

Curriculum Vitae

Dr. Steve K. Windels

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EDUCATION

Ph.D. Forest Science (Wildlife Ecology), Michigan Technological University

M.S. Range and Wildlife Management, Texas A&M University – Kingsville

B.S. Fisheries and Wildlife Management, University of Minnesota

CERTIFICATIONS

Certified Wildlife Biologist®, The Wildlife Society (2010-Present)

CURRENT POSITIONS

Owner/Chief Scientist, Northern Wildlife Consultants, (2021-present)

Research Wildlife Biologist (GS401-12), U.S. National Park Service, Voyageurs National Park, MN (2012-present)

Adjunct Assistant Professor, Dept. Fisheries, Wildlife, and Conservation Biology, University of Minnesota (2017-present)

EMPLOYMENT HISTORY

Ecologist (GS401-11), Voyageurs National Park, MN (2003-2012)

Adjunct Instructor, Department of Biology, Northern Michigan University (2002)

Graduate Research Assistant, Michigan Technological University (2000-2003)

Seasonal Biological Technician, Pictured Rocks National Lakeshore, MI (2000)

Outdoors Writer, Grand Rapids Herald-Review, MN (1999-2000)

Graduate Research Assistant, Texas A&M University – Kingsville (1996-1999)

Undergraduate Research Assistant, University of Minnesota (1993-1996)

HONORS AND AWARDS

- The Wildlife Society - Jim McDonough Award (2021)
- Minnesota Chapter of The Wildlife Society - Service to Chapter Award (2021)
- Minnesota Chapter of The Wildlife Society - Service to Chapter Award (2015)
- National Park Service - Director's Award for Natural Resource Research (2014)
- National Park Service - Midwest Region Natural Resource Manager of the Year (2008)
- Michigan Technological University - DeVlieg Award (2002)
- Michigan Technological University - Recruitment Fellowship (2000)
- 4th International Moose Symposium, Fairbanks, AK - Student Travel Award (1997)
- University of Minnesota - J. Donald Smith Award (1996)

CURRENT PROJECTS (Principal Investigator or Co-Principal Investigator)***Mammals***

- Beavers.Voyageurs.Research (BVR) – long-term study of North American beaver ecology in Voyageurs National Park (2004-present)

Wetlands

- Voyageurs Wetland Restoration Project – large-scale restoration of lacustrine wetlands in Voyageurs National Park area.
- Muskrat restoration as a tool to fight aquatic invasive species (with A. Ahlers).

BOOK CHAPTERS (2 total)

Taylor, J., and **S.K. Windels**. *In prep*. Beavers. *In* Wild Furbearer Management and Conservation in North America. T. Hiller, ed. Wildlife Ecology Institute.

Windels, S.K. 2017. Beavers as Engineers of Wildlife Habitat. *In* Beavers: Boreal Ecosystem Engineers. Carol Johnston, ed. Springer-Verlaug Press.

MANUSCRIPTS SUBMITTED, IN REVIEW, or IN REVISION (7 publications at present, 4 not shown until publication confirmed)

Cruz, J., **S.K. Windels**, W.E. Thogmartin, S.M. Crimmins, and B. Zuckerberg. *In Review*. Common Loons appear resilient to Bald Eagle recovery. *Avian Ecology and Conservation*.

Hargis, A., W.J. Severud, W.W. Bowerman, T.G. Grubb, L.H. Grim, and **S.K. Windels**. Bald eagle diets in Voyageurs National Park, 2009-2012. *In Prep*. Targeted for NPS Natural Resource Data Series.

Olson, B.T., R.T. Plumb, J. Warmbold, and **S.K. Windels**. *In Prep*. Detachment, dispersal, and destination of floating cattail mats in large lake environments. Targeted for Wetlands.

PEER-REVIEWED PUBLICATIONS (67)**2022 (2 publications)**

Bump, J.K., T.D. Gable, S. M. Johnson-Bice, A.T. Homkes, D. Freund, S.K. Windels, and S. Chakrabarti. *In Press*. Predator personalities alter ecosystem services. *Frontiers in Ecology and the Environment*.

Johnson-Bice, S.M., T.D. Gable, **S.K. Windels**, and G.E. Host. 2022. Relics of beavers past: time and population dynamics drive scale-dependent patterns of ecosystem engineering. *Ecography*: 2022 e05814.

2021 (4 publications)

Aarrestad, O., B. Matykiewicz, **S.K. Windels**, A.A. Ahlers, B.T. Olson, A. Rendahl, E. Burton, and T.M. Wolf. 2021. Baseline physiologic and hematologic health in wild-caught muskrats (*Ondatra zibethicus*) from a near-pristine ecosystem in northern Minnesota. *Journal of Wildlife Diseases*.

- Gable, T.D., A.T. Homkes, S.M. Johnson-Bice, **S.K. Windels**, and J.K. Bump. 2021. Wolves choose ambushing locations based on the sensory defenses and deficiencies of their prey. *Behavioral Ecology* 32: 339-348.
- Johnson-Bice, S.M., J. Ferguson, J. Erb, T.D. Gable, and **S.K. Windels**. 2021. Ecological forecasts reveal limitations of common model selection methods: predicting changes in beaver colony densities. *Ecological Applications* 101:1-6.
- Matykiewicz, B.R., **S.K. Windels**, B.T. Olson, R.T. Plumb, T.M. Wolf, and A.A. Ahlers. 2021. Assessing translocation effects on the spatial ecology and survival of muskrats *Ondatra zibethicus*. *Wildlife Biology* 2021 (2): wlb-00823.

2020 (6 publications)

- Ahlers, A.A., T.M. Wolf, O. Aarrestad, **S.K. Windels**, B.T. Olson, B.R. Matykiewicz, and J.P. Dubey. 2020. Survey of *Toxoplasma gondii* exposure in muskrats in a pristine ecosystem: establishing a baseline for changing landscapes. *Journal of Parasitology* 106: 346-349.
- Gable, T.D., S.M. Johnson-Bice, A.T. Homkes, **S.K. Windels**, and J.K. Bump. 2020. Outsized effect of predation: wolves alter wetland creation and recolonization by killing ecosystem engineers. *Science Advances*.
- Homkes, A.T., T.D. Gable, **S.K. Windels**, and J.K. Bump. 2020. Berry important? Wolf provisions pups with berries in northern Minnesota. *Wildlife Society Bulletin* 44(1): 221-223.
- Larreur M., **S.K. Windels**, B.T. Olson, and A.A. Ahlers. 2020. Cross-scale interactions and non-native cattails influence spatiotemporal distributions of a wetland-obligate species. *Landscape Ecology* 35: 59-68.
- Manlick, P.J., **S.K. Windels**, J.E. Woodford, and J.N. Pauli. 2020. Can landscape heterogeneity promote carnivore coexistence in human-dominated landscapes? *Landscape Ecology* 35: 2013-2027.
- Mayer, M., C.A. Estella, S.K. Windels, F.N. Rosell. 2020. Landscape structure and population density affect intraspecific aggression in beavers. *Ecology and Evolution* 10 (24): 13883-13894.

