

EVAN P. TANNER, PHD

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CAESAR KLEBERG
WILDLIFE
RESEARCH INSTITUTE
TEXAS A&M UNIVERSITY-KINGSVILLE

Education

Oklahoma State University, Stillwater, OK

2015 ▪ Doctorate of Philosophy, Wildlife Ecology and Management

- Dissertation: “The climate of *Colinus* and *Callipepla*: current patterns with future implications”
- Advisor: R. Dwayne Elmore
- GPA: 4.0

The University of Tennessee, Knoxville, TN

2012 ▪ Master of Science in Wildlife & Fisheries Science, Minor in Statistics

- Thesis: “Population ecology of northern bobwhite (*Colinus virginianus*) on reclaimed mined land”
- Advisor: Patrick D. Keyser
- GPA: 3.59

The University of Tennessee, Knoxville, TN

2009 ▪ Bachelor of Science in Forestry, Resource Management

- GPA: 3.73

Professional Experience

Assistant Professor and Meadows Endowed Chair of Semi-arid Land Ecology ▪ **January 2020 – Present**

Caesar Kleberg Wildlife Research Institute, Department of Rangeland and Wildlife Sciences, Texas A&M University-Kingsville

Currently serving as an assistant professor focused on research related to thermal ecology of wildlife species and the ecology of semi-arid landscapes. Current research is focused on landscape changes and how this influences thermal options for different taxonomic groups.

Post-doctoral Fellow ▪ **November 2018 – December 2019**

Department of Natural Resource Ecology and Management, Oklahoma State University, 008C Ag Hall, Stillwater, OK 74078; (405) 744-9646

I am currently working on research focused on how human policy influences lesser prairie-chicken populations in western Oklahoma. Specifically, I am investigating how highly fragmented and modified landscapes within the lesser prairie-chicken range influences soundscapes, chicken movement patterns, and resource selection of individuals. Furthermore, I am structuring my research under the framework of a socio-ecological network, and am attempting to understand how land-use policies such as the CRP facilitate conservation of this imperiled grouse species within highly modified rangelands.

Additional Relevant Experience:

- Integrated movement model analyses in program R
- Soundscape monitoring and sound analyses in Raven and program R

Post-doctoral Fellow ▪ January 2016 – November 2018

Oklahoma EPSCoR, Department of Natural Resource Ecology and Management, Oklahoma State University, 008C Ag Hall, Stillwater, OK 74078; (405) 744-9646

Conducted research funded by the National Science Foundation which investigated landscapes as moderators of thermal conditions. This included the implementation of a distributed temperature sensing (DTS) system to measure changes in temperature variability in natural and fragmented (via woody encroachment) grasslands. I also used the DTS system to determine the mechanisms related to westward cedar encroachment and westward expansions of lone-star tick and mosquito distributions. Results from this research will have both ecological and human health implications. I also collaborated with researchers at Columbia University and Oregon State University to implement a DTS system to test Taylor's hypothesis of turbulence flow in a mixed-grass prairie.

Further collaborative research using the DTS system focused on mapping thermal variability in first and second order streams to help map distributions of the least darter, redbot chub, and the near threatened Arkansas darter. This system was also used to understand how novel biotic interactions between an introduced trout species and native bass influence site selection with various thermal conditions.

Additional research included quantifying the impacts of the Conservation Reserve Program (CRP) on landscape patterns and connectivity, while modeling scenarios in which to focus CRP enrollment to maximize biodiversity benefits. Finally, I oversaw an undergraduate research project on the thermal ecology of ornate and three-toed box turtles. Specifically, we investigated how thermal extremes and patch-burning impacted population dynamics and resource use.

