



2020 Presentation and Publication Report





Less than 80 recorded ocelots live in the United States and most of these live on private ranches in South Texas. Together with our research partners, East Foundation collects data on ocelot population size, survival and mortality, movements and activity, prey abundance and food habits, habitat use, and competition with other carnivores to help solidify recovery strategies.

Presentations

Texas Chapter of The Wildlife Society, Corpus Christi, 2020

Avila-S., J.S., V.L. Haynes, S. Rideout-Hanzak, D.B. Wester, J.A. Ortega-S., and **T.A. Campbell**. Season of Burn Effects on Composition of Forage Standing Crop in Gulf Cordgrass Communities.

Beckman, A.K. Roosting and Behavioral Patterns of Rio Grande Wild Turkeys in South Texas.

Dykes, J.L., R.W. DeYoung, T.E. Fulbright, D.G. Hewitt, C.A. DeYoung, J.A. Ortega-S., **A.M. Foley**, and **T.A. Campbell**. Behavioral Responses of White-Tailed Deer to Heat Stress and the Potential for Interspecific Competition.

French, J.T., H.H. Wang, W.E. Grant, N.J. Silvy, **T.A. Campbell**, and J.M. Tomecek. Behavior and Dispersal Characteristics of a Large, Unharassed Coyote Population.

Granger, M.M., C.D. Hilton, S. Henke, W. Conway, and **T.A. Campbell**. Demographics of Nilgai in South Texas.

Hardin, F. Secondhand Homes: Varying Success of Secondary Cavity Nesting Birds in Relation to a Local Woodpecker.

Hooker, A.M., **J. Lombardi**, M. Tewes, and **L. Schofield**. Hotspotter: A Machine Learning Approach to Identify Ocelots and Bobcats in South Texas.

Kohler, A. Effects of Grazing on Grassland Bird Richness and Abundance on a South Texas Working Ranch.

Lombardi, J.V., D.I. MacKenzie, M.E. Tewes, H.L. Perrotto-Baldivieso, J.M. Mata, and **T.A. Campbell**. Co-Occurrence of Bobcats, Coyotes, and Ocelots in Texas.

Lombardi, J.V., H.L. Perrotto-Baldivieso, M.E. Tewes, **J.P. Leonard**, D.G. Hewitt, D.G. Scognamillo, and **T.A. Campbell**. Predictive Performance of GPS Telemetry Fix Rates to Inform Ocelot Species Distribution Models.

Mejia, M. Recruiting and Engaging the Next Generation of Land Stewardship Ambassadors: East Foundation and The Witte Museum.

Navarro, D., R.W. DeYoung, C.A. DeYoung, D.A. Draeger, J.A. Blanchong, J. Reecy, and **T.A. Campbell**. Analysis of Allelic Variation in the Prion Protein Gene of White-Tailed Deer.

Pearson, M.E., **D.A. Woodard**, L.A. Brennan, D.B. Wester, and **A. Montalvo**. The Effect of Brush Canopy Coverage on Trap Site Success for Northern Bobwhites.

Pearson, Z.J., L.A. Brennan, F. Hernández, H.L. Perrotto-Baldivieso, **A. Montalvo**, and D.A. DeLaney. Defining Covey Locations and Flight Path Deviation During Aerial Quail Surveys.

Pence, A.R. Small Mammal Recovery Following Periods of Low Rainfall.

Rankins, S.T., R.W. DeYoung, **A.M. Foley**, T.E. Fulbright, J.A. Ortega-S., D.G. Hewitt, **L.R. Schofield**, and **T.A. Campbell**. Quantity or Quality? Foraging Ecology and Morphology of White-Tailed Deer Across Environmental Gradients.

Rankins, S.T., R.W. DeYoung, A.M. Foley, T.E. Fulbright, J.A. Ortega-S., D.G. Hewitt, **L.R. Schofield**, and **T.A. Campbell**. Determining the Mineral Status of Free Ranging White-Tailed Deer.