2019 (4 publications)

- Cruz, J., **S.K. Windels**, W.E. Thogmartin, S.M. Crimmins, L.H. Grim, J. Larson, and B. Zuckerberg. 2019. Top-down effects of repatriating bald eagles hinder jointly recovering competitors. *Journal of Animal Ecology* 88. DOI: 10.1111/1365-2656.12990.
- Gable, T.D., **S.K. Windels**, A.T. Homkes, G. Robertson, and E.K. Verveniotis. 2019. Trumpeter swan (*Cygnus buccinator*) killed by gray wolf (*Canis lupus*) in Minnesota. *Northeastern Naturalist* 26(3): 27-30.
- Gable, T.D., A.T. Homkes, **S.K. Windels**, and J. K. Bump. 2019. Is there a mechanism that causes wolves from same area to disperse long-distances in same direction? *Canadian Wildlife Biology and Management* 8(2): 61-65.

Johnson-Bice, S.M., **S.K. Windels**, and K.L. Pilgrim. 2019. Observation and DNA confirmation of a fisher (*Pekani pennati*) hunting and killing a muskrat (*Ondatra zibethicus*). *Northeastern Naturalist* 26(3): 31-34.

2018 (12 publications)

- Bachand, M., J. Hénault Richard, S. Martin, **S.K. Windels**, J. Morin. 2018. Loon nest viability model: a performance indicator for improving water-level regulation of large water bodies. *Natural Resources* 9: 1-16. doi 10.4236/nr.2018.91001
- Cruz, J., **S.K. Windels**, W.E. Thogmartin, S.M. Crimmins, L.H. Grim, and B. Zuckerberg. 2018. Managing individual nests promotes population recovery of a top predator. *Journal of Applied Ecology* 00:000-000. <https://doi.org/10.1111/1365-2664.13062>
- Ditmer, M.A., J.R. Fieberg, R.A. Moen, **S.K. Windels**, S.P. Stapleton, and T.R. Harris. 2018. Moose movement rates are altered by wolf presence in two ecosystems. *Ecology and Evolution*. DOI: 10.1002/ece3.4402
- Gable, T.D., T. Stanger, J.K. Bump, and **S.K. Windels**. 2018. Do wolves ambush beavers? Video evidence for higher-order hunting strategies. *Ecosphere* 9(3):e02159. doi 10.1002/ecs2.2159
- Gable, T.D., and **S.K. Windels**. 2018. Kill rates and predation rates of wolves on beavers. *Journal of Wildlife Management* 82: 466-472. DOI 10.1002/jwmg.21387.
- Gable, T.D., **S.K. Windels**, and J.K. Bump. 2018. Finding wolf homesites: improving the efficacy of howl surveys to study wolves. *PeerJ*. Early online.
- Gable, T.D., **S.K. Windels**, and A.T. Homkes. 2018. Do wolves hunt freshwater fish in spring as a food source? *Mammalian Biology* 91:30-33.
- Gable, T.D., **S.K. Windels**, and I.C. Rautio. 2018. River otter (*Lontra canadensis*) killed by wolves (*Canis lupus*) during winter in northern Minnesota. *Canadian Field-Naturalist* 131: 252-253.
- Gable, T.D., **S.K. Windels**, F. Rosell, and M. Romanski. 2018. The forgotten prey of an iconic predator: a review of gray wolf-beaver dynamics. *Mammal Review* 48:123-138.
- Johnson-Bice, S., K. Renik, **S.K. Windels**, and A. Hafis. 2018. A review of beaver-salmonid relationships and history of management actions in the Western Great Lakes (U.S.) Region. *North American Journal of Fisheries Management*. DOI: 10.1002/nafm.10223
- Wesche, S.L., B.J. O'Neal, **S.K. Windels**, B.T. Olson, M. Larreur, and A.A. Ahlers. 2018. Influence of invasive-hybrid cattails on resource selection by common loons. *Wildlife Society Bulletin* 41:000-000.
- Zhang, G., A.-X. Zhu, **S.K. Windels**, and C.-Z. Qin. 2018. A kernel density estimation approach for modelling and mapping species habitat suitability from presence-only data. *Ecological Indicators* 93: 387–396. doi: 10.1016/j.ecolind.2018.04.002.

2017 (7 publications)

Carstensen, M., J.H. Giudice, E.C. Hildebrand, J. P. Dubey, J. Erb, D. Stark, J. Hart, S. Barber-Meyer, L.D. Mech, **S.K. Windels**, and A.J. Edwards. 2017. Serological

- survey of diseases of free-ranging gray wolves (*Canis lupus*) in Minnesota. *Journal of Wildlife Diseases* 53: 459-471.
- Ditmer, M.A., R.A. Moen, **S.K. Windels**, J.D. Forester, T. Ness, and T.R. Harris. 2017. Influence of climate, landscape, and predators on the behavior of moose at their southern bioclimatic edge. *Current Zoology*. DOI 10.1093/cz/zox051.
- Elmore, R.D., J.M. Carroll, E.P. Tanner, T.J. Hovick, B.A. Grisham, S.D. Fuhlendorf, and **S.K. Windels**. 2017. Implications of the thermal environment for terrestrial wildlife management. *Wildlife Society Bulletin* 41: 183-193.
- Gable, T.D., **S.K. Windels**, and J.G. Bruggink. 2017. Estimating biomass of berries consumed by wolves. *Wildlife Society Bulletin*. 41:129-131.
- Gable, T.D., **S.K. Windels**, and J.G. Bruggink. 2017. The problems with pooling poop: confronting sampling method biases in wolf (*Canis lupus*) diet studies. *Canadian Journal of Zoology* 95:843-851.
- Gable, T.D., **S.K. Windels**, J.G. Bruggink, and S. Barber-Meyer. 2017. Weekly summer diet of gray wolves (*Canis lupus*) in northeastern Minnesota. *American Midland Naturalist* 179:15-27.
- Knowles, S., **S.K. Windels**, M. Adams, and J. Hall. 2017. *Canis familiaris* oral papillomavirus (cpv1) in a gray wolf (*canis lupus*) with oral papillomatosis and sarcoptic mange. *Journal of Wildlife Diseases* 53: 925-929.

2016 (8 publications)

- Gable, T.D., **S.K. Windels**, J.G. Bruggink, and A.T. Homkes. 2016. Where and how wolves kill beavers. *PLoS One* 11(12).
- McCann, N.P., R.A. Moen, **S.K. Windels**, and T. Harris. 2016. Identifying thermal refugia for a cold-adapted mammal facing climate change. *Wildlife Biology* 22:228-237.
- Olson, B.T., **S.K. Windels**, R.A. Moen, and N.P. McCann. 2016. Moose modify bedsites in response to high temperatures. *Alces* 52: 153-160.
- Smith, J.B., **S.K. Windels**, T. Wolf, R. Klaver, and J.L. Belant. 2016. Do transmitters affect fitness indices of American beavers (*Castor canadensis*)? *Wildlife Biology* 22:117-123.
- Street, G.M., J. Fieberg, A.R. Rodgers, M. Carstensen, R.Moen, S.A. Moore, **S.K. Windels**, and J. Forester. 2016. Habitat functional response mitigates reduced foraging opportunity across bioclimatic gradients: implications for animal fitness and space use. *Landscape Ecology* 31: 1939-1953.
- Tyser, R., K. Rolfus, J. Wiener, **S.K. Windels**, and T. Custer. 2016. Mercury concentrations in eggs of red-winged blackbirds and tree swallows breeding in Voyageurs National Park, USA. *Archives of Environmental Contamination and Toxicology* 71:16-25.
- Windels, S.K.**, and J.L. Belant. 2016. Performance of tail-mounted transmitters on American beavers *Castor canadensis* in a northern climate. *Wildlife Biology* 22:124-129.
- Windels, S.K.**, T. Pittman, T. Grubb, L.H. Grim, and B.W. Bowerman. 2016. Bald eagle predation on double-crested cormorant and herring gull eggs. *Journal of Raptor Research* 71:16-25.

