

Dr. Lora B. Perkins

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<https://scholar.google.com/citations?user=w8gEwekAAAAJ&hl=en>

Education

2010 PhD, Environmental Science and Health, University of Nevada, Reno
2007 MS, Botany and Plant Pathology, Oregon State University
2004 BS, Environmental Science, New Mexico State University

Professional Experience

2024-present Professor, Department of Natural Resource Management, SDSU
2024-present Affiliate Professor, Agronomy, Horticulture & Plant Science, SDSU
2024-present Advisory Board Member, Prairie Restoration Initiative
2023-present Lead developer of the Northern Great Plains Native Seed Partnership and the Northern Great Plains Native Seed Strategy
2021-present Rangeland Ecology and Management Program Lead, SDSU
2020-present Board Member, Center of Excellence for Bison Studies
2019-present Lead Faculty, The Native Plant Initiative at South Dakota State University
2019-2024 Affiliate Associate Professor, Agronomy, Horticulture & Plant Science, SDSU
2018-2024 Associate Professor, Department of Natural Resource Management, SDSU
2012-2018 Assistant Professor, Department of Natural Resource Management, SDSU
2012 University Instructor, University of Nevada, Reno
2011-2012 Postdoctoral Research Associate, University of Nevada, Reno
2007-2010 Graduate Research and Teaching Assistant, University of Nevada, Reno
2006-2007 Graduate Research Assistant, United States Geological Survey, Forest and Rangeland Ecosystem Science Center, Corvallis, Oregon
2005-2006 Graduate Teaching Assistant, Oregon State University
2003 Undergraduate Laboratory Technician, United States Department of Agriculture-Agricultural Research Service, Jornada Experimental Range

Editorial Appointments

2024-present Editor-in-Chief, Native Plants Journal
2016- 2024 Contributing Editor at Restoration Ecology
2016-2024 Associate Editor at Biological Invasions
2018-2022 Associate Editor at Rangeland Ecology & Management

Awards

2024 Excellence in Outreach and Engagement, SDSU
2022 Polaris Habitat Stewardship Award from Pheasants Forever SDState Chapter
2019 Bradshaw Medal for Outstanding Contribution by the Society for Ecological Restoration
2017 'Above and Beyond' acknowledgement by SDSU President Dunn
2017 Gamma Sigma Delta Faculty Research Award
2017 Charles E. Bessey Award best paper published in *Great Plains Research* in 2016

Students and Post-Doctoral Researchers Mentored

Name	Degree	Year	Role
Dr. Bri Lind	Post-doc	2024	Supervisor
Dr. Francis Chaves Rodriguez	Post-doc	2022-2023	Supervisor
Mohammed AL Dhafar	PhD	Expected 2028	Advisor
Bret Lang	PhD	Expected 2024	Advisor
Shiva Torabian	PhD	2023	Advisor
Nate Donato	MS	Expected 2025	Co-Advisor
Joey Cammarano	MS	Expected 2025	Advisor
Rylie Franklin	MS	Expected 2025	Advisor
Ali Karnes	MS	Expected 2025	Advisor
Tyler Geltmacher	MS	Expected 2026	Advisor
Anna Manson	MS	Expected 2025	Advisor
Allison Boehm	MS	Expected 2025	Advisor
Brandon Clark	MS	Expected 2024	Advisor
Alex Kovary	MS	Expected 2025	Advisor
Grace Villmow	MS	2024	Advisor
Greg Cooper	MS	2023	Advisor
Gabi Bolwerk	MS	2023	Advisor
Robin Buterbaugh	MS	2023	Advisor
Abigail Blanchard	MS	2021	Advisor
Marlin Dart*	MS	2021	Co-Advisor
Stuart Fetherston*	MS	2021	Co-Advisor
Jacob Comer	MS	2019	Advisor
Jacob Pecenka*	MS	2017	Co-Advisor
Ming Stephens	MS	2017	Advisor
Joe Bennett	MS	2016	Advisor
Joshua Leonard*	MS	2016	Co-Advisor
Emily Ulrich	MS	2014	Advisor

Peer-Reviewed Publications and Book Chapters

(undergraduates indicated by ^U, graduate students indicated by ^G; note in ecology, the last author denotes papers coming from your lab where you made a significant contribution)

2024 Nleya, T., Clay, S., **L. Perkins.**, ^GMertz, C. Plant responses to Salt Stress in **Salinity and Sodicty: A Growing Global Challenge to Food Security, Environmental Quality and Soil Resilience.** Wiley Press

