**MARK W. BRUNSON**

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**Current Position (August 2014- )**

Professor: Dept. of Environment and Society, Utah State University

Professional affiliations: USU Ecology Center; Utah Agricultural Experiment Station; USU Institute for Outdoor Recreation and Tourism; USU Center for Society, Economy and Environment

**Previous Academic Experience**

2009-2014 Department Head, Environment & Society, Utah State University

2005-2009 Professor, Environment & Society Department, Utah State University

2004-2006 Director of Undergraduate Education, Quinney College of Natural Resources, Utah State University

2002-2005 Associate Professor, Environment & Society Department, Utah State University

1997-2002 Associate Professor, Forest Resources Department, Utah State University

1992-1997 Assistant Professor, Forest Resources Department, Utah State University

1991-1992 Assistant Professor–Senior Research, Forest Resources, Oregon State University

**Education**

PhD, Forestry, Oregon State University, 1991

MS, Recreation Resource Management, Oregon State University, 1989

Post-baccalaureate study, Biology, University of Texas at San Antonio, 1979-81

BA (Honors), History, State University of New York at Binghamton, 1974

**Refereed journal articles (\*indicates graduate/undergraduate advisee co-author)**

Larsen, L.N.D., P.D. Howe, M. Brunson, L. Yocom, D. McAvoy, E.H. Berry, and J.W. Smith. 2021. Risk perceptions and mitigation behaviors of residents following a near-miss wildfire. *Landscape and Urban Planning* 207. <https://www.sciencedirect.com/science/article/pii/S0169204620314894>

Brice, E.M., B.A. Miller, H. Zhang, K. Goldstein, S.N. Zimmer, G.J. Grosklos, P. Belmont, C.G. Flint, J.E. Givens, P.B. Adler, M.W. Brunson and J.W. Smith. 2020. Impacts of climate change on multiple use management of Bureau of Land Management land in the Intermountain West, USA. *Ecosphere* 11(11):e03286. 10.1002/ecs2.3286

Cid, C.R., and M.W. Brunson. 2020. Engaging faculty in preparing students for non-academic careers. *Frontiers in Ecology and the Environment* 18:52-53.

Monz, C.A., K.J. Gutzwiller, V.H. Hausner, M.W. Brunson, R. Buckley, and C.M. Pickering, 2020. Understanding and managing the interactions of impacts from nature-based recreation and climate change. *Ambio*, pp.1-13. <https://link.springer.com/article/10.1007/s13280-020-01403-y>

Dupey, L.N., M. Dettenmaier, M.R. Kuhns, D. McAvoy, and M.W. Brunson. 2019. Paving the way: a roadmap for tackling urban forestry challenges and gaining public support. *Journal of Extension* 57:6TOT3. <https://joe.org/joe/2019december/pdf/JOE_v57_6tt3.pdf>

Hardegree, S.P., R.L. Sheley, M.W. Brunson, M.H. Taylor, and C.A. Moffet. 2019. Forum: Iterative-adaptive management and contingency-based restoration planning in variable environment. *Rangeland Ecology & Management* 72:217-224. <https://doi.org/10.1016/j.rama.2018.09.006>

\*Kalnicky, E.A., M.W. Brunson, and K.H. Beard. 2019. Predictors of participation in invasive species control activities depend on prior experience with the species. *Environmental Management* 63:60-68. <https://doi.org/10.1007/s00267-018-1126-2>

Mattsson, B.J., M. Fischborn, M.W.Brunson, and H. Vacik. 2019. Introducing and evaluating a knowledge transfer approach to support problem solving in and around protected areas. *Ambio* 48:13-24. <https://do.org/10.1007/s13280-018-1048-5>

Moffet, C.A., S.P. Hardegree, J.T. Abatzoglou, K.C. Hegewisch, R.R. Reuter, R.L. Sheley, M.W. Brunson, G.N. Flerchinger, and A.R. Boehm. 2019. Weather tools for retrospective assessment of restoration outcomes. *Rangeland Ecology & Management* 72:225-229<https://doi.org/10.1016/j.rama.2018.10.011>

\*York, E.A., M.W. Brunson, and K.B. Hulvey. 2019. Influence of ecosystem services on management decisions by public land ranchers in the Intermountain West. *Rangeland Ecology and Management* 72:721-728.<https://doi.org/10.1016/j.rama.2019.02.002>

Bentley Brymer, A.L., J.D. Wulfhorst, and M.W. Brunson. 2018. Analyzing stakeholders’ workshop dialogue for evidence of social learning. *Ecology and Society* 23(1):42.   
<https://doi.org/10.5751/ES-09959-230142>.

Hardegree, S.P., J.T. Abatzoglou, M.W. Brunson, M.J. Germino, K.C. Hegewisch, C.A. Moffet, D.S. Pilliod, B.A. Roundy, A.R. Boehm, and \*G.R. Meredith. 2018. Weather-centric rangeland revegetation planning. *Rangeland Ecology & Management* 71: 1-11.DOI: 10.1016/j.rama.2017.07.003 (**Editor’s Choice selection)**

Briske, D.D., B.T. Bestelmeyer, J.R. Brown, M.W. Brunson, T.L. Thurow, and J.A. Tanaka. 2017. Assessment of USDA-NRCS rangeland conservation platforms: Recommendation for an evidence-based conservation platform. *Ecological Applications* 27:94-104.

Enquist, C., S.T. Jackson, G. Garfin, F.W. Davis, L.R. Garber, J. Littell, J.L. Tank, A. Terando, T. Wall, B. Halpern, J.K. Hiers, T.L. Morelli, E. McNie, N.L. Stephenson, M.A. Williamson, C.A. Woodhouse, L. Yung, M.W. Brunson, K. Hall, L.M. Hallett, D.M. Lawson, M. Moritz, K. Nydick, A. Pairis, A.J. Ray, C. Regan, H.D. Safford, M.W. Schwartz, and M.R. Shaw. 2017. Foundations of translational ecology. *Frontiers in Ecology and the Environment* 15(10):541-550, doi:10.1002/fee.1733.

Schwartz, M.W., J.K. Hiers, F.W. Davis, G. Garfin, S.T. Jackson, A.J. Terando, C.A. Woodhouse, T.L. Morelli, M.A. Williamson, and M.W. Brunson. 2017. Developing a translational ecology workforce. *Frontiers in Ecology and the Environment* 15(10):587-596, doi: 10.1002/fee.1732.

Wolters, E., B.S. Steel, D. Weston, and M. Brunson. 2017. Determinants of resident Firewise behaviors in Central Oregon. *The Social Science Journal* 54:168-178.

Brunson, M.W., and M.A. Baker. 2016. Translational training for tomorrow’s environmental scientists. *Journal of Environmental Studies and Sciences* 6:295-299.

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Beever, E.A., B.. Mattson, M.J. Germino, M.P. van der Burg, J.B. Bradford and M.W. Brunson. 2014. Successes and challenges from formation to implementation of eleven broad-extent conservation programs. *Conservation Biology* 28:302-314. doi: 10.1111/cobi.12233.

Brunson, M.W. 2014. Unwanted no more: land use, ecosystem services, and opportunities for resilience in human-influenced shrublands. *Rangelands* 36(2):5-11.

Gordon, R., M.W. Brunson and B. Shindler. 2014. Acceptance, acceptability and trust for sagebrush restoration options in the Great Basin: a longitudinal perspective. *Rangeland Ecology & Management* 67:573-583. doi: 10.2111/REM-D-13-00016.1

\*Kalnicky, E.A., M.W. Brunson and K.H. Beard. 2014. A social-ecological systems approach to non-native species: Habituation and its effect on management. *Biological Conservation* 180:187-195.

McIver, J., and M. Brunson. 2014. Multidisciplinary, multisite evaluation of alternative sagebrush steppe restoration treatments: the SageSTEP project. *Rangeland Ecology & Management* 67:435-439. doi: 10.2111/REM-D-14-00085.1.