Additional Relevant Experience:

- Ordination analysis using Program R
- Fragmented and quantile regression using program R
- Design and implementation of a distributed temperature sensing system in a terrestrial system

- Experience with super computing

Graduate Research Assistant ▪ May 2012 – December 2015

Department of Natural Resource Ecology and Management, Oklahoma State University, 008C Ag Hall, Stillwater, OK 74078; (405)-744-9636

Conducted research focused on the effects of climate change, extreme weather events, hunting pressure, and habitat management on breeding and non-breeding season ecology of northern bobwhite (*Colinus virginianus*) and scaled quail (*Callipepla squamata*) in western Oklahoma. Additional research focused on:

- Determining the effects of surface water presence on non-breeding season ecology of short-grass prairie songbirds
- Developing a new technique to survey quail coveys through use of distance sampling and bird dog transects
- Determining the effects of shallow discing on native plant and arthropod abundance in a sand-sagebrush vegetation community
- Determining the physical mechanisms that affect near surface temperatures within shrub canopies and determining how shrub species might alter thermal landscapes. Research includes the use of field LiDAR, field spectroradiometer, 3-D sonic anemometer, HOBO thermal sensors, and soil temperature/moisture instruments.

Additional Relevant Experience:

- Survival analyses using Anderson-Gill models in Program R
- Ecological niche modeling through Maxent and ENMTools
- Distance sampling
- Resource utilization function analysis in Program R

Graduate Research Assistant ▪ August 2009 – May 2012

The Center for Native Grasslands Management, The University of Tennessee, 2431 Joe Johnson Drive, Knoxville, TN 37996; (865)-974-7346

Responsible for conducting a research project on the response of northern bobwhite (*Colinus virginianus*) to large-scale management efforts concentrated on a reclaimed surface coal mine in western Kentucky.

Relevant experience:

- Radio-telemetry
- Bird handling
- Point count surveys
- Personnel hiring and management

- Survival analyses with Program MARK
- Occupancy modeling with Program MARK
- Use of GIS and Geospatial Modeling Environment
- Statistical analyses in SAS and NCSS
- Spatial analyses using FRAGSTATS
- Hierarchical modeling

Research Technician ▪ May 2008 – August 2008

The Tennessee Tree Improvement Program, 282 Ellington Plant Sciences Building, 2431 Joe Johnson Drive, Knoxville, TN 37996; (865)-974-7993

Surveyed five National Forests in the Southern Appalachians for butternut (*Juglans cinera*) trees. Work involved map orientation, use of GPS, field sampling techniques (crown diameter, DBH, tree height, condition index in relation to cankers, etc.), as well as collecting samples for genetic testing.

Research Expertise and Interests

Avian ecology, distance and occupancy modeling, ecological niche modeling, landscape ecology, thermal ecology, global change biology, upland gamebird ecology

Extension Experience

- Instructor of upland gamebird research techniques for Oklahoma State University Wildlife Society chapter (December 2012 and March 2014)
- Assisted in leading the 2012, 2013, and 2014 Oklahoma Quail Field Days at Packsaddle and Beaver River Wildlife Management Areas
 - Lectured on ecology and status of northern bobwhite in western Oklahoma to private landowners and the general public

Service

- Graduate Student Chair – Field trip coordinator for 2012 southeastern Wildlife Conclave
- Payne County Audubon Society Board of Directors (August 2012 – December 2017)
- 2016 Oklahoma Natural Resource Conference Awards Committee member
- Mentor for undergraduate research project (April-August 2016-2017)

Teaching Experience

- WFS 445 (Ecology and Management of Wild Birds; Teaching Assistant, University of Tennessee)
- NREM 1014 (Introduction to Natural History; Teaching Assistant, Oklahoma State University)
- Guest lecturer in Wildlife Management for Game Species (NREM 4533) in Department of Natural Resource Ecology and Management at Oklahoma State University
- Guest lecturer in Ecological Niche Modeling (ZOOL 5643) in Department of Integrative Biology at Oklahoma State University
- Guest lecturer in Applied Ecology and Conservation (NREM 3013) in Department of Natural Resource Ecology and Management at Oklahoma State University

