

TYLER G. CREECH
Center for Large Landscape Conservation
P.O. Box 1587, Bozeman, MT 59771
tyler@largelandscapes.org

EDUCATION

Ph.D., Wildlife Science, 2016
Department of Fisheries and Wildlife, Oregon State University (Corvallis, OR)
M.S., Biological Sciences, 2011
Department of Ecology, Montana State University (Bozeman, MT)
B.S., Environmental Science, 2006
Huxley College of the Environment, Western Washington University (Bellingham, WA)

RESEARCH AND PROFESSIONAL EXPERIENCE

August 2016 – present. *Spatial Ecologist, Center for Large Landscape Conservation (Bozeman, MT)*.
Applies scientific tools to landscape-level conservation, with a focus on preserving landscape connectivity and mitigating impacts of climate change for wildlife populations.
June 2011 – March 2016. *Ph.D. Candidate, Dept. of Fisheries & Wildlife, Oregon State University (Corvallis, OR)*. Dissertation research explored genetic diversity and population connectivity of desert bighorn sheep in the southwest U.S.
Sept. 2008 – May 2011. *Master's Student, Dept. of Ecology, Montana State University (Bozeman, MT)*. Thesis research evaluated the efficacy of alternative supplemental feeding strategies for minimizing disease transmission in elk of the Greater Yellowstone Ecosystem.
Feb. 2007 – Aug. 2008. *Environmental Consultant, ENSR Consulting (Redmond, WA)*. Worked as a consultant providing environmental services (wildlife surveys, wetland delineations, preparation of NEPA documents) for public and private clients.
July 2006 – Dec. 2006. *Stream ecology field/lab technician, University of Notre Dame (Notre Dame, IN)*. Researched the role of salmon-derived nutrients in watersheds with varying timber harvest regimes on Prince of Wales Island in southeast Alaska.
June 2005 – Dec. 2005. *Terrestrial ecology research assistant, Western Washington University (Bellingham, WA)*. Collected and analyzed data on post-fire regeneration of whitebark pine in the North Cascades of Washington for a graduate study.

PEER-REVIEWED PUBLICATIONS

Creech, T. G., Brennan, A., Fasel, J., Stabach, J. A., & Keeley, A. T. (2024) Validating connectivity models: a synthesis. *Current Landscape Ecology Reports*, 1-15.
Epps, C. W., Holton, P. B., Monello, R. J., Crowhurst, R. S., Gaulke, S. M., Janousek, W. M., ... & Graves, T. A. (2024) Population and spatial dynamics of desert bighorn sheep in Grand Canyon during an outbreak of respiratory pneumonia. *Frontiers in Ecology and Evolution*, 12, 1377214.
Creech, T. G., Williamson, M. A., Sesnie, S. E., Rubin, E. S., Cayan, D. R., & Fleishman, E. (2023) Effects of changing climate extremes and vegetation phenology on wildlife associated with grasslands in the southwestern United States. *Environmental Research Letters* 18(10), 104028.
Epps, C. W., Petro, V. M., Creech, T. G., Crowhurst, R. S., Weldy, M. J., & Taylor, J. D. (2021) Landscape genetics of American beaver (*Castor canadensis*) in coastal Oregon. *Journal of Wildlife Management*, 85(7), 1462-1475.