McIver, J., M. Brunson, S. Bunting. J. Chambers, P. Doescher, J. Grace, A. Hulet, D. Johnson, S. Knick, R. Miller, M. Pellant, F. Pierson, D. Pyke, B. Rau, K. Rollins, B. Roundy, E. Schupp, R. Tausch, and J. Williams. 2014. A synopsis of short-term response to alternative restoration treatments in the Sagebrush-Steppe: The SageSTEP project. *Rangeland Ecology & Management* 67:584-598. doi: 10.2111/REM-D-14-00084.1

\*Kalnicky, E.A., K.H. Beard and M.W. Brunson. 2013. Community level response to habitat structure manipulations: An experimental case study in a tropical ecosystem. *Forest Ecology & Management* 307:313-321. doi: [10.1016/foreco.2013.07.015](http://www.sciencedirect.com/science/article/pii/S0378112713004489).

\*Nay, C.G., and M.W. Brunson. 2013. A war of words: Do conflict metaphors affect beliefs about managing “unwanted” plants? Societies 3(2):158-169; doi:[10.3390/soc3020158](http://dx.doi.org/10.3390/soc3020158).

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Brunson, M.W., and J.A. Tanaka. 2011. Economic and social impacts of wildfires and invasive plants in American deserts: Lessons from the Great Basin. *Rangeland Ecology & Management* 64:463-470.

Shindler, B., R. Gordon, M.W. Brunson and C. Olsen. 2011. Public perceptions of sagebrush ecosystem management in the Great Basin. *Rangeland Ecology & Management* 64:335-343.

Brunson, M.W., and E.A. Burritt. 2009. Behavioral factors in rotational grazing systems. *Rangelands* 31(5):20-25.

Brunson, M.W., and \*E.A. Price. 2009. Information use and delivery preferences among small-acreage owners in areas of rapid exurban population growth. *Journal of Extension* 47(5). Article 5FEA4. [Available online at <http://www.joe.org/joe/2009october/a4.php>].

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\*Tidwell, L.S., and M.W. Brunson. 2008. Volunteering to manage rangeland weeds: Results of a citizen survey in the southwestern U.S. *Rangelands* 30(4): 19-24.

\*Conley, J.L., M.E. Fernandez-Gimenez, G.B. Ruyle and M.W. Brunson. 2007. Forest Service grazing permittee perceptions of the Endangered Species Act in southeastern Arizona. *Rangeland Ecology and Management* 60:136-145.

\*Elmore, R.D., T.A. Messmer and M.W. Brunson. 2007. Perceptions of wildlife damage and species conservation: lessons learned from the Utah prairie dog. *Human-Wildlife Conflict* 1(1):78-88.

\*Kennedy, C.A., and M.W. Brunson. 2007. Creating a culture of innovation in ranching: A study of outreach and cooperation in west-central Colorado. *Rangelands* 29(3):35-40.

Peters, D.C., O.E. Sala, C.D. Allen, A. Covich and M. Brunson. 2007. Cascading events in linked ecological and socio-economic systems. *Frontiers in Ecology and the Environment* 4:221-225.

Resnik, J., G. Wallace, M. Brunson and J. Mitchell. 2006. Open spaces, working places. Rangelands 28(5):4-9

\*Salmon, O., M.W. Brunson and M. Kuhns. 2006. Benefit-based audience segmentation: A tool for identifying non-industrial private forest (NIPF) owner education needs. *Journal of Forestry* 104(8):419-425.

\*Toman, E., B. Shindler and M. Brunson. 2006. Fire and fuel management communication strategies: Citizen evaluations of agency outreach programs. *Society and Natural Resources* 19:321-336.

Brunson, M.W., and \*J. Evans. 2005. Badly burned? Effects of an escaped prescribed burn on social acceptability of wildland fuels treatments. *Journal of Forestry* 103 (April/May): 134-138.

Shelby, B., J. Thompson, M.W. Brunson and R.L. Johnson. 2005. Changes in recreation quality after harvest: A decade of ratings for six silviculture treatments. *Journal of Environmental Management* 75(3): 239-246.

Brunson, M.W., and B.A. Shindler. 2004. Geographic variation in social acceptability of wildland fuels management in the western U.S. *Society and Natural Resources* 17:661-678.

\*Didier, E.A., and M.W. Brunson. 2004. Adoption of range management innovations by Utah ranchers. *Journal of Range Management* 57:330-336.

\*Bartel, R., and M.W. Brunson. 2003. Effects of a coyote bounty program on hunters’ and trappers’ behavior. *Wildlife Society Bulletin* 31(3):736-743.

Brunson, M.W., and \*L. Gilbert. 2003. Recreationist responses to livestock grazing in a new national monument. *Journal of Range Management* 56:570-576.

Brunson, M.W. 2003. Crisis, context, and the reluctant socialization of the range profession. *Rangelands* 25(6):16-21.

Shelby, B., J. Thompson, M. Brunson & R. Johnson. 2003. Scenic quality after harvest: A decade of ratings for six silviculture treatments. *Journal of Forestry* 101(2):30-36.

Brown, J.R., T.Svejcar, M. Brunson, J. Dobrowolski, E. Fredrickson, U. Kreuter, K. Launchbaugh, J. Southworth, and T. Thurow. 2002. Range sites: are they the appropriate spatial unit for measuring and managing rangelands? *Rangelands* 24(6):7-12.

McClaran, M.P., M.W. Brunson and L. Huntsinger. 2001. Future social changes and the rangeland manager. Rangelands 23(6):33-35.

Messmer, T.A., M.W. Brunson, \*D.K. Reiter and D.G. Hewitt. 1999. U.S. public attitudes regarding predators and their management to enhance avian recruitment. *Wildlife Society Bulletin* 27(1):75-85.

\*Reiter, D.K., M.W. Brunson, and R.H. Schmidt. 1999. Public attitudes toward wildlife damage management and policy. *Wildlife Society Bulletin* 27:746-758.

Endter-Wada, J., D. Blahna, R. Krannich and M. Brunson. 1998. A framework for understanding social science contributions to ecosystem management. *Ecological Applications* 8(3):891-904.

Kuhns, M.R., M.W. Brunson and S.D. Roberts. 1998. Landowners’ educational needs and how foresters can respond to them. *Journal of Forestry* 96(8):38-43.

Brunson, M.W. 1996. Integrating "human habitat" requirements into ecosystem management strategies: a case study*. Natural Areas Journal* 16(2):100-107.

Brunson, M.W., and \*D.K. Reiter. 1996. Effects of ecological information on judgments about scenic impacts of timber harvest. *Journal of Environmental Management* 46:31-41.

Brunson, M.W., and B.S. Steel. 1996. Sources of variation in attitudes and beliefs about federal rangeland management. *Journal of Range Management* 49:69-75.

Brunson, M.W., D.T. Yarrow, S.D. Roberts, D.C. Guynn Jr., and M.R. Kuhns. 1996. Nonindustrial private forest owners and ecosystem management: Can they work together? *Journal of Forestry* 94(6):14-21.

Rasmussen, G.A., and M.W. Brunson. 1996. Strategies to manage conflicts among multiple users. *Weed Technology* 10:447-450.

Brunson, M.W. 1995. The changing role of wilderness in ecosystem management. *International Journal of Wilderness* 1(1):9-13.

Brunson, M.W., and B.S. Steel. 1994. National public attitudes toward federal rangeland management. *Rangelands* 16(2):77-81.

Johnson, R.L., M. Brunson and \*T. Kimura. 1994. Using image capture technology to assess scenic value at the urban/forest interface: A case study. *Journal of Environmental Management* 40:183-195.

Brunson, M. 1993. "Socially acceptable" forestry: what does it imply for ecosystem management? *Western Journal of Applied Forestry* 8(4):116-119.

Brunson, M.W., and B. Shelby. 1993. Recreation substitutability: A research agenda. *Leisure Sciences* 15(1):67-74.

Brunson, M.W. 1992. Professional bias, public perspectives, and communications pitfalls for natural resource managers. *Rangelands* 14(5): 292-295.

Brunson, M.W., and B. Shelby. 1992. Assessing recreational and scenic quality: How does "New Forestry" rate? *Journal of Forestry* 90(7): 37-41.

Brunson, M.W., and B. Shelby. 1991. Activity-related differences in campsite preference: Potential causes and implications for management. *Western Journal of Applied Forestry* 6(3): 78-81.

Brunson, M.W., and B. Shelby. 1990. A hierarchy of campsite attributes in dispersed recreation settings. *Leisure Sciences* 12: 197-209.

### Peer-reviewed book chapters and technical reports (\*graduate/undergraduate advisee co-author)

Brunson, M.W. 2020. Rangeland policy and management in a changing West: political marginalization and a crisis of trust. Ch. 3 in: E. Wolters and B. Steel, eds. *The Environmental Politics and Policy of Western Public Lands.* Corvallis, OR: Oregon State University Press.