Relevant Volunteer Experience

- Lesser prairie-chicken trapping and radio-collaring
- Greater prairie-chicken trapping
- Prescribed burning experience in forested, shrubland, and grassland vegetation communities
- Fish shocking/sampling
- Amphibian sampling
- Breeding Bird Survey volunteer
- CP-33 bird point count surveys
- Christmas Bird Count volunteer

Organizations

- Society of American Foresters - Member (2007-2009)
- The Wildlife Society - Member (2009-present)
- Payne County Audubon Society – Board member (2012-2017)
- Oklahoma Ornithological Society - Member (2016-2019)
- Society for Range Management - Member (2016-present)
- South Central Climate Adaptation Center – Research Affiliate (2020-present)

Certifications

- Associate Wildlife Biologist (2018-2019)
- Certified Wildlife Biologist (2020-present)

Awards

- Student Research Award (1st place). 2014. The Oklahoma Chapter of the Wildlife Society and Oklahoma Section of Society for Range Management.
- Student Research Award (2nd place). 2016. The Oklahoma Chapter of the Wildlife Society.
- Publication and Creativity Award for Peer-Reviewed Article: *Extreme climatic events constrain space use and survival of a ground-nesting bird. Global Change Biology*. 2017. The Oklahoma Chapter of the Wildlife Society.

Accepted Publications

Tanner, A. M., **E. P. Tanner**, M. Papeş, S. D. Fuhlendorf, R. D. Elmore, and C. A. Davis. 2020. Using aerial surveys and citizen science to create species distribution models for an imperiled grouse species. *Biodiversity and Conservation* 29: 967-986.

Tanner, E. P., J. P. Orange, C. A. Davis, R. D. Elmore, and S. D. Fuhlendorf. Behavioral modifications lead to disparate demographic consequences in two sympatric species. *Ecology and Evolution*: in press.

Rhoden, C. M., J. P. Orange, **E. P. Tanner**, D. L. Baxley, J. J. Morgan, and B. A. Robinson. Factors influencing hunter flush success of three small game species. *Wildlife Society Bulletin* 42: 414-419.

Scholtz, R., J. A. Polo, **E. P. Tanner**, and S. D. Fuhlendorf. Grassland fragmentation and its influence on woody plant cover in the southern Great Plains, USA. *Landscape Ecology* 33: 1785-1797.

Tanner, E. P., and S. D. Fuhlendorf. Impact of an agri-environmental scheme on landscape patterns. *Ecological Indicators*: 85: 956-965.

Lituma, C. M., D. A. Buehler, **E. P. Tanner**, A. M. Tanner, P. D. Keyser, and C. A. Harper. Factors affecting availability for detection: a case example using radio-collared northern bobwhite (*Colinus virginianus*). *PLoS ONE* 12: e0190376.

Tanner, E. P., M. Papeş, R. D. Elmore, S. D. Fuhlendorf, and C. A. Davis. 2017. Incorporating abundance information and guiding variable selection for climate-based ensemble forecasting of species' distributional shifts. *PLoS ONE* 12: e0184316.

Elmore, R. D., J. M. Carroll, **E. P. Tanner**, T. J. Hovick, B. A. Grisham, and S. D. Fuhlendorf. 2017. Implications of the thermal environment for terrestrial wildlife management. *Wildlife Society Bulletin* 41: 183-193.

Davis, C.A., J. P. Orange, R. A. Van Den Bussche, R. D. Elmore, S. D. Fuhlendorf, J. M. Carroll, **E. P. Tanner**, and D. M. Leslie, Jr. 2017. Extrapair paternity and nest parasitism in two sympatric quail species. *The Auk* 134: 811-820.

Cheng, Y., C. Sayde, Q. Li, J. Selker, J. Basara, **E. Tanner**, and P. Gentine. 2017. Failure of Taylor's hypothesis in the atmospheric surface layer and its correction for eddy-covariance measurements. *Geophysical Research Letters* 44: 4287-4295.

Tanner, E. P., R. D. Elmore, C. A. Davis, and S. D. Fuhlendorf. 2017. Wintering bird responses to the presence of artificial surface water in a semi-arid rangeland. *Wildlife Biology*: wlb.00315.