- Creech, T. G., Epps, C. W., Wehausen, J. D., Crowhurst, R. S., Jaeger, J. R., Longshore, K., Holton, B., Sloan, W. B., & Monello, R. J. (2020) Genetic and environmental indicators of climate change vulnerability for desert bighorn sheep. *Frontiers in Ecology and Evolution* 8, 279.
- Lee, T. L., Creech, T., Martinson, A., Nielsen, S., Jakes, A., Jones, P. F., Sanderson, K., & Ford, A. (2020) Widening the lens: Prioritization of road sections to improve human safety and wildlife connectivity along a provincial road network. *Conservation Science and Practice*, e327.
- Belote, T., Beier, P., Creech, T., Wurzebach, Z., & Tabor, G. (2020) A framework for developing connectivity targets and indicators to guide global conservation efforts. *Bioscience* 70(2), 122-125.
- Williamson, M. A., Creech, T. G., Carnwath, G., Dixon, B., & Kelly, V. (2020) Incorporating wildlife connectivity into Forest Plan revision under the United States Forest Service's 2012 Planning Rule. *Conservation Science and Practice* 2(2), e155.
- Creech, T. G., Fairbank, E. R., Clevenger, A. P., Callahan, A. R., & Ament, R. J. (2019) Differences in spatiotemporal patterns of vehicle collisions with wildlife and livestock. *Environmental Management* 64(6), 736-745.
- Keeley, A. T. H., Beier, P., Creech, T. G., Jones, K., Jongman, R., Stonecipher, G., & G. M. Tabor. (2019) Thirty years of connectivity conservation planning: an assessment of factors influencing plan implementation. *Environmental Research Letters* 14(10), 103001.
- Creech, T. G., & Williamson, M. A. (2019) Ecological and sociopolitical assessment of congressional and presidential designation of federal protected areas. *Ecological Applications* 29(4), e01888.
- Gille, D. A., Buchalski, M. R., Conrad, D, Rubin, E. S., Munig, A., Wakeling, B. F., Epps, C. W., Creech, T. G., Crowhurst, R., Holton, B., Monello, R., Boyce, W. M., Penedo, M. C. T., & Ernest, H. B. (2019). Genetic outcomes of translocation of bighorn sheep in Arizona. *Journal of Wildlife Management* 83(4), 838-854.
- Creech, T. G., Epps, C. W., Landguth, E. L., Wehausen, J. D., Crowhurst, R. S., Holton, B., & Monello, R. J. (2017) Simulating the spread of selection-driven genotypes using landscape resistance models for desert bighorn sheep. *PLOS ONE* 12(5), e0176960.
- Creech, T. G., Epps, C. W., Monello, R. J., & Wehausen, J. D. (2016) Predicting diet quality and genetic diversity of a desert-adapted ungulate with NDVI. *Journal of Arid Environments* 127, 160-170.
- Zeller, K., Creech, T., Millette, K., Crowhurst, R., Long, R., Wagner, H., Balkenhol, N., & Landguth, E. (2016) A simulation-based evaluation of the causal modeling approach for assessing landscape resistance to gene flow. *Ecology and Evolution* 6(12), 4115-4128.
- Creech, T. G., Epps, C. W., Monello, R. J., & Wehausen, J. D. (2014) Using network theory to prioritize management in a desert bighorn sheep metapopulation. *Landscape Ecology* 29(4), 605-619.
- Cross, P. C., Creech, T. G., Ebinger, M. R., Manlove, K., Irvine, K., Henningsen, J., Rogerson, J., Scurlock, B. M., & Creel, S. (2013) Female elk contacts are neither frequency nor density dependent. *Ecology* 94(9), 2076-2086.
- Creech, T. G., Cross, P. C., Scurlock, B. M., Maichak, E. J., Rogerson, J. D., Henningsen, J. C., & Creel, S. (2012) Effects of low-density feeding on elk–fetus contact rates on Wyoming feedgrounds. *The Journal of Wildlife Management* 76(5), 877-886.
- Cross, P. C., Creech, T. G., Ebinger, M. R., Heisey, D. M., Irvine, K. M., & Creel, S. (2012) Wildlife contact analysis: emerging methods, questions, and challenges. *Behavioral Ecology and Sociobiology* 66(10), 1437-1447.

REPORTS AND CONFERENCE PROCEEDINGS

- Creech, T., Huijser, M., Bell, M., Fairbank, E., & Breuer, A. (2025) Gallatin County wildlife and transportation assessment: spatial analysis component. Prepared by the Center for Large Landscape Conservation under contract to Gallatin County, Montana.