L. Perkins., ^GBlanchard, A., Ehlert, K., Leffler, A. Native Plant Restoration of Salt-Impacted Soils. **Salinity and Sodicty: A Growing Global Challenge to Food Security, Environmental Quality and Soil Resilience.** Wiley Press

⁶Bolwerk, G. A., ⁶Cooper, G. A., Leffler, A. J., and **L. Perkins**. Simulated herbicide drift effects on seed germination, seedling emergence, and seedling growth of native plants of the Northern Great Plains. **Environmental Toxicology and Chemistry**. In press

⁶Cooper, G. A., ⁶Bolwerk, G. A., Leffler, A. J., and **L. Perkins**. Seed dormancy, germination requirements, and implications of herbicides for *Penstemon albidus* and *P. nitidus*. **Restoration Ecology**, In press

⁴Maynard, J., Hatfield, G., and **L. Perkins**. The effect of multiple fire cures on germination of groundplum milkvetch (*Astragalus crassicaerpus* Nutt). **Native Plants Journal**. 25(1), 22-27

⁶Torabian, S., Leffler, A.J. and **L. Perkins**., Effects of ivermectin on soil nutrient cycling, plant biomass, and dung beetle abundance. **The Rangeland Journal**. In press

⁶Fetherston, S. C., Lonsinger, R. C., **L. Perkins**, Lehman, C. P., Adams, J. R., & Waits, L. P. Genetic analysis of harvest samples reveals population structure in a highly mobile generalist carnivore. **Ecology and Evolution**, 14(5), e11411.

⁶Torabian S, Leffler AJ, **L. Perkins**. Importance of restoration of dung beetles in the maintenance of ecosystems services. **Ecological Solutions and Evidence**. 5(1), pe12297

2023 Li S, Ulrich-Schad J, Leffler A, Avemegah E, **L. Perkins**. Dewormers, Dung Beetles, and Decision Making: Understanding Rangeland Livestock Producers' Parasiticide Use. **Rangeland Ecology & Management**. 90 (1), 13-21.

⁶Blanchard A, Clay S, **L. Perkins**. The Good, the Bad, the Salty: Investigation of native plants for revegetation of salt-impacted soil in the northern Great Plains, USA. *Journal of Soil and Water Conservation*. Accepted for Publication

Perkins L, ⁶Blanchard A, Ehlert K, Leffler A. Native Plant Restoration of Salt-impacted Soils. **Salinity and Sodicty: A Growing Global Challenge to Food Security**. David Clay and Tom DeSutter ed. Accepted for publication by the Alliance of American Society of Agronomy, Soil Science of America, and the Crop Science Society of America.

Nleya T, Clay S, **Perkins L**, ⁶Mertz C. Plants and Salt Tolerance. **Native Plant Restoration of Salt-impacted Soils. Salinity and Sodicty: A Growing Global Challenge to Food Security**. David Clay and Tom DeSutter ed. Accepted for publication by the Alliance of American Society of Agronomy, Soil Science of America, and the Crop Science Society of America.

2022 ⁶Dart, M., **L. Perkins**., Jenks, J., Hatfield, G., & Lonsinger, R. C. The effect of scent lures on detection is not equitable among sympatric species. **Wildlife Research**, 50(3), 190-200.

⁶Fiedler, D., Clay, S. A., Westhoff, S., Reese, C. L., Bruggeman, S. A., Moriles-Miller, J., **L. Perkins**. Joshi, D., Marzano, S. & Clay, D. E. Phytoremediation and high rainfall combine to improve soil and plant health in a North America Northern Great Plains saline sodic soil. **Journal of Soil and Water Conservation**, 77(4), 381-388.

