bears (*Tremarctos ornatus*) in Bolivia. *Journal of Zoology (Lond.)* 268:25–34.
- \*RAIZMAN, E. A., S. J. WELLS, P. A. JORDAN, G. D. DELGIUDICE, AND R. R. BEY.** 2004. *Mycobacterium avium* subsp. *paratuberculosis* from free-ranging deer and rabbits surrounding Minnesota dairy herds. *Canadian Journal of Veterinary Research* 69:32–38.
- SAMPSON, B. A., AND G. D. DELGIUDICE.** 2006. Tracking the rapid pace of GIS-related capabilities and their accessibility. *Wildlife Society Bulletin* 34. In press.
- SCHEFFER, M., G. J. VAN GEEST, K.D. ZIMMER, E. JEPPESEN, M. SØNDERGAARD, M.G., BUTLER, M.H., HANSON, S., DECLERCK, S. AND L. DE MEESTER.** 2006. Small habitat size and isolation can promote species richness: second-order effects on biodiversity in shallow lakes and ponds. *Oikos* 112: 227-231.
- SCHROEDER, S., D. C. FULTON, AND J. S. LAWRENCE.** 2006. Managing for preferred hunting experiences: A typology of Minnesota waterfowl hunts. *Wildlife Society Bulletin* 34. In press.
- SHIFLEY, S. R., F. R. THOMPSON, III, W. D. DIJAK, M. A. LARSON, AND J. J. MILLSPAUGH.** 2006. Simulated effects of forest management alternatives on landscape structure and habitat suitability in the Midwestern

- United States. Forest Ecology and Management. In press.
- SOLA, S., **D. L. GARSHELIS**, J. D. AMARAL, **K. V. NOYCE**, **P. L. COY**, C. J. STEER, P. A. IAIZZO, AND C. M. P. RODRIGUES. 2006. Plasma levels of ursodeoxycholic acid in black bears, *Ursus americanus*: Seasonal changes. Comparative Biochemistry and Physiology. Part C: Toxicology & Pharmacology 143. In press.
- ZICUS, M. C., D. P. RAVE**, A. DAS, M. R. RIGGS, AND **M. L. BUITENWERF**. 2006. Influence of land use on mallard nest structure occupancy. Journal of Wildlife Management 70(5). In press.
- ZICUS, M. C., D. P. RAVE, AND J. R. FIEBERG**. 2006. Cost effectiveness of single- vs. double-cylinder over-water nest structures. Wildlife Society Bulletin 34. In press.