2015 (2 publications)

- Johnston, C.L., and **S.K. Windels**. 2015. Using beaver works to estimate colony activity in boreal landscapes. *Journal of Wildlife Management* 79:1072-1080.
- VanderWaal, K.L., **S.K. Windels**, B.T. Olson, T. Vannatta, and R.A. Moen. 2015. Spatial epidemiology of liver fluke and meningeal worm in white-tailed deer in northern Minnesota, USA. *Parasitology* 142: 706-718.

2014 (3 publications)

- Cyr, T., **S.K. Windels**, R.A. Moen, and J.W. Warmbold. 2014. Diversity and abundance of terrestrial gastropods in Voyageurs National Park, MN: implications for risk of moose to *Parelaphostrongylus tenuis* infection. *Alces* 50: 121-132.
- Olson, B.T., **S.K. Windels**, M. Fulton, and R.A. Moen. 2014. Fine-scale temperature patterns in the southern boreal forest: implications for the cold-adapted moose. *Alces* 50: 105-121.
- Windels, S.K.**, and D.J. Flaspohler. 2014. Considerations for conservation and restoration of Canada yew in protected areas. *Natural Areas Journal* 34:249-253.

2013 (7 publications)

- Severud, W.J., J.L. Belant, **S.K. Windels**, and J.G. Bruggink. 2013. Seasonal variation in assimilated diets of American beavers. *American Midland Naturalist* 169:30-42.
- Severud, W.J., **S.K. Windels**, J.L. Belant, and J.G. Bruggink. 2013. The role of forage availability on diet choice and body condition in American beavers (*Castor canadensis*). *Mammalian Biology* 78: 87-93.
- Shaw, S.L., S. R. Chipps, **S.K. Windels**, M. A. H. Webb, D. McLeod, and D.W. Willis. 2013. Influence of reproductive status on seasonal movement of lake sturgeon (*Acipenser fulvescens*) in Namakan Reservoir Minnesota and Ontario. *Canadian Journal of Fisheries and Aquatic Sciences* 142: 10-20.
- Zhang, G.-M., A.-X. Zhu, S.-T. Yang, C.-Z. Qin, W. Xiao, and **S.K. Windels**. 2013. Mapping wildlife habitat suitability using kernel density estimation. *Acta Ecologica Sinica* 33: 7590-7600.
- Windels, S.K.** 2013. Ear tag loss rates in American beavers. *Wildlife Society Bulletin* 38:122-126.
- Windels, S.K.**, E.A. Beever, J. D. Paruk, A.R. Brinkman, J.E. Fox, C.C. Macnulty, David C. Evers, Lori S. Siegel, and Douglas C. Osborne. 2013. Effects of water-level management on nesting success of common loons. *Journal of Wildlife Management* 77:1626-1638.
- Windels, S.K.**, and D.J. Flaspohler. 2013. Scale dependent browsing patterns on Canada yew (*Taxus canadensis*) by white-tailed deer (*Odocoileus virginianus*). *International Journal of Forestry Research* Vol. 2013, Article ID 276583, doi:10.1155/2013/276583.

2012 (2 publications)

- Moen, R.A., and **S.K. Windels**. 2012. Lynx habitat suitability in and near Voyageurs National Park. *Natural Areas Journal*. 32: 500-507.

Shaw, S.L., S. R. Chipps, **S. K. Windels**, D. McLeod, M. A. H. Webb, and D.W. Willis. 2012. Lake sturgeon population attributes in Namakan Reservoir, Voyageurs National Park, Minnesota. *Journal of Applied Ichthyology* 28: 168-175.

2011 (4 publications)

Severud, W.J., J.L. Belant, J.G. Bruggink, and **S.K. Windels**. 2011. Predator cues reduce American beaver use of foraging trails. *Human Wildlife Interactions* 5:296-305.

Travis, S.E., J. Marburger, **S. K. Windels**, and B. Kubátová. 2011. Clonal structure of invasive cattail (*Typhaceae*) in the Western Great Lakes Region of North America. *Wetlands* 31: 221-230.

Windels, S.K., and D.J. Flaspohler. 2011. The ecology of Canada yew: a review. *Botany* 89: 1-17.

Windels, S. K., and D. G. Hewitt. 2011. Effects of plant secondary compounds on nutritional carrying capacity estimates of a browsing ungulate. *Range Ecology and Management* 64: 264-275.

<2010 (6 publications)

Belant, J.L., and **S.K. Windels**. 2007. A field test of a multiple-capture live trap for small mammals. *Ohio Journal of Science* 107: 16-18.

Belant, J.L., and **S.K. Windels**. 2003. Small mammal abundance and diversity in forests with and without Canada Yew, *Taxus canadensis*. *Canadian Field Naturalist* 117: 389-392.

Snow, A., S. Travis, R. Wildova, T. Fer Charles, P. Sweeney, J. Marburger, **S. K. Windels**, B. Kubatova, and D. Goldberg. 2010. DNA markers for studies of hybridizing cattail populations (*Typha latifolia* x *T. angustifolia*) in North America. *American Journal of Botany* 97:2061-2067.

Travis, S.E., J. Marburger, **S. K. Windels**, and B. Kubátová. 2010. Clonal diversity and hybridization dynamics of invasive cattail (*Typhaceae*) stands in the Great Lakes Region of North America. *Journal of Ecology* 98: 7-16.

Windels, S.K., and P.A. Jordan. 2008. Winter use of senescent herbaceous plants by white-tailed deer in Minnesota. *American Midland Naturalist* 160:255-260.

Windels, S.K., D.G. Hewitt, and T. D. A. Forbes. 2003. Effects of aeration on phenolic amine content of guajillo. *Journal of Range Management* 56: 529-533.

MANUSCRIPTS IN PREPARATION

Gable, T., and **S.K. Windels**. *In prep.* Refining the beaver tooth aging method. Targeted for *Journal of Mammalogy*.

Joyce, M., R. Moen, and **S.K. Windels**. *In prep.* Home range size and space use of moose in Voyageurs National Park. Targeted for *Alces*.

Windels, S.K. *In prep.* Long-distance dispersal in American beavers in a lake-dominated landscape. Targeted for *Journal of Mammalogy*.

Windels, S.K. *In prep.* Improvements to a field-based method for aging beavers. Targeted for *Journal of Mammalogy*.

Windels, S.K., J.B. Smith, J.L. Belant, and B.E. McLaren. *In prep.* Resource selection at lodge sites by beavers in large lakes. Targeted for *Journal of Wildlife Management*.

