

# Permit application for “Grassland arthropods across gradients: monitoring biodiversity and testing theory”

*Andrew Rominger*

**13) Describe project by specifically identifying timing, frequency, and how the project is expected to proceed:**

**14) Specifically identify location(s) and/or attach a map for the project:**

**15) Identify species or habitats being studied:**

**16) Purpose/hypothesis:**

**17) Expected benefits of research/monitoring:**

**18) Briefly describe project history and context of research/monitoring project:**

**19) Briefly describe project’s relationship to other research/monitoring projects either known of or conducted by the applicant:**

**20) Identify the types of specimen collections to be taken (see specimen collection clause in the instruction section #20) or data to be collected during the proposed project:**

**21) List other cooperators and institutions involved in the project:**

The Juniper Hill Center (<http://juniperhillcenter.org>)

**22) Generally identify the anticipated timeline for analysis, write-up and publication:**

**23) For research involving animals, attach an Assurance of Animal Care Form or an approval from an Institutional Animal Care and Use Committee? Is a form or approval attached?**

No form, none needed

## License/Insurance/Certifications/Permits

24a) List and attach copies of any licenses you have for equipment operation (i.e., aviation or commercial boats), pesticide applications, transporters) or others if required:

24b) List and attach copies of any insurance you have (i.e general liability, flight/grounding, contaminants, medical evacuation, or others if required:

24c) List and attach copies of any certifications you have, such as rat free, hull inspections, CPR/First Aid, or others if required:

24d) List and attach copies of any other Federal, State, or Tribal permits if required:

## Logistics and Transportation

25a) Does project require personnel to stay overnight on the refuge?

No.

25b) If yes, how many? And list known personnel involved in overnight stay below:

NA

26) Specifically describe all major instrumentation/equipment/gear (i.e. use of drones) and materials used, if applicable or required:

27a) Provide details and schedule for the installation of instrumentation:

27b) Provide details and schedule for the removal of instrumentation:

27c) If instrumentation is permanent, describe need:

27d) If instrumentation requires a maintenance schedule, describe needs and schedule:

27e) Provide a data collection schedule:

28) Provide logistical arrangements for offsite transportation of samples:

29a) Provide detailed information on the logistics for onsite, intersite, and/or ship-to-shore transportation to or on the refuge, if required:

29b) Provide descriptions, license plate and/or identification numbers of vehicles used for onsite transportation, if required:

29c) Provide descriptions, license plate and/or identification numbers of vehicles used for intersite transportation, if required:

29d) Provide descriptions, license plate and/or identification numbers of vehicles used for ship-to-shore transportation, if required

30a) Is fuel cache needed?

30b) Provide specific location(s) of fuel caches:

31) Attach Safety Plan if required. Is Safety Plan attached?

## Work and Living Accommodations

32) Specifically describe onsite work and/or living accommodations, including spike camps:

33) Specifically describe on or offsite hazardous material storage or other on or offsite material storage space: