

Project Highlight – SD State Wildlife Grant

Project Type Research and monitoring

Title Status of the Bear Lodge Meadow Jumping Mouse (*Zapus hudsonius campestris*)

In a nutshell This project was conducted in a systematic way to help determine the status and habitat needs of this species in the Black Hills of South Dakota. Results provided sufficient information to remove this species from the South Dakota list of species of greatest conservation need during the 2013 Wildlife Action Plan revision.

Relevant Habitats streamside habitats in the Black Hills

Cooperators Dakota Wesleyan University

Purpose

- Determine the present distribution, abundance, and habitat affinity of *Zapus hudsonicus campestris* in the Black Hills of South Dakota.
- Compare the present distribution and abundance with historical records of this species.

Location Black Hills, South Dakota

Timeframe July 2010 – August 2012

Summary or Important Findings

- Using live trapping along transects, this species was the most common small mammal on 4 of 16 streamside transects
- Jumping mice were positively correlated with percent litter cover and percent moss cover and negatively correlated with percent grass cover
- Jumping mice were found throughout the range reported in historical records and beyond
- Jumping mice appeared to be limited by the need for a perennial water source

Best contact person Dr. Tim Mullican, DWU

More Information

Mullican, T. R. 2013. Status and habitat association of the Bear Lodge meadow mouse in the Black Hills of South Dakota. Final report to South Dakota Game, Fish and Parks. 25 pp.

Scientific publications resulting from this project:

Mullican, T.R. 2011. First Record of the Least Weasel in the Black Hills of South Dakota. *The Prairie Naturalist*. 43(1/2): 59-60.

Mullican, T.R. 2011. Distribution, abundance and habitat associations of the Bear Lodge meadow jumping mouse in the Black Hills of South Dakota [Abstract]. Proceedings of the South Dakota Academy of Science. Vol. 90. In press.