Baril, L., K. Struthers, and M. Brunson 2019. *Tonto National Monument – Natural Resource Condition Assessment.* National Park Service, Natural Resource Report NPS/NCPN/NRR—2019/2012.

Baril, L., K. Struthers, and M. Brunson 2019. *Casa Grande Ruins National Monument – Natural Resource Condition Assessment.* National Park Service, Natural Resource Report NPS/NCPN/NRR—2019/1979.

Baril, L., K. Struthers, and M. Brunson 2019. *Aztec Ruins National Monument – Natural Resource Condition Assessment.* National Park Service, Natural Resource Report NPS/NCPN/NRR—2019/1984.

Baril, L., K. Struthers, A. Hubbard, A. Mateljak, D. Angell, and M.W. Brunson. 2019. *Gila Cliff Dwellings National Monument – Natural Resource Condition Assessment.* National Park Service, Natural Resource Report NPS/NCPN/NRR—2019/1961.

Baril, L., K. Struthers, A. Hubbard, A. Mateljak, D. Angell, and M.W. Brunson. 2019. *Tumacácori National Historical Park – Natural Resource Condition Assessment.* National Park Service, Natural Resource Report NPS/NCPN/NRR—2019/1965.

Baril, L., K. Struthers, A. Hubbard, A. Mateljak, D. Angell, and M.W. Brunson. 2019. *Montezuma Castle and Tuzigoot National Monuments – Natural Resource Condition Assessment.* National Park Service, Natural Resource Report NPS/NCPN/NRR—2019/1966.

Baril, L., K. Struthers, and M. Brunson 2018. *Golden Spike National Historic Site – Natural Resource Condition Assessment.* National Park Service, Natural Resource Report NPS/NCPN/NRR—2018/1777.

Pyke, D.A., J.C. Chambers, M. Pellant, R.F. Miller, J.L. Beck, P.S. Doescher, B.A. Roundy, E.W. Schupp, S.T. Knick, M.W. Brunson, and J.D McIver. 2017. *Restoration Handbook for Sagebrush Ecosystems with Emphasis on Greater Sage-Grouse Habitat. Part 3. Site Level Restoration Decisions.* U.S. Geological Survey Circular 1426. 62 p.

Hruska, T., L. Huntsinger, M. Brunson, W. Li, N. Marshall, J. Oviedo, and \*H. Whitcomb. 2017. Rangelands as social-ecological systems. Pp. 263-302 *in* D. Briske, ed., *Rangeland Systems: Processes, Management and Challenges.* Cham, Switzerland: Springer Open.

Brunson, M.W., and \*H. Kartchner. 2016. Human dimensions of invasive grasses. Pp. 409-428 *in* C. Brown, M. Germino, and J. Chambers, eds. *Exotic annual Bromus grasses in semiarid ecosystems of the Western U.S.: assessing causes, consequences, and management alternatives*. New York: Springer.

\*Saengawut, V.C., M.W. Brunson and P. Howe. 2016. Localized risk perception of wildland fire hazard. Pp. 13-31 *in* *Managing Fire, Understanding Ourselves: Human Dimensions in Safety and Wildland Fire.* Proceedings of the 13th International Wildland Fire Safety Summit $ 4th Human Dimensions of Wildland Fire conference, Boise, ID, April 20-24, 2015.

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Tanaka, J.A., M. Brunson and L.A. Torell. 2011. A social and economic assessment of rangeland conservation practices. Pp. 371-422 *in* D.D. Briske, ed. *Conservation Benefits of Rangeland Practices: Assessment, Recommendations, and Knowledge Gaps.* Lawrence, KS: Allen Press.

McCollum, D.W., L.E. Swanson, J.A. Tanaka, M.W. Brunson, A.J. Harp, L.A. Torell, and H.T.Heintz Jr. 2010. Criterion IV: Social and economic indicators of rangeland sustainability. Pp. 173-221 *in* Mitchell, John E. (ed.). 2010. *Criteria and Indicators of Sustainable Rangeland Management.* Laramie, WY: University of Wyoming Extension Publication No. SM-56. 227 p. [Online at <http://www.rangelands.org/pdf/srm_monograph_final.pdf>]

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Havstad, K., D. Peters, B. Allen-Diaz, J. Bartolome, B. Bestelmeyer, D. Briske, J. Brown, M. Brunson, J. Herrick, L. Huntsinger, P. Johnson, L. Joyce, R. Pieper, T. Svejcar and J. Yao. 2009. The western United States rangelands: A major resource. Pp. 75-94 *in* W.F. Wedin and S.L. Fales, eds. *Grassland: quietness and strength for a new American agriculture*. Madison, WI: American Society of Agronomy.

\*Wilmot, S., and M. Brunson. 2008. Public perceptions of land management in the Great Basin. Pp. 14-19 in Chambers, Jeanne C.; Devoe, Nora; Evenden, Angela, eds. 2008. *Collaborative management and research in the Great Basin — examining the issues and developing a framework for action*. Gen. Tech. Rep. RMRS-GTR-204. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 66 p.

Shindler, B.A., and M.W. Brunson. 2004. Social acceptability in forest and range management. Pp. 147-157 in M.J. Manfredo, J. Vaske, B.L. Bruyere, D.R. Field, and P.J. Brown, eds. *Society and Natural Resources: A Summary of Knowledge.* Columbia, MO: Modern Litho.

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\*Hoss, A.F., and M.W. Brunson. 2000. Meanings and implications of acceptability judgments for wilderness use impacts. Pp. 128-133 in Cole, D.N., and S.F. McCool, eds. *Wilderness Science in a Time of Change Conference — Volume 4: Wilderness Visitors, Experiences, and Visitor Management.* Proceedings RMRS-P-15. Ogden, UT: USDA Forest Service, Rocky Mountain Research Station.

Landres, P.B., M.W. Brunson, L. Merigliano, C. Sydoriak and S. Morton. 2000. Naturalness and wildness: the dilemma and irony of managing wilderness. Pp. 377-381 in Cole, D.N., and S.F. McCool, eds. *Wilderness Science in a Time of Change Conference — Volume 5: Wilderness Ecosystems, Threats, and Management.* Proceedings RMRS-P-15. Ogden, UT: USDA Forest Service, Rocky Mountain Research Station.

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Brunson, M., and D. Rodriguez. 1993. Standards for managing non-wilderness recreation areas. *Defining Wilderness Quality: The Role of Standards in Wilderness Management - A Workshop Proceedings.* USDA Forest Service Gen. Tech. Rep. PNW-305. Portland, Ore.: Pacific Northwest Research Station, pp. 61-66.

**Invited articles and book chapters**

McDonough McKenzie, C., B. Barak, S. Bayer, M. Bletz, M. Brunson, J. Dudney, O. Gaoue, J. Gill, A. Harris, S. Kuebbing, B. McGill, M. Nocco, R. Tonietto, M. Vahsen, and E. Waring. 2020. Plant Love Stories: share your story and grow a movement. *Bulletin of the Ecological Society of America* 101:e01663. <https://esajournals.onlinelibrary.wiley.com/doi/full/10.1002/bes2.1663>

Brunson, M. 2019. A love-hate story: the allergy tree. *Wildflowers* 36:32.

Brunson, M. 2008. Gauging the acceptability of fuels management: A matter of trust. *Rural Connections* 2(3):2-4. Logan, UT: Western Rural Development Center. Available on-line at <http://wrdc.usu.edu/files/uploads/Newsletter/RC_apr08/RuralConnections_apr08_web.pdf>

Brunson, M.W., and L. Huntsinger. 2007. Rancher demographics, socioeconomic pressures, and the challenge of meeting conservation goals. *Quivira Coalition Journal* 31(Sept):24-30.

Johnson, R.L., B. Shelby, M. Brunson and J. Leahy. 2005. Socioeconomic responses to silvicultural alternatives. Ch. 6 (pp. 88-103) in C.C. Maguire and C.L. Chambers, eds. *College of Forestry Integrated Research Project: Ecological and Socioeconomic Responses to Alternative Silvicultural Treatments.* Research Contribution No. 46, Forest Research Laboratory, Corvallis, OR.