- Creech, T., Keeley, A., et al. (2025) Prioritizing conservation of ecological corridors in the Pantanal-Chaco landscape of South America. Prepared by the Center for Large Landscape Conservation under contract to WWF-Bolivia.
- Creech, T. (2024) Empirical jaguar connectivity analysis for the Pantanal-Chaco region. Prepared by the Center for Large Landscape Conservation under contract to WWF-Bolivia.
- Faselt, J., Creech, T., & Keeley, A. (2024) Systematic conservation planning with connectivity for Jordan's protected areas network. Report prepared by The Center for Large Landscape Conservation for IUCN-Regional Office for West Asia.
- Creech, T., Keeley, A., Penrod, K., et al. (2023) Expert-based jaguar connectivity analysis for the Pantanal-Chaco region. Prepared by the Center for Large Landscape Conservation under contract to WWF-Bolivia. Available at: <https://wwflac.awsassets.panda.org/downloads/pacha-expert-connectivity-model-final.pdf>
- Creech, T., & Keeley, A. (2023) A connectivity conservation design for AIUla County and the wider regional landscape. Report prepared by The Center for Large Landscape Conservation for IUCN-Regional Office for West Asia. AIUla Protected Areas Network (APAN) Project Component 2, Output 2.2, Activity 2.2.1.
- USAID (2021) Annex 1: Spatial analyses of linear infrastructure threats to biodiversity in Asia. In: Building a foundation for linear infrastructure safeguards in Asia. Authors: Creech, T., G. Stonecipher, M. Bell, A.P. Clevenger, & R. Ament. Prepared by Perez, APC for Contract no. AID-OAA-I-15-00051/AIDOAA-TO-16-00028, ESS WA#13. U.S. Agency for International Development (USAID), Washington, DC. https://largelandscapes.org/wp-content/uploads/2021/09/LISA_Annex1_SpatialAnalysis_FINAL.pdf
- Ament, R., Callahan, R., Creech, T., Fairbank, E., & Huijser, M. (2019) Blackfeet Animal-Vehicle Collision Reduction Master Plan: Enhancing Safety and Connectivity for People and Animals. A report prepared for the Blackfeet Nation Fish and Wildlife Department. Center for Large Landscape Conservation and Western Transportation Institute/Montana State University, Bozeman, MT. Available at: <https://largelandscapes.org/wp-content/uploads/2021/04/Blackfeet-Nation-Animal-Vehicle-Collision-Reduction-Master-Plan.pdf>
- Fleishman, E., Albano, C., Bradley, B. A., Creech, T. G., Curtis, C., Dickson, B. G., Epps, C. W., Hegeman, E. E., Hoglander, C., Leu, M., Shaw, N., Schwartz, M. W., VanCuren, A., & Zachmann, L. Z. (2019) Natural Resource Condition Assessment for six parks in the Mojave Desert Network. Natural Resource Report NPS/MOJN/NRR-2019/1959. U.S. Department of the Interior, National Park Service, Fort Collins, CO.
- Creech, T., & Williamson, M. (2019) Ecological connectivity within and around Custer Gallatin National Forest: an analysis to inform forest planning. Report prepared for the Custer Gallatin National Forest Plan Revision Team. Center for Large Landscape Conservation, Bozeman, MT.
- Lee, T., Ford, A., Creech, T., and Sanderson, K. (2019) Improving human and wildlife safety along Alberta's highway network. Miistakis Insitute, Calgary, AB. Available at: <https://www.rockies.ca/reports.php>
- Creech, T., McClure, M., & van Rees, C. (2018) A Spatial Prioritization Tool for Integrating Terrestrial and Freshwater Conservation to Support Ecological Integrity in the Missouri Headwaters Basin. Center for Large Landscape Conservation, Bozeman, MT. Available at: <http://largelandscapes.org/resources/>
- Creech, T., McClure, M., & Callahan, R. (2016) High-risk zones for ungulate-vehicle collisions during Montana's fall migration season. Center for Large Landscape Conservation, Bozeman, MT. Available at: <http://largelandscapes.org/resources/>
- Epps, C. W., Wehausen, J. D., Sloan, W. B., Holt, S., Creech, T. G., Crowhurst, R. S., Jaeger, J. R., Longshore, K. M., & Monello, R. J. (2016) Fifty years after Welles and Welles: distribution and genetic structure of desert bighorn sheep in Death Valley National Park. *Proceedings of the 1st Annual Death Valley Natural History Conference*, Death Valley National Park, CA.

Epps, C. W., Wehausen, J. D., Monello, R. J., and Creech, T. G. (2013) Potential impacts of proposed solar energy development near the South Soda Mountains on desert bighorn sheep connectivity. Report to the California Department of Fish and Wildlife, National Park Service, and Bureau of Land Management. Available at: http://www.cawsf.org/pdf/Soda_Mountains_Report.pdf