

2016
Faculty Achievements and Activities
S.J. & Jessie E. Quinney College of Natural Resources

Awards and Honors

Brahney, Janice

Editor's Award for highly cited research, Aeolian Research, (December 2016).

Editor's Choice Award, American Chemical Society, (2016).

Brain, Roslynn G

New Specialist Award, USU Specialist Association, (March 2016).

Brunson, Mark William

Editors' Choice - Rangelands, Elsevier, (April 13, 2016).

Conover, Michael R

Received the 2016 Friend of the Lake Award, Friends of the Great Salt Lake, (2016).

Received the Best Book Award, The Wildlife Society, (2016).

Dahlgren, David Kimball

Group Achievement Award, The Wildlife Society, (October 2016).

Challenge Coin for Efforts in Sage-Grouse Conservation, Region 6, U.S. Fish and Wildlife Service, (January 2016).

Endter-Wada, Joanna Lynne

2016 AWRA Boggess Award, American Water Resources Association, (November 2016).

Frey, Shandra Nicole

Group Achievement Award, The Wildlife Society, (October 2016).

Gaeta, Jereme

Best Contributed Poster Award, Utah Chapter of the American Fisheries Society, (March 30, 2016).

Best Professional Presentation Award, Utah Chapter of the American Fisheries Society, (March 30, 2016).

Messmer, Terry A

Western Region Excellence in Extension Award, Extension Committee on Organization and Policy (ECOP) and USDA National Institute of Food and Agriculture (NIFA), (November 12, 2016).

The Wildlife Society Group Achievement Award, The Wildlife Society, (October 18, 2016).

Caesar Kleberg Award for Excellence in Applied Wildlife Research, The Wildlife Society, (October 16, 2016).

Ramsey, Robert Douglas

U.S. Forest Service Chief's Award, 2016, U.S. Forest Service, (December 2016).

Thacker, Eric T

Range Manager of the Year, Utah Section of Society for Range Management, (November 3, 2016).

Publications/Intellectual Contributions

Book Review

Beard, Karen H

Protecting the Wild: Parks and Wilderness, the Foundation for Conservation. Edited by George Wuerthner, Eileen Crist, and Tom Butler. Washington (DC): Island Press. \$24.95 (paper). xxvii + 362 p.; ill.; index. ISBN: 978-1-61091-548-9. 2015., (December 2016), Quarterly Review of Biology, 91, 506-0507.

Brunson, Mark William

The paradox of living in the woods, (March 2016), Journal of Forestry, 114, 160.

Lutz, James A

Ecological forestry in the 21st century, (September 2016), Ecology, 97, 2522-2523.

Tainter, Joseph A

Review of Killing Civilization: A Reassessment of Early Urbanization and its Consequences, by Justin Jennings, (October (4th Quarter/Autumn) 2016), Journal of Anthropological Research, 72, 551-553.

Book, Chapter in Scholarly Book

Belmont, Patrick

Modeling bed-material sediment transport on a river network, (2016), CRC Press, 1311–1313.

Brunson, Mark William

Human Dimensions of Invasive Grasses, (February 1, 2016), Springer, 409-428.

Burton, Julia

An Integrated Socio-Ecological-Ethical Approach to Enhancing Public Trust in Federal Forest Management, (2017), Island Press.

Coppock, David Layne

Pastoral System Dynamics and Environmental Change on Ethiopia's Borana Plateau--Influences of Livestock Development and Policy, (May 2016), Springer Earth System Sciences.

Dahlgren, David Kimball

State management of upland and small game, (2017), The Wildlife Society Book Series, John Hopkins University Press.

Grasslands of western Kansas, north of the Arkansas River, (2016), Studies in Avian Biology, 48, 259–279.

Public and Private Land Conservation Dichotomy, (2016), Studies in Avian Biology, 48, 187.

Du Toit, Johan Truter

An evaluation of techniques used for the capture, immobilization, marking, and habituation of honey badgers., (August 2016), Alpha Wildlife Publications, 339-362.

Sexual and seasonal variation in the time budget and activity patterns of honey badgers (*Mellivora capensis*) in an arid environment., (August 2016), Alpha Wildlife Publications, 161-192.

Radel, Claudia A

Migración y cambio climático en el Noroeste de Nicaragua: una visión crítica y de género, (December 2016), UNAM.

Schupp, Eugene W

Plant community resistance to invasion by *Bromus* species: the roles of community attributes, *Bromus* interactions with plant communities, and *Bromus* traits, (2016), Springer International Publishing, 275-304.

Tainter, Joseph A

Why Collapse is So Difficult to Understand, (January (1st Quarter/Winter) 2016), Southern Illinois University Press.

Villalba, Juan J

Animal Welfare in Extensive Systems, (August 2016), 5M Publishing. Nottingham University Press, 1-10.

Integrating nutrition and animal welfare in extensive systems, (April (2nd Quarter/Spring) 2016), Springer, 135-163.

Organic Farming, Soil Health and Food Quality: Considering possible links, (April (2nd Quarter/Spring) 24, 2016), Advances in Agronomy, 137, 319-368.

Wilcock, Peter R

Modeling bed-material sediment transport on a river network, (2016), CRC Press, 1311–1313.

Book, Scholarly-New

Villalba, Juan J

Animal Welfare in Extensive Systems, (August 2016), 5M Publishing. Nottingham University Press.

Journal Article, Academic Journal

Adler, Peter B

How to quantify the temporal storage effect using simulations instead of math, (November 2016), *Ecology Letters*, 19, 1333–1342.

Forecasting climate change impacts on plant populations over large spatial extents, (October (4th Quarter/Autumn) 2016), *Ecosphere*, 7, n/a–n/a.

Addition of multiple limiting resources reduces grassland diversity, (September 2016), *Nature*, 537, 93–96.

Direct effects dominate responses to climate perturbations in grassland plant communities, (June 2016), *Nature Communications*, 7, 11766.

Linking transient dynamics and life history to biological invasion success, (March 2016), *Journal of Ecology*, 104, 399–408.

Linking demography with drivers: climate and competition, (February 2016), *Methods in Ecology and Evolution*, 7, 171–183.

Comment on “Worldwide evidence of a unimodal relationship between productivity and plant species richness”, (January (1st Quarter/Winter) 2016), *Science*, 351, 457–457.

Integrative modelling reveals mechanisms linking productivity and plant species richness, (January (1st Quarter/Winter) 2016), *Nature*, 529, 390–393.

Aubry, Lise Myriam

The Conundrum of heterogeneity in life histories, (November 2016), *Trends in Ecology and Evolution*, 31, 872–886.

Recreational harvest and incident-response protocols reduce human-carnivore conflicts in an anthropogenic landscape, (November 29, 2016), *Journal of Applied Ecology*.

Evaluation of harvest indices for monitoring cougar survival and abundance, (January (1st Quarter/Winter) 2016), *Journal of Wildlife Management*.

Baggio, Jacopo A

Multiplex social ecological network analysis reveals how social changes affect community robustness more than resource depletion, (November 2016), *Proceedings of the National Academy of Sciences*, 113, 13708–13713.

An iterative approach to case study analysis: insights from qualitative analysis of quantitative inconsistencies, (September 2016), *International Journal of the Commons*, 10, 467–494.

Challenges and opportunities in coding the commons: problems, procedures, and potential solutions in large-N comparative case studies, (September 2016), *International Journal of the Commons*, 10, 440–466.

Explaining success and failure in the commons: the configural nature of Ostrom’s institutional design principles, (September 2016), *International Journal of the Commons*, 10, 417–439.

The functional intelligences proposition, (September 2016), *Personality and Individual Differences*, 99, 46–55.

Using agent-based models to compare behavioral theories on experimental data: Application for irrigation games, (May 2016), *Journal of Environmental Psychology*, Forthcoming.

The Role of Diverse Strategies in Sustainable Knowledge Production, (March 2016), *PLOS ONE*, 11, e0149151.

Beard, Karen H

Different prey resources suggest little competition between non-native frogs and insectivorous birds despite isotopic niche overlap, (March 2017), *Biological Invasions*, 19, 1001-1013.

Effects of road and land use on pond-breeding amphibians: patterns across spatial scales and regions in the eastern and central United States, (February 2017), *Diversity and Distributions*, 23, 158-170.

Fully-sampled phylogenies for squamates reveal evolutionary patterns in extinction risk, (December 2016), *Biological Conservation*, 204, 22-31.

Temporal foraging patterns of non-native Coqui frogs (*Eleutherodactylus coqui*) in Hawaii, (December 2016), *Journal of Herpetology*, 50, 582-588.

Field work ethics in biological research: Viewpoint of Biological Conservation editors, (October (4th Quarter/Autumn) 11, 2016), *Biological Conservation*, 203, 268-271.

Using plant-soil feedbacks to predict plant biomass in diverse communities, (August 1, 2016), *Ecology*, 97, 2064-2073.

Breeding guilds determine frog response to edge effects in Brazil's Atlantic Forest., (June 2016), *PLOS One*, 11, e0156781.

Threatened and invasive reptiles are not two sides of the same coin, (May 1, 2016), *Global Ecology and Biogeography*, 25, 1050–1060.

Bromeliad selection by *Phyllodytes luteolus* (Anura, Hylidae): the influence of plant structure and water quality factors, (March 2016), *Journal of Herpetology*, 50, 108-112.

Belmont, Patrick

Comment on “Climate and agricultural land use change impacts on streamflow in the upper Midwestern United States” by Satish C. Gupta et al., (2016), *Water Resources Research*, 52, 7536–7539.

Brahney, Janice

Continental-Scale Increase in Lake and Stream Phosphorus: Are Oligotrophic Systems Disappearing in the United States?, (2016), *Environmental science & technology*, 50, 3409–3415.

Brain, Roslynn G

Opportunities for and barriers to renewable energy outreach in Extension: A mixed-methods needs assessment, (October (4th Quarter/Autumn) 2016), *Journal of Extension*, 54.

Assessing community need and interest to address city-wide sustainability issues: A tri-part collaboration between local city government, community partners, and a university, (September 7, 2016), *Sustainability: The Journal of Record*, 9.

Brunson, Mark William

Translational training for tomorrow's environmental scientists, (June 2016), *Journal of Environmental Studies and Sciences*, 6, 295-299.

Burton, Julia

Forest Restoration Using Variable Density Thinning: Lessons from Douglas-Fir Stands in Western Oregon, (December 2016), *Forests/MDPI*, 7, 310.

Effects of riparian buffer width on wood loading in headwater streams after repeated forest thinning, (2016), *Forest Ecology and Management*, 372, 247-257.

Conner, Mary M

Evaluating impacts using a BACI design, ratios, and a Bayesian approach with a focus on restoration, (October (4th Quarter/Autumn) 2016), *Environmental Monitoring and Assessment*, 188.

Comparing estimates of population change from Pradel and occupancy models for a territorial species, (October (4th Quarter/Autumn) 15, 2016), *Ecosphere*, 7.