Indicates **East Foundation Graduate Student** and **East Foundation Employee**.

Salazar, A., M.L. Morrison, **A. Beckman**, and **A. Montalvo**. RGWT and the Effect of Parasite Load on Behavior.

Sergeyev, M., J. Lombardi, M. Tewes, and **T.A. Campbell**. Influence of Lunar Phase on Movement and Habitat Use of Ocelots and Bobcats.

Sergeyev, M., M. Tewes, **J. Lombardi**, and **T.A. Campbell**. How Many Locations Are Needed to Determine the Home Range of Ocelots and Bobcats?

Slifka, D., L. Brennan, A.A. Conkey, **T.A. Campbell**, N. Young, and J. Loughry. Cataloging and Population Trends of Birds on East Foundation Ranches: An Analysis of Ten Years of Data.

Veals, A.M., **A. Blackburn**, M.E. Tewes, J.D. Holbrook, H.L. Perotto-Baldivieso, C.J. Anderson, R.W. DeYoung, **T.A. Campbell**, and J.H. Young, Jr. Functional Responses in Resource Selection by Ocelots in South Texas.

Veals, A.M., **A. Blackburn**, M.E. Tewes, J.D. Holbrook, H.L. Perotto-Baldivieso, R.W. DeYoung, **T.A. Campbell**, and J.H. Young, Jr. Circuit Theory to Estimate Road Crossings for the Endangered Ocelot.

Woodard, D.A., L.A. Brennan, F. Hernández, H.L. Perotto-Baldivieso, and **R.N. Wilkins**. Implementing and Evaluating a Sustainable Bobwhite Harvest Prescription.

Woodard, D.A., L.A. Brennan, F. Hernández, H.L. Perotto-Baldivieso, and **R.N. Wilkins**. Spatial Analysis of Bobwhite Hunting Dynamics.

Zerlin, R., J.S.A. Sanchez, S. Rideout-Hanzak, D.B. Wester, and **T.A. Campbell**. Effects of Prescribed Fire on Butterfly Populations in Coastal South Texas.

Texas Society of Mammalogists, Junction, 2020

Lombardi, J.V., D.I. MacKenzie, M.E. Tewes, H.L. Perotto-Baldivieso, J.M. Mata, and **T.A. Campbell**. Co-occurrence of Bobcats, Coyotes, and Ocelots in Texas.

Sergeyev, M., J.V. Lombardi, M.E. Tewes, and **T.A. Campbell**. Influence of Moon-phase on Habitat Selection and Daily Movement of Ocelots and Bobcats.

Veals, A.M., **A. Blackburn**, M.E. Tewes, J.D. Holbrook, H. L. Perotto-Baldivieso, C.J. Anderson, R.W. DeYoung, **T.A. Campbell**, and J.H. Young, Jr. Functional Responses in Resource Selection by Ocelots.

Society for Range Management, Denver, Colorado, 2020

Avila-S., J.S. Season of Burn Effects on Forage Production and Composition of Gulf Cordgrass Communities.

Wilkins, R.N. Science to Action: Communication Needs for the 21st Century Rangeland Manager.

The South Texas Sand Sheet is a hotspot for bobwhites and quail management is a major economic driver due to recreational interests. We aim to demonstrate relationships among cattle management, harvest management, and bobwhite productivity through science.



Publications

Refereed Journal Articles

Currie, C.R., D.G. Hewitt, J.A. Ortega-S., G.L. Schuster, **T.A. Campbell**, K.H. Lohmeyer, D.B. Wester, and A. Perez de Leon. 2020. [Efficacy of white-tailed deer \(*Odocoileus virginianus*\) treatment for cattle fever ticks in southern Texas](#). *Journal of Wildlife Diseases* 56:588–596. doi.org/10.7589/2015-11-304.