TECHNICAL REPORTS AND OTHER PUBLICATIONS

- Ziegeweid, J.R., O.R. Enriquez, R.P. Maki, S.L. Shaw, S.A. Love, and **S.K. Windels**. 2019. Ratios of strontium to calcium measured in pectoral fin rays of lake sturgeon (*Acipenser fulvescens*) captured in the lakes and rivers of Namakan Reservoir, Minnesota, United States and Ontario, Canada, 2007-15: U.S. Geological Survey data release. <https://doi.org/10.5066/P9M6ECKK>.
- Kissane, C., B.T. Olson, and **S.K. Windels**. 2018. Voyageurs National Park 2018 Marsh Bird Monitoring Program Summary Report. Natural Resource Data Series NPS/VOYA/NRDS—2018/1640. National Park Service, Fort Collins, Colorado.
- Gable, T. D., **S. K. Windels**, and B. T. Olson. 2017. Estimates of white-tailed deer density in Voyageurs National Park: 1989–2016. Natural Resource Report NPS/VOYA/NRR—2017/1427. National Park Service, Fort Collins, Colorado.
- Windels, S. K** and B.T. Olson. 2017. 2017 Voyageurs National Park moose population survey report. Natural Resource Data Series NPS/VOYA/NRDS—2017/1455. National Park Service, Fort Collins, Colorado.
- Windels, S. K** and B.T. Olson. 2016. 2016 Voyageurs National Park moose population survey report. Natural Resource Data Series NPS/VOYA/NRDS—2016/1031. National Park Service, Fort Collins, Colorado.
- Johnston, C. A., and **S. K. Windels**. 2015. Using beaver works to estimate colony activity in boreal landscapes (online spatial data). CUAHSI Spatial Data Service. Consortium of Universities for the Advancement of Hydrologic Science Inc., Medford, Massachusetts, USA. doi:10.4211/spatialdata-johnstonc01
- Malick, S., and **S. K. Windels**. 2015. Voyageurs National Park Marsh Bird Monitoring Program Summary Report. Natural Resource Data Series NPS/VOYA/NRDS—2015/XXX. National Park Service, Fort Collins, Colorado.
- Windels, S. K** and B.T. Olson. 2015. 2015 Voyageurs National Park moose population survey report. Natural Resource Data Series NPS/VOYA/NRDS—2015/971. National Park Service, Fort Collins, Colorado.
- Windels, S. K**. 2014. 2014 Voyageurs National Park moose population survey report. Natural Resource Data Series NPS/VOYA/NRDS—2014/645. National Park Service, Fort Collins, Colorado.
- Windels, S. K**. 2014. 2013 Voyageurs National Park moose population survey report. Natural Resource Data Series NPS/VOYA/NRDS—2014/644. National Park Service, Fort Collins, Colorado.
- Gutreuter, S., **S.K. Windels**, and R. Maki. 2013. Development of models to assess effects of water-level fluctuations on reproductive success of common loons. Project Completion Report to International Joint Commission [IJC Project 1042100754].
- Moen, R., R.O. Peterson, **S.K. Windels**, L. Frelich, and M. Johnson. 2011. Minnesota moose status: progress on moose advisory committee recommendations. Natural Resources Research Institute, University of Minnesota Duluth technical report NRRI/TR-2011-41.
- Trembath, C., **S.K. Windels**, D.T. McLeod, B.E. McLaren, S.R. Chipps, and R. Mackereth. 2011. Lake sturgeon research in the Namakan System: 2010 Progress Report. Report to Voyageurs National Park. Released August 4, 2011. 24p.

- Host, G., P. Meysembourg, **S. K. Windels**, and E.A. Beever. 2009. Historic and recent landscape changes in relation to beaver activity in Voyageurs National Park, Minnesota, USA. Report to Voyageurs National Park. 50p.
- Moen, R.A., and **S.K. Windels**. 2009. Lynx habitat suitability in and near Voyageurs National Park. NRR Technical Report No. NRR/TR-2009/19 Release 1.0
- Route, B., **S. K. Windels**, and J. Schaberl, 2007. Status of Canada Lynx in Voyageurs National Park, 2000 – 2004. Great Lakes Inventory and Monitoring Network. Technical Report GLKN/2007/02. National Park Service, Ashland, WI.
- Windels, S.K.** 2006. Least Flycatcher. Pages 276-277 In Wisconsin Breeding Bird Atlas (Noel Cutright, Ed.). University of Wisconsin Press.
- Marburger, J., S.E. Travis, and **S.K. Windels**. 2005. Cattail sleuths. Natural Resource Year in Review. National Park Service, Fort Collins, CO.
- Windels, S.K.**, and D.J. Flaspohler. 2003. The Decline of Canada Yew in Upper Great Lakes Forests: Implications for Regional Biodiversity. Report to MI DNR Natural Heritage Program. 13p.
- Windels, S.K.**, and D.J. Flaspohler. 2001. Potential cascading trophic effects related to the decline of Canada yew in the Upper Great Lakes Region: 2001 preliminary results. Report to Michigan Department of Natural Resources Natural Heritage Program. 11p.
- Windels, S.K.**, and D.J. Flaspohler. 2001. Potential cascading trophic effects related to the decline of Canada yew in the Upper Great Lakes Region. Report to TNC-MI. 12p.
- Windels, S.K.** 1999. Population viability analysis of Black Terns for U.S. Forest Service Region 9. Report to U.S. Forest Service Region 9. 15p.
- Windels, S. K.**, and J. R. Kitts. 1993. Feeding rates of double-crested cormorants and American white pelicans on lakes and ponds in western Minnesota, and potential impacts on aquaculture industry. Report to Minnesota Department of Agriculture. 19p.

COMPETITIVE RESEARCH GRANTS (>\$4,898,400 Total)

1. R.T. Plumb and **S.K. Windels**. Restoration of Border Water wetlands infested by invasive hybrid cattail in Voyageurs National Park. National Parks Foundation Centennial Challenge Grant. Funding for \$200,000 for 2021-2023.
2. **S.K. Windels**. Do beavers buffer against droughts and floods? Minnesota Environment and Natural Resources Trust Fund. Funding for \$168,400 for 2020-2023.
3. B.T. Olson and **S.K. Windels**. Restoration of non-native cattail dominated wetlands in Border Waters. Lessard-Sams Outdoor Heritage Council. Funding for \$1,270,000 for 2020-2024.
4. **S.K. Windels**, and A.A. Ahlers. Evaluate control methods for invasive hybrid cattails. Minnesota Environment and Natural Resources Trust Fund. Funding for \$131,000 for 2018-2021.
5. **S.K. Windels**. Improve non-invasive methods of carnivore monitoring. NPS NRPP. \$30,000. Recommended for funding for FY2020.

