The geographic scale of population level variation in growth and nodulation differs for two species of the prairie clover

## The geographic scale of population level variation in growth and nodulation differs for two species of the prairie clover

Adrien C.M. Pozzi<sup>1,2</sup>, Ruth G. Shaw<sup>1</sup>, Georgiana May<sup>1,3</sup>

<sup>1</sup> Department of Ecology, Evolution and Behavior, University of Minnesota Twin-Cities, St Paul, MN 55108. <sup>2</sup> Current affiliation: Universite Claude Bernard Lyon 1, Laboratoire d'Ecologie Microbienne, UMR CNRS 5557, UMR INRAE 1418, VetAgro Sup, 69622 Villeurbanne, France. ORCID: 0000-0001-6765-4293. <sup>3</sup> Correspondence: Georgiana May (gmay@umn.edu)

## **Keywords:**

biodiversity conservation; *Dalea* spp.; habitat fragmentation; mutualism; nitrogen-fixing symbiosis; population level variation; native prairie legume; restoration; rhizobia

## **Description:**

This Zenodo deposit is part of the MN LCCMR Healthy Prairies project granted to R. Shaw and G. May, UMN Twin-Cities. It contains the following files:

- "Metadata & data" spreadsheet. Contains metadata and data about the Twin Valley experiment (including the position of plants, an intermediary census, growth and nodulation traits for harvested plants).
- "Blast alignments output.txt" text file. Contains ouput of Blastn alignements for the 16S rRNA
  genes of bacterial isolates against the rRNA\_typestrains/16S\_ribosomal\_RNA 16S ribosomal RNA
  (Bacteria and Archaea type strains) database, to determine the genus as recommended by
  GenBank during sequence submission.
- "General script.R". R script of the general statistical analyses produced for publication.
- "General environment.RData". The companion RData (environment) of the above R script.
- "Trait model script.R". R script of the plant trait models produced for publication
- "Trait model environment.RData". The companion RData (environment) of the above R script.

## Acknowledgments:

The authors thank members of the May Lab (Mai Beauclaire, Em Daily, Mara Demers, Kane Keller, Cedric Ndinga-Muniania, Liam Vertal, Monica Watson) for their help in field and lab work. We thank members of the Healthy Prairies project (Shelby Flint, Anna Peschel, Bill Peterson) who provided much of the infrastructure that made this project possible, as well as help in setting up field experiments. We also thank volunteer undergrads from University of Minnesota Morris (Amelia Nelson, Emily Job, Lily Fulton) for assistance in measuring harvested plants and counting nodules. Funding for this project was provided by the Minnesota Environment and Natural Resources Trust Fund as recommended by the Legislative-Citizen Commission on Minnesota Resources (LCCMR) Project 00086965, Healthy Prairies.