Tanaka, J., L.A. Torell, L.E. Swanson, M.W. Brunson, D.W. McCollum, and H.T. Heintz Jr. 2003. Indicators for maintenance and enhancement of multiple economic and social benefits to current and future generations. In J. Mitchell, E.T. Bartlett, H. Rowe and L. Hidinger (eds.) *A First Approximation Report by the Sustainable Rangelands Roundtable*. Fort Collins, CO: Colorado State University.

Brunson, M.W. 2002. Status of social criteria and indicators. Pp. 55-58 in *Sustainable Rangeland Management: Status of a Roundtable to Determine Criteria and Indicators: Proceedings of a Symposium Sponsored by the Sustainable Rangelands Roundtable*. Prepared for the annual meeting of the Society for Range Management, Kansas City, Mo., Feb 13-19, 2002.

Brunson, M.W. 2002. Collaborative stewardship: views from both sides now. Pp. 240-244 in: G.K. Meffe, L.A. Nielsen, R.L. Knight and D.A. Schenborn. *Ecosystem Management: Adaptive, Community-Based Conservation.* Washington, DC: Island Press.

Brunson, M.W., and G.N. Wallace. 2002. Perceptions of ranching: public views and personal reflections. Pp. 91-105 in Knight, W. Gilgert, and E. Marston, eds. *The Culture, Economics, and Ecology of Ranching West of the 100th Meridian*. Washington, DC: Island Press.

Brunson, M.W. 1999. Integrating environmental and agricultural policy: a North American perspective. Pp. 493-497 in J. Buchanan-Smith, L.D. Bailey & P. McCaughey, eds. *Proceedings of the XVIII International Grassland Congress (Volume 3)*. Calgary, Alberta, Canada: Association Management Centre.

Brunson, M.W. 1998. Social dimensions of boundaries: balancing cooperation and self-interest. Pp. 65-86 in R. Knight and P. Landres, eds., *Stewardship Across Boundaries.* Washington, D.C.: Island Press.

Steel, B.S., B. Shindler and M.W. Brunson. 1998. Social acceptability of ecosystem management in the Pacific Northwest. Pp. 147-160 in D. Soden, B.L. Lamb, and J.R. Tennert, eds., *Ecosystems Management: A Social Science Perspective*. Dubuque, Iowa: Kendall-Hunt.

Brunson, M.W. 1996. Human dimensions in silviculture. Ch. 6 in A.W. Ewert, ed., *Natural Resource Management: The Human Dimension.* Boulder, Colo.: Westview.

Mitchell, J.E., and M.W. Brunson. 1996. Society and range management: a commentary. *Journal of Range Management* 49:68.

Brunson, M.W., and J.J. Kennedy. 1995. Redefining "multiple use": agency responses to changing social values. Pp. 143-158 in *A New Century for Natural Resources Management*. R.L. Knight and S. Bates, eds. Island Press.

**Other scholarly publications and research reports (\*graduate/undergraduate advisee co-author)**

Smith, J., Monz, C., Miller, Z., and Brunson, M. 2019. We’ve Been Here Before – Science Should Shape Off-Highway Vehicle Policy in National Parks (op-ed article). *Salt Lake Tribune,* Sunday, Oct. 13, 2019.

Brunson, M.W. 2017. Public perceptions of public lands grazing: from bad news to not-so-bad after all. *Proceedings, 6th National Conference on Grazing Lands.* Fort Worth, TX: National Grazing Lands Coalition.

Brunson, M.W. 2016. The paradox of living in the woods (book review). *Journal of Forestry* 114:160.

Brunson, M. 2014. Go-back land: restoring abandoned farmland and sustaining farm towns. National Socio-Environmental Synthesis Center teaching case study 2014-1. Online at <http://www.sesync.org/go-back-land-restoring-abandoned-farmland-and-sustaining-farm-towns-2014-1>.

Brunson, M. 2014. Improving public support for restoration plans: A matter of trust. SageSTEP News 24:1-3. Online at: <http://www.sagestep.org/pdfs/newsletter/SageSTEP_News_Issue_24.pdf>

Brunson, M., \*L. Gilbert, L. Green, J. Holmstead, \*J. Ostermiller, J. Phelps, and A. Tallian. 2014. Guest commentary: Taking science to the streets of Cache Valley. Logan *Herald Journal*, 7 May 2014. Online at <http://news.hjnews.com/allaccess/guest-commentary-taking-science-to-the-streets-of-cache-valley/article_25356382-d63b-11e3-b48a-0019bb2963f4.html>.

\*Hoffmann, S., and M. Brunson. 2012. Monitoring road dust emission and related dust effects and dust management in national parks. Protocol completed and submitted to the National Park Service, Southeast Utah parks, August 2012. Online at: <http://extension.usu.edu/iort/files/uploads/pdfs/road_dust_monitoring_protocol.pdf>.

\*Hoffmann, S., M. Brunson and S. Olsen. 2010. A field guide to stakeholder groups for Great Basin sagebrush steppe restoration. Logan, UT: SageSTEP. Online at: <http://www.sagestep.org/pubs/stakeholderguide.html>.

Brunson, M. 2007. Grazing and social change: Understanding potential effects of exurban expansion. Pp. 237-239 in *Proceedings, 3rd National Grazing Lands Conference*. Lawrence, KS: Allen Press.

Shindler, B., R. Gordon and M. Brunson. 2007. Public priorities for rangeland management: A regional survey of citizens in the Great Basin. Logan, UT: SageSTEP. Online at: <http://www.sagestep.org/pubs/pubs/006citizen_survey_summary.pdf>.

Brunson, M., and \*J. Peterson. 2006. Comparing citizens’ and managers’ concerns about sagebrush management and restoration in the Great Basin. Logan, UT: SageSTEP. Online at <http://www.sagestep.org/pubs>.

Shindler, B., and M.W. Brunson 2005. Evaluating Public Responses to Wildland Fuels Management: Factors that Influence Acceptance of Practices and Decisions. Final project report to the Joint Fire Science Program. JFSP Project 99-1-2-08. June 2005.

\*Wilmot, S., and M.W. Brunson. 2005. Conservation Attitudes of Rural Landowners near Fort Hood, Texas. Final report to The Nature Conservancy, Fort Hood office and Texas Conservation Data Center, Killeen, TX, February 2005.

Brunson, M.W. 2002. Evaluating a Nature-Based Tourism Event. Publication NR/RF/010. Institute of Outdoor Recreation and Tourism, Utah State University.

Landres, P., M.W. Brunson and L. Merigliano. 2001. Naturalness and wildness: the dilemma and irony of ecosystem restoration in wilderness. *Wild Earth* 10(4):77-82.

Brunson, M.W. 2000. Observing vs. doing: a researcher looks at collaboration. *Chronicle of Community* 4(2):47-52.

Brunson, M.W. 1999. A sociopolitical model of factors enhancing rangeland collaboration. Pp. 181-183 in People and Rangelands: Proceedings of the 6th International Rangeland Congress. Aitkenvale, Queensland, Australia: International Rangeland Congress, Inc.

Brunson, M.W., and \*T. Christensen. 2000. Visitor Experiences and Resource Protection at Antelope Island State Park. Professional Report 1999-01, Institute for Outdoor Recreation and Tourism, Utah State University, Logan

Brunson, M.W., and \*B. Nicholson. 1999. Use, Attitudes, and Beliefs about the Great Salt Lake Among Davis County Residents. Professional Report 1999-02, Institute for Outdoor Recreation and Tourism, Utah State University, Logan

Kruger, L.E., C.B. Tyler and M.W. Brunson. 1997. Social acceptability in ecosystem management. Challenges Facing Resource Management and Research No. 17, USDA Forest Service, Pacific Northwest Research Station.

Kuhns, M.R., M.W. Brunson and S.D. Roberts. 1997. Educational needs and expectations of forest landowners in two regions of the United States. Pp. 63-71 in R. Hubner and R. Beck, eds. Approaches to Extension in Forestry — Experiences and Future Developments: Proceedings, IUFRO Working Party S6.06-03 Extension Symposium, 30 September-4 October 1996, Freising, Germany. Munich: International Union of Forestry Research Organizations and Ludwig Maximilians Universität.

Brunson, M.W., G.A. Rasmussen and \*K.J. Richardson. 1996. Acceptability of range practices and policies among general and ranching publics. Pp. 72-73 in N. West, ed., Proceedings, Fifth International Rangeland Congress, Volume 1. Denver, Colo.: Society for Range Management.

