## **Literature Cited & Consulted**

- Abrams, M. 1992. Fire and the Development of Oak Forests. Bioscience 42:346-353.
- Alexander, H. D. and M. A. Arthur. 2010. Implications of a predicted shift from upland oaks to red maple on forest hydrology and nutrient availability. Canadian Journal of Forest Research **40**:716-726.
- Ansley, R. J. and M. J. Castellano. 2006. Strategies for savanna restoration in the southern great plains: effects of fire and herbicides. Restoration Ecology **14**:420-428.
- Arborist Site. 2009. Forestry Mowing. Online Discussion Forum: Accessed January 20, 2013. <a href="http://www.arboristsite.com/forestry-logging-forum/107933.htm">http://www.arboristsite.com/forestry-logging-forum/107933.htm</a>.
- Auclair, A. N. 1976. Ecological factors in the development of intensive-management systems in the Midwestern United States. Ecology **57**:431-444.
- Bailey, D. W. and J. R. Brown. 2011. Rotational grazing systems and livestock grazing behavior in shrub-dominated semi-arid and arid rangelands. Rangeland Ecology & Management **64:**1-9.
- Barnes, M. K., B. E. Norton, M. Maeno, and J. C. Malechek. 2008. Paddock size and stocking density affect spatial heterogeneity of grazing. Rangeland Ecology & Management **61**:380-388.
- Batten, G. J. 1979. Controlling scrub weeds with goats. Pages 292-296 in Proceedings of the 32nd New Zealand Weed and Pest Control Conference.
- Benkobi, L., M. J. Trlica, and J. L. Smith. 1993. Soil loss as affected by different combinations of surface litter and rock. Journal of Environmental Quality **22:**657-661.
- Bowles, M. L. and J. L. McBride. 1998. Vegetation composition, structure, and chronological change in a decadent midwestern North American savanna remnant. Natural Areas Journal **18:**14-27.
- Bowles, M. L., K. A. Jacobs, and J. L. Mengler. 2007. Long-term changes in an oak forest's woody understory and herb layer with repeated burning. Journal of the Torrey Botanical Society **134:**223-237.
- Boyazoglu, J., P. Morand-Fehr, and I. Hatziminaoglou. 2005. The role of the goat in society: past, present and perspectives for the future. Small Ruminant Research **60**:13-23.
- Brady, N. C. and R. R. Weil. 2009. Elements of the Nature and Properties of Soil. Edition 3. Prentiss Hall, Upper Saddle River, New Jersey.

- Briggs, H. M. and F. W. Beal. 1940. Angora goat management in Oklahoma. Oklahoma Agricultural Experimental Station Bulletin 367.
- Brock, J. H. 1988. Livestock: Biological control in brush/weed management programs. Rangelands **10**:32-34.
- Brudvig, L. A. and H. Asbjornsen. 2007. Stand structure, composition, and regeneration dynamics following removal of encroaching woody vegetation from midwestern oak savannas. Forest Ecology and Management **244:**112-121.
- Brudvig, L. A. 2010. Woody encroachment removal from midwestern oak savannas alters understory diversity across space and time. Restoration Ecology **18:**74-84.
- Brudvig, L. A. and H. Asbjornsen. 2009. The removal of woody encroachment restores biophysical gradients in midwestern oak savannas. Journal of Applied Ecology **46:**231-240.
- Brudvig, L. A., C. M. Mabry, and L. M. Mottl. 2011. Dispersal, not understory light competition, limits restoration of Iowa woodland understory herbs. Restoration Ecology **19:**24-31.
- Bullock, D. J. 1985. Annual diets of hill sheep and feral goats in southern Scotland. Journal of Applied Ecology **22**:423-433.
- Clark, D. A., M. G. Lambert, M. P. Rolston and N. Dymock. 1982. Diet selection by goats and sheep on hill country. Pages 155-158 in Proceedings of the 42nd New Zealand Society of Animal Production.
- Cochrane, T. S. and H. H. Iltis. 2000. Atlas of the Wisconsin prairie and savanna flora. Wisconsin Department of Natural Resources, Madison, Wisconsin.
- Curtis, J. T. 1959. The vegetation of Wisconsin; an ordination of plant communities. University of Wisconsin Press, Madison, Wisconsin.
- Daubenmire, R. 1959. A canopy-coverage method of vegetational analysis. Northwest Science **33:**42-64.
- Davis, G. G., L. E. Bartel, and C. W. Cook. 1975. Control of gambel oak sprouts by goats. Journal of Range Management **28:**216-218.
- Decagon Devices Inc. 2010. AccuPAR Model LP-80 Operator's Manual Version 10.
- DICKEY-john Corporation. 1987. Soil Compaction Tester.