6. **S.K. Windels.** Effects of Wolves on Beavers, Moose, and Deer in the Border Lakes Region. Minnesota Environment and Natural Resources Trust Fund. Recommended for funding for \$293,000 for 2017-2020.
7. B.T. Olson and **S.K. Windels.** 2016. Restoration of non-native cattail dominated wetlands in Rainy Lake. Initiative Foundation. Funding for \$800,000 for 2017-2019.
8. A. Hafs and **S.K. Windels.** 2015. Improving native brook trout stream habitat through beaver management. Minnesota Environment and Natural Resources Trust Fund. Funding for \$225,000 for 2016-2019.
9. B. Zuckerberg, **S.K. Windels,** W. Thogmartin, and S. Crimmins. 2015. The Ecological Consequences of Bald Eagle (*Haliaeetus leucocephalus*) Recovery at Voyageurs National Park. Funding for \$144,000 from USGS-NPS Natural Resource Preservation Program for 2016-2017.
10. **S.K. Windels** et al. 2015. Bat monitoring and white-nosed syndrome in northern forested parks: Part II. Funding for \$150,000 from National Park Service Biological Resource Division for 2015-2016.
11. **S.K. Windels** et al. 2014. Bat monitoring and white-nosed syndrome in northern forested parks. Funding for \$74,000 from National Park Service Biological Resource Division for 2014-2015.
12. **S.K. Windels.** 2013. Determine impact of MN wolf harvest season on wolf population in Voyageurs National Park. Funding for \$75,000 from National Park Service Natural Resource Preservation Program for 2016-2018.
13. **S. K. Windels.** 2012. Assess Threat of Raccoons--A New Predator in Voyageurs National Park. Funding for \$22,971 from National Park Service Natural Resource Preservation Program for 2014-2015.
14. **S. K. Windels.** 2012. Determine Status of Recently-Delisted Gray Wolves in Voyageurs National Park. Funding for \$24,850 from National Park Service Natural Resource Preservation Program for 2013-2014.
15. R. Moen, L. Frelich, and **S. K. Windels.** 2012. Climate change adaptation planning for northern forest ecosystems in the Great Lakes National Parks. Funding for \$466,420 from National Park Service for 2013-15.
16. **S. K. Windels.** 2011. Characteristics of moose bedding sites and implications for relieving thermal stress. Funding for \$2250 from Great Lakes Research and Education Center for 2012.
17. **S. K. Windels.** 2011. Moose on the Loose: Connecting Real-Time Research with Visitor Education. Funding for \$5000 from Friends of Voyageurs National Park for 2011.
18. J. Wiener, R. Tyser, T. Custer, C. Custer, and **S. K. Windels.** 2010. Methylmercury exposure in songbirds in mercury-sensitive landscapes in Voyageurs National Park. Funding for \$110,000 from National Park Service Air Quality-Ecological Effects program for 2012-2014.
19. **S. K. Windels.** 2010. Assess impacts of lead tackle on loons, eagles, and waterbirds in Voyageurs National Park. Funding for \$19,940 from National Park Service Natural Resource Preservation Program for 2011-2012.
20. R. Moen, **S. K. Windels,** and M. Nelson. 2009. Investigate effects of climate change and other factors on population viability of moose in Voyageurs National

- Park. Funding for \$307,000 from USGS-NPS Natural Resource Preservation Program for 2009-2012.
21. **S. K. Windels**, and J. Belant. 2009. Investigate threats to moose from sympatric white-tailed deer. Funding for \$18,000 from National Park Service Natural Resource Preservation Program for 2009-2010.
 22. **S. K. Windels**, W. Reed, and J. Randa. 2009. Diet composition of breeding double-crested cormorants (*Phalacrocorax auritus*) on Rainy Lake, Canada. Funding for \$4,000 from Ontario Ministry of Natural Resources for 2009.
 23. **S. K. Windels**. 2009. Investigation of double-crested cormorants in the Voyageurs National Park area: population characteristics, foraging ecology, and diet. Funding for \$2,000 from Rainy Lake Conservancy for 2008-2009.
 24. **S. K. Windels**. 2008. Investigation of double-crested cormorants in the Voyageurs National Park area: population characteristics, foraging ecology, and diet. Funding for \$18,000 from National Park Service Natural Resource Preservation Program for 2008-2009.
 25. L. Kallemeyn, and **S. K. Windels**. 2008. Assessing the Effects of the Namakan Reservoir Operations on Lake Sturgeon Ecological Habitats. Funding for \$295,000 from National Park Service Natural Resource Preservation Program for 2008-2011.
 26. T. Wolf, and **S. K. Windels**. 2007. Prevalence of tularemia and other diseases in a unharvested beaver population. Funding for \$2,500 from Minnesota Zoo, Ulysses S. Seal Conservation Grant Program for 2007-2008.
 27. R. Moen, and **S. K. Windels**. 2007. Improve limited knowledge of Canada lynx in Voyageurs National Park. Funding for \$49,000 from National Park Service, Biological Resource Management Division – Competitive for 2007-2009.
 28. **S. K. Windels**. 2007. Bias assessment of a new beaver population estimation method. Funding for \$2,500 from Voyageurs National Park Association for 2007.
 29. **S. K. Windels**. 2007. Census beavers in Voyageurs National Park. Funding for \$13,000 from National Park Service Natural Resource Preservation Program for 2007-2008.
 30. **S. K. Windels**, G. Host, P. Meysembourg, and E. Beever. 2006. A comparison of recent and historic landscape changes by beaver activity in Voyageurs National Park, 1927-2005. Funding for \$28,000 from National Park Service – Great Lakes Inventory and Monitoring Program for 2006-2009.
 31. **S. K. Windels**, and J. Snyder. 2005. Scanning, georeferencing, and mapping the 1927 photography set for Voyageurs National Park. Funding for \$31,000 from National Park Service – Great Lakes Inventory and Monitoring Program for 2005-2007.
 32. S. Travis, J. Marburger, and **S. K. Windels**. 2004. The role of hybridization in cattail (*Typha* spp.) invasions of freshwater wetlands in Great Lakes National Parks. Funding for \$70,000 from USGS Park Oriented Biological Support for 2004-2006.
 33. **S. K. Windels**. 2002. Changes in Canada yew distribution and structure in northern Wisconsin: 1992-2002. Funding for \$2,000 from Chequamegon-Nicolet National Forest for 2002.

34. **S. K. Windels.** 2002. Changes in Canada yew distribution and structure in northern Wisconsin: 1992-2002. Funding for \$2,000 from Wisconsin Academy of Arts, Sciences, and Letters- Lois Almon Grant for 2002.
35. **S. K. Windels,** and D. Flaspohler. 2001. The ecology of Canada yew and associated vertebrate communities. Funding for \$10,000 from Michigan Department of Natural Resources- Natural Heritage Grants Program for 2001-2003.
36. **S. K. Windels,** and D. Flaspohler. 2001. The ecology of Canada yew and associated vertebrate communities. Funding for \$1,850 from The Nature Conservancy - Michigan for 2001-2002.
37. **S. K. Windels,** and P. Jordan. 1994-1996. Winter moose browsing on balsam fir in relation to available hardwood browse at Isle Royale National Park, Michigan. Funding for a combined \$5,350 from University of Minnesota Undergraduate Research Grant Program for 1994-1996.
38. **S. K. Windels,** and J. Kitts. 1993. Feeding and visitation rates of double-crested cormorants and American white pelicans on aquaculture ponds. Funding for \$3,000 from Minnesota Department of Agriculture for 1993.

TEACHING /LECTURE EXPERIENCE

Instructor, Department of Interior ITAP Program, Sultanate of Oman (March 2012)

Instructor, Department of Interior ITAP Program, Tanzania (September 2010)

Adjunct Instructor, Introduction to Ecology (3cr lecture + 1 cr lab), Department of Biology, Northern Michigan University, Marquette, MI. (2002)

Guest lecturer for various ecology and natural resource management courses at Texas A&M University-Kingsville, Antonio Narro University (Mexico), Michigan Technological University, Northern Michigan University, St. Cloud State University, and Lakehead University (Canada) (1998-2006)

GRADUATE STUDENT ADVISING (Year of graduation noted for completed students).

1. Tom Gable, Ph.D. Student, University of Minnesota-Twin Cities (co-advisor with Joseph Bump). "The Forgotten Prey of an Iconic Predator: Wolf-Beaver Interactions in a Southern Boreal Ecosystem." 2020.
2. Austin Homkes, M.S. Student, Northern Michigan University (co-advisor with John Bruggink). "Wolf predation behavior on white-tailed deer fawns." 2021.
3. Sean Johnson-Bice, M.S. Student, University of Minnesota-Duluth. 2019. "Spatio-temporal patterns in American beaver abundance along Minnesota's North Shore."
4. Tom Gable, M.S. Student, Northern Michigan University (co-advisor with John Bruggink). 2016. "Wolf predation: description of beaver kill sites and confronting the biases in scat-based diet studies."
5. Bryce Olson, M.S. Student, Bemidji State University (co-advisor with Mark Fulton). 2013. "Modeling the thermal landscape for moose in Voyageurs National Park."