Brunson, M.W., and R. Reese. 1995. Break-out session 3: the Northern Rockies. Pp. 81-84 in Ecosystem Management of Natural Resources in the Intermountain West. Vol. V, Natural Resources and Environmental Issues, Utah State University, Logan.

\*Reiter, D.K., M.W. Brunson, and R.H. Schmidt. 1995. Public attitudes toward predators in Texas. Pp. 85-86 in D. Rollins et al., eds., Proceedings, Coyotes in the Southwest: a compendium of our knowledge. Texas Agricultural Extension Service, San Angelo, TX, 180 p.

Brunson, M.W. 1995. The Wisdom of the Spotted Owl: Policy lessons for a new century (Book Review). *Western Journal of Applied Forestry* 10(2):48,52.

Brunson, M.W., \*K.J. Richardson and G.A. Rasmussen. 1995. Identifying Issues, Concerns, and Opportunities for Utah's Privately Owned Rangelands Under Ecosystem Management. Final project report to State of Utah Mineral Lease program.

Brunson, M.W., and \*D.K. Reiter. 1994. Effects of Information and Post- Harvest Recovery Time on Perceived Scenic Quality of Managed Forest Stands. Final project report to State of Utah, Mineral Lease Funds program.

Brunson, M. 1993. Public Acceptability of Management Practices and Conditions in Pacific Northwest "Matrix" Forests. Report to the Forest Ecosystem Management Team, President's Post-Conference Group, April 30, 1993. 50 p.

Brunson, M.W. 1993. The "Social Acceptability" Component of Ecosystem Management: Synthesis and Problem Analysis. Final project report to Pacific Northwest Research Station, Seattle, Wash., December 1993. 43 p.

Brunson, M.W. 1992. The contribution of scenery to recreation site quality. 13th Annual Intermountain Leisure Symposium: Proceedings Papers. Logan, Utah: Utah State University, pp. 22-32.

Brunson, M.W. 1992. Social acceptability of silvicultural practices. Natural Resource News 2(3):10. (Blue Mountains Natural Resources Institute, LaGrande, Ore.)

Brunson, M.W. 1992. Social Acceptability of New Perspectives Practices and Conditions. Final project report to the Cascade Center for Ecosystem Management and USDA Forest Service, Pacific Northwest Research Station, 156 p.

Brunson, M., B. Shelby, and R.L. Johnson. 1992. Current Use and Potential Impacts of Whitewater Recreation in Oregon. Final technical completion report #WRRI-111. Oregon Water Resources Research Institute, Corvallis, 30 p.

Shelby, B., R.L. Johnson, and M. Brunson. 1990. Comparative Analysis of Whitewater Boating Resources in Oregon: Toward a Regional Model of River Recreation. Final technical completion report #WRRI-108. Oregon Water Resources Research Institute, Corvallis, 143 p.

Shelby, B., J. Goodwin, M. Brunson, and D. Anderson. 1989. Impacts of Recreation Use Limits in the Alpine Lakes Wilderness. Final report, Project #PNW 87-243, USDA Forest Service, Pacific Northwest Region, 105 p.

**Publications edited**

Brunson, M.W., L.E. Kruger, C.B. Tyler, and S.A. Schroeder, technical editors. 1996. *Defining social acceptability in ecosystem management: a workshop proceedings.*  USDA Forest Service Gen. Tech. Report PNW-369, Pacific Northwest Research Station, Portland.

**Contracts and grants**

Research

USDA-National Institutes of Food and Agriculture, 2017-2020, “A pre-emptive rangeland restoration approach to improving biodiversity and provision of ecosystem services,” $499,213 (co-investigator on award to USU).

National Science Foundation, “CNH-L: Scale-dependent feedbacks among protected areas and surrounding social-ecological systems,” 2016-2020, $243,121 (co-investigator on multi-institutional project, total award $1,305,006).

Utah Division of Wildlife Resources, “Efficacy of Translocation as a Management Tool for Urban Mule Deer,” 2015-2017, $21,453 (co-investigator).

Utah State University, Office of Research & Graduate Studies, “Integrating Ecological, Economic, and Social Components to Improve Effectiveness of Landscape Restoration, 2015-17, $54,000 (co-investigator).

Utah Division of Wildlife Resources, “Information on Public Opinion Regarding Fur-Bearers (especially Beaver),” 2013-14, $10,184.

USDA-National Institutes of Food and Agriculture, “Weather data and forecasting applications for management of ecological site transitions,” 2012-15, $101,094, (co-investigator on multi-institutional project, total award $437,099).

USDA-National Institute of Food and Agriculture, “A systems approach to seedling establishment on degraded rangeland: Managing ecological processes driving recruitment bottlenecks2011-14, $15,000 (co-investigator on multi-institutional project, total award $499,034).

USDA Forest Service, Rocky Mountain Research Station, SageSTEP: A Regional Experiment to Evaluate Effects of Fire and Fire Surrogate Treatments, 2011-2015, $90,509 (co-investigator on multi-institutional project, total award $1.8 million)

USDA-National Institute of Food and Agriculture, “Climate Driven Invasive Grass-Fire Cycles: Understanding Ecosystem Responses for Effective Pre- and Post-fire Management of Great Basin and Mojave Rangelands,” 2010-13, $100,578 (co-investigator on multi-institutional project, total award $419,173).

Utah State University Research Catalyst Award, “Behavioral, Attitudinal, and Ecological Factors Influencing the Management of Invasive Frogs in Hawaiian Agroecosystems,” 2009, $19,983.

Utah Community/University Research Initiative, “Small-acreage Landowners’ Knowledge, Management Goals, and Information Sources about Utah Rangelands,” 2007-2008, $22,332.

USDA Forest Service, Rocky Mountain Research Station, “Problem Analysis: Social Aspects of Restoring Great Basin Ecosystems,” 2006-2007, $13,804.

USDA-CSREES National Research Initiative (NRI), “Prescribed Fire in Riparian Zones Affected by Conifer Expansion: Ecological, Hydrologic, and Socio-Economic Effects,” 2006-2009, $105,000 (principal investigator of multi-investigator project, total award $394,426.)

USDA-USDI Joint Fire Science Program, “A Regional Experiment to Evaluate Effects of Fire and Fire Surrogate Treatments in the Sagebrush Biome,” 2005-2010, $527,000 (co-investigator on multi-investigator project, total award $12.9 million).

Texas Nature Conservancy, “Conservation Attitudes of Rural Landowners near Fort Hood, Texas,” 2004-05, $18,720.

Utah Forest Landowner Education Program, “Management Motives and Education Needs of Utah’s Private Forest Landowners,” 2003-2005, $44,972.

USDA-CSREES Initiative for Future Agriculture and Food Systems (IFAFS), “Consortium for the Application of Behavioral Principles to Management,” 2001-2005, $98,000 (co-principal investigator on multi-investigator project, total award $4.2 million).

USDA-CSREES Initiative for Future Agriculture and Food Systems (IFAFS), “Southwest Rangeland Invasive Plants Initiative,” 2000-2004, $108,000 (co-investigator on multi-institutional project, total award $625,000).

USDA/USDA Joint Fire Science Program, “Evaluating Public Responses to Wildland Fuels Management Practices,” 1999-2002, $103,000 (co-investigator, total award $275,000).

Utah Agricultural Experiment Station, “Adoption of Innovations for Enhanced Ranch Sustainability,” 1999-2002, $59,000 (co-investigator, total award $840,000).

Utah Division of State Parks, “Antelope Island Visitor Study,” 1999, $13,000.

Bureau of Land Management, “Grand Staircase-Escalante National Monument Visitor Study,” 1997-2000, $70,000.

USDA Forest Service-Pacific Northwest Research Station, “Social Acceptability of Forest Management Practices and Conditions: A Problem Analysis,” 1997-99, $16,500.

USDA Forest Service-Aldo Leopold Wilderness Research Institute, “Assessing Low-Impact Recreation Attitudes and Behaviors in Desert Wildernesses,” 1996-98, $44,000.

USDA Forest Service-Uinta National Forest, “National Forest Volunteer Survey,” 1996-98, $22,000.

Utah National Guard, “Social and Environmental Assessment of Natural Resource Management Activities at Camp Williams,” 1995-96, $25,000.