Tanner, E. P., R. D. Elmore, C. A. Davis, and S. D. Fuhlendorf. 2017. Evidence of nest tenacity in scaled quail (*Callipepla squamata*) following an anthropogenic disturbance. *The Wilson Journal of Ornithology* 129: 354-359.

Tanner, E. P., R. D. Elmore, S. D. Fuhlendorf, C. A. Davis, D. K. Dahlgren, and J. P. Orange. 2017. Extreme climatic events constrain space use and survival of a ground-nesting bird. *Global Change Biology* 23: 1832-1846.

Brooke, J. M., **E. P. Tanner**, D. C. Peters, A. M. Tanner, C. A. Harper, P. D. Keyser, J. D. Clark, and J. J. Morgan. 2017. Northern bobwhite breeding season ecology on a reclaimed surface mine. *Journal of Wildlife Management* 81: 73-85.

Orange, J. P., C. A. Davis, R. D. Elmore, **E. P. Tanner**, S. D. Fuhlendorf, and E. T. Thacker. 2016. Evaluating the efficacy of brood flush counts: a case study in two quail species. *Western North American Naturalist* 76: 8.

Tanner, E. P., R. D. Elmore, C. A. Davis, S. D. Fuhlendorf, D. K. Dahlgren, E. T. Thacker, and J. P. Orange. 2016. Does the presence of oil and gas infrastructure potentially increase risk of harvest in northern bobwhite? *Wildlife Biology* 22: 294-304.

Rabon, J. C., and **E. P. Tanner**. 2016. First record of Scott's oriole (*Icterus parisorum*) for Oklahoma. *Bulletin of the Oklahoma Ornithological Society* 49: 9-13.

Tanner, E. P., R. D. Elmore, S. D. Fuhlendorf, C. A. Davis, E. T. Thacker, and D. K. Dahlgren. 2015. Behavioral responses at distribution extremes: how artificial surface water can affect quail movement patterns. *Rangeland Ecology and Management* 68: 476-484.

Brooke, J. M., D. C. Peters, A. M. Unger, **E. P. Tanner**, C. A. Harper, P. D. Keyser, J. D. Clark, and J. J. Morgan. 2015. Habitat manipulation influences northern bobwhite resource selection on a reclaimed surface mine. *Journal of Wildlife Management* 79:1264-1276.

Peters, D. C., J. M. Brooke, **E. P. Tanner**, A. M. Unger, P. D. Keyser, C. A. Harper, J. D. Clark, and J. J. Morgan. 2015. Impact of experimental habitat manipulation on northern bobwhite survival. *Journal of Wildlife Management* 79:605-617.

Unger, A. M., **E. P. Tanner**, C. A. Harper, P. D. Keyser, F. T. Van Manen, J. J. Morgan, and D. L. Baxley. 2015. Northern bobwhite seasonal habitat selection on a reclaimed surface coal mine in Kentucky. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 2:235-246.

Tanner, E. P., A. M. Unger, P. D. Keyser, C. A. Harper, J. D. Clark, and J. J. Morgan. 2012. Comparison of survival for radio-tagged versus unmarked northern bobwhite. *Proceedings of the National Quail Symposium* 7:212-216.

Unger, A. M., **E. P. Tanner**, C. Harper, P. Keyser, and J. Morgan. 2012. Northern bobwhite survival related to movement on a reclaimed surface coal mine. *Proceedings of the National Quail Symposium* 7:223-228.

Manuscripts in Revision or Review

Polo, J., R. Scholtz, **E. Tanner**, S. Fuhlendorf, J. Ripberger, C. Silva, N. Carlson, and H. Jenkins-Smith. Mixed outcomes for prescribed fire: private land owners express support, yet underutilize burning. *Rangelands*: in review.