- Dziba, L. E., P. F. Scogings, I. J. Gordon, and J. G. Raats. 2003. The feeding height preferences of two goat breeds fed Grewia occidentalis L. (Tiliaceae) in the Eastern Cape, South Africa. Small Ruminant Research **47:**31-38.
- Ela, J. 2012. Opportunities for livestock grazing and conservation: managed goat browsing in midwestern oak openings. Masters thesis. University of Wisconsin-Madison, Madison, Wisconsin.
- Fleischner, T. L. 1994. Ecological costs of livestock grazing in western North America. Conservation Biology **8:**629-644.
- Folley, B. 2012. Personal communication with Katherine Baumann.
- Foster, B. L. and D. Tilman. 2003. Seed limitation and the regulation of community structure in oak savanna grassland. Journal of Ecology **91:**999-1007.
- Fraps, G. and V. Cory. 1940. Composition and utilization of range vegetation of Sutton and Edwards counties. Texas Agricultural Experiment Station Bulletin **586:**1-39.
- Freeman, J. E. and S. Jose. 2009. The role of herbicide in savanna restoration: effects of shrub reduction treatments on the understory and overstory of a longleaf pine flatwoods. Forest Ecology and Management **257**:978-986.
- Fuhlendorf, S. D., F. E. Smeins, and C. A. Taylor. 1997. Browsing and tree size influences on ashe-juniper understory. Journal of Range Management **50:**507-512.
- Google Maps. 2012. Yellowstone Wildlife Area, Darlington, Wisconsin.
- Hajny, K. M., D. C. Hartnett, and G. W. T. Wilson. 2011. Rhus glabra response to season and intensity of fire in tallgrass prairie. International Journal of Wildland Fire **20:**709-720.
- Haney, A. and S. Apfelbaum. 1993. Characterization of midwestern oak savannas. Proceedings of the 1993 Midwest Oak Savanna Conference. U.S. Environmental Protection Agency, Great Lakes National Program Office, Chicago, IL. Website: Accessed February 20, 2013. <a href="http://www.epa.gov/ecopage/upland/oak/oak93/haney.htm">http://www.epa.gov/ecopage/upland/oak/oak93/haney.htm</a>
- Harrington, G. 1979. The effects of feral goats and sheep on the shrub populations in a semiarid woodland. Australian Rangeland Journal **1:**334-345.
- Harrington, J. A. and E. Kathol. 2009. Responses of shrub midstory and herbaceous layers to managed grazing and fire in a North American savanna (oak woodland) and prairie landscape. Restoration Ecology **17**:234-244.