Conover, Michael R

Declining populations of greater sage-grouse: where and why., (2016), *Human-Wildlife Interactions*, 10, 217-229.

Effectiveness of the toxicant DRC-1339 in reducing populations of common ravens in Wyoming, (2016), *Wildlife Society Bulletin*, 40, 281-287.

Effects of common raven and coyote removal and temporal variation in climate on greater sage-grouse nesting success, (2016), *Biological Conservation*, 202, 50-58.

Environmental influences on wintering duck abundance and distribution at Great Salt Lake, Utah, (2016), *Western North American Naturalist*, 76, 18-26.

Influence of shelterbelts on success and density of waterfowl nests within the Prairie Pothole Region of North America, (2016), *Waterbirds*, 39, 74-79.

Microhabitat conditions in Wyoming's Sage-grouse Core Areas: effects on nest site selection and success., (2016), *PLoS ONE* 11(3), e0150798.

Nutrient recycling in the Great Salt Lake, (2016), *Western North American Naturalist*, 76, 281-286.

Visual and olfactory concealment of duck nests: influence on nest site selection and success, (2016), *Human-Wildlife Interactions*, 10, 110-121.

Coppock, David Layne

Economic Analysis of Land and Livestock Management Interventions to Improve Resilience of a Pastoral Community in Southern Ethiopia, (March 2016), *Journal of African Economies*, 25, 233-266.

Dahlgren, David Kimball

Corrigendum to 'Greater Sage-Grouse and Range Management: Insights From a 25-year Case Study in Utah and Wyoming' [*Rangeland Ecol Manag* 68 (2015) 375-382], (2016), *Rangeland Ecology and Management*, 69, 235.

Declining populations of greater sage-grouse: hunter motivations when numbers are low, (2016), *Animal Conservation*, 19, 26-34.

Does the presence of oil and gas infrastructure potentially increase risk of harvest in northern bobwhite?, (2016), *Wildlife Biology*, 22, 294-304.

Evaluating vital rate contributions to greater sage-grouse population dynamics to inform conservation, (2016), *Ecosphere*, 7.

Extreme climatic events constrain space use and survival of a ground-nesting bird, (2016), *Global change biology*.

Du Toit, Johan Truter

Considerations of context and scale when using fecal glucocorticoids to indicate stress in large mammals: a study of wild American plains bison, (2016), *Peer J Preprints*.

Population status and distribution modelling of the critically endangered riverine rabbit (*Bunolagus monticularis*), (March 2016), *African Journal of Ecology*, 54, 195-206.

Bison with benefits: towards integrating wildlife and ranching sectors on a public rangeland in the western USA., (January (1st Quarter/Winter) 2016), *Oryx*, 50, 549-554.

Endter-Wada, Joanna Lynne

Differentiating urban forms: a neighborhood typology for understanding urban water systems, (September 27, 2016), *Cities and the Environment*, 9, Article 5.

Water Management Decision Making in the Face of Multiple Forms of Uncertainty and Risk, (September 29, 2016), *JAWRA - Journal of the American Water Resources Association*, 52, 1366-1384.

Water-Smart Growth Planning: Linking Water and Land in the Arid Urbanizing American West, (September 26, 2016), *Journal of Environmental Planning and Management*.

Frey, Shandra Nicole

Response of greater sage-grouse to surface coal mining and habitat conservation in association with the mine, (October (4th Quarter/Autumn) 2016), *Human--Wildlife Interactions*, 10, 205-16.

Hammill, Edward Ramsey

Are the effects of adjacent habitat type on seagrass gastropod communities being masked by previous focus on habitat dyads?, (2016), *Australian Journal of Zoology*, 63, 357-363.

Conservation efforts can't afford to shy away from high-risk conflict zones, (2016).

Factoring attitudes towards armed conflict risk into selection of protected areas for conservation, (2016), *Nature communications*, 7.

Morphological characteristics of rhodolith and correlations with associated sediment in a sandstone reef: Northeast Brazil, (2016), *Regional Studies in Marine Science*, 8, 133–140.

Hawkins, Charles P

Bioassessment in complex environments: designing an index for consistent meaning in different settings, (2016), *Freshwater Science*, 35, 249-271.

Distribution and drivers of a widespread, invasive wetland grass, *Phragmites australis*, in wetlands of the Great Salt Lake, Utah, USA, (2016), *Wetlands*.

Evaluating the adequacy of a reference-site pool for ecological assessments in environmentally complex regions, (2016), *Freshwater Science*, 35, 237-248.

Global synthesis of the temperature sensitivity of leaf litter breakdown in streams and rivers, (2016), *Global Change Biology*, n/a–n/a.

Modeling wetland plant metrics to improve the performance of vegetation-based indices of biological integrity, (2016), *Ecological Indicators*, 71, 533 - 543.

Multitaxon distribution models reveal severe alteration in the regional biodiversity of freshwater invertebrates, (2016), *Freshwater Science*, 35, 1365-1376.

Saving freshwater from salts, (2016), *Science*, 351, 914–916.

Potential effects of climate change on ecologically relevant streamflow regimes, (November 2016), *River Research and Applications*, 32, 1827-1840.

The imperative need for nationally coordinated aquatic bioassessment of rivers and streams, (June 17, 2016), *Marine and Freshwater Research*.

Howe, Peter David

The Spatial Heterogeneity of Climate Change: An Experiential Basis for Skepticism, (December 2016), *Proceedings of the National Academy of Sciences*, 114, 67-71.

The Distribution of Climate Change Public Opinion in Canada, (August 2016), *PLoS One*, 11, e0159774.

Hulvey, Kristin

New Ecological Restoration Section at ESA!, (2016), *Ecological Restoration*, 34, 87-88.

Jenkins, Michael J

Volatile and Within-Needle Terpene Changes to Douglas-fir Trees Associated with Douglas-fir Beetle (Coleoptera: Curculionidae) Attack, (May 25, 2016), *Environmental Entomology*, 2016, nvw040.

Disturbance Agents and Their Associated Effects on the Health of Interior Douglas-Fir Forests in the Central Rocky Mountains, (April (2nd Quarter/Spring) 6, 2016), *Forests*, 2016, 80.

Jin, Jiming

Potential effects of climate change on ecologically relevant streamflow regimes, (November 2016), *River Research and Applications*, 32, 1827-1840.

Impacts of Climate and Land Use/Cover Change on Streamflow Using SWAT and a Separation Method for the Xiyang River Basin in Northwestern China, (September 1, 2016), *Water*, 8.

Projection of the North American monsoon with a regional climate model, (September 1, 2016), *Climate Dynamics/Springer-Verlag Berlin Heidelberg*.

Sensitivity of biogenic volatile organic compounds (BVOCs) to land surface parameterizations and vegetation distributions in California, (May 1, 2016), *Geoscientific Model Development Discussion*.

Improvement of land surface temperature simulation over the Tibetan Plateau and the associated impact on circulation in East Asia, (March 1, 2016), *Atmosphere Science Letter*, 17, 162-168.

Kettenring, Karin Marie

Multi-scale methods predict invasion speeds in variable landscapes. Case study: *Phragmites australis*, (March 2017), *Theoretical Ecology*.

Distribution and drivers of a widespread, invasive wetland grass, *Phragmites australis*, in wetlands of the Great Salt Lake, Utah, USA, (2016), *Wetlands*.

Evolution of plant materials for restoration: Insights from the applied and basic literature, (2016), *Journal of Applied Ecology*.

Life on the edge: reproductive mode and rate of invasive *Phragmites australis* patch expansion, (2016), *Biological Invasions*, 18, 2475-2495.

Viability, dormancy, germination, and intraspecific variation of *Bolboschoenus maritimus* (alkali bulrush) seeds, (2016), *Aquatic Botany*, 134, 26-30.

Systems modeling to improve the hydroecological performance of diked wetlands, (September 2016), *Water Resources Research*, 52, 7070-7085.

Koons, David N

Evaluating vital rate contributions to greater sage-grouse population dynamics to inform conservation, (2016), *Ecosphere*, 7.

Recreational harvest and incident-response protocols reduce human-carnivore conflicts in an anthropogenic landscape, (November 29, 2016), *Journal of Applied Ecology*.

Population Vital Rates of Resident and Translocated Female Greater Sage-Grouse, (September 2016), *J. Wildlife Management*, 74.

Evaluating vital rate contributions to greater sage-grouse population dynamics to inform conservation, (April (2nd Quarter/Spring) 2016), *Ecosphere/Ecological Society*, 74.

Linking transient dynamics and life history to biological invasion success, (March 2016), *Journal of Ecology*, 104, 399-408.

Kulmatiski, Andrew

Factorial and 'self vs. other' plant soil feedback experiments produce similar predictions of plant growth in communities, (November 2016), *Plant and Soil*, 408, 485-492.

The emergence of 'fat bikes' in the USA: Trends, potential consequences and management, (October (4th Quarter/Autumn) 15, 2016), *Journal of Outdoor Recreation and Tourism*, 15, 20–25.

Using plant-soil feedbacks to predict plant biomass in diverse communities, (August 1, 2016), *Ecology*, 97, 2064-2073.

Lant, Christopher Louis

Policies Driving U.S. Wetland Conversion Rates, 1955-2009, (January (1st Quarter/Winter) 2017), *Society and Natural Resources*, 30, 16-30.

The Effect of Climate Change on Rural Land Covers Patterns in the Central United States, (July (3rd Quarter/Summer) 15, 2016), 138, 585-602.

Environmental systems simulations for carbon, energy, nitrogen, water, and watersheds: Design principles and pilot testing, (May 2016), *Journal of Geoscience Education*, 64, 115-124.

Long, James N

Limber Pine (*Pinus flexilis* James), a Flexible Generalist of Forest Communities in the Intermountain West., (August 2016), *PLoS ONE*, 11, 1-16.

Lutz, James A

Can low-severity fire reverse overstory compositional change in montane forests of the Sierra Nevada, USA?, (December 2016), *Ecosphere*, 7, e01484.

Tree circumference dynamics over short time scales using automated dendrometer bands in four forests, (December 2016), *PLOS ONE*, 11, e0169020.

Unprecedented remote sensing data over the King and Rim megafires in the Sierra Nevada mountains of California, (November 2016), *Ecology*, 97, 3244.

Detecting unburned islands within fire perimeters using Landsat and ancillary data across the northwestern United States, (August 2016), *Remote Sensing of Environment*, 186, 275-285.

Post-fire morel (*Morchella*) mushroom production, spatial structure, and harvest sustainability, (July (3rd Quarter/Summer) 2016), *Forest Ecology and Management*, 377, 16-25.

Ecological importance of small-diameter trees to the structure, diversity, and biomass of a tropical evergreen forest at Rabi, Gabon, (May 2016), *PLOS ONE*, 11, e0154988.

The science of firescapes: achieving fire resilient communities, (February 2016), *Bioscience*, 66, 130-146.

Towards a new paradigm in fire severity research using dose-response experiments, (February 2016), *International Journal of Wildland Fire*, 25, 158-166.

