

## NATURAL RESOURCE ECOLOGY & MANAGEMENT DEPARTMENT PUBLICATIONS 2021

--Bold denotes NREM faculty

--Asterisk denotes lead author who is a post-doc, graduate student or research support staff mentored by NREM faculty.

--Double asterisk is undergraduate as lead author.

### 2021 (106)

\*Adhikari, A., R.E. Masters, H. Adams, K. Mainali, **C.B. Zou**, **O. Joshi**, and **R.E. Will**. 2021. Effects of climate variability and management on shortleaf pine radial growth across a forest-savanna continuum in a 34-year experiment. *Forest Ecology and Management* 491: 119125. <https://doi.org/10.1016/j.foreco.2021.119125>; IF: 3.56.

\*Adhikari, A., R. Masters, K. Mainali, **C.B. Zou**, **O. Joshi**, and **R.E. Will**. 2021. Management and climate variability effects on understory productivity of forest and savanna ecosystems in Oklahoma, USA. *Ecosphere* 12: e03576. IF: 3.17.

Allred, B.W., B.T. Bestelmeyer, C.S. Boyd, C. Brown, K.W. Davies, M.C. Duniway, L.M. Ellsworth, T.A. Erickson, **S.D. Fuhlendorf**, T.V. Griffiths, V. Jansen, M.O. Jones, J. Karl, A. Knight, J.D. Maestas, J.J. Maynard, S.E. McCord, D.E. Naugle, H.D. Starns, D. Twidwell, and D.R. Uden. 2021. Improving Landsat predictions of rangeland fractional cover with multitask learning and uncertainty. *Methods in Ecology and Evolution* 12:841–849. DOI: 10.1111/2041-210X.13564

**Ansley, R.J.**, T.W. Boutton, and E.B. Hollister. 2021. Can prescribed fires restore C<sub>4</sub> grasslands invaded by a C<sub>3</sub> woody species and a co-dominant C<sub>3</sub> grass species? *Ecosphere* 12: e03885; <https://doi/10.1002/ecs2.3885>; IF: 3.17.

**Ansley, R.J.**, T.J. Steffens, C. Cooper-Norris, and T. Zhang. 2021. Herbaceous production and soil nitrogen after mesquite mortality in Southern Great Plains (USA) grassland. *Rangeland Ecology and Management* 77:82–92. <https://doi.org/10.1016/j.rama.2021.04.002>

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\*Blazier, M.A., **T. Hennessey**, L. Schimleck, S. Abbey, R. Holbrook, and J. Dalen. 2021. Long-term effects of stand density management and genotype on wood properties of loblolly pine (*Pinus taeda* L.) in the mid-South USA. *Forest Ecology and Management* 491: 119176. <https://doi.org/10.1016/j.foreco.2021.119176>. IF: 3.56.

**Bruckerhoff, L.A.**, K.B. Gido, and M. Estey. 2021. Disentangling effects of predators and landscape factors as drivers of stream fish community structure. *Freshwater Biology* 66:656–668.

**Bruckerhoff, L.A.,** L.K. Kamees, A. Holycross, and C. Painter. 2021. Patterns of survival and reproductive status of communally denning *Crotalus viridis*. Ichthyology and Herpetology (formerly Copeia) 109:64–74.

**Bruckerhoff, L.A.,** C.A. Pennock, and K.B. Gido. 2021. Do fine-scale experiments underestimate predator consumption rates? Journal of Animal Ecology 90:2391–2403.

Butler, A., **C.A. Davis, S.D. Fuhlendorf,** and S.M. Wilder. 2021. Effects of fire on ground-dwelling arthropods in a shrub-dominated grassland. Ecology and Evolution 11:427–442.

\*Cady, S.M., **C.A. Davis, S.D. Fuhlendorf,** R. Scholtz, D.R. Uden, and D. Twidwell. 2021. Generalist bird exhibits site-dependent resource selection. Ecology and Evolution 11:12714–12727. DOI: 10.1002/ece3.8016.

Cemiloglu, U.O., O. Ulker, and **S. Hizioglu.** 2021. Volatile organic compounds (VOCs) emitted from coated furniture units. Coatings, MDPI. <http://doi.org/10.3390/coatings/11070806>. IF: 2.88.

\*Chapagain, B., **J.M. Long,** A.T. Taylor, and **O. Joshi.** 2021. Variation in black bass angler characteristics by stream size and accessibility in Oklahoma's Ozark Highland streams. North American Journal of Fisheries Management 41:585–599. DOI:10.1002/nafm.10565. IF: 1.49.