- Hart, S. P. 2001. Recent perspectives in using goats for vegetation management in the USA. Journal of Dairy Science **84:**170-176.
- Hart, S. P. 2006. Goats for vegetation management. Langston University Extension E (kika) de la Garza Institute for Goat Research. Web Document: Accessed January 20, 2013. <a href="http://www.luresext.edu/goats/training/vegetation.pdf">http://www.luresext.edu/goats/training/vegetation.pdf</a>>
- Heavy Equipment Forums. 2009. Clearing land: would a forestry chipper be effective? Online Discussion Forum: Accessed January 20, 2013. <a href="http://www.heavyequipmentforums.com/showthread.php?15011-clearing-land-would-aforestry-chipper-be-cost-effective">http://www.heavyequipmentforums.com/showthread.php?15011-clearing-land-would-aforestry-chipper-be-cost-effective</a>.
- Hedtcke, J., J. Posner, M. Rosemeyer, and K. Albrecht. 2009. Browsing for conservation: springtime forage value of midstory shrubs of degraded oak savannas in southern Wisconsin. Renewable Agriculture and Food Systems **24**:293-299.
- Heikens, A. and P. A. Robertson. 1994. Barrens of the Midwest: a review of the literature. Castanea **59:**184-194.
- Heisler, J., J. Briggs, A. Knapp, J. Blair, and A. Seery. 2004. Direct and indirect effects of fire on shrub density and aboveground productivity in a mesic grassland. Ecology **85**:2245-2257.
- Henderson, R. 1995. Oak Savanna Communities. Pages 88-96 *In* J. Addis and C. Blesser, editors. Wisconsin's biodiversity as a management issue: a report to Department of Natural Resource managers, Wisconsin Department of Natural Resources, Madison, WI.
- Hunter, K. 2010. Eliminating invasive buckthorn with goats, an ecological and habitat restoration study. Sustainable Agriculture Research and Education: Report nr FNC08-737.
- Hutchinson, M. D. 1994. The barrens of the Midwest: an historical perspective. Castanea **59:**195-203.
- Jenkins, S. E., M. A. Jenkins. 2006. Effects of prescribed fire on the vegetation of a savannaglade complex in northern Arkansas. Southeastern Naturalist **5:**113-126.
- Jones, B., S. F. Fox, D. M. Leslie, D. M. Engle, and R. L. Lochmiller. 2000. Herpetofaunal Responses to Brush Management with Herbicide and Fire. Journal of Range Management **53:**154-158.
- Kochenderfer, J. D., J. N. Kochenderfer, and G. W. Miller. 2012. Manual Herbicide Application Methods for Managing Vegetation in Appalachian Hardwood Forests. Newtown Square, PA. United States Forest Service: Report nr NRS-96.

- Leach, M. K. and T. J. Givnish. 1999. Gradients in the composition, structure, and diversity of remnant oak savannas in southern Wisconsin. Ecological Monographs **69**:353-374.
- Lewandowski, R. 2010. Use FAMACHA Correctly. Web Page: Accessed December 10, 2012. <a href="http://sheep.osu.edu/2010/06/16/373/">http://sheep.osu.edu/2010/06/16/373/</a>.
- Lorimer, C. G. 2003. The decline of oak forests. Bioscience 53:915-915.
- Luginbuhl, J. M., and M. H. Poore. 1998. Nutrition of Meat Goats. North Caroling State University Extension. Web Page: Accessed December 12, 2012. <a href="http://www.cals.ncsu.edu/an\_sci/extension/animal/meatgoat/MGNutr.htm">http://www.cals.ncsu.edu/an\_sci/extension/animal/meatgoat/MGNutr.htm</a>.
- Luginbuhl, J. M., T. E. Harvey, J. T. Green, M. H. Poore, and J. P. Mueller. 1999. Use of goats as biological agents for the renovation of pastures in the Appalachian region of the United States. Agroforestry Systems **44**:241-252.
- Lyons, J., B. M. Weigel, L. K. Paine, and D. J. Undersander. 2000. Influence of intensive rotational grazing on bank erosion, fish habitat quality, and fish communities in southwestern Wisconsin trout streams. Journal of Soil and Water Conservation **55:**271-276.
- MacDougall, A. S. 2005. Responses of diversity and invasibility to burning in a northern oak savanna. Ecology **86:**3354-3363.
- MacDougall, A. S. and R. Turkington. 2006. Dispersal, competition, and shifting patterns of diversity in a degraded oak savanna. Ecology **87:**1831-1843.
- Magadlela, A. M., M. E. Dabaan, W. B. Bryan, E. C. Prigge, J. G. Skousen, G. E. D'Souza, B. L. Arbogast, and G. Flores. 1995. Brush clearing on hill land pasture with sheep and goats. Journal of Agronomy and Crop Science **174**:1-8.
- McCarron, J. K. and A. K. Knapp. 2003. C3 shrub expansion in a C4 grassland: positive post-fire responses in resources and shoot growth. American Journal of Botany **90:**1496-1501.
- McGranahan, D. A. 2011. Species richness, fire spread, and structural heterogeneity in tallgrass prairie. Dissertation. Iowa State University, Ames, Iowa.
- McMahan, C. A. 1964. Comparative food habits of deer and three classes of livestock. The Journal of Wildlife Management **28:**798-808.
- Mudrey, J. M. G., B. A. Brown, and J. K. l. Greenberg. 1982. Bedrock Geologic Map of Wisconsin. University of Wisconsin-Extension and the Geological and Natural History Survey.