Macnulty, Daniel Robert

Competition between apex predators? Brown bears decrease wolf kill rate on two continents, (February 8, 2017), *Proceedings of the Royal Society Biological Sciences*, 284, 1-8.

Reproduction in moose at their southern range limit, (July (3rd Quarter/Summer) 14, 2016), *Journal of Mammalogy*, 97, 1355-1365.

Pelican valley and Mollie's pack, (June 1, 2016), *Yellowstone Science*, 21, 85–89.

Territoriality and inter-pack aggression in gray wolves: shaping a social carnivore's life history, (June 1, 2016), *Yellowstone Science*, 24, 37–42.

Motherhood of the wolf, (June 1, 2016), *Yellowstone Science*, 24, 13–16.

The big scientific debate: Trophic cascades, (June 1, 2016), *Yellowstone Science*, 24, 70–71.

McAvoy, Darren J

Preliminary screening of the effect of biochar properties and soil incorporation rate on lettuce growth to guide research and educate the public through extension, (January (1st Quarter/Winter) 2017), *Journal of Agricultural Extension and Rural Development*, 9, 1-4.

Messmer, Terry A

Ecology of greater sage-grouse populations inhabiting the northwestern Wyoming Basin, (December 2016), *Berryman Institute*, 10, 188-294.

Corrigendum to 'Greater Sage-Grouse and Range Management: Insights from a 25-year Case Study in Utah and Wyoming' [*Rangeland Ecol Manag* 68 (2015) 375-382], (2016), *Rangeland Ecology and Management*, 69, 235.

Evaluating vital rate contributions to greater sage-grouse population dynamics to inform conservation, (2016), *Ecosphere*, 7.

Age-dependence and individual heterogeneity in reproductive success of greater sage-grouse. *Avian Biology*. pdf file, (September 2016), *Avian Biology*, 74, 719-723.

Population Vital Rates of Resident and Translocated Female Greater Sage-Grouse, (September 2016), *J. Wildlife Management*, 74.

Evaluating vital rate contributions to greater sage-grouse population dynamics to inform conservation, (April (2nd Quarter/Spring) 2016), *Ecosphere/Ecological Society*, 74.

Factors affecting seasonal movements of juvenile Greater Sage-Grouse: A reconceptualized nest survival model, (January (1st Quarter/Winter) 2016), *Condor/Ornithological Applications/American Ornithological Society*, 118, 139-147.

Mock, Karen E

Herbivory and advance reproduction influence quaking aspen regeneration response to management in southern Utah, USA., (2016), *Canadian Journal of Forest Research*.

Life on the edge: reproductive mode and rate of invasive *Phragmites australis* patch expansion, (2016), *Biological Invasions*, 18, 2475-2495.

Phylogeny of the most species-rich freshwater bivalve family (Bivalvia: Unionida: Unionidae): Defining modern subfamilies and tribes., (2016), *Molecular Phylogenetics and Evolution*, 106, 174-191.

Monz, Christopher A

The ecological implications of visitor transportation in parks and protected areas: Examples from research in US National Parks, (2016), *Journal of Transport Geography*, 51, 27–35.

The emergence of "fat bikes" in the USA: Trends, potential consequences and management, (October (4th Quarter/Autumn) 15, 2016), *Journal of Outdoor Recreation and Tourism*, 15, 20–25.

The influence of visitor use levels on visitor spatial behavior in off-trail areas of dispersed recreation use, (July (3rd Quarter/Summer) 2016), *Journal of Environmental Management*, 170, 79-87.

A Systems-based Approach to Address Unintended Consequences of Demand-driven Transportation Planning in National Parks and Public Lands, (June 2016), *International Journal of Sustainable Transportation*-In review.

An application of recreation resource assessment techniques to inform management action in an urban-proximate natural area, (January (1st Quarter/Winter) 2016), *Journal of Outdoor Recreation and Tourism*-In review, 14, 12-21.

Null, Sarah Elizabeth

An affordable method of thermal infrared remote sensing of wadeable rivers using a weather balloon, (2016), *Journal of Undergraduate Research and Scholarly Excellence*, VII, 26-31.

Climate change effects on water allocations with season-dependent water rights, (2016), *Science of the Total Environment*, 571, 943-954.

Effects of environmental water transfers on stream temperatures, (2016), *River Research and Applications*.

Impacts of Water Development on Great Salt Lake and the Wasatch Front, (2016).

Water supply reliability tradeoffs between removing reservoir storage and improving water conveyance in California, (2016), *Journal of American Water Resources Association*.

Water year types and environmental flows with hydrologic non-stationarity in California's Sierra Nevada, (2016), *Journal of Water Resources Planning and Management*.

Radel, Claudia A

Land system science and the social-environmental system: The case of Southern Yucatán Peninsular Region (SYPR) project, (2016), *Current Opinion in Environmental Sustainability*, 19, 18-29.

Introduction: The continued importance of smallholders today, (October (4th Quarter/Autumn) 25, 2016), *Land*, 5, 34-45.

The gender dynamics of conditional cash transfers and smallholder farming in Calakmul, Mexico, (July (3rd Quarter/Summer) 2016), *Women's Studies International Forum*.

The legacy of Mexico's agrarian counter-reforms: Reinforcing social hierarchies in Calakmul, Campeche, (January (1st Quarter/Winter) 2016), *Journal of Agrarian Change*, 16, 145-167.

Ramsey, Robert Douglas

Comparison of Three Techniques to Identify and Count Individual Animals in Aerial Imagery, (July (3rd Quarter/Summer) 2016), *Journal of Signal and Information Processing*, 07, 123-135.

Romesburg, H Charles

How publishing in open access journals threatens science and what we can do about it, (2016), *Journal of Wildlife Management*.

Smith, Jordan William

A structural analysis of how youth sport non-profit organizations utilize multi-sector partnerships to build organizational capacity, (2016), *European Sport Management Quarterly*.

An integrative review of sport-based youth development literature, (2016), *Sport in Society*.

Collaborative advantages: The role of inter-organizational partnerships for youth sport non-profit organizations, (2016), *Journal of Sport Management*.

Continental scale quantification of landscape values using social media data, (2016), *Proceedings of the National Academy of Sciences*, 113, 12974-12979.

Differences between conservatives and liberals in information seeking behavior and perceived risks associated with climate-driven changes to local forest conditions, (2016), *Weather, Climate and Society*, 8, 43–55.

Identifying alternate pathways for climate change to impact inland recreational fishers, (2016), *Fisheries*, 41, 362–372.

Media and policy in a complex adaptive system: Insights from wind energy legislation in the United States, (2016), *Energy Research & Social Science*, 19, 53–60.

Payments for carbon sequestration to alleviate development pressure in a rapidly urbanizing region, (2016), *Forest Science*.

Political ideologies and the objective measurement of climate-related risks to coastal resources, (2016), *Journal of Coastal Conservation*, 20, 409–422.

Shifting demand for winter outdoor recreation along the North Shore of Lake Superior under variable rates of climate change: A finite-mixture modeling approach, (2016), *Ecological Economics*, 123, 1–13.

Temporal trends in the operating inefficiencies of U.S. state park systems, (2016), *Journal of Outdoor Recreation and Tourism*.

The effects of 2D and 3D imagery and an educational message on perceptions of trail impacts, (2016), *Natural Areas Journal*, 36, 88–92.

Tainter, Joseph A

Agriculture and the Energy-Complexity Spiral, (April (2nd Quarter/Spring) 2016), *Behavioral and Brain Sciences*.

The Nexus of Population, Energy, Innovation, and Complexity, (April (2nd Quarter/Spring) 2016), *American Journal of Economics and Sociology*, 75, 1005-1043.

Thacker, Eric T

Corrigendum to 'Greater Sage-Grouse and Range Management: Insights From a 25-year Case Study in Utah and Wyoming' [Rangeland Ecol Manag 68 (2015) 375-382], (2016), Rangeland Ecology and Management, 69, 235.

Does the presence of oil and gas infrastructure potentially increase risk of harvest in northern bobwhite?, (2016), Wildlife Biology, 22, 294–304.

Evaluating the efficacy of brood flush counts: a case study in two quail species, (2016), Western North American Naturalist, 76, 8.

Evaluation of the Surrogator® system to increase pheasant and quail abundance, (2016), Wildlife Society Bulletin, 40, 310–315.

Preference of pen-reared northern bobwhite among native plant seeds of the sand sagebrush-mixed prairie, (December 2016), The Southwestern Naturalist, 61, 307-311.

Identification of elk preferences for different diet supplements, (February 2016), The Wildlife Society Bulletin, 40, 368-374.

Van Miegroet, Helga

Effect of an energy supplementation and time on use of medusahead by grazing ewes and their lambs, (December 2016), Rangeland Ecology and Management.

Veblen, Kari

Are cattle surrogate wildlife? Savanna plant community composition explained by total herbivory more than herbivore type, (September 2016), Ecological Applications, 26, 1610-1623.

Grazing effects on precipitation-driven associations between sagebrush and perennial grasses, (July (3rd Quarter/Summer) 2016), Western North American Naturalist, 76, 313-325.

Large wildlife removal drives redistribution of immune defenses in rodents, (May 2016), Functional Ecology, 30, 799-807.

Identification of elk preferences for different diet supplements, (February 2016), The Wildlife Society Bulletin, 40, 368-374.

Villalba, Juan J

The physiological consequences of ingesting a toxic plant (*Diploaxis tenuifolia*) influence subsequent foraging decisions by sheep (*Ovis aries*)., (December 2016), Physiology & Behavior, 167, 238-247.

Effect of an energy supplementation and time on use of medusahead by grazing ewes and their lambs, (December 2016), Rangeland Ecology and Management.

Dietary learning in domestic ruminants. Implications for animal production. A Review, (November 2016), Revista Argentina de Produccion Animal, 36, 1-8.

Phytochemicals in animal health; diet selection and trade-offs between costs and benefits., (August 2016), Proceedings of the Nutrition Society, 1-9.

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Wheaton, Joseph Michael

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Experimental study of the effect of grain sizes in a bimodal mixture on bed slope, bed texture, and the transition to washload, (2016), *Water Resources Research*.

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Beard, Karen H

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Brunson, Mark William

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Coppock, David Layne

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Dahlgren, David Kimball

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Frey, Shandra Nicole

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Long, James N

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Macnulty, Daniel Robert

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Impact of sagebrush nutrients and monoterpenes on greater sage-grouse vital rates, (December 2016), *Berryman Institute*, 10, 157-168.

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Mock, Karen E

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Schmidt, Robert H

Protocol Review: The details are what matter, (March 1, 2016), Lab Animal, 45, 96-97.

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Thacker, Eric T

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Seasonal movements of greater sage-grouse populations in Utah: Implications for species conservation., (June 2016), Wildlife Society Bulletin, 40, 288 - 300.