- 2021 ^oComer, J., **L. Perkins**. Resistance of the soil microbial community to land-surface disturbances of high-intensity winter grazing and wildfire. **Journal of Environmental Management**. 279, 1-7
- Avemegah, E., ^oGu, W., Abulbasher, A., Koci, K., Ogunyiola, A., Eduful, J., **L. Perkins**, & Ulrich-Schad, J. D. (2021). An Examination of Best Practices for Survey Research with Agricultural Producers. **Society & Natural Resources**, 34(4), 538-549.
- Ulrich-Schad, J., Li, S., Leffler, A., ^oGu, W., Schoon, L., **L. Perkins**. What and Why: South Dakota Rangeland Livestock Producers' Usage of Parasiticides. **Rangeland Ecology & Management**, 79, 190-200
- 2020 Higgins, K., **L. Perkins**, et al. Vegetation Sampling and Measurement. **The Wildlife Techniques Manual**, Eighth Edition, Johns Hopkins Press, Nova Silvy ed. pg 409-438
- Gaskin, J.F., Espeland, E., Johnson, C.D., Larson, D.L., Mangold, J.M., McGee, R.A., Milner, C., Paudel, S., Pearson, D.E., **L. Perkins**, and Prosser, C.W. Managing invasive plants on Great Plains grasslands: A discussion of current challenges. **Rangeland Ecology & Management**. 78, 235-249
- 2019 **L. Perkins**, K. ^uDucheneaux, G. Hatfield, S. Abella. Badlands, Seed Bank, and Community Disassembly. **Rangeland Ecology and Management** 72:736-741
- Paschke, M., **L. Perkins**, K. Veblen. Restoration for Multiple Use. **Restoration Ecology** 27:701-704
- ^oBennett, J., A. Smart, **L. Perkins**. Using phenological niche separation to improve management in a Northern Glaciated Plains grassland. **Restoration Ecology** 27:745-749
- L. Perkins**, M. Ahlering, D. Larson. Looking to the future: key points for sustainable management of northern Great Plains grasslands. **Restoration Ecology** 27:1212-1219
- L. Perkins**. and A. Leffler. Conceptualizing ecological restoration: a concise and adaptable framework for researchers and practitioners. **Restoration Ecology** 26:1024-1028
- 2018 **L. Perkins**. and ^oJ. Bennett. A field test of commercial soil microbial treatments on native grassland restoration. **Restoration Ecology** 26:851-857.
- ^o Henshue, N., ^uC. Mordhorst, and **L. Perkins**. Invasive earthworms in a northern Great Plains prairie fragment. **Biological Invasions** 20:29-32.
- 2017 Espeland, E. and **L. Perkins**. Weed Establishment and persistence after water pipeline installation and reclamation in the mixed grass prairie of western North Dakota. **Ecological Restoration** 35:303-310.
- ^oBennett, J., and **L. Perkins**. Plant-derived smoke influences germination of native and invasive plant species. **Ecological Restoration** 35:205-208.
- ^oLeonard, J., ^oW. Inselman, J. Jenks, T. Grovenburg, **L. Perkins**, and D. Lammers. A new approach: Capturing neonatal Bison with a net-gun from a utility terrain vehicle. **Journal of Fish and Wildlife Management**. 8:255-259.

⁶Leonard, J., **L. Perkins**, and J. Jenks. Are Bison intermediate feeders? Unveiling summer diet selection at the northern fringe of historical distribution. **Rangeland Ecology and Management**. 70:405-410.

⁶Dahal, B., **L. Perkins**, and V. Brozel. 2017. Diversity of free-living nitrogen fixing Streptomyces in soils of the Badlands of South Dakota. **Microbiological Research** 195:31-39.

⁶Leonard, J., ⁶W. Inselman, J. Jenks, T. Grovenburg, **L. Perkins**, and D. Lammers. Capturing neonate Bison: A novel approach aimed at understanding survival. **The Wildlife Professional** 11:33-35.

2016 Higgins, K., D. Parris, E. Stukel, and **L. Perkins**. Development of a multi-phased educational program designed to enhance student and citizen knowledge and awareness of South Dakota's natural history and visual arts collections of plants, animals, and fossils: Inconceivable or not? **Proceedings of South Dakota Academy of Science**. 95:27-40.

Smart, A., **L. Perkins**, T. Schramm, M. Nelson, P. Bauman, S. Clay, and D. Clay. The effects of patch-burn grazing on vegetation structural heterogeneity in the northern tallgrass prairie of South Dakota. **Great Plains Research**. 26:57-70.

L. Perkins. and G. Hatfield. Can commercial soil microbial treatments remediate plant-soil feedbacks and improve restoration seedling performance? **Restoration Ecology**. 24:194-201.

L. Perkins., G. Hatfield, and E. Espeland. Invasive grasses consistently create similar plant-soil feedback types in soils collected from geographically distant locations. **Journal of Plant Ecology**. 9:180-186.

Espeland, E., **L. Perkins**, M. Horning, and R. Johnson. Seed source may determine field-specific germination and emergence: the source by planting environment interaction. **Crop Science**. 56:249-258.