- National Applied Resource Sciences Center. 1999. Sampling vegetation attributes: interagency technical reference. Bureau of Land Management.
- Natural Resources Conservation Service. 2011. Web Soil Survey. Web Page: Accessed October 14, 2012. <a href="http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx">http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx</a>.
- Nowacki, G. J. and M. D. Abrams. 2008. The demise of Fire and "Mesophication" of Forests in the Eastern United States. Bioscience **58**:123-138.
- Nuzzo, V. A. 1986. Extent and status of Midwest oak savanna: presettlement and 1985. Natural Areas Journal **6**:6-36.
- Packard, S. and J. Balaban. 1994. Restoring the herb layer in degraded bur oak "closed" savanna. Proceedings of the North American Conference on Savannas and Barrens. Illinois State University, Normal, Illinois. Website: Accessed February 20, 2013. <a href="http://www.epa.gov/ecopage/upland/oak/oak94/Proceedings/Packard.html">http://www.epa.gov/ecopage/upland/oak/oak94/Proceedings/Packard.html</a>
- Papachristou, T. G. and A. S. Nastis. 1993. Diets of goats grazing oak shrublands of varying cover in northern Greece. Journal of Range Management **46**:220-226.
- Papanastasis, V. P. 2009. Restoration of degraded grazing lands through grazing management: can it work? Restoration Ecology **17**:441-445.
- Pavlovic, N. B. and R. Grundel. 2009. Reintroduction of wild lupine (Lupinus perennis L.) depends on variation in canopy, vegetation, and litter cover. Restoration Ecology **17**:807-817.
- Perevolotsky, A. and Y. Haimov. 1992. The effect of thinning and goat browsing on the structure and development of Mediterranean woodland in Israel. Forest Ecology and Management **49:**61-74.
- Peterson, D. W. and P. B. Reich. 2001. Prescribed fire in oak savanna: fire frequency effects on stand structure and dynamics. Ecological Applications **11:**914-927.
- Piper, J. K., E. S. Schmidt, and A. J. Janzen. 2007. Effects of species richness on resident and target species components in a prairie restoration. Restoration Ecology **15**:189-198.
- Plessis, I., C. Waal, and E. C. Webb. 2004. A comparison of plant form and browsing height selection of four small stock breeds preliminary results. South African Journal of Animal Science **34**:31-34.
- Popay, I. and R. Field. 1996. Grazing animals as weed control agents. Weed Technology **10:**217-231.