Extension Publications

Andersson, K., E. Thacker, M. Carroll, **E. P. Tanner**, J. Orange, R. Carroll, C. Duquette, C. Davis, S. Fuhlendorf, and D. Elmore. 2018. Research Summary: Evaluation of northern bobwhite and scaled quail in western Oklahoma. Oklahoma Agricultural Experiment Station, Division of Agricultural Sciences and Natural Resources, Oklahoma State University. P-1054.

Williams, E., J. Arnold, J. Brooke, D. Peters, **E. P. Tanner**, A. Tanner, J. Morgan, B. Robinson, C. Harper, P. Keyser, J. Orange, G. Sprandel, C. Rhoden, and O. Williams. 2017. Expect Something Different: Peabody Quail. <https://bringbackbobwhites.org/download/peabody-quail/>

Elmore, R.D, **E. P. Tanner**, T.G. Bidwell, and S. Cox. 2013. Northern Bobwhite Habitat Requirements and Evaluation Guide (revision). Oklahoma Cooperative Extension Service. E-904.

Online Articles and Newsletters

Tanner, E. P. 2020 Beating the heat: adaptive strategies of northern bobwhite and management options during periods of high temperatures. *Caesar Kleberg Tracks Spring 2020: in press.*

Tanner, E. P. 2014. Bobwhite and scaled quail ecology. Oklahoma State University Wildlife Chairs Newsletter Volume 1: 5. (wildlifechairs.okstate.edu/documents/newsletters/VolumeI-web.pdf).

Tanner, E. P. 2015. Influence of food and water supplementation on northern bobwhite. Oklahoma State University Wildlife Chairs Newsletter Volume 2: 1 & 3. (wildlifechairs.okstate.edu/documents/newsletters/Volume2-web.pdf)

Technical Reports

Thacker, E. T., **E. P. Tanner**, M. Carroll, R. D. Elmore, C. A. Davis, S. D. Fuhlendorf. 2013. Habitat use, survival, and movements of northern bobwhite and scaled quail in western Oklahoma. Annual Technical Report and Research Highlights for Oklahoma Department of Wildlife Conservation.

Peters, D., A. M. Unger, **E. P. Tanner**, C. A. Harper, P. D. Keyser, J. Morgan, E. Williams. 2012. Population ecology and habitat use of northern bobwhite on a reclaimed surface coal mine in Kentucky. Annual Research Highlights of The Kentucky Department of Fish and Wildlife Resources.

Unger, A. M., **E. P. Tanner**, C. Harper, P. Keyser. 2011. Population ecology and habitat use of northern bobwhite on a reclaimed surface coal mine in Kentucky. Annual Research Highlights for The Kentucky Department of Fish and Wildlife Resources.

Tanner, E. P., P. Keyser. 2010. Northern bobwhite population ecology on reclaimed mined land. Annual Research Highlights for The Kentucky Department of Fish and Wildlife Resources.

Research Grants

Tanner, E. P., A. M. Tanner, F. Hernández, D. G. Hewitt, D. B. Wester, R. S. Luna, and D. Rollins. 2020. A multi-scale assessment of habitat connectivity on scaled quail populations. Texas Parks and Wildlife Department. \$652,537 (in review).

Tanner, E. P., S. Rideout-Hanzak, S. E. Henke, D. B. Wester, H. L. Perotto-Baldivieos, A. M. Tanner, and C. D. Hilton. 2020. Direct and indirect effects of prescribed fire on herpetofaunal communities. Texas Parks and Wildlife Department. \$412,307 (in review).

Hernández, F., **E. P. Tanner**, A. M. Tanner, D. G. Hewitt, and D. B. Wester. 2020. Keeping a pulse on Texas quails: a state-wide, collaborative effort to address the quail decline in Texas. Texas Parks and Wildlife Department. \$214,328 (in review).

Rideout-Hanzak, S., D. B. Wester, S. E. Henke, H. L. Perotto-Baldivieos, **E. P. Tanner**, I-K. Hung, and C. Eversole. 2020. Assessment of South Texas loma habitat for Texas tortoise. Texas Parks and Wildlife Department. \$304,465 (in review).