2015 Higgins, K., D. Parris, E. Stukel, and **L. Perkins**. A century of academy of science publications with relevance to South Dakota's wild vertebrate fauna and fossils. **Proceedings of South Dakota Academy of Science**. 94:53-67.

^USundall, M., **L. Perkins**, and T. Grovenburg. Conversion of smooth brome (*Bromus inermis*) to switchgrass (*Panicum virgatum*) in northwestern Iowa. **Ecological Restoration**. 33:355-357.

2014 ⁶Ulrich, E., and **L. Perkins**. *Bromus inermis* and *Elymus canadensis* but not *Poa pratensis* demonstrate strong competitive effects and all benefit from priority. **Plant Ecology**. 215:1269-1275.

L. Perkins and G. Hatfield. Competition, legacy, and priority and the success of three invasive species. **Biological Invasions**. 16:2543-2550.

^UJohnson, R., T. Grovenburg, **L. Perkins**, J. Jenks, and C. Swanson. Evaluation of five herbicide treatments to control yellow toadflax (*Linaria vulgaris*). **Ecological Restoration**. 32:137-140.

- 2013 **L. Perkins.**, R. Blank, [◊]S. Ferguson, D. Johnson, **B. Rau, and W. Lindemann.** Quick start guide to soil methods for ecologists. **Perspectives in Plant Ecology, Evolution, and Systematics.** 4:237-244.
- L. Perkins.** and R. Nowak. Invasions syndromes: beyond individual invasion hypotheses. **Journal of Arid Lands.** 5:275-283 Special issue Symposium for Invasive Species and Global Change, Urumqi China.
- Espeland, E., and **L. Perkins.** Annual cover crops do not inhibit early growth of perennial grasses on a disturbed restoration soil in the Northern Great Plains. **Ecological Restoration.** 31:69-78.
- L. Perkins.** and R. Nowak. Native and non-native grasses generate common types of plant–soil feedbacks by altering soil nutrients and microbial communities. **Oikos.** 122:199-208.

Other publications

- 2024 [◊]Cooper, G., K. Ehlert, **L. Perkins.** A Quick Start Guide to Selling Native Seeds. SDState Extension
- [◊]Puetz, E., R. Buterbaugh, K. Lang, A. Bachmann, **L. Perkins.** Native Plants to Know: Prairie Smoke (*Geum triflorum*). SDState Extension
- [◊]Puetz, E., R. Buterbaugh, K. Lang, A. Bachmann, **L. Perkins.** Native Plants to Know: Small-flowered Columbine (*Aquilegia brevistyla*). SDState Extension
- [◊]Puetz, E., R. Buterbaugh, K. Lang, A. Bachmann, **L. Perkins.** Native Plants to Know: Thimbleweed (*Anemone cylindrica*) SDState Extension
- [◊]Lang, B., R. Buterbaugh, K. Lang, and **L. Perkins.** Plant Look-alikes: What’s the Difference Between Fireweed and Purple Loosestrife? SDState Extension
- [◊]Lang, B., R. Buterbaugh, K. Lang, and **L. Perkins.** Plant Look-alikes: What’s the Difference Between Golden Alexander and Wild Parsnip? SDState Extension
- Ehlert, K., [◊]G. Villmow, [◊]**B. Lang, and L. Perkins.** SDSU Native Plant Initiative Strengthens Conservation and Supply of Native Plants. SDState Extension
- 2023 [◊]Lang, B., K. Lang, and **L. Perkins.** Plant Look-alikes: What’s the Difference Between Phlox and Dame’s Rocket? SDState Extension
- [◊]Villmow, G., K. Lang, A. Bachmann, **L. Perkins.** Generalist Host Plants in South Dakota. SDState Extension
- [◊]Villmow, G., K. Lang, A. Bachmann, **L. Perkins.** Landscaping Best Practices for Pollinators and Beyond. SDState Extension
- [◊]Villmow, G., K. Lang, A. Bachmann, **L. Perkins.** Planting for Specialist Butterflies. SDState Extension
- [◊]Clark, B., F. Rodriguez, M. Ahlering, M. Latvis, K. Ehlert, **L. Perkins.** How do we describe biodiversity? It’s Multidimensional! SDState Extension
- 2022 Ehlert, K. and **L. Perkins.** Range Roundup: SDSU’s Native Plant Initiative. SDState Extension
- Ehlert, K., [◊]**B. Lang, ◊G. Bolwerk, L. Perkins.** Common Flowering Plants (Forbs) of South Dakota. SDState Extension
- [◊]Villmow, G., K. Ehlert, **L. Perkins.** Five Range Management Principles: #3 Ecosystem Biodiversity. SDState Extension
- [◊]Villmow, G., K. Lang, A. Bachmann, D. Graper, **L. Perkins.** Garden-friendly Milkweeds to Plant in South Dakota. SDState Extension
- 2021 Varenhorst, A., P. Rozenboom, A. Bachmann, P. Wagner, K. Lang, J. Ball, and **L. Perkins.** Should I

