

Occupy ToadStreet: Occupancy and Habitat Use of the Arizona Toad in Streams of Arizona



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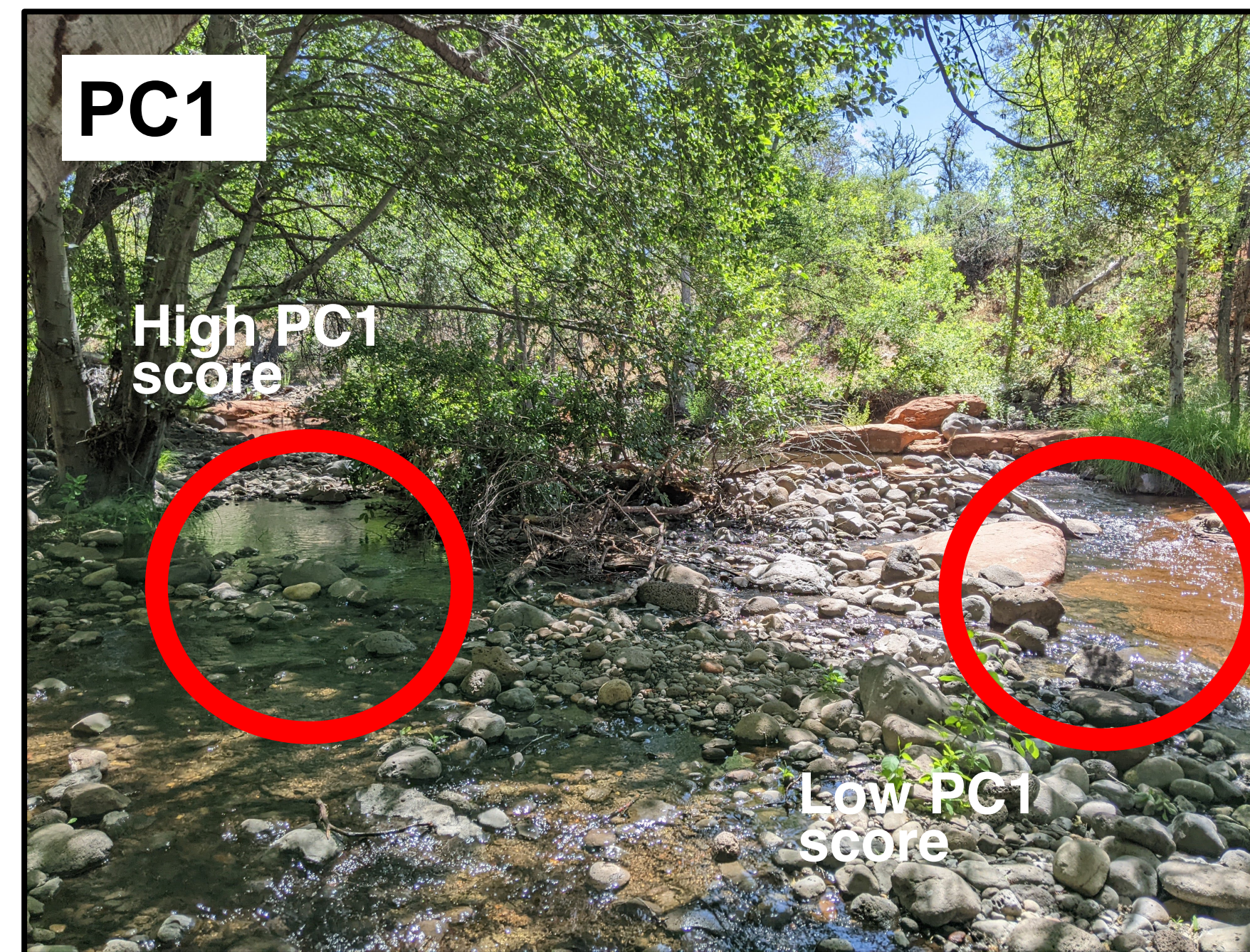
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Objectives:

- 1) Determine Arizona Toad Occupancy
- 2) Observe any impact that non-native crayfish might have on toad occupancy
- 3) Evaluate which environmental and microhabitat factors impact toad occupancy



Arizona Toad
Anaxyrus microscaphus



Occupancy Single Species

Season 1	estimate	SE	LCI	UCI
Psi	0.165	0.031	0.113	0.235
p	0.734	0.063	0.595	0.838

Season 2	estimate	SE	LCI	UCI
Psi	0.221	0.057	0.130	0.351
p	0.841	0.087	0.597	0.950

Occupancy Multi-species

Northern Crayfish - *Orconectes virilis*



The Arizona Toad is a rare species with high detection.

No negative interactions between toads and crayfish were observed.

Habitat variables such as water depth, canopy cover, woody debris, algae, and cobble impact toad habitat use.

AZ toads occupy habitat with lower water depth and more canopy cover, with more cobble and algae cover.

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Habitat Use PCA and Regression