Tanner, E. P., and S. D. Fuhlendorf. 2019. Determining the efficacy of targeted conservation practices on lesser prairie-chicken habitat potential. Western Associate of Fish and Wildlife Agencies. \$21,708 (awarded).

Fuhlendorf, S. D., R. D. Elmore, C. A. Davis, **E. P. Tanner**. 2018. Influence of human policies on lesser prairie-chicken ecology in a fragmented landscape. Natural Resource Conservation Service. \$79,000 (awarded).

Brewer, S. K., T. A. Worthington, S. D. Fuhlendorf, and **E. P. Tanner**. 2017. Assessing the distribution and habitat needs of Least Darter and sympatric species of the Ozark Arbuckle Mountain ecoregions. Funding Agency: Oklahoma Department of Wildlife Conservation. \$90,000 (awarded).

Brewer, S. K., B. Mollenhauer, S. D. Fuhlendorf, and **E. P. Tanner**. 2017. Assessing the effects of rainbow trout stocked in Oklahoma on native fishes in Spavinaw Creek, Oklahoma and Arkansas. Oklahoma Department of Wildlife Conservation and Arkansas Game and Fish Commission. \$100,000 (awarded).

Scientific Presentations, Seminars, and Posters

E. P. Tanner, J. A. Polo, S. Wolf, S. D. Fuhlendorf, and S. K. Brewer. 2019. Quantifying Spatio-Temporal Variability in Thermal Landscapes Through a Fiber-Optic Distributed Temperature Sensing System: Implications for Thermal Ecology Research. 52nd Joint Annual Meeting of the Arizona/New Mexico Chapters of The Wildlife Society and the Arizona/New Mexico Chapters of The American Fisheries Society, Albuquerque, New Mexico.

Wolf, S., **E. P. Tanner**, S. D. Fuhlendorf, R. Mollenhauer, and S. Brewer. 2019. Practical tool or shiny penny? Using fiber-optic distributed temperature sensing to improve evaluations of temperature selection by stream fishes. Southern Division Meeting of the American Fisheries Society, Galveston Island, Texas.

Tanner, E. P., S. D. Fuhlendorf, J. A. Polo, and J. M. Peterson. 2018. An astronomical event reveals the role of landscapes as thermal moderators. 103rd Annual Ecological Society of America Meeting, New Orleans, Louisiana.

Tanner, E. P., R. D. Elmore, S. D. Fuhlendorf, C. A. Davis, D. K. Dahlgren, and J. P. Orange. 2018. Extreme weather events create pinch points for a galliform. 103rd Annual Ecological Society of America Meeting, New Orleans, Louisiana.

Scholtz, R., S. R. Archer, S. D. Fuhlendorf, R. Buitenwerf, **E. P. Tanner**, and J. A. Polo. 2018. Woody plant dynamics in fragmented landscapes of the Great Plains, USA. 103rd Annual Ecological Society of America Meeting, New Orleans, Louisiana.

Wolf, S., R. Mollenhauer, **E. Tanner**, and S. Brewer. 2018. Seasonal habitat selection by fishes in Ozark Streams. 149th Annual American Fisheries Society Meeting, Atlantic City, New Jersey.

Wolf, S. **E. Tanner**, R. Mollenhauer, S. Fuhlendorf, and S. Brewer. 2018. Determining the temperature selection patterns of native stream fishes in an Ozark stream. Oklahoma Natural Resource Conference, Tulsa, Oklahoma.

Scholtz, R., J. A. Polo, **E. P. Tanner**, and S. D. Fuhlendorf. 2018. Woody plant dynamics in fragmented landscapes of the Great Plains, USA. 71st Annual Society for Range Management Meeting, Reno, Nevada.

Tanner, E. P., S. D. Fuhlendorf, and J. A. Polo. 2017. Use of fiber-optic distributed temperature sensing to characterize changes in thermal patterns within a fragmented grassland. The Wildlife Society 24th National Conference, Albuquerque, New Mexico.

