

**NATURAL RESOURCE ECOLOGY & MANAGEMENT DEPARTMENT**  
**REFEREED JOURNAL PUBLICATIONS - 2011**

--Bold denotes NREM faculty member

--Asterisk denotes post-doc, graduate student or NREM support staff as senior author

**2011 (Total - 52)**

**Allen, K.P.**, K. Varner and J. Sallee. 2011. Addressing nature deficit disorder through primitive camping experiences. *Journal of Extension* 49(3): 3IAW2.

Allred, B.W. **S.D. Fuhlendorf, D.M. Engle**, and **R.D. Elmore**. 2011. Ungulate preference for burned patches reveals strength of fire-grazing interaction. *Ecology and Evolution* 1: 132-144.

Allred, B.W.\*, **S.D. Fuhlendorf**, and R.G. Hamilton. 2011. The role of herbivores in Great Plains conservation: comparative ecology of bison and cattle behavior. *Ecosphere* 2: 1-17.

Anwar, U.K.M., **S. Hiziroglu**, H. Hamdan, and M. Abd Latif. 2011. Effect of outdoor exposure on some properties of resin treated ply bamboo. *Industrial Crops and Products* 33: 140-145.

**Brewer, S.K.** 2011. Groundwater influences on the distribution and abundance of riverine smallmouth bass, *Micropterus dolomieu*, in pasture landscapes of the Midwestern United States. *River Research and Applications*. doi:10.1002/rra.1595

**Brewer, S.K.** 2011. Patterns of young-of-year smallmouth bass microhabitat use in multiple stream segments with contrasting land uses. *Fisheries Management and Ecology*. doi: 10.1111/j.1365-2400.2011.00806.x

**Brewer, S.K.**, and C.F. Rabeni. 2011. Interactions between natural-occurring landscape conditions and land use influencing the abundance of riverine smallmouth bass, *Micropterus dolomieu*. *Canadian Journal of Fisheries and Aquatic Sciences* 68: 1922-1933.

**Brewer, S.K.**, and M.R. Ellersieck. 2011. Evaluating two observational sampling techniques for determining the distribution and detection probability of age-0 smallmouth bass in clear, warmwater streams. *North American Journal of Fisheries Management* 31: 894-904.

Burton, J.A.\*, S.W. Hallgren, **S.D. Fuhlendorf**, and **D.M. Leslie, Jr.** 2011. Understory response to varying fire frequencies after 20 years of prescribed burning in an upland oak forest. *Plant Ecology* 212: 1513-1525.

Cavalieri, V.S.\*, **T.J. O'Connell**, and **D.M. Leslie, Jr.** 2011. Distribution and habitat affinity of Cerulean Warblers (*Dendroica cerulea*) at the edge of their breeding range in Oklahoma. *Southeastern Naturalist* 10: 167-177.

Debinski, D.M., **R.A. Moranz**, J.T. Delaney, J.R. Miller, **D.M. Engle**, L.B. Winkler, D.A. McGranahan, R.J. Barney, J.C. Trager, A.L. Stephenson, and M.K. Gillespie. 2011. A cross-taxonomic comparison of insect responses to grassland management and land-use legacies. *Ecosphere* 2. Article 131.

Derner, J.D., **K.R. Hickman**, and H.W. Polley. 2011. Decreasing precipitation variability does not elicit aboveground biomass or plant diversity responses in mesic rangeland. *Rangeland Ecology and Management* 64: 352-357.

DeSantis, R.D.\*, **S.W. Hallgren**, and D.W. Stahle. 2011. Drought and fire suppression lead to rapid forest composition change in a forest-prairie ecotone. *Forest Ecology and Management* 261: 1833-1840.

DeSantis, R.D.\*, and **S.W. Hallgren**. 2011. Prescribed burning frequency affects post oak and blackjack oak regeneration. *Southern Journal of Applied Forestry* 35: 193-198.

Doxon, E.D.\*, **C.A. Davis**, **S.D. Fuhlendorf**, and S.L. Winter. 2011. Aboveground macroinvertebrate diversity and abundance in sand sagebrush prairie managed with the use of pyric herbivory. *Rangeland Ecology and Management* 64: 394-403.

Doxon, E.D.\*, **C.A. Davis**, and **S.D. Fuhlendorf**. 2011. Comparison of two methods for sampling invertebrates: vacuum and sweep-net sampling. *Journal of Field Ornithology* 82: 60-67.

