

WEST Inc. Resource Selection by Animals Course



Instructor: Ryan Nielson, Trent McDonald,
Lyman McDonald, and/or Bryan Manly

Phone: 307-634-1756

Location: All workshops offered by WEST Inc. can be
arranged for your site or at the Hilton Conference
Center in Laramie, Wyoming

Email: rnielson@west-inc.com

Dates: Flexible. At least 1 – 3 month lead time is
generally required.

WEST, Inc. offers 1 to 3 day workshops on resource selection/habitat use by animals. Length and focus of the workshop can be tailored to the specific needs of clients. In general, the goal of this workshop is to improve understanding of modern methods for retrospective modeling of resource/habitat selection by animals when large sets of Global Positioning System (GPS) data are available for each tagged animal. Case studies and examples can be distributed throughout the course to assist the participant in understanding the material. Demonstrations of statistical procedures can be given using computer software (R) dynamically in the class. A basic understanding of statistical linear models, and a laptop computer, is required. Practicing biologists, biometricians, and wildlife managers who work with large GPS data sets and need to develop and interpret habitat selection models are encouraged to inquire.

The general topics usually covered by this course are:

- A brief history of resource/habitat selection study designs and analyses
- Review of maximum likelihood and modeling with covariates
- Common uses of GPS technology for wildlife studies, discussion of programming schedules and data formatting
- Estimating habitat selection in the absence of GPS fix-rate bias
- Estimating habitat selection when GPS fix-rate bias is present
- Investigating the effects of human disturbance/development on animal distribution
- Estimating animal movement and migration routes

For a price quote, contact Ryan Nielson (rnielson@west-inc.com).