

WYNDD reports in-progress

1 November 2017

Abernethy, I.M. 2017 *in preparation*. Northern Long-eared Bat maternity roost selection in Wyoming. Report prepared for the USDA Forest Service - Black Hills National Forest by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Abernethy, I.M. 2017 *in preparation*. Bats of northeastern Wyoming, year 3 Report. Report prepared for the USDI Bureau of Land Management-Wyoming State Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Abernethy, I.M. and G.P. Beauvais. 2017 *in preparation*. Northern long-eared bat (*Myotis septentrionalis*) 2017 permit report. Report prepared for the USDI Fish and Wildlife Service-Wyoming Field Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Abernethy, I.M. and G.P. Beauvais. 2017 *in preparation*. Preble's meadow jumping mouse (*Zapus hudsonius preblei*) 2017 permit report. Report prepared for the USDI Fish and Wildlife Service-Wyoming Field Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Abernethy, I.M. and D.A. Keinath. 2017 *in preparation*. Distribution and habitat use by Northern Long-eared *Myotis* in the Black Hills of Wyoming: year 2 report. Report prepared for the USDI Bureau of Land Management - Wyoming State Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Abernethy, I.M. and Z.P. Wallace. 2017 *in preparation*. Bat population monitoring of Bighorn Canyon National Recreation Area: 2017 project report. Report prepared for the USDI National Park Service - Bighorn Canyon National Recreation Area by the Wyoming Natural Diversity Database - University of Wyoming, Laramie Wyoming.

Abernethy, I.M., and Z.P. Wallace. 2017 *in preparation*. Alternative bat hibernacula use and selection at Devil's Tower National Monument. Report prepared for the Department of Interior, National Park Service by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Abernethy, I.M., and Z.P. Wallace. 2017 *in preparation*. White-nose syndrome surveillance of bats across the Northern Great Plains Inventory and Monitoring Network Year 1 report. Report prepared for the National Park Service - Northern Great Plains Inventory and Monitoring Network by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Abernethy, I.M., Z.P. Wallace and D.A. Keinath. 2017 *in preparation*. Factors influencing the occupancy and distribution of Northern Long-eared Bat (*Myotis septentrionalis*) in the Black Hills of Wyoming. *The American Midland Naturalist*.

Abernethy, I.M., Z.P. Wallace and G.P. Beauvais. 2017 *in preparation*. Survey for Preble's Meadow Jumping Mouse on F.E. Warren Air Force Base, Wyoming: 2017 survey report. Report prepared for the Department of Defense - F.E. Warren Air Force Base and the USDI Fish and Wildlife Service by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Abernethy, I.M., D.A. Keinath and M.D. Andersen. 2017 *in preparation*. Bats of northeastern Wyoming, year 2 report. Report prepared for the USDI Bureau of Land Management-Wyoming State Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Alston, J.M., I.M. Abernethy, J. Goheen and D.A. Keinath. 2017 *in preparation*. Bat use of Jewel Cave National Monument: year 1 report. Report prepared for USDI National Park Service - Jewel Cave National Monument by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

[WYNDD reports in-progress, November 2017, continued:]

Andersen, M.D. and G.P. Beauvais. 2017 *in preparation*. Rangewide predictive distribution modeling for Ute's ladies'-tresses (*Spiranthes diluvialis*). Report prepared for the Wyoming Governor's Office and USDI Fish and Wildlife Service by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Andersen, M.D., P. O'Toole and M. Arnett. 2017 *in preparation*. An integrated, online system for Chapter 33 data submission and retrieval. Technical report and manual prepared for the Wyoming Game and Fish Department by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Andersen, M.D., K.A. Hubbard, G.P. Beauvais and M. Arnett. 2017 *in preparation*. Assessment and consolidation of priority datasets from coal mine wildlife reports. Report prepared for the Wyoming Game and Fish Department and the Wyoming Governor's Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Andersen, M.D., K.A. Hubbard, P. O'Toole, G.P. Beauvais and M. Arnett. 2017 *in preparation*. An integrated, online system for consolidation and dissemination of raptor nest monitoring data. Report prepared for the Wyoming Game and Fish Department and the Wyoming Governor's Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Andersen, M.D., B. Heidel, P. O'Toole, M. Arnett, D. Ratz and B. Maxell. 2017 *in preparation*. The Wyoming Field Guide: an online platform for species account information. Report prepared for the USDI Bureau of Land Management by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Carlisle, J., D. Keinath, A. Chalfoun and S. Albeke. 2017 *in preparation*. Conservation via umbrella species: reserve size and species traits matter. *Journal of Wildlife Management*.