Utah Division of Forestry, Fire and State Lands, “Landowner Motivations and Timber Harvest Activities on Utah’s Private Forest Lands,” $4,000, 1995.

USDA-CSREES Renewable Resources Extension Grant, Non-Industrial Private Forest Owner Attitudes toward Ecosystem Management, 1994-96, $11,800 (total award $35,000).

USDA-Animal Damage Control, Public Attitudes toward Federal Wildlife Damage Management, 1994-96, $25,000.

USDA-Pacific Northwest Research Station, Adoption of Ecosystem Management on Northern Rockies National Forests, $10,000.

Utah Agricultural Experiment Station, “Identifying Issues, Concerns, and Opportunities for Utah’s Privately Owned Rangelands under Ecosystem Management,” 1994-95, $11,600.

Utah Agricultural Experiment Station, “Effects of Ecological Information on Acceptability of Timber Harvest,” $15,000, 1993-94.

USDA-Pacific Northwest Research Station, “Defining Social Acceptability in Ecosystem Management,” 1992-94, $56,000

Outreach, Communication & Land Management Assistance

Joint Fire Science Program, “Great Basin Fire Science Exchange,” 2020-2022, $26,757 (lead investigator on multi-institutional project total award $402,000).

National Park Service, “Natural Resource Condition Assessment for Capital Reef National Park,” 2020-2021, $80,000.

National Park Service. “Natural Resource Condition Assessment for Glen Canyon National Recreation Area and Valles Caldera National Preserve,” 2019-2020, $139,990.

Joint Fire Science Program, “Great Basin Fire Science Exchange,” 2018-2020, $20,376 (lead investigator on multi-institutional project total award $402,000).

National Park Service, “Natural Resource Condition Assessment for Tonto National Monument,” 2017-2019, $74,137.

National Park Service, “Natural Resource Condition Assessment for Casa Grande Ruins National Monument,” 2017-2020, $65,728.

National Park Service, “Natural Resource Condition Assessment for Tumacacori National Historic Park,” 2017-2019, $24.158.

National Park Service, “Natural Resource Condition Assessment for Gila Cliff Dwellings National Monument,” 2017-2019, $29,226.

National Park Service, “Natural Resource Condition Assessment for Montezuma Castle and Tuzigoot National Monuments,” 2017-2019, $52,490.

Joint Fire Science Program, “Great Basin Fire Science Exchange,” 2016-2018, $19,778 (co-investigator on multi-institutional project total award $449,992).

National Park Service, “Preparing Natural Resource Condition Assessments (NRCAs) for Seven Intermountain Region Park Units,” 2015-2019, $443,902.

National Park Service, “Developing and Integrating Landscape-Scale Context into Natural Resource Condition Assessment,” 2014-16, $84,700.

National Park Service, “Preparation of Natural Resource Condition Assessment Reports for Five Intermountain Region Parks,” 2013-2015, $61,065.

National Park Service, “Science Communication Assistance for Devil’s Postpile National Monument,” 2013-14, $9,927.

National Park Service (Yellowstone NP), “Tribal Consultation and Science Communication Assistance,” 2013-14, $12,574.

National Park Service, “Contemporary Tribes of Capitol Reef National Park,” 2012-14, $13,500.

National Park Service, “Preparation of Natural Resource Condition Assessment Reports for Bent’s Old Fort, Fort Davis, and Fort Larned National Historic Sites, “ 2012-14, $42,463.

National Park Service, “2012-13 Science Communication Assistance (Bighorn Canyon/Yellowstone/Delaware Water Gap),” 2012-13, $33,693.

National Park Service, “Science Communication Assistance for Yosemite National Park,” 2012-14, $4,000.

National Park Service (Whiskeytown NRA), “Develop Outreach and Interpretive Materials to Communicate Best Management Practices for Confronting Illegal Marijuana Cultivation,” 2012-14, $14,229.

Yellowstone Association, “Support for Resource Education Assistance,” 2012, $5,042.

National Park Service (Rocky Mountain NP). “Science and Stewardship: Professional Development for Seasonal Employees,” 2011-12, $12,500.

National Park Service. “Paiutes of Capitol Reef National Park,” 2010-12, $20,000.

National Park Service (Little Bighorn Battlefield, Sand Creek Massacre NHS, Washita Battlefield NHS), “Preparation of a Natural Resource Condition Assessment Report for Three Intermountain Region Parks,” 2011-12, $32,962.

National Park Service, “Lessons Learned and Success Stories: Recruiting, Retention and Outreach Materials,” 2011-12, $14,970.

National Park Service and the Yellowstone Association, “FY 12 Support for Science Communication Assistance,” 2011-12, $32,987.

National Park Service, “Content Development for Science Learning Centers,” 2010-2013, $74,897.

National Park Service (Rocky Mountain National Park). “Natural Resource Assessment Workshop: A Pilot Demonstration Project at Rocky Mountain National Park,” 2009-2011, $18,000.

National Park Service (Yellowstone National Park, Southern Plains and Greater Yellowstone Inventory & Monitoring Networks), "Science Communication Assistance," 2008-2010, $62,500.

National Park Service (Rocky Mountain National Park), "Workplace Implementation of Innovation/Adoption Strategies to Improve the Use of Science in Management Decisions," 2008-2011, $19,151

Western Region-Sustainable Agriculture Research and Education (SARE), Producer Development Program, “Disseminating Research-Based Information to Improve Great Basin Rangelands,” 2006-2008, $21,605.

Utah Division of Wildlife Resources, “Greater Great Salt Lake Ecosystem Wetlands Education Plan,” 1999-2000, $23,000 (co-investigator, total award $83,500).

Education and Graduate Training

National Socio-Environmental Synthesis Center (SESYNC), “Pursuit: Translational Ecology – A Pedagogical Framework to Integrate Natural and Social Sciences,” 2013-15. SESYNC paid travel expenses for 12 participants to meet periodically in Maryland to complete project.

**Outreach program administration**

Sagebrush Steppe Treatment Evaluation Program (SageSTEP). Role: principle investigator for outreach in Joint Fire Science Program-funded research program, 2005-present.

Great Basin Fire Science, a Joint Fire Science Program-funded learning exchange. Role: principal investigator, 2015-present; steering committee member, 2012-present

Innovative Urban Transitions and Aridregion Hydro-sustainability (iUTAH), a National Science Foundation-funded research and capacity-building program, Role: Director of Education, Outreach, and Diversity, 2014-2018.

National Park Service, administrator for science communication agreements with the Greater Yellowstone Science Learning Center, the Learning Center for the American Southwest, and numerous NPS units, 2008-14.

**Presentations at professional meetings and seminars (past 5 years, \*=invited presentation)**

Stakeholder Engagement: Who, When, Why, and How. (workshop co-presented with Amanda Bentley Brymer). Society for Range Management annual meeting, Denver, CO, Feb. 19, 2020.

Can Boundary-Spanning Collaborations Help Us Cross the Desire/Outcome Barrier? Society for Range Management annual meeting, Denver, CO, Feb. 19, 2020.

Addressing Barriers to Proactive Restoration for At-Risk Sagebrush Communities: A Causal Layered Analysis (poster). Society for Range Management annual meeting, Denver, CO, Feb. 17, 2020.

Crossing the Saturation-Capacity Barrier to Make Restoration Innovations More Usable, annual meeting of the Southwest Chapter, Society for Ecological Restoration, Tucson, AZ, Nov. 9, 2019.

\*Obstáculos y oportunidades para la adopción de nuevas tecnologías por los gerentes de pastizales (Barriers and opportunities for the adoption of new range management technologies), IX Congreso Internacional de Manejo de Pastizales , (9th International Rangeland Congress), Chihuahua, Mexico, October 18, 2019.

Encouraging Sustainable Grazing Innovations for the Colorado Plateau: Promise and Pitfalls. 15th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region, Flagstaff, AZ, Sept. 10, 2019

Irrigation, Ranching, and the Mysterious Resilience of a Threatened Orchid, 104th annual meeting, Ecological Society of America, Lousiville, KY, Aug. 14, 2019

\*Bold Aspirations, Modest Expectations: Can Research Collaborations Help Us Get Past the Desire/Outcomes Barrier? 104th annual meeting, Ecological Society of America, Lousiville, KY, Aug. 12, 2019

\*Manager and Public Perspectives on Wildfire Risk Mitigation, Utah All Lands All Hands Summit, Salt Lake City, UT, Feb. 6, 2019.