- Ratajczak, Z., J. B. Nippert, J. C. Hartman, and T. W. Ocheltree. 2011. Positive feedbacks amplify rates of woody encroachment in mesic tallgrass prairie. Ecosphere 2:121.
- Ratajczak, Z., J. B. Nippert, and S. L. Collins. 2012. Woody encroachment decreases diversity across North American grasslands and savannas. Ecology **93:**697-703.
- Rathfon, R. and K. Ruble. 2007. Herbicide treatments for controlling invasive bust honeysuckle in a mature hardwood forest in West-Central Indiana. Pages 187-197 in Proceedings of the 15th Central Hardwood Forest Conference. Knoxville, Tennessee.
- Rayer, A. 2013. International meat review: livestock, poultry and grain market news. Des Moines, IA. United States Department of Agriculture Agricultural Marketing Service: Report 17:3.
- Reich, P. B., M. D. Abrams, D. S. Ellsworth, E. L. Kruger, and T. J. Tabone. 1990. Fire affects ecophysiology and community dynamics of Central Wisconsin USA oak forest regeneration. Ecology **71**:2179-2190.
- Riggs, R. A. and P. J. Urness. 1989. Effects of goat browsing on gambel oak communities in northern Utah. Journal of Range Management **42:**354-360.
- Robel, B. 2012. Personal communication with Katherine Baumann.
- Severson, K. E. and L. F. Debano. 1991. Influence of Spanish goats on vegetation and soils in Arizona chaparral. Journal of Range Management **44:**111-117.
- Staffen, A. 2010. Oak savanna state natural area management guide. Wisconsin Department of Natural Resources.
- Stephan, K., M. Miller, and M. B. Dickinson. 2010. First-order fire effects on herbs and shrubs: present knowledge and process modeling needs. Fire Ecology **6:**95-114.
- Stuth, J. W. and P. N. Kamau. 1990. Influence of woody plant cover on dietary selection by goats in an Acacia senegal savanna of East Africa. Small Ruminant Research 3:211-225.
- Tariq, K. A., M. Z. Chishti, and F. Ahmad. 2010. Gastro-intestinal nematode infections in goats relative to season, host sex and age from the Kashmir Valley, India. Journal of Helminthology **84:**93-97.
- Teague, W. R., S. L. Dowhower, S. A. Baker, N. Haile, P. B. DeLaune, and D. M. Conover. 2011. Grazing management impacts on vegetation, soil biota and soil chemical, physical and hydrological properties in tall grass prairie. Agriculture, Ecosystems & Environment 141:310-322.

- Tester, J. R. 1996. Effects of fire frequency on plant species in oak savanna in East-central Minnesota. Torrey Botanical Society. Journal **123**:304-304.
- Tester, J. R. 1989. Effects of fire frequency on oak savanna in East-central Minnesota. Bulletin of the Torrey Botanical Club **116**:134-134.
- Tilman, D. 1997. Community invasibility, recruitment limitation, and grassland biodiversity. Ecology **78:**81-92.
- Toit, P. F. 1972. The goat in a bush-grass community. Pages 46-50 in Proceedings of the 7th Grassland Society of Southern Africa.
- Torpy, C. M., S. J. Muir, G. J. Melville and K. I. Fraser. 1993. Integrated control of the shrub Dodonaea attenuata based on goat grazing and herbicide application. Pages 6-10 in Proceedings II of the 10th Australian Weeds Conference and 14th Asian Pacific Weed Science Society Conference. Brisbane, Australia.
- Tsiouvaras, C. N., N. A. Harlik, and J. W. Bartolome. 1989. Effects of goats on understory vegetation and fire hazard reduction in a coastal forest in California. Forest Science **35**:1125-1131.
- Valderrábano, J. and L. Torrano. 2000. The potential for using goats to control Genista scorpius shrubs in European black pine stands. Forest Ecology and Management **126**:377-383.
- Walker, J., L. Coffey, and T. Faller. 2006. Improving grazing land with multi-species grazing. Pages 50-55 *In* K. Launchbaugh, J. Walker, H. Glimp, and R. Daines, editors. Targeted Grazing: A natural approach to vegetation management and landscape enhancement, ASI, Cottrell Printing, Centennial, Colorado.
- Wilsey, B. J. and H. W. Polley. 2003. Effects of seed additions and grazing history on diversity and productivity of subhumid grasslands. Ecology **84:**920-931.
- Wilson, A. D., J. H. Leigh, N. L. Hindley, and W. E. Mulham. 1975. Comparison of the diets of goats and sheep on a Casuarina cristata-heterodendrum oleifolium woodland community in western New South Wales. Australian Journal of Experimental Agriculture and Animal Husbandry 15:45-53.
- Wisconsin Department of Natural Resources. 2012. Wisconsin's Endangered Resources. Web Page: Accessed December 4, 2012. <a href="http://dnr.wi.gov/topic/EndangeredResources/">http://dnr.wi.gov/topic/EndangeredResources/</a>>.
- Wolf, J. 2004. A 200-year fire history in a remnant oak savanna in southeastern Wisconsin. American Midland Naturalist **152**:201-213.

Xiong, S., C. Nilsson. 1999. The effects of plant litter on vegetation: a meta-analysis. Journal of Ecology **87**:984-994.