Fern, R.R., M.L. Morrison, W.E. Grant, H. Wang, and **T.A. Campbell**. 2020. [Modeling the influence of livestock grazing pressure on grassland bird distributions](#). *Ecological Processes* DOI:10.1186/s13717-020-00244-7.

Leonard, J.P., M.E. Tewes, J.V. Lombardi, D.W. Wester, and **T.A. Campbell**. 2020. [Effects of sun angle, lunar illumination, and diurnal temperature on temporal movement rates of sympatric ocelots and bobcats in South Texas](#). *PLOS ONE* DOI:10.1371/journal.pone.0231732.

Lombardi, J.V., D.I. MacKenzie, M.E. Tewes, H.L. Perotto-Baldivieso, J.M. Mata, and **T.A. Campbell**. 2020. [Co-occurrence of bobcats, coyotes, and ocelots in Texas](#). *Ecology and Evolution* 10:4903–4917. DOI:10.1002/ece3.6242.

Lombardi, J.V., M.E. Tewes, H.L. Perotto-Baldivieso, J.M. Mata, and **T.A. Campbell**. 2020. [Spatial structure of woody cover affects habitat use patterns of ocelots in Texas](#). *Mammal Research* DOI:10.1007/s13364-020-00501-2.

Montalvo, A., **T. Snelgrove**, G. Riojas, **L. Schofield**, and **T.A. Campbell**. 2020. [Cattle ranching in the “Wild Horse Desert” – stocking rate, rainfall, and forage responses](#). *Rangelands* 42:31–42.

Peterson, M.K., **A.M. Foley**, **A.N. Tri**, D.G. Hewitt, R.W. DeYoung, C.A. DeYoung, and **T.A. Campbell**. 2020. [Mark-recapture distance sampling for aerial surveys of ungulates on rangelands](#). *Wildlife Society Bulletin* 44:713–723. DOI:10.1002/wsb.1144.

Yu, S., J. Modarelli, J.M. Tomecek, **J.T. French**, and C. Hilton. 2020. [Prevalence of common tick-borne pathogens in white-tailed deer and coyotes in south Texas](#). *IJP: Parasites and Wildlife* 11:129–135. doi.org/10.1016/j.ijppaw.2020.01.005.

Book Chapters

Fulbright, T.E., and **T.A. Campbell**. 2020. Managing invasive species. Pages 384–397 in N. Silvy, editor. *Wildlife Management Techniques Manual*, 8th edition. John Hopkins University Press, Baltimore, Maryland, USA.

Parent, C.J., F. Hernández, and **A. Bruno**. 2020. Managing disturbances to wildlife and habitats. Pages 254–263 in N. Silvy, editor. *Wildlife Management Techniques Manual*, 8th edition. John Hopkins University Press, Baltimore, Maryland, USA.

Management Bulletins

Avila-S., J.S., **V.L. Haynes**, S. Rideout-Hanzak, D.B. Wester, A. Ortega-S., H.L. Perotto-Baldivieso, and **L.R. Schofield**. 2020. [Patch burning as a management tool for coastal rangelands in South Texas](#). *East Foundation Management Bulletin* No. 5. 4p.

French, J.T., H.H. Wang, W.E. Grant, N.J. Silvy, J.M. Tomecek, and **L.R. Schofield**. 2020. [Coyote conundrums: shedding light on coyote behavior to inform more effective management](#). *East Foundation Management Bulletin* No. 4. 4p.

Sawyer, J., **A. Montalvo**, **Z. Herrin**, G. Riojas, **T. Snelgrove**, and **T. Campbell**. 2020. [Searching for an optimal grazing strategy](#). *East Foundation Management Bulletin* No. 3. 4 p.

Zoromski, L.D., R.W. DeYoung, J.A. Goolsby, **A.M. Foley**, J.A. Ortega-S., D.G. Hewitt, and **L.R. Schofield**. 2020. [Solving the mystery of how to treat nilgai for cattle fever ticks](#). *East Foundation Management Bulletin* No. 2. 4p.



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