Standardized plot searches (SPS)

150m x 150m plot, gridded at 10m

6-16 searchers / search

Searched at regular times of day

July 7:30-17:30

August 7:30-13:30

Location, species and microhabitat of lizard recorded

Unpainted lizards caught, measured and painted

Colors of painted lizards noted

Captured lizards are weighed, measured, toe-clipped, and painted, then they are released where they were seen-and-captured.

The field course TA oversees this capture-mark-release-recapture process.

Chris Fabry was the TA for the class from 2002-2006. This photo of Chris was taken in 2006.

Copper model of *Gambelia wislizenii*, in ALEBNTS position, on S perimeter of SAVE; note also the i-Button; these devices help us understand when and where *Gambelia* can be active.

Travis Hagey
and
Alden McCurdy
about to go
catch lizards
and sunburns

Sunblock is a necessity. Tomiana Hutcheson is attending to Tyler Southard and Brigit Iles is applying lotion to John Hoogestraat

Carolyn Woito worked tirelessly into the heat of the afternoon, because some Gambelia still could be found in the shade

Colin Short & Ryan Albright, ready for lizard wrangling

Miku, Brenna, and Ethan in the midst of a successful day of lizard catching, 2005

Ryan, Colin, and Josh waiting for a research team mate to take the silly photo so they can catch lizards via standard plot search, 2005

Frazier Coe waiting for the lizard to approach close enough for noosing

Teresa Fish is waiting for John Garman to get the noose off of the lizard and to check lizard for its toe clip sequence, 2007

Brigit Iles found, noosed and bagged a lizard

Alice Crowley with a nice belt-load of lizards, 2005

Colin Hume scribing data on a lizard location, as provided by TA Chris Fabry, 2002

Chris Fabry rechecking lizard release locations

Dr A palpating a female *Phrynosoma platyrhinos*

Ashley McAlister paintmarking *Gambelia wislizenii*

Paintmarks finished

Paintmarking an *Aspidoscelis tigris*

This female *Gambelia wislizenii* was easily seen

Alden McCurdy
&
Ashley McAlister
documenting
behavior
of
Gambelia wislizenii
in 2006

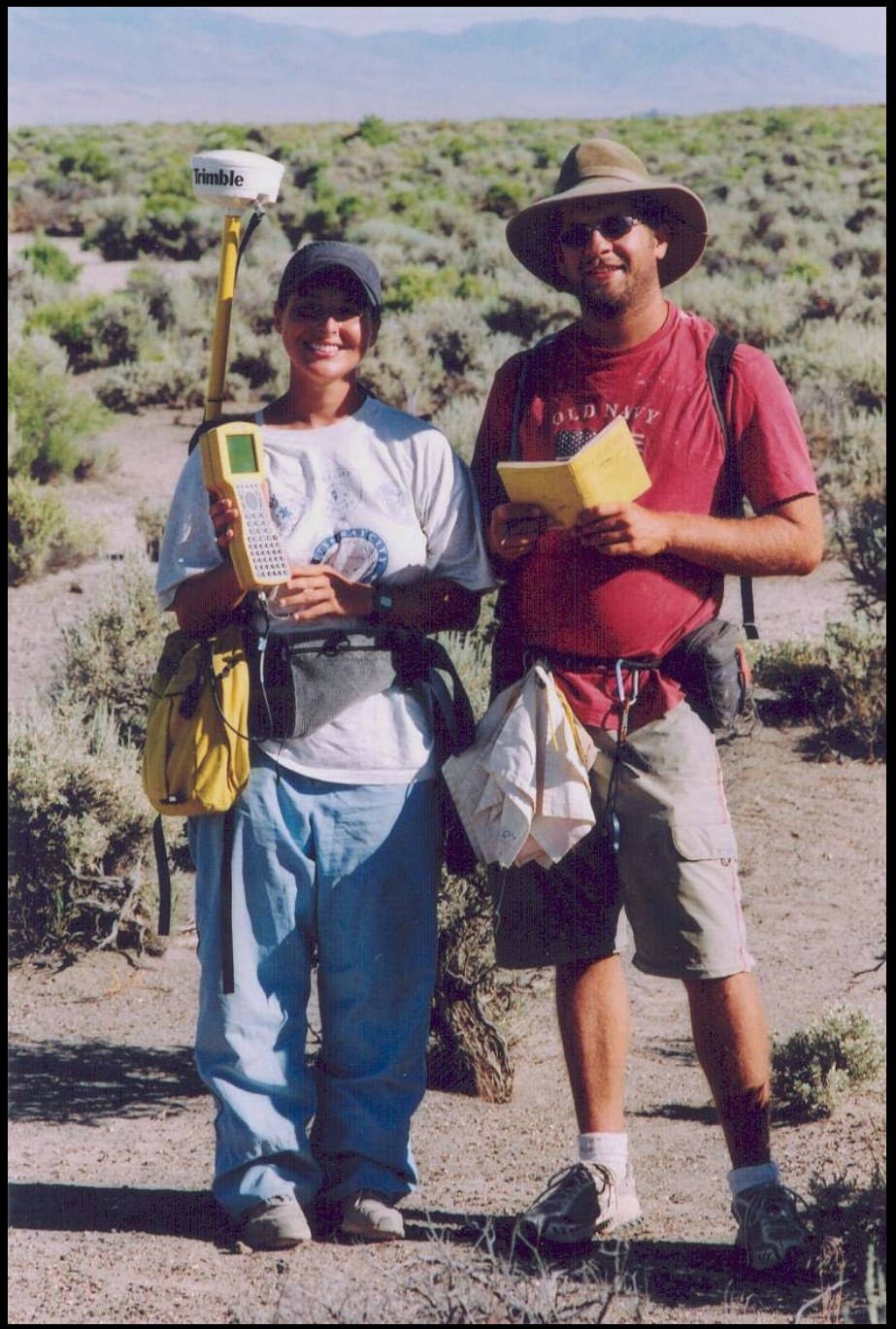
Caroline Woito & Krystal Hazzard
video recording *Gambelia* behavior, 2007