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Lutz, James A

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Brain, Roslynn G

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Conover, Michael R

Human-wildlife conflicts – the natural resource issue of the 21st Century., (2016), Fair Chase, 32, 14-15.

Contracts, Grants and Sponsored Research

Adler, Peter B

SG: Quantifying the contribution of plant-soil feedbacks to coexistence in a sagebrush steppe, Funded, \$150,000.00, (2017 - 2019).

Forecasting changes in sagebrush distribution and abundance under climate change: integration of spatial, temporal, and mechanistic models, Funded, \$85,000.00, (2015 - 2017).

Forecasting climate change impacts on rangeland plant communities: Selecting, validating and scaling-up population models, Funded, \$80,000.00, (2012 - 2017).

Collaborative Research: Integral Projection Models for Populations in Varying Environments: Construction and Analysis, Funded, \$600,000.00, (May 2014 - April 2017).

Forecasting changes in sagebrush distribution and abundance under climate change: integration of spatial, temporal, and mechanistic models, Funded, \$99,000.00, (January 2015 - 2016).

CAREER: Forecasting the community impacts of climate change—When do species interactions matters?, Funded, \$710,000.00, (2011 - 2016).

Atwood, Trisha Brooke

Can beavers increase carbon storage on federally managed lands, Funded, \$17,495.16, (November 2016 - October 2018).

Comprehensive Study and Recommendations for Instream Flow Requirements on Sixth Water Creek and Diamond Fork River, Funded, \$500,000.00, (February 1, 2016 - May 31, 2018).

Aubry, Lise Myriam

Eco-evolutionary responses to climate change in a plant-herbivore system: an interdisciplinary approach, Funded, \$113,007.00, (July 1, 2015 - June 30, 2020).

Adaptive Responses of Uinta Ground Squirrels to Climate Change, Funded, \$19,995.00, (November 13, 2013 - 2019).

USU PhD Presidential Fellowship, Funded, \$52,000.00, (September 1, 2013 - August 31, 2017).

Black bear population dynamics, Funded, \$28,000.00, (July 1, 2013 - August 31, 2017).

Baggio, Jacopo A

NSF INFEWS Track 1: Mesoscale Data Fusion to Map and Model the U.S. FEW System (INFEWSion), Funded, \$3,000,000.00, (August 18, 2016 - August 18, 2020).

Diversity, Intelligence, and Robust Cooperation In Social-ecological Systems, Funded, \$465,892.00, (September 2016 - September 2019).

Role of general and social intelligence, and delayed-reward discounting on cooperation in a resource sharing game, Funded, \$465,892.00, (January 1, 2016 - December 31, 2018).

Developing a coupled socio-hydrological agent-based model to examine the demand for and supply of outdoor recreation and tourism opportunities under future climate scenarios, Funded, \$35,000.00, (January 2016 - December 2016).

Beard, Karen H

Asynchrony in the timing of goose-vegetation interactions: implications for biogeochemical cycling in wet sedge tundra, Funded, \$1,500,000.00, (2014 - 2018).

Coqui predators in Hawaii, Funded, \$15,000.00, (March 2017 - September 2018).

Coqui predators in Hawaii, Funded, \$58,000.00, (October 2015 - September 2017).

Belmont, Patrick

NRT: Graduate Climate Adaptation Research that Enhances Education and Responsiveness of science at the management-policy interface (Grad-CAREER), Funded, \$2,698,878.00, (September 15, 2016 - September 14, 2021).

Comprehensive Study and Recommendations for Instream Flow Requirements on Sixth Water Creek and Diamond Fork River, Funded, \$500,000.00, (February 1, 2016 - May 31, 2018).

Climate and Human Dynamics as Amplifiers of Natural Change: A Framework for Vulnerability Assessment and Mitigation Planning., Funded, \$4,372,127.00, (September 1, 2012 - August 30, 2017).

Minnesota River Invasive Carp Prevention, Funded, \$435,000.00, (January 1, 2015 - June 30, 2017).

Exploiting high-resolution topography for advancing the understanding of mass and energy transfer across landscapes: Opportunities, challenges, and needs., Funded, \$100,000.00, (July 1, 2014 - June 30, 2016).

Understanding the effects of wildfire on fish populations and stream geomorphology in Twitchell Canyon, Utah., Funded, \$383,589.00, (July 1, 2013 - June 30, 2016).

Brain, Roslynn G

Tannin-Containing Legumes In Pasturelands And Their Ecological Services, Funded, \$500,000.00, (January 1, 2016 - December 30, 2019).

Utah Farm-Chef-Fork: Furthering Farm to Restaurant Communication, Funded, \$35,081.00, (January 1, 2015 - December 30, 2017).

Fostering Utah Community Supported Agriculture Opportunities, Funded, \$46,651.00, (October 2015 - October 2017).

Extension Climate Science Essentials: Online Training, Funded, \$5,025.00, (May 2016 - May 2017).

Extension laptop and projector upgrade, Funded, \$2,738.00, (May 2016 - May 2017).

National Extension sustainability strategic planning, Funded, \$15,000.00, (February 2016 - February 2017).

Professional certification and technology integration for ENV5 4700: Communicating Sustainability, Funded, \$8,689.50, (June 2015 - June 2016).

USU Moab Rainwater Harvesting System, Funded, \$9,132.00, (June 2015 - June 2016).

Brunson, Mark William

Scale-dependent feedbacks among protected areas and surrounding socio-ecological systems, Funded, \$1,305,006.00, (August 1, 2016 - July 31, 2020).

Preparing Natural Resource Condition Assessments (NRCAs) for Seven Intermountain Region Park Units, Funded, \$189,971.00, (July 1, 2015 - June 30, 2019).

Ongoing funding for SageSTEP regional experiment, Funded, \$259,000.00, (May 1, 2015 - March 1, 2019).

Integrating ecological, economic, and social components to improve effectiveness of landscape restoration, Funded, \$54,000.00, (August 2015 - December 2017).

Efficacy of translocation as a management tool for urban mule deer, Funded, \$21,453.00, (July 2015 - June 2017).

Using grazing systems to manage ecosystem services in Utah and Western landscapes, Funded, \$79,997.00, (June 2015 - June 2017).

Developing and Integrating Landscape-scale Context into Natural Resource Condition Assessment, Funded, \$147,311.00, (June 1, 2014 - December 31, 2016).

Tribal Consultation Meeting and Science Communication Assistance, Funded, \$12,574.00, (July 1, 2013 - December 31, 2016).

Using grazing systems to manage ecosystem services in Utah and Western landscapes, Funded, \$20,000.00, (May 2015 - June 2016).

Using livestock grazing systems to manage ecosystem services on Utah rangelands, Funded, \$10,000.00, (June 2015 - May 2016).

Burr, Steven W

Visitor Use Study-Pleasant Grove Ranger District, Uinta-Wasatch-Cache National Forest, Funded, \$58,581.00, (November 21, 2015 - April 30, 2016).

Burritt, Elizabeth A

Legume-Finished Beef: Achieving Current Production with Greater Environmental, Economic and Social Sustainability, Funded, \$150,000.00, (January 1, 2016 - December 30, 2019).

Training cattle to graze medusahead and avoid velvet lupine: A new tool to sustain the economic viability of livestock operations in the Western US, Funded, \$250,000.00, (May 2015 - June 2018).

Using livestock grazing systems to manage ecosystem services on Utah rangelands, Funded, \$10,000.00, (June 2015 - May 2016).

Understanding Aspen Chemistry to Reduce Aspen Herbivory in Western Landscapes, Funded, \$10,000.00, (June 1, 2015 - May 30, 2016).

Burton, Julia

Managing Forest Understories for Climate Change, Funded, \$153,394.00, (August 1, 2016 - July 31, 2018).

Conner, Mary M

Analysis of data for June sucker to estimate abundance and demographic rates, Funded, \$30,000.00, (July 1, 2016 - December 31, 2017).

Developing a statewide occupancy monitoring plan for the 3 species, Funded, \$9,900.00, (February 19, 2016 - July 1, 2016).

Big Game Modeling, Funded, \$283,000.00, (June 1, 2013 - June 30, 2016).

Conover, Michael R

Eared grebe movements and habitat use on the Great Salt Lake, Funded, \$418,875.00, (2016 - 2021).

Impact of raven removal and management on sage-grouse populations in Wyoming, Funded, \$40,000.00, (2016 - 2017).

Impact of common ravens on greater sage-grouse nests in southern Wyoming during 2012-2013., Funded, \$35,000.00, (2014 - 2017).

Impact of raven removal on sage-grouse, Funded, \$40,000.00, (2015 - 2016).

Impact of predator removal on greater sage-grouse populations, Funded, \$125,817.00, (2014 - 2016).

Impact of coyote removal on mule deer in Nevada, Funded, \$625,000.00, (2011 - 2016).

Food web linkages and avian habitat use of the Great Salt Lake, Funded, \$78,166.00, (July 1, 2015 - June 30, 2016).

Impact of raven removal and eagle management on sage-grouse populations, Funded, \$30,000.00, (July 1, 2015 - June 30, 2016).

Satellite collars to track ravens, Funded, \$10,000.00, (July 1, 2015 - June 30, 2016).

Satellite collars to track ravens, Funded, \$15,000.00, (July 1, 2015 - June 30, 2016).

Coppock, David Layne

Climate Change Perspectives for Utah: Citizen Attitudes and Food Security, Funded, \$180,766.00, (July 1, 2015 - June 30, 2020).

Dahlgren, David Kimball

BLM WY Greater Sage Grouse Geophagy, Funded, \$600,000.00, (November 1, 2016 - September 30, 2021).

North Valley Landfill Habitat Monitoring, Funded, \$84,221.00, (April 1, 2016 - July 1, 2018).

Parker Mountain Cheatgrass Control, Funded, \$7,700.00, (July 1, 2016 - June 30, 2018).

Enhancing Greater Sage-Grouse Conservation on BLM lands in Utah, Funded, \$115,000.00, (January 1, 2016 - September 30, 2017).

Forest Grouse Study, Funded, \$50,000.00, (May 2015 - June 2017).

Greater Sage-Grouse Response to Grazing Management, Funded, \$50,000.00, (May 2015 - June 2017).

Sage-Grouse Response to PJ Removal in Northwest Utah, Funded, \$73,600.00, (July 1, 2015 - June 30, 2016).

Du Toit, Johan Truter

PhD Assistantship Award, Funded, \$40,000.00, (August 2015 - July 2017).

Support for a student studying spatial ecology of elk, Funded, \$40,000.00, (July 2015 - June 2017).

Ecology and Management of Brucellosis in Elk at Wyoming Feedgrounds, Funded, \$24,000.00, (April 15, 2016 - April 14, 2017).

Endter-Wada, Joanna Lynne

Utah State Legislature Extension Water Conservation Initiative - CWEL Portion, Funded, \$280,000.00, (July 2016 - 2066).

Landscape Water Use Analytics for Institutional and Corporate Properties, Funded, \$61,324.00, (September 2016 - December 2017).