SERVICE ON GRADUATE STUDENT COMMITTEES (Year of graduation noted for completed students).

1. Krystal Rancourt, M.S. Student, Lakehead University. 2016. "Chronicling 30 years of moose (*Alces alces*) population trends and forest harvesting in Ontario, Canada". (External Examiner).
2. Maddy Cochrane, M.S. Student, University of Minnesota-Duluth. 2016. "Movement ecology of wood turtles in Minnesota."
3. Kevin Morrison, M.S. Student, Bemidji State University. "Effect of bait type on carnivore detection rates." (*student withdrew from program*)
4. David Morris, M.S. Student, Lakehead University, 2014. "Aquatic habitat use by North American moose (*Alces alces*) and associated richness and biomass of submersed and floating-leaved aquatic vegetation in North-central Minnesota."
5. Tim Cyr, M.S. Student, University of Minnesota-Duluth, 2014. "Moose risk of *P. tenuis* (brainworm) infection in Minnesota."
6. Rachel Ward, M.S. Student, University of Minnesota-Duluth. 2014. "Moose browsing ecology in Minnesota."
7. William Chen, PhD Student, University of Minnesota-Duluth. "Moose foraging ecology and habitat use in Voyageurs National Park." (*student withdrew from program*)
8. Jacob Randa, M.S., North Dakota State University. 2012. "The effects of diet on double-crested cormorant chick health."
9. Matthew Lebron, M.S., Lakehead University. 2012. "Development of a habitat suitability model for Lake Sturgeon (*Acipenser fulvescens*) feeding in lakes."
10. William Severud, M.S., Northern Michigan University. 2011. "The effect of predator avoidance on beaver diet and fitness."
11. Douglas Vincent, M.S., Lakehead University. 2009. "The effect of predatory risk on foraging activities of the North American beaver (*Castor canadensis*)."

MENTORSHIP OF STUDENT RESEARCH AT VOYAGEURS NAT'L PARK

1. Olivia Yaskovitch, B.Sc. Honors, Lakehead University. 2016. "Beaver conflicts in forest management in Ontario and Saskatchewan."
2. Matthew Lebron, B.Sc. Honors, Lakehead University. 2009. "Lodge exposure and preferred forage areas: influence on beaver family persistence at lodge sites."
3. Marsha-Lynn Young, B.Sc. Honors, Lakehead University. 2011. "Aquatic plant succession and food availability for moose in beaver ponds."
4. H  l  ne de Paoli, M.S. Student, Universit   de Pau et des Pays L'Adour (France): "Beavers: survey and effects on vegetation." (with B. McLaren)
5. Laurent Gaillard, M.S. Student, Universit   de Pau et des Pays L'Adour (France): "Habitat selection by beaver (*Castor canadensis*) in lodge establishment and an assessment of several environmental factors on beaver condition at Voyageurs National Park (Minnesota, USA)." (with B. McLaren)
6. Andrew Nadeau, B.S. Honors, St. Mary's University: "A synthesis and analysis of the great blue heron (*Ardea herodias*) monitoring program in Voyageurs National Park."

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Minnesota Chapter of The Wildlife Society (2003-present)
 - President-elect (2013)
 - President (2014)
 - Past-President (2015)
 - Chair, Awards Committee (2019-present)
 - Founding Member, Nontoxic Working Group
- The Wildlife Society (1996-present)
 - Associate Editor –Journal of Wildlife Management (2014-2019)
 - Associate Editor – Book Reviews, Journal of Wildlife Management (2011-2013)
 - Caesar Kleberg Award Committee (2011-2012)
 - Restoration Working Group (1997-2018)
 - Chair-elect (2001-2002)
 - Chair (2002-2003)
 - Past-Chair (2003-2004)
 - Newsletter Editor (1999-2004)
 - Steady State Working Group (2000-2018)
 - Reviewer, Journal of Wildlife Management
- Alces (2012-present)
 - Associate Editor (2015-present)
 - Reviewer, Alces
- American Society of Mammalogists (1996-1999, 2009-present)
 - Reviewer, Journal of Mammalogy
- Natural Areas Association (2004-2015)
 - Associate Editor - Wildlife Ecology, Natural Areas Journal (2012-2015)
 - Reviewer, Natural Areas Journal

CONFERENCE/SYMPOSIA/WORKSHOP PLANNING

- 54th North American Moose Conference and Workshop (2021-virtual)
 - Chair, Organizing Committee
- 1st Heart of the Continent Partnership Science Symposium (2016)
 - Co-Chair, Organizing Committee
- 2016 Annual Meeting of the Minnesota Chapter of The Wildlife Society (2016)
 - Member, Organizing Committee
- 2015 Joint Meeting of the Minnesota Chapter of The Wildlife Society and Wisconsin Chapter of The Wildlife Society (2015)
 - Member, Organizing Committee
- 2014 Annual Meeting of the Minnesota Chapter of The Wildlife Society (2014)
 - Chair, Organizing Committee
- 20th The Wildlife Society Conference (2013)
 - Co-organizer, Moose Management and Research in Midwest Symposium
- 141st American Fisheries Society Conference (2012)
 - Co-organizer, Cormorant-Fisheries Interactions Symposium
- 71st Midwest Fish and Wildlife Conference (2010)
 - Co-organizer, Cormorant Ecology and Management Symposium
- 45th North American Moose Conference and Workshop (2010)

- Co-Chair/Host, Organizing Committee
- Cormorant Management and Research in Minnesota and Ontario Workshop (2010)
 - Organizer/Host

INVITED SEMINARS AND CONFERENCE PRESENTATIONS (does not include ≥ 100 instances where I was co-author but non-presenter)

1. **Windels, S.K.** et al. Detachment, dispersal, and destinations of floating cattail mats in large lake environments. International Rainy-Lake of the Woods Watershed Forum. Feb 2022.
2. **Windels, S.K.** et al. Do muskrats eat hybrid cattail? Minnesota Chapter of The Wildlife Society, Willmar, MN, Feb 2020.
3. **Windels, S.K.** Thinking Like a Pond: Beavers and Watershed Management in the Western Great Lakes. UMN Sustainable Forests Education Cooperative 2020 Webinar Series. January 21, 2020.
4. **Windels, S.K.** Challenges and opportunities for managing wolves in protected areas: a case study from Minnesota, USA. The Wolf in Europe Symposium, Halberstadt, Germany, April 2019.
5. **Windels, S.K.** Six degrees of beaver ecology: collaborations on an ecosystem engineer. Departmental Seminar Series, Department of Fisheries, Wildlife, and Conservation Biology, University of Minnesota, St. Paul, Minnesota, Nov 2018.
6. **Windels, S.K.** Why walk when you can swim? Long distance dispersal in American beavers. 8th International Beaver Congress, Norre Vosborg, Denmark, Sep 2018. <https://8ibs.dk/>
7. **Windels, S.K.** et al. Wolf-beaver interactions: current insights and future directions. 8th International Beaver Congress, Norre Vosborg, Denmark, Sep 2018. <https://8ibs.dk/>
8. **Windels, S.K.** et al. Patterns of wolf predation on ungulate neonates in Minnesota. North American Moose Conference and Workshop, Spokane, WA, May 2018.
9. **Windels, S.K. and C.A. Johnston.** Beavers as engineers of wildlife habitat. Lake of the Woods Water Quality Forum, International Falls, MN, March 2018. March 2018.
10. **Windels, S.K.** et al. Interactions between osprey and bald eagles. Minnesota Chapter of The Wildlife Society, St. Cloud, MN, Feb 2018.
11. **Windels, S.K.** Fight! Fight! Fight! Tail wounds as indicators of agonistic behavior in America beavers. Annual Meeting of The Wildlife Society, Albuquerque, NM, September 2017.
12. **Windels, S.K.** Beavers in lakes? Are they really that different from beavers in ponds? Departmental Seminar, Department of Forest and Wildlife Ecology, University of Wisconsin-Madison, March 2017.
13. **Windels, S.K.** Fight! Fight! Fight! Tail wounds as indicators of agonistic behavior in America beavers. Annual Meeting of Minnesota Chapter of The Wildlife Society, Detroit Lakes, Minnesota, February 2017.
14. **Windels, S.K.** Why walk when you can swim? Long distance dispersal in American beavers. Midwest Furbearers Workshop, Ely, Minnesota, May 2016.