**Elmore, R.D.**, C. Harper, and **K.P. Allen**. 2011. 4-H wildlife habitat evaluation program. National 4-H Program of Distinction. <http://www.national4-headquarters.gov/about/pod.htm>

Field, J.P., D.D. Breshears, J.J. Whicker, and **C.B. Zou**. 2011. On the ratio of wind- to water-driven sediment transport: conserving soil under global-change-type extreme events. *Journal of Soil and Water Conservation* 66: 51A-56A.

Field, J.P., D.D. Breshears, J.J. Whicker, and **C.B. Zou**. 2011. Interactive effects of grazing and burning on wind- and water-driven sediment fluxes: rangeland management implications. *Ecological Applications* 21: 189-199.

Griffith, A.P., F.M. Epplin, **S.D. Fuhlendorf**, and R. Gillen. 2011. A comparison of perennial polycultures and monocultures for producing biomass for biorefinery feedstock. *Agronomy Journal* 103: 617-627.

Groves, C. P., and **D. M. Leslie, Jr.** 2011. *Rhinoceros sondaicus* (Perissodactyla: Rhinocerotidae). *Mammalian Species* 43 (887): 190-208.

Hajny, K.M.\*, D.C. Hartnett, and **G.W.T. Wilson**. 2011. Season and intensity of fire influences the expansion of a woody invader (*Rhus glabra*) in grasslands. *International Journal of Wildland Fire* 20: 709-720.

Hashim, R., M. Amini, O. Sulaiman, **S. Hiziroglu**, F. Kawamura, F. Abood, and R. Wahab. 2011. Some properties of particleboard panels treated with extractives of *Cerbera odllam* tree. *Journal of Composite Material* 45 (8): 901-906.

Hashim, R., W. Noor Aidawati Wan Nadhari, O. Sulaiman, **S. Hiziroglu**, M. Sato, F. Kawamura, T. G. Seng, T. Sugimoto, and R. Tanaka. 2011. Evaluations of some properties of exterior particleboard made from oil palm biomass. *Journal of Composite Material* 45 (16): 1659-1665.

Hashim, R., W. Nadhari, O. Sulaiman, F. Kawamura, **S. Hiziroglu**, M. Sato, T. Sugimoto, T. Seng, and R. Tanaka. 2011. Characterization of raw material binderless particleboard manufactured from oil palm biomass. *Materials and Design* 31 (1): 246-254.

Hashim, R., N. Said, J. Lamaming, M. Baskaran, O. Sulaiman, M. Sato, **S. Hiziroglu**, and T. Sugimoto. 2011. Influence of press temperature on the properties of binderless particleboard made from oil palm. *Materials and Design* 32 (5): 2520-2525.

Hovick, T.J.\*, J.R. Miller, R.R. Koford, **D.M. Engle**, and D.M. Debinski. 2011. Postfledging survival of grasshopper sparrows in grasslands managed with fire and grazing. *Condor* 113: 429-437.

Kasemsiri, P., **S. Hiziroglu**, and S. Rimdusit. 2011. Effect of cashew nut shell liquid on gelatin, cure kinetics, and thermomechanical properties of benzoxanine resin. *Thermochimica Acta* 520: 84-92.

Kasemsiri, P., **S. Hiziroglu**, and S. Rimdusit. 2011. Properties of wood composites from eastern redcedar particle reinforced with benzoxazine resin/cashew nut shell liquid copolymer. *Composite Part A* 42 (10): 1454-1462.

Lee, D.N., J.B. Lack, R.A. Van Den Bussche, and **J.M. Long**. 2011. Importance of tributary streams for rainbow trout reproduction: insights from a small stream and a bi-genomic approach. *River Research and Applications*. doi:10.1002/rra.1556

**Leslie, D. M., Jr.** 2011. *Rusa unicolor* (Artiodactyla: Cervidae). *Mammalian Species* 43 (871): 1-30.

Limb, R.F.\*, **S.D. Fuhlendorf**, **D.M. Engle**, and J.D. Kerby. 2011. Growing-season disturbance in tallgrass prairie: *Schizachyrium scoparium* response to fire and grazing. *Rangeland Ecology and Management* 64: 28-36.

Limb, R.F.\*, **S.D. Fuhlendorf**, **D.M. Engle**, **J.R. Weir**, **R. D. Elmore**, and **T.G. Bidwell**. 2011. Pyric-herbivory and cattle performance in grassland ecosystems. *Rangeland Ecology and Management* 64: 659-663.

Liu, Y.\*, **R.E. Will**, and **C.G. Tauer**. 2011. Gene level responses of shortleaf pine and loblolly

pine to top-killing. *Tree Genetics and Genomes* 7: 969-986.