- get rid of my dandelion. SDState Extension
 Ehlert, K., °A. Blanchard, and **L. Perkins**. An Introduction to Salt-Impacted Soils in South Dakota. SDState Extension
 Ehlert, K., °A. Blanchard, and **L. Perkins**. Revegetation of Salt-Impacted Soils in South Dakota. SDState Extension
 2020 Ehlert, K. and **L. Perkins**. Range Roundup: SDSU's Native Plant Initiative. SDState Extension
 2017 °Price, P. and **L. Perkins**. Russian Olive in South Dakota. South Dakota Grassland Coalition Newsletter article.
 2016 °Douville, B and **L. Perkins**. Crownvetch. South Dakota Grassland Coalition Newsletter article.
 2015 **L. Perkins**. Cheatgrass. South Dakota Grassland Coalition Newsletter article.
L. Perkins. Medusahead. South Dakota Weed and Pest Districts Newsletter article.

Grants Awarded

- 2024-2027 Northern Great Plains Biocontrol Project. *Department of the Interior, National Park Service*. **PI** with Dr. Martens. \$270,000
- 2024-2025 Regional Native Plant Materials Program. *United States Department of Agriculture, Forest Service*. **PI**. \$148,000
- 2023-2026 Developing Native Plant Materials for the Northern Great Plains. *Department of the Interior, National Park Service*. **PI** with Dr. Ehlert. \$900,000
- 2023-2025 The Effects of Storage Conditions on Native Seeds. *Department of Interior, Bureau of Land Management*. **PI** \$90,982
- 2023-2025 Variation in germination requirements among populations of high-priority native forbs. *Department of Interior, Bureau of Land Management*. **PI** \$63,130
- 2023-2026 Evaluating current and future distributions of invasive Russian olive in Wyoming. *Bureau of Land Management*. \$89,126. **Co-PI** with C. Cheek, J. Ball, M. Maimaitijiang.
- 2021-2024 Determining germination requirements for high priority native plants. *United States Department of Interior, Bureau of Land Management*. \$99,997. **PI** with Dr. A. Leffler
- 2021-2024 Deciphering diversity for landowners: identifying restoration targets to best support soil health and pollinators in the Northern Great Plains. *United States Department of Agriculture Natural Resources Conservation Service*. \$654,336. **PI** with Dr. M. Latvis, Dr. D. Larson (USGS), and Dr. M. Ahlering (The Nature Conservancy)
- 2021-2026 Flower Fields and Soil Health. *United States Department of Agriculture, National Institute of Food and Agriculture*. \$495,000. **PI**
- 2020-2025 Monarchs and Milkweeds: Determining preference among native milkweed species. *United States Department of Agriculture, McIntire-Stennis*. \$175,000. **PI**
- 2018-2023 Environmental Sustainability of Rangeland Livestock Production: Decomposition, Dung Beetles, and Decision Making. *United States Department of Agriculture, National Institute of Food and Agriculture*. \$486,000. **PI** with Dr. A. Leffler
- 2018-2021 Competitive ability of two emerging invasive plants in Mixed-grass Prairie. *United States Department of Agriculture, Hatch*. \$120,000. **PI**
- 2016-2021 Distribution and ecological impacts of Russian Olive in South Dakota. *United States Department of Agriculture, McIntire-Stennis*. \$175,000. **PI**
- 2017-2021 Strategic livestock grazing to develop rangeland heterogeneity for improved ecosystem services. *United States Department of Agriculture, National Institute of Food and Agriculture*. \$500,000. **Co-PI** with Dr. P. Johnson, Dr. A. Smart, Dr. K. Olson