Implementing Water Conservation Strategies in Eagle Mountain City, Funded, \$48,311.00, (September 2016 - December 30, 2017).

Utah EPSCoR RII Track-1: Interactions Among Water, Energy, and the, Funded, \$20,000,000.00, (August 1, 2012 - July 30, 2017).

WaterMAPS for Promoting Urban Landscape Water Use Efficiency., Funded, \$80,929.00, (April 2016 - March 2017).

Evaluation of Governance Structures and Processes Applicable to Water Management in Cache County, Utah., Funded, \$44,832.00, (January 2016 - December 2016).

Etchberger, Richard C

VFO Youth Internship Wildlife Management Project, Funded, \$260,000.00, (September 1, 2014 - December 31, 2017).

Pariette Wetlands Internship; Prairie Dog Monitoring; and Prairie Dog Population Genetics Projects, Funded, \$82,000.00, (July 1, 2014 - June 30, 2017).

Pariette Wetlands Internship; Prairie Dog Monitoring; and Prairie Dog Population Genetics Projects, Funded, \$50,000.00, (July 1, 2013 - June 30, 2017).

Frey, Shandra Nicole

Alton Coal Development: Response of Sage-grouse to Coal Mining Activities, Funded, \$40,236.00, (June 1, 2016 - December 31, 2021).

The effect of riparian habitat restoration on Rio Grande Turkey habitat use and recruitment in the "Central Utah Forests" habitat zone., Funded, \$26,532.00, (July 2017 - June 2018).

Southern Utah Sage-grouse Monitoring. Year 3, Funded, \$107,000.00, (March 1, 2016 - September 30, 2017).

Southern Utah Sage-grouse Monitoring. Year 2, Funded, \$159,291.00, (March 1, 2015 - September 30, 2017).

Wildlife Education Intern, Funded, \$10,000.00, (July 1, 2016 - June 30, 2017).

Using a Spot-Treatment Method to Control Townsend's Ground Squirrels (*Spermophilus townsendii mollis*) in Irrigated Crop Ground, Funded, \$9,126.80, (July 2016 - June 2017).

Controlling Ground Squirrels, Funded, \$10,000.00, (February 1, 2016 - January 31, 2017).

Cave/Hamlin Sage-grouse Monitoring _ Year 1, Funded, \$31,918.88, (January 1, 2016 - December 31, 2016).

Hamlin Valley Greater Sage-grouse Population Monitoring Continuation, Funded, \$80,000.00, (July 1, 2013 - July 30, 2016).

Protect Visitor Experience, Health and Historic Structures via Wildlife Exclusion at Bryce Canyon year 3, Funded, \$16,167.00, (July 1, 2015 - June 30, 2016).

Wildlife Education Intern, Funded, \$10,000.00, (July 1, 2015 - June 30, 2016).

Effects of Construction Activities and Reclamation on Sage-grouse Movements and Habitat Use, Funded, \$181,921.00, (July 1, 2013 - June 30, 2016).

Protect Visitor Experience, Health and Historic Structures via Wildlife Exclusion at Bryce Canyon, Funded, \$78,108.00, (July 1, 2013 - June 30, 2016).

Controlling Ground Squirrels, Funded, \$9,126.80, (January 16, 2015 - January 31, 2016).

Gaeta, Jereme

Pyramid Lake Fishery Evaluation II, Funded, \$49,119.00, (June 1, 2015 - May 31, 2020).

Does Drought Reduce Littoral Habitat and Tributary Connectivity Available to Bear Lake Fishes?, Funded, \$140,175.00, (June 1, 2016 - May 31, 2019).

Weber River bluehead sucker recruitment bottleneck, Funded, \$85,000.00, (June 1, 2016 - May 31, 2018).

Comprehensive Study and Recommendations for Instream Flow Requirements on Sixth Water Creek and Diamond Fork River, Funded, \$500,000.00, (February 1, 2016 - May 31, 2018).

Development of Common Carp Population Assessment and Mitigation Strategies in Utah Lake, UT, Funded, \$83,400.00, (March 1, 2016 - May 31, 2017).

Evaluation of the threat of invasive northern pike to endangered June sucker, Funded, \$178,762.00, (June 1, 2015 - May 31, 2017).

Monitoring Utah Lake Resource Dynamics and Ecosystem Change, Funded, \$186,004.00, (June 1, 2015 - May 31, 2017).

Implement Red Butte Management Plan, Funded, \$16,187.00, (June 1, 2015 - May 31, 2016).

The Response of cold-water fishes to drought in an Intermountain West lake., Funded, \$19,936.83, (June 1, 2015 - May 31, 2016).

Hammill, Edward Ramsey

Comprehensive Study and Recommendations for Instream Flow Requirements on Sixth Water Creek and Diamond Fork River, Funded, \$500,000.00, (February 1, 2016 - May 31, 2018).

Prioritization of Ecological Lands for Conservation, 2016-2017, Funded, \$42,391.00, (November 10, 2016 - December 29, 2017).

The Physical and Economic Consequences of Reducing the Probability of Wildfire in Utah, Funded, \$160,094.00, (July 1, 2016 - June 30, 2017).

Hawkins, Charles P

Utah and Colorado Water Survey for Mussels and Snails, Funded, \$33,296.00, (September 1, 2015 - June 30, 2017).

Howe, Peter David

NRT: Graduate Climate Adaptation Research that Enhances Education and Responsiveness of science at the management-policy interface (Grad-CAREER), Funded, \$2,698,878.00, (September 15, 2016 - September 14, 2021).

Climate Change Perspectives for Utah: Citizen Attitudes and Food Security, Funded, \$180,766.00, (July 1, 2015 - June 30, 2020).

Collaborative Research: Multi-scale Modeling of Public Perceptions of Heat Wave Risk, Funded, \$376,463.00, (May 1, 2015 - September 30, 2017).

Sub-Award from Southern Illinois University: Climate Change, Hydrology, and Landscapes of America's Heartland: A Multi-scale natural-human system. National Science Foundation, Coupled Natural and Human Systems, Funded, \$83.00, (March 2015 - February 2016).

Hulvey, Kristin

Implementing BLM Habitat Assessment Framework, Funded, \$1,100,000.00, (October 2016 - 2021).

Novel Techniques to Increase Forb Establishment in Sagebrush-Steppe Communities, Funded, \$32,634.00, (June 28, 2016 - April 30, 2020).

Integrating ecological, economic, and social components to improve effectiveness of landscape restoration, Funded, \$54,000.00, (August 2015 - December 2017).

Sage-grouse and livestock, Funded, \$50,000.00, (July 2015 - July 2017).

Using grazing systems to manage ecosystem services in Utah and Western landscapes, Funded, \$79,997.00, (June 2015 - June 2017).

Greater Sage-Grouse Response to Grazing Management, Funded, \$50,000.00, (May 2015 - June 2017).

Improvement of Forb Seedling Establishment to Diversify Rangeland revegetation efforts in the Great Basin, Funded, \$22,000.00, (August 15, 2015 - 2016).

GBCESU: Estimation of plant height using photogrammetrically derived point clouds, Funded, \$13,917.00, (2015 - 2016).

GBCESU: Estimation of plant height using photogrammetrically derived point clouds, Funded, \$13,917.00, (2015 - 2016).

Using grazing systems to manage ecosystem services in Utah and Western landscapes, Funded, \$20,000.00, (May 2015 - June 2016).

Using livestock grazing systems to manage ecosystem services on Utah rangelands, Funded, \$10,000.00, (June 2015 - May 2016).

Jin, Jiming

Collaborative Research: An exploration of the direct and indirect effects of climatic warming on arctic lake ecosystems, Funded, \$1,100,000.00, (2016 - 2020).

Advances in lake-effect process prediction within NOAA's Climate Forecast System for North America, Funded, \$219,000.00, (August 1, 2014 - July 31, 2016).

Kettenring, Karin Marie

Assessing approaches to manage Phragmites in Utah wetlands. Utah Wetlands Foundation, Funded, \$10,000.00, (2016 - 2017).

Effectiveness of grazing and herbicide as a Phragmites control and wetland restoration approach, Funded, \$34,720.00, (2016 - 2017).

Evaluation of techniques for effective control of Phragmites australis, Funded, \$15,000.00, (2016 - 2017).

Impacts of grazing for Phragmites control on soil nitrogen and phosphorus in Great Salt Lake wetlands, Funded, \$30,000.00, (2016 - 2017).

Multi-agency efforts for invasive species control in Great Salt Lake wetlands: Monitoring of herbicide and grazing treatment effects on the widespread invasive grass, Phragmites australis, Funded, \$27,358.00, (2016 - 2017).

Techniques for seeding bulrushes to prevent Phragmites re-invasion and to support waterfowl habitat for recreational hunting, Funded, \$58,742.00, (2016 - 2017).

Integrating ecological, economic, and social components to improve effectiveness of landscape restoration, Funded, \$54,000.00, (August 2015 - December 2017).

Water quality impacts of cattle grazing in Great Salt Lake wetlands, Funded, \$39,093.00, (2015 - 2017).

Assessing approaches to manage to manage Phragmites in Utah wetlands, Funded, \$10,000.00, (2015 - 2016).

Assessing approaches to manage to manage Phragmites in Utah wetlands, Funded, \$10,000.00, (2015 - 2016).

Building capacity for Phragmites control and wetland conservation in the Great Salt Lake Ecoregion, Funded, \$15,000.00, (2015 - 2016).

Waterfowl grazing allotments of Great Salt Lake Waterfowl Management Areas, Funded, \$10,000.00, (2015 - 2016).

Effectiveness of grazing and herbicide as a Phragmites control and wetland restoration approach, Funded, \$30,000.00, (2015 - 2016).

Impacts of grazing for Phragmites control on nutrient inputs, pools, and limitations, Funded, \$35,000.00, (2015 - 2016).

Motivations for and effects of intensive water management on Great Salt Lake wetlands, Phase III, Funded, \$48,219.00, (2015 - 2016).

Multi-agency efforts for invasive species control in Great Salt Lake wetlands: Monitoring of herbicide and grazing treatment effects on the widespread invasive grass, Phragmites australis, Funded, \$27,358.00, (2015 - 2016).

Revegetation of native wetland plants to restore habitat and improve Phragmites control, Funded, \$40,711.00, (2015 - 2016).

Treatments for effective restoration of Phragmites-dominated wetlands in the Great Salt Lake, Funded, \$10,000.00, (2015 - 2016).

Restoration of diverse and invasion resistant native vegetation in Great Salt Lake wetlands, Funded, \$19,972.00, (2014 - 2016).

USU Extension Undergraduate Internship Award, Funded, \$4,000.00, (May 15, 2016 - September 30, 2016).

Koons, David N

The integration of monitoring & modeling the impacts of global change on wildlife populations in agricultural landscapes, Funded, \$48,250.00, (2015 - 2020).

Efficacy of translocation as a management tool for urban mule deer, Funded, \$21,453.00, (July 2015 - June 2017).