**Long, J. M.** and C. LaFleur. 2011. Estimation of daily age and timing of hatching of exotic Asian swamp eels *Monopterus albus* (Zuiew, 1793) in a backwater marsh of the Chattahoochee River, Georgia, USA. *Journal of Applied Ichthyology* 27: 1019-1022.

**Lynch, T.B.** and D. Zhang. 2011. On relative maxima of diameter growth, basal area growth, volume growth and mean annual increment for individual trees. *Forest Science* 57(4): 353-358.

McCain, K.N.S.\*, **G.W.T. Wilson**, and J.M. Blair. 2011. Mycorrhizal suppression alters plant productivity and forb establishment in a grass-dominated prairie restoration. *Plant Ecology* 212: 1675-1685.

McFarland, C.A., M.J. Quinn, Jr., J. Boyce, E.M. LaFiandra, M.A. Bazar, **L.G. Talent**, and M.S. Johnson. 2011. Toxic effects of oral 2-amino-4,6-dinitrotoluene in the western fence lizard (*Sceloporus occidentalis*). *Environmental Pollution* 159 (2): 466-473.

Miller, G.R., J.M. Cable, A.K. McDonald, B. Bond, A.P. Tyler, T.E. Franz, L.X. Wang, and **C.B. Zou**. 2011. Using a system dynamics model to assess who ecohydrological connectivity affects ecosystem responses to environmental presses and pulses: a case study in savanna ecosystems. *Ecohydrology*. doi.10.1002/eco.245.

Pillsbury, F.C., J.R. Miller, D.D. Debinski, and **D.M. Engle**. 2011. Another tool in the toolbox? Using fire and grazing to promote bird diversity in highly fragmented landscapes. *Ecosphere* 2: 1-14 (article 28).

Reid, A.M.\*, and **S.D. Fuhlendorf**. 2011. Fire Management in the National Wildlife Refuge System: A Case Study of the Charles M. Russell National Wildlife Refuge, Montana. *Rangelands* 33: 17-23

**Shoup, D.E.**, and Wahl, D.H. 2011. Body size, food, and temperature affect overwinter survival of age-0 bluegill. *Transactions of the American Fisheries Society* 140: 1298-1304.

Temesgen, H., V. Monleon, A. Weiskittel, and **D.S. Wilson**. 2011. Sampling strategies for efficient estimation of tree foliage biomass. *Forest Science* 57: 153-163.

Wang, Y., W. Su, P. Kasemsiri, and **S. Hiziroglu**. 2011. A comparison of the withdrawal resistance load of nails using experimental and interference approaches. *Wood Material Science and Engineering* 6: 213-218.

Wang, L.X., **C.B. Zou**, F. O'Donnell, F.T. Goods, G.R. Miller, K.K. Caylor, J.M. Cable, and B. Bond. 2011. Characterizing ecohydrological and biogeochemical connectivity across multiple scales: a new conceptual framework. *Ecohydrology*. doi:10.1002/eco.187.

**Weir, J.R.** and R.F. Limb. 2011. Use of waste oil as an alternative fuel in drip torches. *Fire Management Today*. 71: 12-14.

**Weir, J.R.** 2011. Are weather and tradition reducing our ability to conduct prescribed burns? *Rangelands* 33: 25-30.

**Wilson, G.W.T., K.R. Hickman,** and M.M. Williamson. 2011. Invasive warm-season grasses reduce mycorrhizal root colonization and biomass production of native prairie grasses. *Mycorrhiza*. doi: 10.1007/s00572-011-0407-x

Winter, S.L.\*, **S.D. Fuhlendorf,** C.L. Goad, **C.A. Davis, K.R. Hickman,** and **D.C. Leslie, Jr.** 2011. Fire tolerance of a resprouting *Artemisia* (Asteraceae) shrub. *Plant Ecology* 212: 2085-2094.

Winter, S.L.\*, **S.D. Fuhlendorf,** C.L. Goad, **C.A. Davis, K.R. Hickman,** and **D.M. Leslie, Jr.** 2011. Restoration of the fire-grazing interaction in *Artemisia filifolia* shrubland. *Journal of Applied Ecology* 49: 242-250.

Winter, S.L.\*, **S.D. Fuhlendorf,** C.L. Goad, **C.A. Davis,** and **K.R. Hickman.** 2011. Topoedaphic variability and patch burning in sand sagebrush shrubland. *Rangeland Ecology and Management* 64: 633-640.