Ceradini, J., D.A. Keinath, I.M. Abernethy, M.D. Andersen and Z.P. Wallace. 2017 *in preparation*. Occupancy estimation for white-tailed prairie dogs in Wyoming. Manuscript prepared for publication.

Crawford, M., D. Dority and L.M. Tronstad. 2017 *in preparation*. Investigating potential effects of wind turbine color on attracting pollinating insects. Report prepared as a Wyoming NASA Undergraduate Fellowship and Wyoming Research Scholars Program by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Dority, D., L.M. Tronstad, M.E. Dillon and M.I. Dority. 2017 *in preparation*. Effects of wind turbines on insects, plants, and ecological cascades. Report prepared for the Wyoming NASA Undergraduate Research Fellowship, Wyoming EPSCoR, and National Science Foundation by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Erdmann, J., W. Estes-Zumpf, Z. Walker, C. Snoberger and A. Pocerwicz. 2017 *in revision*. Current understanding of *Batrachochytrium dendrobatidis* in Wyoming, USA. *Herpetological Review*.

Estes-Zumpf, W., D. Keinath and I.M. Abernethy. 2017 *in preparation*. Distribution and status of Abert's squirrel in Wyoming. Report prepared for the Wyoming Game and Fish Department by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Gygli, A., W. Estes-Zumpf and M. Murphy. 2017 *in preparation*. Comparing the utility of eDNA and visual encounter surveys for amphibian monitoring. Report prepared for the USDA Forest Service - Medicine Bow/ Routt National Forest by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Handley, J. 2017 *in preparation*. Monitoring of *Cymopterus williamsii* (Williams' springparsley), north-central Wyoming – 2017/18 report. Report prepared for USDI Bureau of Land Management - Wyoming State Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

[WYNDD reports in-progress, November 2017, continued:]

Handley, J. and B. Heidel. 2017 *in preparation*. Status of *Townsendia microcephala* (Cedar Mountain Easter-daisy). Report prepared for USDI Bureau of Land Management – Rock Springs and State Offices by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Handley, J. and B. Heidel. 2017 *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. 2017 *in preparation*. These species are NOT Endangered: plants of a bygone era. Article prepared for *Western Confluence* by the Wyoming Natural Diversity Database – University of Wyoming, Laramie, Wyoming.

Heidel, B. 2017 *in preparation*. Flora of North America north of Mexico. Regional coordination of revisions by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. 2017 *in preparation*. Wyoming's only Endangered plant: a tale of re-discovery. Article prepared for *Western Confluence* by the Wyoming Natural Diversity Database – University of Wyoming, Laramie, Wyoming.

Heidel, B. 2017 *in preparation*. Monitoring *Boechea pusilla* (small rockcress) in southwestern Wyoming - 2017. 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. 2017 *in preparation*. Monitoring *Antennaria arcuata* (Meadow pussytoes) in BLM exclosures, central Wyoming - 2017. Report prepared for the USDI Bureau of Land Management – Rawlins Field Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. 2017 *in preparation*. Monitoring *Rubus acaulis* (northern blackberry), Bighorn National Forest, 2000-2017. Report prepared for the USDA Forest Service – Bighorn National Forest by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. 2017 *in preparation*. Monitoring *Penstemon haydenii* (Blowout penstemon) in central Wyoming – 2017. Report prepared for USDI Bureau of Land Management – Rawlins Field Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. 2017 *in preparation*. Monitoring *Penstemon gibbensii* (Gibbens' beardtongue) in central Wyoming – 2017. Report prepared for USDI Bureau of Land Management – Rawlins Field Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. 2017 *in preparation*. Fen resource inventories in 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. 2017 *in preparation*. Wyoming plant species of concern. Report prepared by the Wyoming Natural Diversity Database – University of Wyoming, Laramie, Wyoming.