New integrated modeling tools to improve monitoring and demographic analyses of seabird populations, Funded, \$33,986.00, (September 2015 - June 2016).

Kuhns, Michael R

Screening walnut genotypes for disease resistance, cold hardiness, and for horticultural and forestry traits, Funded, \$20,000.00, (July 2015 - June 2017).

Urban Forestry Assessment for Utah National Guard, Funded, \$20,000.00, (February 10, 2016 - September 30, 2016).

Kulmatiski, Andrew

Quantifying plant-soil feedback effects in classic diversity-productivity experiments, Funded, \$590,000.00, (May 1, 2014 - May 31, 2018).

Lant, Christopher Louis

NSF INFEWS Track 1: Mesoscale Data Fusion to Map and Model the U.S. FEW System (INFEWSion), Funded, \$3,000,000.00, (August 18, 2016 - August 18, 2020).

MOU to maintain headquarters of Universities Council on Water Resources at SIUC, Funded, \$1,226,712.00, (2014 - 2018).

Sub-Award from Southern Illinois University: Climate Change, Hydrology, and Landscapes of America's Heartland: A Multi-scale natural-human system. National Science Foundation, Coupled Natural and Human Systems, Funded, \$83.00, (March 2015 - February 2016).

Larese-Casanova, Mark

Integrating Science and Technology Into Literacy Learning (INSTALL), Funded, \$60,000.00, (August 31, 2016 - August 31, 2017).

Developing Online Resources for the Utah Nature Explorers Program, Funded, \$10,000.00, (July 1, 2016 - December 31, 2016).

USU Extension Undergraduate Internship Award, Funded, \$4,000.00, (May 15, 2016 - September 30, 2016).

Assessing Academic, Stewardship, and Behavioral Benefits of Nature-Based STEM Education, Funded, \$10,000.00, (July 1, 2015 - June 30, 2016).

Assessing Academic, Stewardship, and Behavioral Benefits of Nature-Based STEM Education, Funded, \$9,600.00, (July 1, 2015 - June 30, 2016).

Long, James N

Use of targeted grazing to reduce wildfire risk at Camp Williams. Utah National Guard, Funded, \$58,100.00, (2016 - 2018).

FIA Increment core (tree ring) archiving and database development, Funded, \$140,000.00, (October 1, 2015 - October 1, 2018).

UAES Seed Grant: Long-term aspen common garden enclosures along an elevational gradient, Funded, \$70,000.00, (May 2, 2016 - May 1, 2018).

Demonstration and evaluation of fall grazing and seeding to rehabilitate annual grass infested rangelands Camp Williams, Funded, \$7,480.00, (2016).

FIA Increment Core Archiving, Funded, \$50,028.00, (July 16, 2012 - December 31, 2016).

Luecke, Chris

US Forest Service Summer Interns, Funded, \$67,345.00, (May 2014 - December 2019).

Lutz, James A

NRT: Graduate Climate Adaptation Research that Enhances Education and Responsiveness of science at the management-policy interface (Grad-CAREER), Funded, \$2,698,878.00, (September 15, 2016 - September 14, 2021).

Dynamical interactions between plant and oomycete biodiversity in a temperate forest, Funded, \$1,600,000.00, (September 15, 2015 - August 31, 2020).

Inland Pacific Northwest post-fire management, Funded, \$383,565.00, (October 1, 2016 - October 31, 2019).

Using multi-scale spatial data to improve predictions of immediate and delayed post-fire mortality, Funded, \$278,422.00, (September 1, 2016 - August 31, 2019).

Using multi-scale spatial data to improve predictions of immediate and delayed post-fire mortality, Funded, \$25,649.00, (October 1, 2016 - December 31, 2018).

Forests and snow microstructure, Funded, \$63,000.00, (October 1, 2016 - August 31, 2018).

Forest structure correlates of fisher and spotted owl habitat, Funded, \$99,819.00, (June 1, 2014 - December 31, 2017).

Do wildfire and prescribed fire treatments conserve or promote important structural elements of fisher habitat?, Funded, \$99,819.00, (May 15, 2014 - December 31, 2017).

Disappearing refugia: identifying trends and resilience in unburned islands under climate change, Funded, \$362,811.00, (August 25, 2014 - August 24, 2017).

Integrated Scenarios of Climate, Hydrology, and Vegetation for the Northwest, Funded, \$192,999.00, (August 25, 2014 - August 24, 2016).

Post Rim Fire Assessment of Fuel Consumption and Mortality in the Yosemite Forest Dynamics Plot, Funded, \$59,084.00, (May 1, 2014 - March 31, 2016).

Macnulty, Daniel Robert

Elk Sightability at Yellowstone NP, Funded, \$100,000.00, (September 15, 2014 - June 30, 2018).

Determinants of population growth in Utah moose, Funded, \$50,400.00, (January 20, 2013 - June 30, 2017).

Yellowstone Wolves: their ecology and community consequences, Funded, \$450,000.00, (September 1, 2012 - June 30, 2017).

McAvoy, Darren J

USU-BLM Biomass Partnership, Funded, \$250,000.00, (July 2016 - July 2021).

FY15 Utah Biomass Resources Group, Funded, \$20,000.00, (May 27, 2015 - May 31, 2020).

Fire Science Exchange Network, Funded, \$300,000.00, (October 1, 2016 - June 30, 2019).

Cross Laminated Timber (CLT) Educational Building and Awareness Campaign, Funded, \$161,960.00, (April 30, 2015 - September 30, 2018).

Biochar Amendment to Enhance Tomato and Melon Productivity and Protect Against Phytophthora Root Rot Disease, Funded, \$49,994.00, (March 2014 - March 2017).

Utah Biomass Partnership, Funded, \$50,000.00, (July 1, 2015 - June 30, 2016).

Biomass Partnership- BLM, Funded, \$98,000.00, (May 11, 2011 - May 10, 2016).

Mesner, Nancy O

FY 2016 USU Extension Nonpoint Source Statewide I&E Project, Funded, \$72,595.00, (July 1, 2016 - June 30, 2019).

FY 2013 USU Extension Nonpoint Source Statewide I&E Project, Funded, \$97,000.00, (July 21, 2013 - July 1, 2018).

FY 2015 USU Extension Nonpoint Source Statewide I&E Project, Funded, \$83,250.00, (July 1, 2015 - June 30, 2018).

Maintenance of Bear River Watershed Information System, Funded, \$3,000.00, (January 2012 - December 2017).

Integrating Science and Technology Into Literacy Learning (INSTALL), Funded, \$60,000.00, (August 31, 2016 - August 31, 2017).

Utah EPSCoR RII Track-1: Interactions Among Water, Energy, and the, Funded, \$20,000,000.00, (August 1, 2012 - July 30, 2017).

The Physical and Economic Consequences of Reducing the Probability of Wildfire in Utah, Funded, \$160,094.00, (July 1, 2016 - June 30, 2017).

FY 2014 USU Extension NPS Outreach project, Funded, \$84,525.00, (June 2, 2014 - June 30, 2017).

FY 12 USU Extension Statewide Nonpoint Source Pollution Education and Citizen Monitoring Program. FY 2012., Funded, \$102,500.00, (July 1, 2012 - June 30, 2016).

Western Conference on Water Management Strategies for Addressing Long-Term Drought and Climate Uncertainty, Funded, \$49,534.00, (March 2015 - February 2016).

Messmer, Terry A

Implementing BLM Habitat Assessment Framework, Funded, \$1,100,000.00, (October 2016 - 2021).

BLM WY Greater Sage Grouse Geophagy, Funded, \$600,000.00, (November 1, 2016 - September 30, 2021).

1. PROJECT TITLE— Assessment of factors associated with moose-vehicle collision and moose movement in the Matanuska-Susitna Valley of Alaska, Funded, \$440,000.00, (August 2016 - 2020).

Mapping Greater Sage-grouse Movement Relative to Powerlines, Funded, \$69,000.00, (January 2016 - December 2020).

Title: Enhancing Greater Sage-grouse (*Centrocercus urophasianus*; sage-grouse) Conservation on BLM Lands in Utah, Funded, \$105,000.00, (February 2016 - October 2020).

Population Dynamics and Seasonal Movements of Translocated and Resident Greater Sage-Grouse (*Centrocercus urophasianus*), Sheeprock Sage-grouse Management Area: Implications for Species Management and Conservation Threat Mitigation, Funded, \$197,000.00, (June 2016 - 2019).

Enhancing Greater Sage-grouse Conservation on BLM Land, Funded, \$170,000.00, (January 2016 - October 2019).

Enhancing Greater Sage-grouse Conservation on BLM Land, Funded, \$250,000.00, (April 2014 - April 2019).

Forest grouse management in Utah. Utah Division of Wildlife Resources, Funded, \$120,079.00, (2015 - 2018).

Mapping Greater Sage-grouse Response to Powerlines, Funded, \$68,000.00, (December 2015 - June 2018).

Increasing stakeholder awareness and appreciation of the scientific basis for Utah's Greater Sage-grouse conservation strategy, Funded, \$93,562.00, (2015 - 2017).

Livestock Grazing and Climatic Influences on a Forest Indicator Species, Funded, \$50,000.00, (2015 - 2017).

Enhancing Greater Sage-Grouse Conservation on BLM lands in Utah, Funded, \$115,000.00, (January 1, 2016 - September 30, 2017).

Utah Sage-grouse Local Working Groups, Funded, \$93,000.00, (June 2016 - July 2017).

Completing the Science to Support Utah's Conservation Strategy, Funded, \$43,000.00, (June 2016 - July 2017).

Sage-grouse Response to Conifer Removal, Funded, \$89,000.00, (June 2016 - July 2017).

Sheeprock Sage-grouse Translocations, Funded, \$50,000.00, (June 2016 - July 2017).

Sage-grouse and livestock, Funded, \$50,000.00, (July 2015 - July 2017).

Implementing Utah's Greater Sage-grouse Conservation Strategy, Funded, \$170,000.00, (June 2015 - June 2017).

Greater Sage-Grouse Response to Grazing Management, Funded, \$50,000.00, (May 2015 - June 2017).

Mapping the Ecology of Greater Sage-grouse in Morgan and Summit Counties, Funded, \$136,125.00, (August 2014 - June 2017).

Greater Sage-Grouse Response to Season-Long and Prescribed Grazing (NRCS Conservation Practice 528) on Paired Ecological Sites (Phase 1), Funded, \$385,821.00, (August 1, 2011 - June 30, 2017).

Development of Utah Wild Horse and Burro Plan, Funded, \$6,400.00, (September 2015 - June 2016).

Sage-grouse Initiative - Grazing and Sage-grouse, Funded, \$54,000.00, (July 2015 - June 2016).

Sage-grouse Response to Conifer Removal, Funded, \$73,600.00, (July 2015 - June 2016).

Sage-Grouse Response to PJ Removal in Northwest Utah, Funded, \$73,600.00, (July 1, 2015 - June 30, 2016).

Quantifying impacts of long-term sagebrush and juniper control., Funded, \$10,000.00, (March 2014 - May 2016).