15. **S.K. Windels**, J.B. Smith, T. Wolf, R. Klaver, and J.L. Belant. 2016. Do transmitters affect fitness indices of American beavers. Midwest Furbearers Workshop, Ely, Minnesota, May 2016.
16. **S.K. Windels** and B.T. Olson. Wolves in Voyageurs National Park: Project Update. Annual Meeting of Midwest Wolf Stewards, Grand Rapids, MN, April 2016.
17. **S.K. Windels**, J.B. Smith, T. Wolf, R. Klaver, and J.L. Belant. 2016. Do transmitters affect fitness indices of American beavers. Annual Meeting of The Minnesota Chapter of The Wildlife Society, Mankato, Minnesota, February 2016.
18. **Windels, S.K.** Why walk when you can swim? Long distance dispersal in American beavers. Annual Meeting of The Wildlife Society, Winnipeg, Manitoba, October 2015.
19. Smith, J.B., **S.K. Windels**, T. Wolf, R. Klaver, and J.L. Belant. 2016. Do transmitters affect fitness indices of American beavers. Annual Meeting of The Wildlife Society, Winnipeg, Manitoba, October 2015.
20. **Windels, S.K.** 2015. Effects of water level management on loons. Lake of the Woods Water Quality Forum, International Falls, MN, March 2015. March 2015.
21. **Windels, S.K.** 2015. Beaver lodge site selection in lake environments. Lake of the Woods Water Quality Forum, International Falls, MN, March 2015. March 2015.
22. **Windels, S.K.** 2015. Beaver lodge site selection in lake environments. Joint Annual Meeting of Minnesota and Wisconsin Chapters of The Wildlife Society, February 2015.
23. **Windels, S.K.** 2015. Dispersal and habitat selection by beavers in lake systems. Invited Seminar, Department of Biology, University of Minnesota-Duluth, February 2015.
24. **Windels, S.K.** 2014. The wildlife of Voyageurs National Park. Invited Speaker, Our World Speaker Series, Minnesota Zoo, Apple Valley, MN, November 2014.
25. **Windels, S.K.** 2014. Furs, Fangs, and Feathers - The Wildlife of Voyageurs National Park. Plenary Speaker, Annual meeting of the Voyageurs National Park Association, November 2014.
26. **Windels, S.K.** 2014. Beaver management in forest landscapes: opportunities for coexistence. Forest Management Workshop, Minnesota Chapter of The Wildlife Society, August 2014.
27. **Windels, S.K.** 2014. Hydrologically-connected systems facilitate long-distance dispersal in beavers. 94th Meeting of the American Society of Mammalogists, Oklahoma City, June 2014.
28. **Windels, S.K.**, and J.Waribold. 2014. Lost and discarded fishing tackle in Voyageurs National Park: Implications for piscivorous birds. Lake of the Woods Water Quality Forum, International Falls, MN, March 2014.
29. **Windels, S.K.** 2013. Lessons from a small, isolated moose population along the southern extent of moose range. Invited speaker. Minnesota Moose Research Meeting, December 2013.
30. **Windels, S.K.** 2013. Lessons from a small, isolated moose population along the southern extent of moose range. Invited speaker. Moose Health: Management Challenges with Growing Ungulate Populations, Uppsala, Sweden, October 2013.

31. **Windels, S.K.** 2013. Long-distance dispersal by beavers is facilitated in hydrologically connected systems. Lake of the Woods Water Quality Forum, International Falls, MN, March 2013.
32. **Windels, S.K.** 2012. Bald eagles as agents of cormorant control. 142nd American Fisheries Society Meeting, Minneapolis, MN, August 2012 (oral presentation).
33. **Windels, S.K.** 2011. Bald eagles as agents of cormorant control. Raptor Research Meeting, Duluth, MN, October 2011 (oral presentation).
34. **Windels, S.K.** 2011. Bald eagles as agents of cormorant control. The Wildlife Society-Canada Section Meeting, Thunder Bay, ONT, September 2011 (oral presentation).
35. **Windels, S.K.** 2011. Ancient freshwater giants of the Namakan. Voyageurs National Park Association Annual Meeting, April 2011 (scheduled oral presentation)
36. **Windels, S.K.** 2010. Bald eagles as agents of cormorant control. 71st Midwest Fish and Wildlife Conference, December 2010 (oral presentation)
37. **Windels, S.K.** 2010. Monitoring the ecological effects of lake level management on Voyageurs National Park using beavers (*Castor canadensis*). 71st Midwest Fish and Wildlife Conference, December 2010 (oral presentation)
38. **Windels, S.K.** 2010. Monitoring the ecological effects of lake level management on Voyageurs National Park using beavers (*Castor canadensis*). 24th Annual Meeting of the Society for Conservation Biology, July 2010 (poster presentation).
39. **Windels, S.K.** 2010. Moose research in Voyageurs National Park – Past and Present. 45th North American Moose Conference and Workshop, June 2010 (oral presentation).
40. **Windels, S.K.** 2010. The role of mammalian herbivores in structuring biological communities. University of North Dakota Department of Biology Departmental Seminar, April 2010 (oral presentation).
41. **Windels, S.K.**, and L. Grim. 2010. Double-crested cormorant survival, movements, and habitat use in Voyageurs National Park Area. Cormorant Ecology and Management in Minnesota and Ontario Workshop, March 2010 (oral presentation).
42. **Windels, S.K.** 2010. Double-crested cormorant survival, movements, and habitat use in Voyageurs National Park Area. MN Chapter of The Wildlife Society, February 2010 (oral presentation).
43. **Windels, S.K.** 2010. The role of herbivory in the decline of Canada yew, an important understory plant. Lakehead University Department of Forestry Departmental Seminar, January 2010 (oral presentation).
44. **Windels, S.K.** 2009. Monitoring the ecological effects of lake level management on Voyageurs National Park using beavers (*Castor canadensis*). 7th Annual Western Great Lakes Research Conference, Ashland, WI (oral presentation).
45. **Windels, S.K.** 2009. Monitoring the ecological effects of lake level management on Voyageurs National Park using beavers (*Castor canadensis*). Lake of the Woods Water Quality Forum, International Falls, MN (oral presentation).
46. **Windels, S.K.**, S. Shaw, S. Chipps, D. Willis, and D. McLeod. 2009. Lake Sturgeon population characteristics, movements, and habitat use in the Namakan