\*Challenges, Opportunities, and Outcomes of Translational Environmental Science, Biology Department/Idaho EPSCoR joint seminar, Idaho State University, Pocatello, ID, Jan. 31, 2019.

\*Psychological and Human Behavioral Responses to Wildland Fire, 39th annual meeting, Society of Ecological Toxicology and Chemistry – North America. Sacramento, CA, Nov. 8, 2018.

Making Community-Engaged Learning the Focus of an Online Course, Empowering Teaching Excellence Conference, Logan, UT, Aug. 15, 2018.

Temporal Trends in Tree Species Composition for Residential Landscapes in an Urbanized Semi-Arid Region, 103rd annual meeting, Ecological Society of America, Aug. 10, 2018.

Commodity, Legacy, and Destiny: How Western Ranchers Perceive Ecosystem Services, 2018 International Symposium on Society and Resource Management, Snowbird, UT, June 18, 2018.

\*Wild Horses on Public Rangelands, Humboldt State University, Eureka, CA, March 28, 2018.

\*Uncaptured Value from Rangeland Ecosystem Services: How Does What Ranchers Do Match What Researchers Measure? University of California, Berkeley, March 20, 2018.

\*Managing Great Basin Rangelands: Balancing Multiple Goals in a Complex Environment, California State University, Chico, March 8, 2017.

\*Role of Ecosystem Services in Guiding Management Choices by Public Land Ranchers, 71st annual meeting, Society for Range Management, Reno, NV, Jan. 29, 2018.

\*Translational Ecology: Engaging Stakeholders for Sustainable Action, EPA-Office of Research and Development Translational Science Training Workshop, Research Triangle Park, NC, Nov. 29-30, 2017.

Advancing a Water-Literate Workforce and Citizenry for Utah, Salt Lake County Watershed Symposium, West Valley City, UT, Nov. 15, 2017.

Condition of Natural Resources in Small to Medium-Sized National Park Units: An Assessment Synthesis for the Southwestern and South-Central U.S., 14th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region, Flagstaff, AZ, Sept. 12, 2017.

\*Pathways to Translational Ecology: From Accidental to Intentional, 102nd annual meeting, Ecological Society of America, Portland, OR, Aug. 9, 2017.

\*West Side Residents’ Opinions about the Jordan River and Three Creeks Confluence Project, Environmental Studies and Sciences Capstone, University of Utah, March 6, 2017

Beyond the Ivory Tower: University-Stakeholder Partnerships for Utah’s Water Future, Salt Lake County Watershed Symposium, West Valley City, UT, Nov. 16, 2016

Three Creeks Confluence Survey results, Salt Lake City Parks, Natural Lands, Trails, and Urban Forestry Advisory Board, Salt Lake City, UT, Oct. 20, 2017

\*Beliefs, behaviors, and behavior change strategies for management of exotic *Bromus* grasses, 101st annual meeting, Ecological Society of America, Fort Lauderdale, FL , Aug. 11, 2016.

\*Future Directions of Usable Socio-economic Science for Rangeland Sustainability, multiple briefings to cabinet agencies and NGOs in Washington, DC, June 15-16, 2016

\**Bromus* and Society: Beliefs, Behaviors, and Capacity for Change, Sagebrush Ecosystem Conservation: All Hands, All Lands conference, Salt Lake City, UT, Feb. 24, 2016.

**\***Barriers and Opportunities for Incorporating New Knowledge into Restoration Decision-Making, 69th annual meeting, Society for Range Management, Corpus Christi, TX, Feb. 1, 2016.

**Completed Graduate Theses Supervised**

Anzalone, Erin. 2017. *Community Supported Agriculture At Indian Creek Nature Center’s Sugar Grove Farm: Sustainable Farming For Iowa. .* Master of Natural Resources, Utah State University.

Baldwin, Benjamin. 2012. *Transforming Hiring and Retention in the National Park Service Intermountain Region: The “Pro Ranger” Program.* Master of Natural Resources, Utah State University.

Bukhari, Rizal. 1996. *Visitor Use of Interpretive Facilities at Fossil Butte National Monument, Wyoming.* M.S., Recreation Resource Management, Utah State University.

Carothers, Taya. 2018. *Justice and the River: Community Connections to an Impaired Urban River in Salt Lake City.* PhD, Environment and Society, Utah State University.

Chakreeyarat, Voravee. 2015*. Cultural, Demographic, and Environmental influences on Risk Perception and Mitigation on the Wildland-Urban Interface.* PhD, Human Dimensions of Ecossytem Science and Management, Utah State University.

Chung, Min-Gyo. 2009. *Estimates of Visits by Local Residents to Special Places on Public Lands in Southwestern Utah Using Spatial Interaction Models*. M.S., Geography, Utah State University.

Colestock, Kaia. 2006. *Landscape Scale Assessment of Contaminant Effects on Insectivorous Birds.* M.S., Ecology, Utah State University.

deAnguera, Alice. 2015. *The Canyonlands Research Center: Collaboration and Outreach Assessment and Recommendations. .* Master of Natural Resources, Utah State University.

Didier, E.A. 2002. *Adoption of Range Management Innovations by Utah Livestock Producers*. M.S., Range Science, Utah State University

Flinders, Sarah S. 2003. *Assessment of the national forest volunteer experience: Motives, satisfaction, and knowledge gained*. M.S., Recreation Resource Management, Utah State University.

Hays, Brian. 2014. *Canyonlands River Management: Analysis of the Management Situation. .* Master of Natural Resources, Utah State University.

Hoss, Amy F. 1996. *Acceptability Judgments and Coping Strategies for Wilderness Use Impacts*. M.S., Recreation Resource Management, Utah State University.

Howard, Channing R. 2018. *Efficacy of Translocation as a Management Tool for Urban Mule Deer in Utah.* M.S., Wildlife Biology, Utah State University (co-advisor)

Hoyt, Dillon. 2017. *East Canyon State Park Interpretive Signage Plan. .* Master of Natural Resources, Utah State University.

Jeppesen, David. 2003. *A Web-Based Resource for Collaborative Planning in Nevada BLM Offices.* Master of Natural Resources, Utah State University.

Kalnicky, Emily A. 2012. *A Coupled Human and Natural Systems Approach to Understanding an Invasive Frog,* Eleutherodactylus coqui, *in Hawaii.* PhD, Ecology, Utah State University.

Kennedy, Carrie A. 2005. *Learning and Adoption of Range Management Innovations among Ranchers in West-Central Colorado.* M.S., Range Science, Utah State University.

Kimura, Takashi. 1992. *The Value of Forested Landscapes for Adjacent Residents of an Urban Forest.* M.S., Forest Recreation Resources, Oregon State University.

Kobinsky, Leslie. 2019. *Assessing and Protecting Dark Night Skies in El Morro National Monument,* Master of Natural Resources, Utah State University.

Langston, Aaron. 2018. *Identifying Problems with and Possible Solutions to the Washington County Habitat Conservation Plan. .* Master of Natural Resources, Utah State University.

Meier, Noelle. 2013. *Sustainable Outdoor Recreation and the Forest Service: Agency Culture, Response to Change and Implications for the Future.* M.S., Human Dimensions of Ecosystem Science and Management, Utah State University.

Nay, Cameron. 2009. *Social Acceptability of Conifer Control and Sagebrush Restoration in the Northern Rocky Mountain Region*. M.S., Human Dimensions of Ecosystem Science and Management, Utah State University.

Nicholson, Brian. 2000. *Deconstructing Avalon: Stakeholder Perceptions of Wetlands in Northern Utah.* M.S., Watershed Science, Utah State University.

Palmer, Lael. 2001. *Recreation, Livestock Grazing, and Protected Resource Values in the Grand Staircase-Escalante National Monument.* M.S., Recreation Resource Management, Utah State University.

Reiter, Douglas K. 1999. *A Survey of the General Public Assessing Public Attitudes toward Animal Damage Control Management Policy*. M.S., Recreation Resource Management, Utah State University.

Richardson, Kimberly J. 1998. *Perceived Fairness and Effectiveness of Rangeland Collaborative Processes.* M.S., Range Science, Utah State University.

Ruehrwein, R. Joseph. 1998. *Exploring Knowledge, Attitudes and Reported Behaviors of Southern Utah Back-Country Recreationists*. M.S., Recreation Resource Management, Utah State University.