Heidel, B. and J. Handley. 2017 *in preparation*. Updated Wyoming species accounts for rare plants. Report prepared for USDI Bureau of Land Management - Wyoming State Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B. and J. Handley. 2017 *in preparation*. Threatened, Endangered and Sensitive plant species surveys in scattered BLM tracts – Laramie 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.

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Heidel, B., S. Cox and F. Blomquist. 2017 *in review*. Dune habitat trends of an endangered species. Manuscript prepared for publication.

Heidel, B., J. Handley and D. Tuthill. 2017 *in preparation*. 30-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 Department of Defense - F.E. Warren Air Force Base by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Heidel, B., H. Marriott and C. Mayer. 2017 *in preparation*. Annotated flora of Mount Rushmore National Memorial. Report prepared for the Northern Great Plains Region. 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.

Heidel, B., I. Abernethy, L. Tronstad and Z. Wallace. 2017 *in preparation*. Inventory and monitoring of sensitive species in the Oregon Buttes and Whitehorse Creek Wilderness Study Areas, Wyoming. Report prepared for the USDI Bureau of Land Management by the Wyoming Natural Diversity Database – University of Wyoming, Laramie, Wyoming.

Jones, G.P., B. Heidel and K. Cary. 2017 *in preparation*. Inventory of groundwater-dependent wetlands in selected areas of the Shoshone National Forest – 2017 report. Report prepared for the USDA Forest Service - Shoshone National Forest by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Kosovich, Y. 2017 *in preparation*. Annotated checklist of bryophytes of the Beartooth Mountains, Wyoming. General technical report prepared for the USDA Forest Service-Rocky Mountain Research Station and Shoshone National Forest by the Wyoming Natural Diversity Database- University of Wyoming, Laramie, Wyoming.

Kosovich, Y. 2017 *in preparation*. Preliminary checklist of the bryophyte flora in the Big Horn Mountains, Bighorn National Forest. Report prepared for the USDA Forest Service - Bighorn National Forest by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Lester, A.S. and L.M. Tronstad. 2017 *in preparation*. Does the city's mosquito control program alter local pollinators and plant seed-set? Report prepared as a Wyoming NASA Undergraduate Fellowship by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Tronstad, L.M. 2017 *in preparation*. Life history of *Oreohelix* in the Snowy Mountains, Wyoming. Report prepared for the Wyoming Game and Fish Department by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Tronstad, L.M. 2017 *in preparation*. Statewide assessment of rare invertebrates in Wyoming. Report prepared for the Office of the Governor of Wyoming and the Wyoming Game and Fish Department by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Tronstad, L.M. 2017 *in preparation*. Macroinvertebrates at Agate Fossil Beds National Monument – annual report. Report prepared for the USDI National Park Service – Great Plains Network by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Tronstad, L.M. and M.A. Andersen. 2017 *in preparation*. Aquatic snails of Wyoming. Report prepared for the Wyoming Game and Fish Department by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

[WYNDD reports in-progress, November 2017, continued:]

Tronstad, L.M. and M.E. Dillon. 2017 *in preparation*. Wyoming native bee guide. Prepared for the USDA Forest Service – Rocky Mountain region and the USDI Bureau of Land Management – Wyoming State Office by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Tronstad, L.M. and T.M. Koel. 2017 *in preparation*. Nutrient cycling and plankton dynamics of Yellowstone Lake, Yellowstone National Park. Report prepared for the USDI National Park Service – Yellowstone National Park by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Tronstad, L.M. and T.M. Koel. 2017 *in preparation*. Investigating the food web dynamics in Yellowstone Lake 30 years after the invasion of lake trout. Report prepared for the USDI National Park Service – Yellowstone National Park by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Tronstad, L.M. and O.J. Wilmot. 2017 *in preparation*. Native freshwater mussel follow-up and eDNA investigations: using new techniques to search for Plain Pocketbook and Giant Floater. Report prepared for the Wyoming Game and Fish Department by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Tronstad, L.M., C. Bell and M.E. Dillon. 2017 *in preparation*. Investigating the current status of the declining Western Bumblebee, *Bombus occidentalis*, in Wyoming. Report prepared for the USDI Bureau of Land Management, USGS Wyoming Landscape Conservation Initiative, University of Wyoming Biodiversity Institute, Wyoming NASA Graduate Fellowship, and USDA National Forest Service by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Tronstad, L.M., K.M. Brown and M.D. Andersen. 2017 *in revision*. Predictive distribution models and field surveys for *Hygrotylus diversipes* Leech (Coleoptera; Dytiscidae) in Wyoming. *Journal of Fish and Wildlife Management*.