- 2018-2020 Improving Ecosystem Services in Non-irrigated Sodium Degraded Soils: Switching from soil amendments to vegetative remediation. *United States Department of Agriculture, National Institute of Food and Agriculture*. \$480,000. **Co-PI** Dr. S. Clay and D. Clay
- 2017-2020 Seeding Northern Great Plains Degraded Saline/Sodic Soils to Perennial Plants. *United States Department of Agriculture Natural Resources Conservation Service*. \$1,351,758. **Co-PI** with Dr. Sharon Clay and Dr. David Clay
- 2012-2017 Plant Invasion Syndromes and South Dakota Grasslands. *United States Department of Agriculture, Hatch*. \$120,000. **PI**
- 2016-2017 Wetland plants at Fort Pierre National Grassland. *United States Forest Service*. \$5000. **PI**
- 2013-2018 Precision techniques for improved drought resilience, *United States Department of Agriculture, Natural Resources Conservation Service*. \$713,019. **Co-PD Co-PI** with Dr. A. Smart, Dr. S. Clay, Dr. D. Clay, Dr. T. Trooien, Dr. W. Schacht (UNL)
- 2013-2016 Evaluating vegetation and predator-bison relationships in aspen dominated habitats in Canada. *Olson Bison Conservation Ranches Ltd*. \$92,961. **Co-PD Co-PI** with Dr. J. Jenks and Dr. T. Grovenberg
- 2013-2014 Remediation of plant-soil feedback to improve restoration success at Kulm Wetland Management District North Dakota. *US Fish and Wildlife Service*. \$23,000. **Co-PI** with Dr. C. Swanson (USFWS) and Dr. T. Grovenberg

Research Awards

- 2023 Martin, J., **L. Perkins**, M. Hildreth. Wallowing in the mire: Bison wallows may have disproportionately large role for “low-tech”, nature-based solutions to ecological restoration and cultural recoupling of prairie ecosystems. Wokini Challenge Grant 2023. \$9,974
- 2021 ^UKnofczynski, A., **L. Perkins**. Effects of Smoke and Stratification Treatments in Three Native Species. Joseph F. Nelson Award for Undergraduate Research. SDSU Honors College. \$2,000
- 2020 ^USzymanski, K., **L. Perkins**. The Establishment of Native Wildflowers Using Mulch vs. No-Mulch. Joseph F. Nelson Award for Undergraduate Research. SDSU Honors College. \$2,000
- 2019 ^UChiple, B., **L. Perkins**. Assessment of Pollinator Preference of Native and Nonnative Perennial Flowering Plants in South Dakota’s Grasslands. ABS Undergraduate Research Award. \$3,000
- 2015 ^UChampion, J., **L. Perkins**, and A. Leffler. Intra-specific variation in plant-soil feedback of *Echinacea purpurea*. ABS Undergraduate Research Award. \$3,000
- ^UDufour, R., T. Grovenburg, **L. Perkins**, and J. Jenks. Predator corridor use in an aspen dominated (*Populus spp.*) forest at the Olson’s Bison Conservation Ranches, Manitoba, Canada. Orville and Enolia Bentley Undergraduate Research Award. \$3,000
- 2014 ^USundall, M. and **L. Perkins**. The use of different elimination methods for smooth brome grass and the response of planted switchgrass on an unplowed site in northwestern Iowa. ABS Undergraduate Research Award. \$3,000
- ^UJohnston, W. and **L. Perkins**. The effects of smoke on native tallgrass prairie plant establishment. ABS Undergraduate Research Award. \$3,000
- 2013 ^UDucheneaux, K. and **L. Perkins**. Badlands National Park as a model system to investigate habitat fragmentation. SDSU Academic and Scholarly Excellence Funds Undergraduate Research. \$4,546

Popular Presentations (2 years only)

- 2024 **L. Perkins**. “SDSU Native Plant Initiative makes stop in Huron” **Dakota News Now**
- 2023 **L. Perkins**. “SDSU profs work to restore native plants” **Brookings Register and Mitchell Daily Republic**

L. Perkins. “Restoring native plants to South Dakota’s National Parks” **Rapid City Journal**

L. Perkins. “Beautify Spearfish hosted native plant initiative expo” **KEVN Black Hills Fox.**

[Ⓔ]Bolwerk, G., **L. Perkins.** Introduction to the Native Plant Initiative. **SDSU Extension Garden Hour.**

[Ⓔ]Bolwerk, G. Villmow[Ⓔ], **L. Perkins.** Pollinators and native plants. **Dakota Prairie Elementary School,** Brookings, SD.