Tanner, A. M., **E. P. Tanner**, and S. D. Fuhlendorf. 2017. Mirror, mirror: examining the reflection of hunting and fishing through advertisements. The Wildlife Society 24th National Conference, Albuquerque, New Mexico.

Tanner, E. P., R. D. Elmore, D. K. Dahlgren, C. A. Davis, and S. D. Fuhlendorf. 2017. Comparison of dog surveys and fall covey surveys in estimating fall population trends of northern bobwhite. Quail 8 Symposium, Knoxville, Tennessee.

Elmore, R. D., **E. P. Tanner**, C. A. Davis, D. K. Dahlgren, S. D. Fuhlendorf, and J. P. Orange. 2017. Extreme weather events create pinch points for northern bobwhite. *Perdix* Symposium – International Union of Game Biologists. Montpellier, France.

Tanner, E. P., R. D. Elmore, C. A. Davis, and S. D. Fuhlendorf. 2017. Wintering bird response to the presence of artificial surface water. Oklahoma Natural Resource Conference, Tulsa, Oklahoma.

Tanner, E. P., and S. D. Fuhlendorf. 2017. Impact of an agri-environmental scheme on landscape patterns. 70th Annual Society for Range Management Meeting, Saint George, Utah.

Tanner, E. P., R. D. Elmore, S. D. Fuhlendorf, and C. A. Davis. 2016. Ecological pinch points affect usable space and survival of a ground-nesting bird. Oklahoma Natural Resource Conference, Oklahoma City, Oklahoma.

Tanner, E. P., R. D. Elmore, S. D. Fuhlendorf, and C. A. Davis. 2016. Ecological pinch points affect usable space and survival of a ground-nesting bird. 69th Annual Society for Range Management Meeting, Corpus Christi, Texas.

Tanner, E. P., M. Papeş, R. D. Elmore, S. D. Fuhlendorf, and C. A. Davis. 2015. When strongholds collapse: gains in future distributions may cost current population sources under future climate projections. The Wildlife Society 22nd National Conference, Winnipeg, Manitoba.

Tanner, E. P., R. D. Elmore, C. A. Davis, and S. D. Fuhlendorf. 2015. Predicting shifts in northern bobwhite and scaled quail distribution from climate change. Joint Meeting of the Oklahoma Chapter of the American Fisheries Society and the Oklahoma Wildlife Society, Tulsa, Oklahoma.

Orange, J. P., C. A. Davis, S. D. Fuhlendorf, R. D. Elmore, and **E. P. Tanner**. 2015. Survival, movement, and habitat use of northern bobwhite and scaled quail chicks at the periphery of their distributional ranges. 2015. Joint Meeting of the Oklahoma Chapter of the American Fisheries Society and the Oklahoma Wildlife Society, Tulsa, Oklahoma.

Tanner, E. P., R. D. Elmore, C. A. Davis, and S. D. Fuhlendorf. 2014. Impacts of artificial surface water sources on northern bobwhite and scaled quail populations. 68th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies. Destin, Florida.

Orange, J. P., C. A. Davis, R. A. Van Den Bussche, S. D. Fuhlendorf, R. D. Elmore, M. J. Carroll, and **E. P. Tanner**. 2014. Parasitism, paternity, and brood mixing in two sympatric quail species. 68th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies. Destin, Florida.

Tanner, E. P., R. D. Elmore, C. A. Davis, and S. D. Fuhlendorf. 2014. Comparative ecology of northern bobwhite and scaled quail within distribution extremes. Joint Meeting of the Oklahoma Wildlife Society and Oklahoma Society for Range Management. Arcadia, Oklahoma.

Orange, J. P., R. A. Van Den Bussche, M. E. Trope, C. A. Davis, S. D. Fuhlendorf, R. D. Elmore, M. J. Carroll, and **E. P. Tanner**. 2014. Extra-pair paternity, intra-specific nest parasitism, and brood amalgamation in northern bobwhite. Joint Meeting of the Oklahoma Wildlife Society and Oklahoma Society for Range Management. Arcadia, Oklahoma.

