

Introduction

This project concerns a Blanding's turtle (*Emydoidea blandingii*) population located at Camp Ripley Training Center in Little Falls, MN. Since the early 1990's, several management practices have been implemented to conserve the species at Camp Ripley. One of these management practices includes annual surveys to protect nests from predation. Following emergence, hatchlings are direct-released into the nearest wetland complex to reduce road mortality, predation, and eliminate a long journey to water. However, the success of this management practice is still uncertain.

Objectives

1) Discover habitat selection of hatchlings at the micro-macro scale

2) Compare survivorship of hatchlings direct-released into wetland complexes to hatchlings released at the nest site 3) Determine the best hatchling release strategy; either a) continue to direct-release hatchlings into the nearest wetland complex or b) release hatchlings at the nest site

Because this project is still ongoing, this poster only focuses on habitat utilization and survivorship of wetland directrelease hatchlings.

Table 1. P-values (significantly different comparisons bolded) from pair-wise comparisons (LSD) of mean habitat use ratios for macrohabitat selection by hatchling *Emydoidea blandingii* (n=5) at Camp Ripley, Little Falls, Minnesota. Habitats are ranked from most preferred (low habitat use ratio values) to least preferred (high habitat use ratio values).

Macrohabitat	Habitat Use Ratio	swamp forest	shrub	marsh	upland	upland open
			swamp		forest	
swamp forest	0.458	-	-	-	-	-
shrub swamp	0.491	0.854	-	-	-	-
Marsh	0.645	0.271	0.39	-	-	-
upland forest	0.654	0.249	0.363	0.956	-	-
upland open	0.868	0.02	0.041	0.192	0.211	-
upland woodland	0.892	0.014	0.031	0.15	0.165	0.888
Bog	0.922	0.009	0.021	0.108	0.12	0.751
pond	0.999	0.003	0.007	0.043	0.048	0.441

Table 2. Microhabitat analysis using paired t-tests and conditional logistic regression. Variables with non-significant values from the ttests were not included in the conditional logistic regressions. Only variables that were found to be significant in the regression are considered to be supported. Positive coefficients indicate that the probability of selection increases with a variable, and negative coefficients indicate the probability of selection decreases with that variable. "No data" entries indicate that there was no data to run analyses on.

	Paired t-tests for aquatic variables	Paired t-tests for upland variables	Conditional logistic regression for aquatic hatchlings		Condit for
Microhabitat variable	Aquatic	Upland	Aquatic	Aquatic	Upla
	<i>P</i> -value	P -value	coefficient	P -value	coeffic
open water %	0.1238	No data	Not included		
emergent vegetation %	0.7898	No data	Not included		
floating vegetation %	0.0632	No data	Not included		
woody vegetation %	No data	0.064	No data		-0.0′
detritus vegetation %	0.0342	0.5978	16.82	0.9968	
moss vegetation %	No data	0.1028	No data		
herbaceous vegetation %	0.0212	0.0102	-3.50	0.9994	0.01
water depth	<0.0001	No data	-0.042	0.0005	
soil depth	0.5051	0.0003	Not included		0.36
water temperature	0.3159	No data	Not included		
soil temperature	No data	0.0185	No data		-0.03
air temperature	0.7188	0.6541	Not in	cluded	

