

## WYNDD PROJECT REPORTS – BOTANY

Completed reports will be available at: <http://www.uwyo.edu/wyndd/reports-and-publications/>

### Completed between 1 June – 1 November 2019

Handley, J. 2019. Monitoring of *Cymopterus williamsii* (Williams' springparsley), north-central Wyoming. Report prepared for USDI Bureau of Land Management-Wyoming State Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. 2019. Botany inventories in select fens of the Caribou-Targhee and Bridger-Teton National Forests. Report prepared for the USDA Forest Service–Region 4 by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. 2019. The Rocky Mountain Herbarium as a *Flora of North America* cornerstone. RM Friends Newsletter 5(1). Posted at: <http://www.uwyo.edu/botany/rm-friends/>.

Heidel, B. 2019 *in press*. Non-natives, Invasives, Weeds: Plants as Stories of Human Meddling. Western Confluence.

### In-progress as of 1 November 2019

Burkhart, B. 2019 *in preparation*. Jewel Cave National Park floristic inventory. Report prepared for the USDI National Park Service - Northern Great Plains Inventory and Monitoring Network by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

\*\*\*Handley, J. and B. Heidel. 2019 *in preparation*. Compilation of negative survey results for rare plants surveys in Wyoming. Report prepared for USDI Bureau of Land Management-Wyoming State Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. 2019 *in preparation*. *Astragalus hyalinus* var. *glabratus* (Smooth summer milkvetch) Survey, northwest Wyoming. Report prepared for the USDI Bureau of Land Management-Wyoming State Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. 2019 *in preparation*. *Cryptantha subcapitata* (Owl Creek miner's candle) survey, west-central Wyoming. Report prepared for the USDI Bureau of Land Management-Wyoming State Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. 2019 *in preparation*. *Rorippa calycina* (Persistant-sepal yellow-cress) survey, central Wyoming. Report prepared for the USDI Bureau of Land Management-Wyoming State Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. 2019 *in preparation*. Surveys and baseline information for addressing *Spiranthes diluvialis* (Ute lady's tresses) potential distribution. Final report prepared for the USDI Bureau of Land Management-Wyoming State Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. 2019 *in preparation*. Wyoming Rare Plant Field Guide: It's B-A-A-A-C-C-K! *Castilleja* 38(3): 6-7.

Heidel, B. 2019 *in preparation*. Wyoming Plant Species Field Guide: current species data at your fingertips. Report prepared for the USDI Bureau of Land Management – Wyoming State Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. and J. Handley. 2019 *in preparation*. Threatened, Endangered and Sensitive plant species surveys in scattered BLM tracts – Albany County, Wyoming. Report prepared for the USDI Bureau of Land Management-Rawlins and State Offices by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. and D. Tuthill. 2019 *in preparation*. 32-year population trends of Colorado butterfly plant (*Oenothera coloradensis*; Onagraceae), a short-lived riparian species on F.E. Warren Air Force Base. Report prepared for the USDI Fish & Wildlife Service – Region 6 and F.E. Warren Air Force Base by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B., D. T. Wepprich and D. Laughlin. 2019 *in preparation*. Population viability analysis of a Threatened riparian forb, *Oenothera coloradensis* (Colorado butterfly plant). Report prepared for F.E. Warren Air Force Base and for publication, by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B., L. Tronstad, Z. Wallace and I. Abernethy. 2019 *in preparation*. Biodiversity inventory in the Oregon Buttes and Whitehorse Creek Wilderness Study Areas, Wyoming. Report prepared for the USDI Bureau of Land Management – Rock Springs Field Office by the Wyoming Natural Diversity Database – University of Wyoming, Laramie, Wyoming.

Heidel, B., B. Burkhart, C. Mayer, H. Marriott and J. Handley. 2019 *in preparation*. Flora of National Parks in the Black Hills - floristic inventories, specimen reviews, and data integration (Jewel Cave National Park, Mount Rushmore National Memorial, Wind Cave National Park). Report prepared for the USDI National Park Service - Northern Great Plains Inventory and Monitoring Network by the Wyoming Natural Diversity Database – University of Wyoming, Laramie, Wyoming.

Tekeila, D. and B. Heidel. 2019 *in preparation*. Wyoming thistle guide. Publication prepared for the Wyoming Cooperative Extension Service by the Rocky Mountain Herbarium and Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Waselkov, K., M. Santiago, B. Heidel, M.H. Mayfield and C.J. Ferguson. 2019 *in preparation*. Population genetics of *Phlox pungens* Dorn (Polemoniaceae), a rare Wyoming endemic. Manuscript prepared for publication.