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\*Cleary, M., **O. Joshi,** and **W.S. Fairbanks.** 2021. Mapping and modeling the components of human tolerance for black bears in Eastern Oklahoma. Journal of Environmental Management. 288: 112378. <https://doi.org/10.1016/j.jenvman.2021.112378>. IF: 6.79.

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\*\*Coe, S.T., J.A. Elmore, E.C. Elizondo, and **S.R. Loss.** 2021. Free-ranging domestic cat abundance and sterilization percentage following five years of a trap–neuter–return program. Wildlife Biology. <https://doi.org/10.2981/wlb.00799>.

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Dinkins, J., **C.J. Duchardt**, J.D. Hennig, and J.L. Beck. 2021. Changes in hunter management to reduce harvest pressure on greater sage-grouse:1995-2018. *PLoS One* 16:1–17. <https://doi.org/10.1371/journal.pone.0253635>

**Duchardt, C. J.**, A. Monroe, J. Heinrichs, M. O'Donnell, D. Edmunds, and C. Aldridge. 2021. Prioritizing areas for restoration to conserve multiple sagebrush-associated wildlife species. *Biological Conservation* 260:109212. <https://doi.org/10.1016/j.biocon.2021.109212>

**Duchardt, C.J.**, I. Pearse, and L.M. Porensky. 2021. Direct and indirect effects of a keystone engineer on a shrubland-prairie food web. *Ecology* 102(1): e03195

\*Duell, E.B., D.W. Londe, **G.W.T. Wilson**, K.R. Hickman, and M.J. Greer. 2021. Growth and reproduction of non-native grass species surpasses that of native species under elevated temperature and drought. *Plant Ecology* 222:993-1006.

\*Duquette, C., T. Hovick, and **S.R. Loss**. 2021. A meta-analysis of the influence of anthropogenic noise on terrestrial wildlife communication strategies. *Journal of Applied Ecology* 58:1112-1121.

\*Elmore, J.E., C.S. Riding, K.G. Horton, A. Farnsworth, **T.J. O'Connell**, and **S.R. Loss**. 2021. Predicting bird-window collisions using weather radar. *Journal of Applied Ecology* 58:1593-1601. DOI: 10.1111/1365-2664.13832

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\*Gonzalez, A., **J.M. Long**, N.J.C. Gosch, A.P. Civiello, T.R. Gemeinhardt, and J. Hall. 2021. Spatial and temporal variation in length-weight relationships of age-0 *Scaphirhynchus* sturgeon in the lower Missouri River. *American Midland Naturalist* 186:106-121. DOI: 10.1674/0003-0031-186.1.106.

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**Joshi, O.**, B. Chapagain, **J.M. Long**, B. York, and A.T. Taylor. 2021. A revealed preference and contingent behavior approach to estimate potential effect of fish quantity and size on economic value of fishing in Ozark Highland streams. *Fisheries Research*. DOI: 10.1016/j.fishres.2021.106116

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\*Kauffman, K.L., **R.D. Elmore**, **C.A. Davis**, **S.D. Fuhlendorf**, **L.E. Goodman**, C.A. Hagen, and E.P. Tanner. 2021. Role of the thermal environment in scaled quail (*Callipepla squamata*) nest site selection and survival. *Journal of Thermal Biology* 95: 102791. [doi.org/10.1016/j.jtherbio.2020.102791](https://doi.org/10.1016/j.jtherbio.2020.102791).

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Liu, X., X. Cheng, N. Wang, M. Meng, Z. Jia, J. Wang, S. Ma, Y. Tang, C. Li, **L. Zhai**, B. Zhang, and J. Zhang. 2021. Effects of vegetation type on soil shear strength in Fengyang Mountain Nature Reserve, China. *Forests* 12: 490. IF: 2.22.

Liu X., Y. Tang, X. Cheng, Z. Jia, C. Li, S. Ma, **L. Zhai**, B. Zhang, and J. Zhang. 2021. Comparison of changes in soil moisture content following rainfall in different subtropical plantations of the Yangtze River Delta Region. *Water* 13(7):914. IF: 2.54.

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**Lonsinger, R.C.**, R.N. Knight, and L.P. Waits. 2021. Detection criteria and post-field sample processing influence results and cost efficiency of occupancy-based monitoring. *Ecological Applications* 31: e02404.

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