[Ⓔ]Bolwerk, G., A. Leffler, **L. Perkins.** Effect of agricultural chemicals on native plants in the Dakotas. SDSU Native Plant Initiative Research Update Webinar through **SDSU Extension.**

[Ⓔ]Lang, B., **L. Perkins.** Guide to Planning Native Plant Garden. **Master Gardener** Lunch & Learn.

[Ⓔ]Lang, B., **L. Perkins.** Native Plant Initiative Update. **Black Hills Area Botany & Ecology Workshop.**

[Ⓔ]Cooper, G., A.J. Leffler, and **L. Perkins.** Determining germination requirements for native plants of the Northern Great Plains. SDSU NPI Research Update Webinar through **SDSU Extension.**

[Ⓔ]Lang, B., **L. Perkins.** The Important Relationship Between Native Plants and Birds. Brookings County Birding Club March Chapter Meeting, Brookings, SD.

[Ⓔ]Lang, B., **L. Perkins.** Intra- and Inter-Annual Changes in Soil Health with Native Plant Monocultures. SDSU NPI Research Update Webinar through **SDSU Extension.**

[Ⓔ]Villmow, G., **L. Perkins.** Monarch Butterfly Oviposition Preferences on Native Milkweeds of the Northern Great Plains. **SDSU Extension** Webinar.

[Ⓔ]Villmow, G., **L. Perkins.** Monarchs and Gardening for Native Butterflies. **Dakota Prairie Master Gardener’s Association** Annual Spring Fling, Miller, SD .

[Ⓔ]Villmow, G., **L. Perkins.** Butterflies and Native Landscaping. **Beautify Spearfish Native Plant Expo,** Spearfish, SD.

[Ⓔ]Villmow, G., **L. Perkins.** Butterflies and Pollinators in South Dakota. **South Dakota State Fair,** Huron, SD.

[Ⓔ]Buterbaugh, R. **L. Perkins.** 2023. Native Plants in Home Landscaping. **South Dakota State University Extension Seminar.** Sioux Falls, SD.

2022 **L. Perkins.** “How these state scientists plan to restore some prairie grasslands” on **In the Moment** on South Dakota Public Broadcasting

L. Perkins. “Native Plant Sale” on **Keloland This Morning**

[Ⓔ]Bolwerk, G. et al. “Seed bombs and native plants”. **4-H Event** with the Ag Heritage Museum

[Ⓔ]Buterbaugh, R., **L. Perkins.** “Native Plants for local Food Forest”. **Luv to Grow Expo.** Luvern, MN

[Ⓔ]Buterbaugh, R., et al. “Native Plants”. **Brookings High School** Horticulture Class

[Ⓔ]Lang, **B. et al.** “About the Native Plant Initiative”. **South Dakota Soil and Water Conservation Society**

[Ⓔ]Lang, B., [Ⓔ]G. Villmow, et al. SDState NPI Seed Production Tour for **Custer Garden Club**

Ulrich-Schad, J., et al. “Ranchers’ Use of Livestock Pest Products.” **South Dakota Ranchers’ Workshop,** White River, SD.

Scholarly Presentations (2 years only)

2023 [Ⓔ]Bolwerk, G., A. Leffler, **L. Perkins.** Determining the effect of agricultural chemicals on native plants of the Dakotas. SER 10th World Conference on Ecological Restoration.

^oTorabian, S., A. Leffler, **L. Perkins**. The resistance and resilience of different plant communities against different concentrations of fungicide and parasiticide. Ecological Society of America Annual Meeting, Portland, OR.

^oLang, B, **L. Perkins**. Changes in Soil Health within Native Plants Monocultures. Ecological Society of America Annual Meeting, Portland, OR.

^oTorabian, S., A. Leffler, **L. Perkins**. Comparison of residual Effects of Ivermectin as a parasiticide on soil nutrient cycling, plant biomass, and dung beetle abundance. Society for Range Management Conference, Boise, ID.

^oTorabian, S., A. Leffler, **L. Perkins**. The principal framework of dung beetle restoration. Society for Range Management Conference, Boise, ID.

L. Perkins, B. Lang^o, M. Ahlering, B. Clark^o, F. Chaves, D. Larson, M. Latvis. Minding the Gap: Seed Availability in the Northern Great Plains. The 2023 National Native Seed Conference, Washington, DC.

^oLang, B, M. Ahlering, **B. Clark^o, F. Chaves, D. Larson, M. Latvis, L. Perkins**. Minding the Gap: Seed Availability in the Northern Great Plains. The 2023 National Native Seed Conference, Washington, DC.