Mock, Karen E

Ecological genetics of dominant plant species of the Intermountain West: Joint Venture Agreement, Funded, \$39,876.00, (May 2014 - June 2019).

UAES Seed Grant: Long-term aspen common garden enclosures along an elevational gradient, Funded, \$70,000.00, (May 2, 2016 - May 1, 2018).

Integrating ecological, economic, and social components to improve effectiveness of landscape restoration, Funded, \$54,000.00, (August 2015 - December 2017).

Estimation of *Eriogonum corymbosum* var. *nilesii*. Range, Funded, \$80,000.00, (August 2012 - July 2017).

Utah and Colorado Water Survey for Mussels and Snails, Funded, \$33,296.00, (September 1, 2015 - June 30, 2017).

New Directions in Aspen Restoration for the Intermountain West., Funded, \$195,683.00, (July 2014 - June 2017).

Genetic Analysis of Utah Bears, Funded, \$201,322.00, (January 2011 - December 2016).

Monz, Christopher A

Glacier Bay National Park Backcountry/Wilderness Visitor Use Study. National Park Service, Funded, \$156,000.00, (November 1, 2016 - June 30, 2019).

Global Connections and Changing Resource Use Systems in the Arctic, Funded, \$540,000.00, (September 2015 - June 2018).

Understanding and Managing "Wildlife Jams" in National Parks: An Evaluation in Grand Teton NP, Funded, \$5,000.00, (September 1, 2016 - June 30, 2017).

Visitor Capacities on Longs Peak: a Preliminary Assessment in Rocky Mountain National Park, Colorado, Funded, \$29,000.00, (June 2015 - June 2017).

CNH: Soundscapes of Coupled Systems of Biodiversity and Human Experience, Funded, \$600,000.00, (July 2015 - June 2016).

An assessment of informal trails and visitor created trails in Rocky Mountain National Park. Project, Funded, \$25,900.00, (January 2015 - June 2016).

Moose-Wilson Road Visitor Movement Study, Funded, \$383,345.00, (May 2013 - June 2016).

Null, Sarah Elizabeth

NRT: Graduate Climate Adaptation Research that Enhances Education and Responsiveness of science at the management-policy interface (Grad-CAREER), Funded, \$2,698,878.00, (September 15, 2016 - September 14, 2021).

Collaborative Research: An exploration of the direct and indirect effects of climatic warming on arctic lake ecosystems, Funded, \$1,100,000.00, (2016 - 2020).

Watershed Restoration Initiative Monitoring and Analysis, Funded, \$91,841.00, (2015 - 2019).

Assessment of Stormwater Harvesting via Managed Aquifer Recharge to Develop New Water Supplies in the Arid West: the Salt Lake Valley Example, Funded, \$749,998.00, (October 2015 - September 2018).

Forests and snow microstructure, Funded, \$63,000.00, (October 1, 2016 - August 31, 2018).

Impacts of riparian restoration and climate change on stream temperatures in Meadow Creek, Funded, \$46,999.00, (2015 - 2017).

Utah EPSCoR RII Track-1: Interactions Among Water, Energy, and the, Funded, \$20,000,000.00, (August 1, 2012 - July 30, 2017).

Developing a coupled socio-hydrological agent-based model to examine the demand for and supply of outdoor recreation and tourism opportunities under future climate scenarios, Funded, \$35,000.00, (January 2016 - December 2016).

Assessing the state of river science, water resources management policies, and water resources planning tools for the Rio Grande / Rio Bravo, Funded, \$204,347.00, (2015 - 2016).

Restoring stream habitat connectivity: a systems modeling approach, Funded, \$20,000.00, (2015 - 2016).

Evaluating and developing a habitat based model for trout that includes temperature, flow, and food production, Funded, \$4,849,934.00, (2013 - 2016).

Radel, Claudia A

NRT: Graduate Climate Adaptation Research that Enhances Education and Responsiveness of science at the management-policy interface (Grad-CAREER), Funded, \$2,698,878.00, (September 15, 2016 - September 14, 2021).

CAREER: Gendered Transnational Labor Migration, Agriculture, and Environmental Change in Mesoamerica, Funded, \$464,494.00, (August 15, 2011 - July 31, 2017).

REU Supplement, Funded, \$7,504.00, (June 25, 2014 - July 31, 2016).

Ramsey, Robert Douglas

COGO AND DATA ENTRY FOR THE UTAH DIVISION OF WILDLIFE RESOURCES, Funded, \$100,000.00, (June 15, 2015 - September 30, 2020).

Spatial Data Processing and Computation of National Forest Carbon Budgets, Funded, \$521,417.48, (October 26, 2015 - September 30, 2018).

State View Program Development and Operations for the State of Utah, Funded, \$96,573.00, (December 13, 2013 - June 30, 2018).

Development of Educational Tools for Environmental Planning, Funded, \$91,000.00, (August 17, 2015 - July 31, 2017).

Using grazing systems to manage ecosystem services in Utah and Western landscapes, Funded, \$79,997.00, (June 2015 - June 2017).

Mapping Pinion/Juniper and Sagebrush Interface for the 11 Southwest Utah Counties, Funded, \$19,215.00, (July 13, 2016 - December 31, 2016).

GBCESU: Estimation of plant height using photogrammetrically derived point clouds, Funded, \$13,917.00, (2015 - 2016).

CPCESU: Remote Sensing of Milford Flat Fire, Funded, \$75,000.00, (September 1, 2012 - September 30, 2016).

Using livestock grazing systems to manage ecosystem services on Utah rangelands, Funded, \$10,000.00, (June 2015 - May 2016).

Schmidt, John C

Assessing the state of river science, water resources management policies, and water resources planning tools for the Rio Grande / Rio Bravo, Funded, \$204,347.00, (2015 - 2016).

Schmidt, Robert H

Integrating Science and Technology Into Literacy Learning (INSTALL), Funded, \$60,000.00, (August 31, 2016 - August 31, 2017).

Schupp, Eugene W

Ongoing funding for SageSTEP regional experiment, Funded, \$259,000.00, (May 1, 2015 - March 1, 2019).

Interactive effects of soils and browsing on sagebrush: implications for restoration success, Funded, \$227,200.00, (2015 - 2017).

Smith, Jordan William

Joint National Park Service / Institute of Outdoor Recreation and Tourism Washington DC Graduate Student Fellowship, Funded, \$71,757.00, (August 2016 - August 2018).

The Economic Impact of Snowmobiling in Utah, Funded, \$20,888.00, (December 2016 - November 2017).

Developing a coupled socio-hydrological agent-based model to examine the demand for and supply of outdoor recreation and tourism opportunities under future climate scenarios, Funded, \$34,597.00, (January 2016 - June 2017).

Hydrologic Conditions and Demand for River Recreation in the North Fork of the Virgin River Wilderness Study Area, Funded, \$9,999.00, (August 2016 - May 2017).

Ashley National Forest National Visitor Use Monitoring Study: Round Four, Funded, \$20,140.00, (October 2016 - April 2017).

Uinta-Wasatch-Cache National Forest National Visitor Use Monitoring Study: Round Four, Funded, \$47,500.00, (October 2016 - April 2017).

Institute of Outdoor Recreation and Tourism Communications Intern, Funded, \$3,969.00, (May 2016 - September 2016).

Thacker, Eric T

Implementing BLM Habitat Assessment Framework, Funded, \$1,100,000.00, (October 2016 - 2021).

Establishment of native grasses, legumes, and forbs in disturbed rangelands using Siberian wheatgrass., Funded, \$24,908.00, (October 1, 2016 - October 30, 2021).

Forest grouse management in Utah. Utah Division of Wildlife Resources, Funded, \$120,079.00, (2015 - 2018).

Use of targeted grazing to reduce wildfire risk at Camp Williams. Utah National Guard, Funded, \$58,100.00, (2016 - 2018).

Comprehensive assessment of rangeland seedings to improve restoration success, Funded, \$30,526.00, (August 2015 - December 2017).

Increasing stakeholder awareness and appreciation of the scientific basis for Utah's Greater Sage-grouse conservation strategy, Funded, \$93,562.00, (2015 - 2017).

Interactive effects of soils and browsing on sagebrush: implications for restoration success, Funded, \$227,200.00, (2015 - 2017).

Livestock Grazing and Climatic Influences on a Forest Indicator Species, Funded, \$50,000.00, (2015 - 2017).

Wasatch-Cache-Uintah National Forest Sage-grouse Habitat Assessment Framework, Funded, \$130,595.00, (May 30, 2016 - September 2017).

Sage-grouse and livestock, Funded, \$50,000.00, (July 2015 - July 2017).

Restoring water, trout, sage-grouse and riparian areas on working lands using beaver in Box Elder County, Funded, \$61,371.00, (July 1, 2016 - June 30, 2017).

Utah Monitoring Crew, Funded, \$20,000.00, (July 1, 2016 - June 30, 2017).

Using grazing systems to manage ecosystem services in Utah and Western landscapes, Funded, \$79,997.00, (June 2015 - June 2017).

Forest Grouse Study, Funded, \$50,000.00, (May 2015 - June 2017).

Greater Sage-Grouse Response to Grazing Management, Funded, \$50,000.00, (May 2015 - June 2017).

Livestock Grazing: An Environmentally Friendly and Economical Solution to Maintaining Fire Breaks in Gamble Oak Dominated Sites, Funded, \$10,000.00, (June 1, 2016 - May 30, 2017).

Demonstration and evaluation of fall grazing and seeding to rehabilitate annual grass infested rangelands Camp Williams, Funded, \$7,480.00, (2016).

GBCESU: Estimation of plant height using photogrammetrically derived point clouds, Funded, \$13,917.00, (2015 - 2016).

Home on the range, Funded, \$10,000.00, (2015 - 2016).

Forecasting changes in sagebrush distribution and abundance under climate change: integration of spatial, temporal, and mechanistic models, Funded, \$99,000.00, (January 2015 - 2016).

Quantifying impacts of long-term sagebrush and juniper control., Funded, \$8,000.00, (July 2014 - October 2016).

Development of Utah Wild Horse and Burro Plan, Funded, \$6,400.00, (September 2015 - June 2016).

Using grazing systems to manage ecosystem services in Utah and Western landscapes, Funded, \$20,000.00, (May 2015 - June 2016).

Using livestock grazing systems to manage ecosystem services on Utah rangelands, Funded, \$10,000.00, (June 2015 - May 2016).

Quantifying impacts of long-term sagebrush and juniper control., Funded, \$10,000.00, (March 2014 - May 2016).

Van Miegroet, Helga

Academic Climate for STEM Faculty, Funded, \$20,000.00, (July 2016 - June 2017).

Academic Climate for Women Graduate Students and Students of Color, Funded, \$5,000.00, (July 2016 - June 2017).

Veblen, Kari

Restoration and monitoring of Antelope Pasture, southern ID, Funded, \$40,000.00, (2016 - 2021).