Salmon, Olivia L. 2005. *Management Objectives and Educational Needs of Nonindustrial Private Forest Landowners in Three Utah Counties, With Implications for Forestry Outreach Programs in the State*. M.S., Human Dimensions of Ecosystem Science and Management, Utah State University.

Schroeder, Susan A. 1996. *A Survey of Employees of the United States Department of Agriculture's Animal Damage Control Program*. M.S., Forest Resources, Utah State University.

Sodja, Elizabeth K. 2020. *A Comprehensive Program and Member Experience Evaluation & Educational Opportunity Restructuring for the Utah Conservation Corps.* M.N.R., Utah State University.

Stauffer, Christina J. 1999. *A Qualitative Look at Backcountry Recreation in the Grand Staircase-Escalante National Monument.* M.S., Recreation Resource Management, Utah State University.

Stock, Darcy A. 2004. *Assessment of Fire Risk Using GIS to Assist Planning for Visitor Egress at City of Rocks National Reserve*, M.S. Geography, Utah State University.

Thomson, Jamie K. 1999. *Ec(h)o of our Familiars: Surprising Mental Lives Out of the Wor(l)d Around Us*. Ph.D., Forestry, Utah State University.

Tidwell, Leith S. 2005. *Information Sources, Willingness to Volunteer, and Attitudes toward Invasive Plants in the Southwestern United States*, M.S., Forestry, Utah State University.

Whitcomb, Hilary L. 2011. *Temperature Increase and Invasion Effects on Great Basin Forbs: Experimental Evidence and Range Manager Perspectives*. M.S., Ecology, Utah State University.

Whitcomb, Hilary L. 2016. *Bridging Post-Wildfire Communication Gaps between Managers, Researchers, and Local Communities, including a Biological Soil Crust Case Study.* PhD, Ecology, Utah State University.

Wilmot, Susan R. 2009. *Attitudes, Behavioral Intentions, and Migration: Resident Response to Amenity Growth-Related Change in the Rural Rocky Mountain West*. Ph.D., Human Dimensions of Ecosystem Science and Management, Utah State University.

York, Elisabeth C. 2017. *Rancher Perceptions of Ecosystem Services from Rangelands of the Intermountain West.* M.S., Environment and Society, Utah State University.

**Awards**

Outstanding Achievement Award in Research, Society for Range Management, 2020

Graduate Mentor of the Year, College of Natural Resources, 2014

Undergraduate Advisor of the Year, College of Natural Resources, 1995, 2002, and 2013

Utah Range Manager of the Year, Society for Range Management (Utah Section), 2010

Undergraduate Research Mentor of the Year, College of Natural Resources, 2003

Professor of the Year, College of Natural Resources, 1997

**University Teaching**

Graduate courses

CAS 6003, Climate Adaptation Science Studio II, Spring 2020 (co-taught)

ENVS 6300, Conservation Psychology (3 cr.), Spring 2005-2010; Fall 2012-2018

ENVS 6400, Ecological Aspects of Recreation (3 cr.), Spring 1997-Spring 2006

ENVS 6410, Translational Ecology (3 cr.), Fall 2011, Spring 2014-2019

ENVS 6500, Behavioral Aspects of Recreation (3 cr.), Fall 1998-Fall 2004

ENVS 6840, Graduate Orientation in Environment and Society (1 cr.), Fall 2009-10

ENVS 6900, Human Dimensions of Wildlife (2 cr.), Fall 2008

RR 6300, Policy Aspects of Recreation (3 cr.), Spring 1999

RR 643, Forest Recreation (3 cr.), Spring 1995 (co-taught)

WATS 6900, Sustainability Science (3 cr.), Spring 2011 (co-taught)

Undergraduate courses

HONR 1340, Social Systems and Issues (Honors, 3 cr.), Spring 1999-2003

ENVS 1990, Professional Orientation for Environment and Society (3 cr.), Fall 2011-2012

ENVS 2340, Natural Resources and Society (3 cr.), Fall 1998-Fall 2008

ENVS 3000, Natural Resource Policy and Economics (4 cr.), Fall 2008

ENVS 3500, Quantitative Assessment for Environment and Society (3 cr.), Fall 2018-2019

ENVS 4000, Human Dimensions of Natural Resource Management (3 cr.), Fall 2005-2008, 2013

ENVS 4500, Wildland Recreation Behavior (3 cr.), Winter 1993-Fall 2005

ENVS 4950, Student Leadership seminar (1 cr.), Fall 2004

ENVS 5000, Collaborative Problem Solving for Environment and Natural Resources (3 cr.) Spring 2011-2013

ENVS 5000, Environmental Nonprofit and Volunteer Management (3 cr.), Spring 2015-2020

FR 410, Human Dimensions of Natural Resource Management (3 qtr-hrs), Winter 1998

RR 250, Wilderness in America (3 qtr-hrs), Winter 1993-Fall 1997

RR 451, Interpretive Planning (3 qtr-hrs), Spring 1993

RR 520, Recreation Policy and Economics (4 qtr-hrs), Spring 1994-Spring 1999

FOR 430, Amenity Resource Management (4 qtr-hrs), Spring 1992 (Oregon State)

RRM 380, Recreation Research Methods (3 qtr-hrs), Winter 1992 (Oregon State)

RRM 465, Current Issues in Recreation Resource Management (3 qtr-hrs), Fall 1989 (Oregon State)

**Continuing Education Instruction**

Continuing Education for Ecosystem Managers, Utah State University, 1994-2005

Outdoor Recreation Short Course for Managers, Utah State University, 1997-2003

Outdoor Recreation Short Course for Mid-Career Professionals, Utah State University, 1993-2005

Plant-Herbivore Interactions Short Course (NRCS-sponsored), Utah State University, 2005-2007

Rangeland Policy and Socioeconomics, BLM National Training Center, Phoenix, 1997-2007

Silviculture for Non-Silviculturists, Utah State University, 1993-1999

Utah Conservation Corps, crew leader and summer crew member trainings, Logan, 2003-2011

Wildlife Habitat and Plant Management Short Course, Utah State University, 1993-1995

**Professional advisory and consultative services**

*Current:*

Charles Redd Center for Western Studies (BYU), Advisory Board, 2016-present

Human Dimensions Working Group, USDA Long-Term Agroecosystem Research (LTAR) Network, 2019-present

Science Committee, Canyonlands Research Center, The Nature Conservancy, 2007-present

Utah Hazard Mitigation Team, Utah Division of Emergency Management, 2019-present

Steering committee, Great Basin Fire Science Delivery Program, 2012-present (chair since 2015)

*Recently completed:*

SEEDS Advisory Committee, Ecological Society of America, 2012-2018

Fire Science-Policy Working Group, USDA-USDI Joint Fire Science Program, 2016-2018

U.S. Roundtable for Sustainable Beef, Indicator and Metrics review panel, 2017

**Professional society service activities**

Current member: Ecological Society of America; International Association for Society and Natural Resources; Society for Ecological Restoration; Society for Range Management.

Offices held: President-elect (2006), President (2007), Past President (2008), Utah, section, Society for Range Management; President-elect (2000-2001), President (2002-2003), Utah chapter, Society of American Foresters.

Associate editorships: *Rangeland Ecology and Management* (2004-2007); *Society and Natural Resources* (2003-2005); guest associate editor, *Forest Science* (twice)

Current and recent professional society service:

* Society for Range Management: member, *Rangelands* Steering Committee. Co-organizer, Rangeland Social Science gathering, 2018 and 2020 annual meetings. Program chair for the society’s 2017 annual international meeting in St. George, Utah.
* Ecological Society of America: member, Rangeland Ecology, Human Ecology, Ecological Restoration, and Science Communication sections; outreach coordinator for the Ecological Restoration section. Member, Local Host Committee for the 2020 annual meeting in Salt Lake City.
* Previous service activities: Sustainable Rangelands Roundtable (2001-2006; 2014-2016); Information and Education Committee, Society for Range Management (3 year term); Media Committee, Society for Conservation Biology (3-year term); program chair, Utah Society for Range Management annual meeting (2004, 2005); awards chair, Intermountain Society of American Foresters (1994-2004), advisory committee member for ESA-SEEDS (Strategies for Ecology Education, Diversity, and Sustainability), the society’s program to engage under-represented students in ecology; SEEDS student field trip organizer, 2019.