Comparison of Northern Saw-whet Owl (*Aegolius acadicus*) Frequency and the Prey Availability in Schmeeckle Reserve Carter Freymiller, Michaela Meehl, Aiden Gehrke, Nicole Luoma, Sophie Reid, Cole Suckow, Madison Fell Advisor: Dr. Jason Riddle

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Introduction

- > Northern saw-whet owls (NSWO) are a nocturnal mesocarnivore found throughout the US.
- > NSWO diets consist of 85% rodents
- > Small mammal project and fire crew trapped many species that compose the diet of NSWOs

Hypothesis

Saw-Whet Owls (*Aegolius acadicus*) are more active when small mammals are abundant.

Saw-Whet Owl & Small Mammal Methodology

- *Study Area*: Schmeeckle Reserve, Stevens Point WI > NSWO: 60mm mist nets arranged in a triangular formation, opened 8pm-2amfrom late September – early November (Th., Fri., Sat.)
 - Measurements: weight (g), wing & tail chord (mm), age, sex (determined by wing & weight)
- Small Mammal: 5x5 grid of sherman traps checked at 7am and 7pm (weekdays)
- Measurements: weight (g), age, sex and ear length > Data Analysis: Welch's T-test with Unequal Sample Size and Unequal Standard Deviation





nce of) (0)	Presence of NSWO (1)
142	35
15	7
8.8	8.4

Discussion

- > T-value of 1.71
- significant



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• Falls within 95% critical value acceptance range • Populations are not statistically > Fail to reject null hypothesis (no change in small mammal population when owls are present or absent) • P-value of 0.06 > 0.05 > Results likely due to only 5 days of potential trapping overlap • Only 3 of those days had traps open for both populations surveyed • Not enough data collected > Future of the project: Trap NSWOs on the same nights as small mammals