Comprehensive assessment of seeded restoration species: factors controlling establishment and persistence, Funded, \$41,000.00, (July 2015 - June 2020).

Perennial grass response to post-fire grazing management, Funded, \$272,961.00, (March 2015 - December 2018).

LTREB Renewal: KLEE- scaling up and scaling out at the Kenya Long-term Exclosure Experiment in Laikipia rangeland, Funded, \$449,817.00, (August 1, 2013 - July 31, 2018).

Effectiveness of grazing and herbicide as a Phragmites control and wetland restoration approach, Funded, \$34,720.00, (2016 - 2017).

Impacts of grazing for Phragmites control on soil nitrogen and phosphorus in Great Salt Lake wetlands, Funded, \$30,000.00, (2016 - 2017).

Comprehensive assessment of rangeland seedings to improve restoration success, Funded, \$30,526.00, (August 2015 - December 2017).

Integrating ecological, economic, and social components to improve effectiveness of landscape restoration, Funded, \$54,000.00, (August 2015 - December 2017).

Increasing stakeholder awareness and appreciation of the scientific basis for Utah's Greater Sage-grouse conservation strategy, Funded, \$93,562.00, (2015 - 2017).

Interactive effects of soils and browsing on sagebrush: implications for restoration success, Funded, \$227,200.00, (2015 - 2017).

Water quality impacts of cattle grazing in Great Salt Lake wetlands, Funded, \$39,093.00, (2015 - 2017).

Using grazing systems to manage ecosystem services in Utah and Western landscapes, Funded, \$79,997.00, (June 2015 - June 2017).

Effectiveness of grazing and herbicide as a Phragmites control and wetland restoration approach, Funded, \$30,000.00, (2015 - 2016).

GBCESU: Estimation of plant height using photogrammetrically derived point clouds, Funded, \$13,917.00, (2015 - 2016).

Impacts of grazing for Phragmites control on nutrient inputs, pools, and limitations, Funded, \$35,000.00, (2015 - 2016).

Using livestock grazing systems to manage ecosystem services on Utah rangelands, Funded, \$10,000.00, (June 2015 - May 2016).

REU supplement to LTREB, Funded, \$9,398.00, (March 2015 - February 2016).

Villalba, Juan J

Legume-Finished Beef: Achieving Current Production with Greater Environmental, Economic and Social Sustainability, Funded, \$150,000.00, (January 1, 2016 - December 30, 2019).

Tannin-Containing Legumes In Pasturelands And Their Ecological Services, Funded, \$500,000.00, (January 1, 2016 - December 30, 2019).

Training cattle to graze medusahead and avoid velvet lupine: A new tool to sustain the economic viability of livestock operations in the Western US, Funded, \$250,000.00, (May 2015 - June 2018).

Interactive effects of soils and browsing on sagebrush: implications for restoration success, Funded, \$227,200.00, (2015 - 2017).

Aspen and elk: identifying at-risk stands and developing management plans to reduce herbivory, Funded, \$28,852.07, (August 15, 2016 - August 14, 2017).

Self-Medication in Herbivores: A Novel Approach for Increasing the Ecological Services of Pasturelands and for Restoring Rangelands, Funded, \$665,544.20, (July 1, 2012 - June 30, 2017).

Pleiades Foundation Support, Funded, \$2,500.00, (November 2015 - June 2016).

Understanding Aspen Chemistry to Reduce Aspen Herbivory in Western Landscapes, Funded, \$10,000.00, (June 1, 2015 - May 30, 2016).

Manipulating early experience in ruminants to increase intake of forages of low palatability, Funded, \$40,816.00, (May 1, 2013 - January 1, 2016).

Wheaton, Joseph Michael

Restoring water, trout, sage-grouse and riparian areas on working lands using beaver in Box Elder County, Funded, \$61,371.00, (July 1, 2016 - June 30, 2017).

Wilcock, Peter R

Comprehensive Study and Recommendations for Instream Flow Requirements on Sixth Water Creek and Diamond Fork River, Funded, \$500,000.00, (February 1, 2016 - May 31, 2018).

Presentations and Posters

Aubry, Lise Myriam

Impacts of climate change on the fitness of an indicator species, the Uinta ground squirrel, November 15, 2016.

Disturbance in the Anthropocene: a multi-ecosystem perspective, November 15, 2016.

Wildlife response to climate change in the Western US: Learning from indicator species, October 19, 2016.

Unobserved heterogeneity in vital rates creates a diversity of life history 'complexes' in an Antarctic seabird population, October 3, 2016.

Recreational harvest and incident-response protocols reduce human-carnivore conflicts in an anthropogenic landscape, August 7, 2016.

Recreational harvest and incident-response protocols reduce human-carnivore conflicts in an anthropogenic landscape, June 12, 2016.

Responses to climate change in the wild: learning from indicator species, June 15, 2016.

Demographic Consequences of Climate Change in a Hibernator, the Uinta Ground Squirrel, April 2016.

Demographic Approaches to Wildlife Conservation and Management Dilemmas., March 1, 2016.

Demographic Consequences of Climate Change in the Uinta Ground Squirrel., January 2016.

Beard, Karen H

Greenhouse gas (CO₂, CH₄ & N₂O) feedbacks are regulated by phenological changes in herbivore-vegetation interactions in Alaskan coastal tundra, December 9, 2016.

Physiological response curves reveal differences among season advancement and timing of grazing experimental treatments in a coastal Alaskan wetland, December 9, 2016.

Earlier growing seasons and changes in timing of grazing by Black Brant alter net ecosystem exchange in an Arctic coastal wetland, August 9, 2016.

Interactions between the start of the growing season and migratory goose arrival influence C and N cycling in wet sedge tundra, August 9, 2016.

Fully-sampled phylogenies of squamates reveal evolutionary patterns in threat status, July 9, 2016.

Predators of the Coqui Frog, July 7, 2016.

Fully-sampled phylogenies of squamates reveal evolutionary patterns in threat status, July 7, 2016.

Invasive coquis aren't full until morning, March 23, 2016.

Does the diet of the coqui frog change over the course of the day?, February 19, 2016.

Brahney, Janice

Applications of Biogeochemistry and Paleolimnology to Aquatic Ecology, December 1, 2016.

Dust in the Winds, November 29, 2016.

Leveraging the NADP to fill critical dust data and knowledge gaps, November 1, 2016.

Brain, Roslynn G

Bridging the initiatives: Energy, climate science, and sustainability, June 2016.

Coordinating Extension climate education: A "round-panel" discussion on integrating ANREP and NACDEP programs, June 2016.

The people-side of natural resources community development work: Strategies for building excitement, commitment, and ownership in transitioning a mono-planted schoolyard into a perennial, water-wise garden, June 2016.

Permaculture: A design philosophy to help weave environmental education and community together, March 2016.

Sustainable You! Kids Camp, January 2016.

Brunson, Mark William

Beyond the Ivory Tower: University-Stakeholder Partnerships for Utah's Water Future, November 16, 2016.

Beliefs, behaviors, and behavior change strategies for management of exotic Bromus grasses, August 11, 2016.

Core competencies for translational ecology: A doctoral education strategy to cultivate actionable science, August 8, 2016.

Impacts in EOD: Progress toward a more diverse water workforce, July 15, 2016.

Education, Outreach & Diversity Programs for a Changing Utah, July 14, 2016.

Future directions of usable science for rangeland sustainability: Usable socio-economic science for rangelands, June 15, 2016.

Bromus & society: beliefs, behaviors, and capacity for change, February 23, 2016.

Barriers and Opportunities for Incorporating New Knowledge into Restoration Decision-Making, February 1, 2016.

Burritt, Elizabeth A

Grazing Litigation in the West, November 3, 2016.

Nutrients and secondary compounds influence trembling aspen (*Populus tremuloides*) intake by sheep, January 31, 2016.

Funding most limits our ability to control medusahead in northern Utah, February 3, 2016.

Burton, Julia

Can silvicultural practices be leveraged to maintain diversity in forest understory plant communities? Evidence from two large-scale manipulative experiments, September 28, 2016.

Conover, Michael R

Predators, predator control, and sage-grouse, 2016.

Protecting duck nests from predators, 2016.

Can birds hide from olfactory predators?, 2016.

Coppock, David Layne

Climate change perceptions and adaptation among small-scale farmers in Uganda: A community based approach, September 6, 2016.

Pastoral systems in the developing world: Trends, needs, and future scenarios, July 20, 2016.

Improved animal housing and fodder management to cope with livestock feed and health crises in Bajura District, Nepal, July 19, 2016.

Investment Choices in the Face of Climate Change by Wealthy Pastoralists on Ethiopia's Borana Plateau, June 19, 2016.

Funding most limits our ability to control medusahead in northern Utah, February 3, 2016.

Rangelands in developing nations: conceptual advances and societal implications, February 2, 2016.

Du Toit, Johan Truter

Utah's 'pure' bison: their value to conservation and society, October 13, 2016.

Adaptive management of large wild mammals and livestock in Anthropocene ecosystems., September 2016.

Science-based management of wildlife populations for their functional contributions to the social-ecological system, August 12, 2016.

Endter-Wada, Joanna Lynne

Enhancing Homeowner Skills for Improving Landscape Irrigation Efficiency, October 6, 2016.

Consumer Attitudes Toward Water-Efficient Landscaping, May 25, 2016.

Ways of Knowing Water, May 10, 2016.

Water Conservation Research, May 6, 2016.

Promoting Urban Landscape Water Conservation, April 29, 2016.

The good, the bad and ugly: 30 years of land use changes in the Wasatch Range Metropolitan Area, Utah., March 28, 2016.

Integrating water and land use planning for wildlife habitat conservation, March 23, 2016.

Frey, Shandra Nicole

Movements and Habitat Associations of Greater Sage-grouse in the Panguitch SGMA, December 2016.

Fine Tuning Pocket Gopher Control in Alfalfa, March 2016.

Influence of transmission line construction on winter sage-grouse habitat use in southern Utah, February 2016.

The Biology Behind the Management of Ground Squirrels, January 2016.

Identifying and Managing Wildlife in your Yard, January 2016.

Comparing different methods of controlling Townsend Ground Squirrels in irrigated crop ground.,
January 26, 2016.

Hammill, Edward Ramsey

The Physical and Economic Consequences of wildfire in Utah, December 20, 2016.

Howe, Peter David

Downscaling public perceptions of climate change and hazards: a new method to generate high-resolution social data, October 2016.

Understanding the landscape of public attitudes about climate change, October 2016.

What do your neighbors think about climate change? The geography of environmental risk perceptions and behaviors in the U.S., October 2016.

Modeling geographic variation in risk perceptions as a component of social vulnerability to extreme heat hazards in the U.S, March 2016.

Hulvey, Kristin

Forb Islands: Possible Techniques to Improve Forb Seedling Establishment for Diversifying Sagebrush Steppe Communities, 2016.

Intraspecific variation in native bulrushes as a potential driver of restoration multifunctionality, 2016.

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