Krystal and Caroline standing on hardpan, video recording *Gambelia wislizenii* behavior, 2007

Carolyn Woito locating a *Gambelia* with a radiotransmitter, 2007

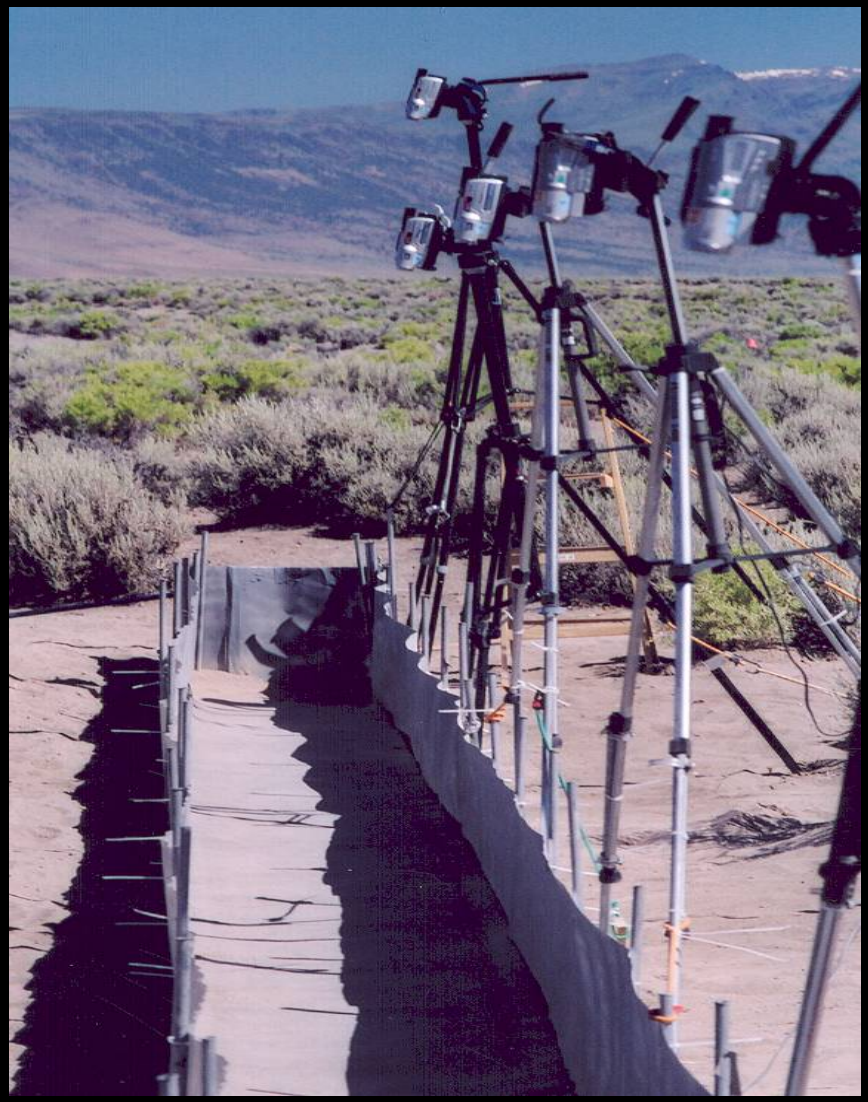
Teresa Fish and John Garman radio-tracking a leopard lizard

SFASU Grad student Jen Korenek and her “field man” using WWU’s high tech GPS unit to map the study site and obtain accurate off-plot locations of *Gambelia*



Ethan Smith was a whiz with the radiotelemetry, and GPS, and not bad at catching lizards either

We studied lizard sprinting abilities on raceways (below) and documented evasion pathways in the field.



The raceway was placed near the road to Borax Lake

The early phases of raceway construction

The raceway is more than 20 meters long; note the straight sides and how level sand surface.

Dr. A measured the lizard's body temperature then handed it to Krystal to chase down the runway, 2007

Krystal Hazzard proved to be an effective chaser, 2007

Lizards were chased to a faux refugium at the south end of the raceway

Teresa Fish & Carolyn Woito, moving between grasshopper survey plots

Grasshopper Surveys

Concurrent with SPS:
On each of 3 types of mesohabitats:
dune, sandy flat, hardpan,
there were
three 10m x 40m plots,
gridded into
sixteen subplots, each
5mx5m

Procedure:
Visual search of
8 subplots per
10m x 40m plot,
gently finger-raking
periphery of
shrub foliage

Nymph or adult noted
Microhabitat recorded

Melissa "Miku" Gleason in a careful search for grasshoppers on an ARTR in a sandy flats plot

Grasshopper on *Artemisia tridentata (ARTR)*

Grasshopper on ARTR, top view

Grasshoppers tested for camouflage in an ARTR

Grasshoppers tested for camouflage in a SAVE