Tanner, E. P., R. D. Elmore, C. A. Davis, S. D. Fuhlendorf, and E. T. Thacker. 2013. Comparative ecology of northern bobwhite and scaled quail in a sand sagebrush community. 67th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies. Oklahoma City, Oklahoma.

Tanner, E. P., A. M. Unger, P. D. Keyser, C. A. Harper, and J. J. Morgan. 2013. Evaluation of multi-scale factors affecting northern bobwhite nesting ecology on reclaimed mined lands in Kentucky. 67th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies. Oklahoma City, Oklahoma.

Unger, A. M., **E. P. Tanner**, C. A. Harper, P. D. Keyser, F. T. Van Manen, and J. J. Morgan. 2013. Northern bobwhite seasonal habitat selection on a reclaimed surface coal mine in Kentucky. 67th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies. Oklahoma City, Oklahoma.

Tanner, E. P., R. D. Elmore, C. A. Davis, S. D. Fuhlendorf, and E. T. Thacker. 2013. Habitat use, survival, and movements of northern bobwhite and scaled quail in western Oklahoma. Oklahoma Department of Wildlife Conservation Annual Technical Meeting. Stillwater, Oklahoma.

Tanner, E. P., R. D. Elmore, C. A. Davis, S. D. Fuhlendorf, and E. T. Thacker. 2012. Breeding season ecology of northern bobwhite and scaled quail in the sand sagebrush community. Oklahoma Wildlife Society Meeting, Tall Grass Prairie Preserve, Oklahoma.

Tanner, E. P., A. M. Unger, P. D. Keyser, C. A. Harper, J. D. Clark, and J. J. Morgan. 2012. Comparison of survival for radio-tagged versus unmarked northern bobwhite. Quail VII Symposium. Tucson, Arizona.

Unger, A. M., **E. P. Tanner**, C. A. Harper, P. D. Keyser, and J. J. Morgan. 2012. Effects of disking and planting on northern bobwhite movement and survival. Quail VII Symposium. Tucson, Arizona.

Lituma, C. M., D. A. Buehler, **E. P. Tanner**, A. M. Unger, P. D. Keyser, and C. A. Harper. 2012. Monitoring northern bobwhite breeding populations in the Central Hardwoods Bird Conservation Region. Quail VII Symposium. Tucson, Arizona.

Unger, A. M., **E. P. Tanner**, C. A. Harper, and P. D. Keyser. 2011. Northern bobwhite population ecology on reclaimed mined land. National Bobwhite Technical Committee Meeting. Tallahassee, Florida.

Tanner, E. P., A. M. Unger, P. D. Keyser, C. A. Harper, and J. J. Morgan. 2011. Influence of vegetation types on northern bobwhite survival on reclaimed mined lands. Tennessee Wildlife Society Meeting. Townsend, Tennessee.

Unger, A. M., **E. P. Tanner**, C. A. Harper, P. D. Keyser, and J. J. Morgan. 2011. Northern bobwhite habitat selection on a reclaimed surface coal mine in Kentucky. Tennessee Wildlife Society Meeting. Townsend, Tennessee.

Tanner, E. P., A. M. Unger, P. D. Keyser, C. A. Harper, and J. J. Morgan. 2011. Influence of vegetation types on northern bobwhite survival on reclaimed mined lands. Kentucky Wildlife Society Meeting. Cumberland Falls State Resort Park, Kentucky.

Unger, A. M., **E. P. Tanner**, C. A. Harper, P. D. Keyser, and J. J. Morgan. 2011. Northern bobwhite habitat selection on a reclaimed surface coal mine in Kentucky. Kentucky Wildlife Society Meeting. Cumberland Falls State Resort Park, Kentucky.

Tanner, E. P., A. M. Unger, P. D. Keyser, C. A. Harper, and J. J. Morgan. 2010. Influence of native warm-season grasses on northern bobwhite survival on reclaimed mined land. 7th Eastern Native Grass Symposium. Knoxville, Tennessee.

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