^oClark, B., H. Moradi, **L. Perkins**, and M. Latvis. Using phylogenetic diversity to improve seed-based restoration of prairies. National Native Seed Conference, Washington, D.C.

^oCooper, G., A. Leffler, and **L. Perkins**. Examining phenology and pretreatments to promote germination success in Northern Great Plains forbs. National Native Seed Conference, Washington, D.C.

^oVillmow, G., Puetz, E. ^o, **L. Perkins**. The Effects of Fire as a Seed Cleaning Method on Four Species of Milkweed. National Native Seed Conference, Washington, D.C.

Chaves F. Lang, B^o, M. Ahlering, **B. Clark^o, D. Larson, M. Latvis, L. Perkins**. Deciphering biodiversity for landowners: identifying restoration targets to best support soil health and pollinators in the Northern Great Plains. Black Hills Area Botany and Ecology Workshop 2023.

^oLang, B, M. Ahlering, **B. Clark^o, F. Chaves, D. Larson, M. Latvis, L. Perkins**. Minding the Gap: Seed Availability in the Northern Great Plains. TheNorth America Prairie Conference, Des Moines, IA.

^oLang, B., **L. Perkins**. Creating a Native Plant Initiative for South Dakota. The 2023 North America Prairie Conference, Des Moines, IA.

2022 Latvis, M., et al. Introducing the SDState Native Plant Initiative. Botany Society Annual Meeting, Anchorage Alaska

^oChen, Y., M. Latvis, **L. Perkins**, A. J. Leffler, M. Johnson. The Macroevolution of a Smoke-induced Seed Germination. Botany Society Annual Meeting, Anchorage Alaska

^oTorabian, S., Leffler, J., **L. Perkins**. Residual Effects of Ivermectin as a Parasiticide on Soil Nutrient Cycling, Plant Biomass, and Dung Beetle Abundance, 2022, Society for Range Management annual meeting. Online

Ulrich-Schad, J., S. Li, A. J. Leffler, W. Gu, L. Schoon, and **L. Perkins**. "Rangeland Livestock Producers' Usage of Parasiticides." International Symposium on Society and Research Management; Virtual.

Instructional Activities

Courses taught:

2020-present Graduate reading courses

2012-present RANG 105/L & 205/L, Introduction to Range Management

2013-present RANG 400, Range Judging

2015-present EES 430/530/L, Biological Invasion

2016-present EES 425/525/L, Disturbance and Restoration Ecology
 2013-present Undergraduate and Graduate Independent Studies
 2013-present ABS 475, Senior Capstone
 2014 NRM 440, Restoration Ecology
 2014 GSE 790, Graduate Seminar

Service

Professional:

2014- Panelist for United States Department of Agriculture and National Science Foundation
 2010- Member of 3 professional organizations (the Ecological Society of America, the Society for Range Management, and the Society for Ecological Restoration)

South Dakota State University:

University
 2022 Academic Affairs Committee
 2021- present Public Art Committee
 2020-2021 Faculty Senate Executive Committee
 2018- present Chair Bee Campus USA
 2017-2022 Faculty Senate
 2012-2022 NRM Library representative
 2014-2015 Food Service Committee
 2017 SDSU Research/ Scholarship Support Fund reviewer
 2017-2019 Chair Environmental Stewardship and Sustainability Committee

2024 Director of Communications Search
 2016- present West River Resource Allocation Committee
 2016- present Gamma Sigma Delta Honor Society Poster Contest Judge
 2015-2017 Dean's Advisory Committee

Department of Agronomy, Horticulture and Plant Science
 2024 Weed Ecologist Search Chair
 2018 Greenhouse Coordinator Search
 2014 Oilseed Pathologist Search Committee
 2015- present Greenhouse Committee

Department of Natural Resource Management

2012-present Space and Use Committee Chair
 2012- present Range Judging Coach
 2013- 2018 Curriculum Committee
 2020- present Scholarship Committee (Chair 2020-2022)
 2013- 2022 Student Assessment Committee
 2014 Department Head Search
 2014 NRM Instructor Search
 2014 Grassland Ecologist Search
 2015 REM reaccreditation team
 2016 Herbarium Director Search
 2016 NRM Field Specialist Search
 2017 and 2019 Wildlife Ecologist Search
 2019 Conservation Planning and Park Management Search Chair
 2021 Cultural Ecologist Search Chair
 2023 Plant Conservation Search Chair

College of Agriculture and Biological Science