Tronstad, L.M., Z. Wallace, O. Wilmot, I. Abernethy and W. Estes-Zumpf. 2017 *in preparation*. Factors influencing amphibian distribution in western Wyoming. Report prepared for the Wyoming Game and Fish Department and the USDI National Park Service by the Wyoming Natural Diversity Database – University of Wyoming, Laramie, Wyoming.

Tronstad, L.M., G.P. Jones, M.D. Andersen and G.P. Beauvais. 2017 *in preparation*. Modeling and mapping the distribution of insect prey used by Greater Sage-grouse during the early brood rearing period. Report prepared for the Wyoming Community Foundation and USGS Wyoming Landscape Conservation Initiative by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Tronstad, L.M., J.J. Giersch, S. Hotaling, L. Zeglin and D.S. Finn. 2017 *in preparation*. A unique ‘icy seep’ aquatic habitat in the high Tetons: potential refuge for biological assemblages imperiled by climate change. Report prepared for the University of Wyoming - National Park Service Research Unit by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Tronstad, L.M., J.J. Giersch, S. Hotaling, L. Zeglin, R.J. Bixby and D.S. Finn. 2017 *in preparation*. Establishing a long-term monitoring network for assessing potential climatic refugia in cold alpine stream types. Report prepared for the University of Wyoming-National Park Service Research Unit by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Wallace, Z.P. and I.M. Abernethy. 2017 *in preparation*. Wyoming Basin Ecoregion Golden Eagle Conservation Strategy. Report prepared for USDI Fish and Wildlife Service - Golden Eagle Conservation Team by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

[WYNDD reports in-progress, November 2017, continued:]

Washkoviak, L. and G.P. Jones. 2017 *in preparation*. Level 2 Wetland Assessments and Wetland Profiles, Red Desert/Great Divide and Little Snake/Muddy Creek Areas, Wyoming. Report prepared for the U.S. Environmental Protection Agency (Wetland Development Program) by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Washkoviak, L., T. Tibbets, G. Jones and L.M. Tronstad. 2017 *in preparation*. Development of a Wyoming wetland monitoring and assessment method: addressing the challenges of highly managed basins and climate change. Report prepared for the U.S. Environmental Protection Agency (Wetland Development Program) by the Wyoming Natural Diversity Database- University of Wyoming, Laramie, Wyoming.

Wepprich, T., W. Morris and B. Heidel. 2017 *in preparation*. Population viability analysis of a Threatened riparian forb, *Oenothera coloradensis* (Colorado butterfly plant). Report prepared for the Department of Defense - F.E. Warren Air Force Base and for publication, by the Wyoming Natural Diversity Database -University of Wyoming, Laramie, Wyoming.

Wilmot, O., D. Tuthill, L.M Tronstad and J. Slutzker. 2017 *in preparation*. Know your native mussels – a citizen science project. Project prepared for the Biodiversity Institute - University of Wyoming by the Wyoming Natural Diversity Database - University of Wyoming, Laramie, Wyoming.

Wurzel, S. and L.M. Tronstad. 2017 *in preparation*. Does mosquito control alter the aquatic invertebrates in an urban stream? Report prepared as part of Wyoming Research Scholars Program by the Wyoming Natural Diversity Database -University of Wyoming, Laramie, Wyoming.