# Telemetry Habitat-Analysis

This contains all information for analysis of data gathered using radio telemetry for Wet Beaver and West Clear Creeks of the Verde River Watershed, AZ.

The Verde River Watershed in Arizona contains several mid-level perennial streams that provide habitat for native and introduced fish species. To identify habitat features important for the survival of fish populations, we measured habitat features of locations used by Black Bass and Desert Sucker within West Clear and Wet Beaver Creeks. We measured the same features of random available locations.

In West Clear Creek we tracked 23 Desert Sucker (Catostomus clarkii) and 19 Black Bass (Micropterus spp). In Wet Beaver, 38 Desert Sucker and 43 Black Bass.

This project is the development of habitat selection models (Resource Selection Functions, Habitat Suitability Criteria, Resource Selection Ratios) to compare features occupied by fish to available stream features.

**Telem-Habitat-Analysis**

This is the R project file

**Data**

Contains all raw data for analysis

***All***

Cleaned telemetry data for each stream in each month data was collected

***West Clear***

Cleaned telemetry data for each month in West Clear

***Wet Beaver***

Cleaned telemetry data for each month in Wet Beaver

***All Radio Tagged Fish***

Associated data for each tagged individual

***AllData.R***

Data from *All* that has been sorted and cleaned for R use

**Mesohabitat**

Contains analysis of selection and use of mesohabitat features

***Scripts***

***Results***

**Output**

Contains results of scripts that are consistently updated to provide newest dataset (from *Data*)

**Velocity, Depth, Substrate**

Contains selection and use of velocity – depth - substrate habitat

***Scripts***

***Results***