- Reservoir: preliminary results. 6th Annual Lake of the Woods Water Quality Forum, International Falls, MN (oral presentation).
47. **Windels, S.K.**, and D. McLeod. 2009. Sturgeon research in the Namakan Reservoir. Heart of the Continent Project, January 2009 (oral presentation).
 48. **Windels, S.K.** 2008. The role of herbivory in the decline of Canada yew, an important understory plant. North Dakota State University Biology Departmental Seminar, October 2008 (oral presentation).
 49. **Windels, S.K.** 2008. The ecology of Canada yew (*Taxus canadensis* Marsh.): a declining species. Michigan Technological University, School of Environmental Science and Forest Resources Seminar, September 2008 (Dissertation Seminar).
 50. **Windels, S.K.**, S.E. Travis, and J. Marburger. 2007. Using Genetics to Investigate the Role of Hybridization in the Spread of Cattail (*Typha* spp.) in Voyageurs National Park. George Wright Society Biennial Conference, St. Paul, MN, April 2007 (poster presentation).
 51. **Windels, S.K.**, S.E. Travis, and J. Marburger. 2007. Using Genetics to Investigate the Role of Hybridization in the Spread of Cattail (*Typha* spp.) in Voyageurs National Park. 4th Annual Lake of the Woods Water Quality Forum, International Falls, Minnesota, March 2007 (poster presentation).
 52. **Windels, S.K.**, J. Marburger, and D. Mason. 2007. Ecology and management of *Typha* (Cattail) Invasions in the Great Lakes Region. 4th Annual Lake of the Woods Water Quality Forum, International Falls, Minnesota, March 2007 (poster presentation).
 53. **Windels, S.K.** 2006. Beaver monitoring and research in Voyageurs National Park: past, present, and future. 2006 Midwest Fish and Wildlife Conference, Omaha, Nebraska, December 2006, (oral presentation).
 54. **Windels, S.K.**, S.E. Travis, and J. Marburger. 2005. Investigating the role of genetics in the spread of cattail (*Typha* spp.) in three Great Lakes National Parks. North American Lake Management Society Conference, Madison, WI (poster presentation).
 55. **Windels, S.K.**, L.W. Kallemeyn, R.Maki, and C. Holbeck . 2005. A multidisciplinary approach to monitoring ecological effects of lake level management on Voyageurs National Park. 4th Annual Western Great Lakes Research Conference, Marquette, MI, March 2005 (oral presentation).
 56. **Windels, S.K.**, J. Marburger, and D. Mason. 2005. *Typha* (Cattail) Invasions in the Great Lakes Region: Why Is It Happening and What Can We Do About It? 4th Annual Western Great Lakes Research Conference, Marquette, MI, March 2005 (poster presentation).
 57. **Windels, S.K.**, W.E. Adams, L.W. Kallemeyn, and D. Willis. 2005. Sturgeon movements in Rainy Lake, Voyageurs National Park. ManOMin Conference, International Falls, MN (oral presentation).
 58. **Windels, S.K.**, L.W. Kallemeyn, R.Maki, and C. Holbeck. 2004. Monitoring Ecological Effects of Lake Level Management in Voyageurs National Park. 3rd Annual Western Great Lakes Research Conference, St. Paul, MN, March 2004 (poster presentation).

59. **Windels, S.K.**, and D.J. Flaspohler. 2002. Life on the edge: white-tailed deer browsing patterns on Canada yew. The Wildlife Society Conference, Bismarck, ND, September 2002 (oral presentation).
60. **Windels, S.K.**, and D.J. Flaspohler. 2002. Potential cascading trophic effects related to the decline of Canada yew in the Upper Great Lakes region: 2001. Preliminary Results. Western Great Lakes National Parks Research Conference, Marquette, MI, March 2002 (poster presentation).
61. **Windels, S.K.**, and D.J. Flaspohler. 2001. Potential cascading trophic effects related to the decline of Canada yew in the Upper Great Lakes region: 2001. Preliminary Results. The Wildlife Society Conference, Reno, NV, September 2001 (poster presentation).
62. **Windels, S. K.**, D.G. Hewitt, and T. D. A. Forbes. 2000. Effects of aeration on phenolic amine content of guajillo. The Wildlife Society Conference, Nashville, TN, September 2000 (poster presentation).
63. **Windels, S. K.**, and D. G. Hewitt. 2000. White-tailed deer nutritional carrying capacity models for treated brushlands of northeastern Mexico incorporating antinutritional effects of plant tannins. The Wildlife Society Conference, Nashville, TN September 2000 (poster presentation).
64. **Windels, S. K.**, and D. G. Hewitt. 1998. Effects of roller-chopping on a rodent community in northern Mexico. Texas Chapter of the Wildlife Society, Corpus Christi, Texas. (oral presentation).
65. **Windels, S. K.**, D. G. Hewitt, and F. J. Heredia. 1997. Los efectos de manejo de matorral sobre la abundancia y diversidad de los roedores en el norte Mexico: resultados preliminares. (Effects of brush management on diversity and abundance of rodents in northern Mexico: preliminary results). 3rd Mexican Congress on Forest Resources, Linares, Nuevo Leon, Mexico (oral presentation).
66. **Windels, S. K.**, and P. A. Jordan. 1997. Patterns of moose browsing on balsam fir on Isle Royale: Effects of secondary compounds? 4th International Moose Symposium, Fairbanks, Alaska, August 1997 (oral presentation).

OTHER LECTURES / PUBLIC PRESENTATIONS

1. **Windels, S.K.** 2017. Bald eagle management in Voyageurs National Park, Voyageurs National Park Association Pints for the Park event, October 2017 (scheduled oral presentation).
2. **Windels, S.K.** 2011. Department of Interior ITAP Program- Tanzania. Presentation to Crooston Noonday Lions Club, March 2011 (scheduled oral presentation).
3. **Windels, S.K.** 2011. Department of Interior ITAP Program- Tanzania. Presentation to Integrated Natural Resource Management Class, University-of Minnesota-Crookston, March 2011 (scheduled guest lecture).
4. **Windels, S.K.** 2010. Department of Interior ITAP Program- Tanzania. International Falls Rotary Club, November 2010 (oral presentation).
5. **Windels, S.K.** 2002. Ecology of Canada Yew in Michigan. Ecology of Northern Forests class, Northern Michigan University, September 2002 (guest lecture)

6. **Windels, S.K.** 2001. Plant-Animal Interactions – lecture to Conservation Biology class at Michigan Technological University, Houghton, MI, February 2001 (guest lecture)
7. **Windels, S.K.** 2001. The Decline Of Canada Yew In The Great Lakes Region: Implications For Bird Conservation. Laughing Whitefish Audubon Society, Marquette, MI, April 2001 (oral presentation)
8. **Windels, S.K.** 2000. Effects of Aeration on a Rodent Community in Northern Mexico. Graduate student seminar series, Michigan Technological University, October 2000 (oral presentation)
9. **Windels, S.K.** 1998. Effects of Brush Management on Vegetation and Non-target Species. Antonio Narro University (Coahuila, Mexico) agronomy class (guest lecture and field tour in Spanish).
10. **Windels, S.K.** 1998. Predator-Prey Relationships. Ecology and Management of Big Game class at Texas A&M University – Kingsville (guest lecture)