Environmental
& Statistical
Consultants

Welcome and Overview

Statistical Methods for Estimating Abundance in Ecology

Virtual Workshop

Nov 29 – Dec 6, 2021

Instructors

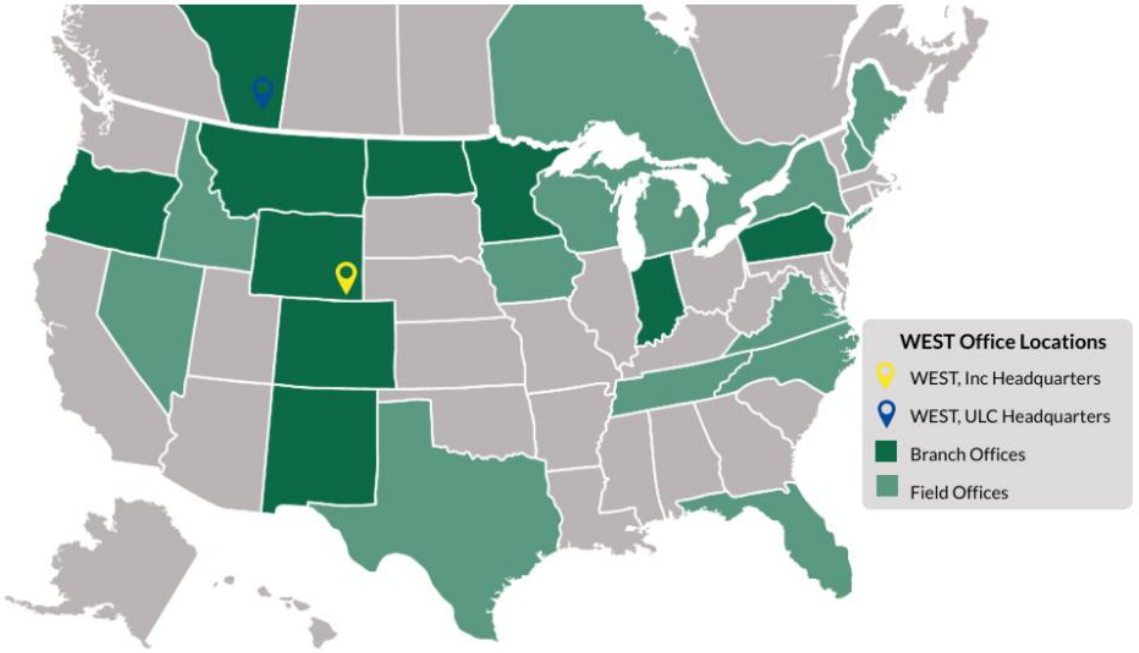
- Gabe Barrile
  - Post-doctoral Research Scientist; Colorado State University
  - Recent alumni of UWyo, recipient of EPSCoR Data-Science Internship
- Jason Carlisle
  - Consulting Statistician; WEST, Inc.
- Tom Prebyl
  - Associate Statistician; WEST, Inc.

EPSCoR

- The Established Program to Stimulate Competitive Research (EPSCoR)
- A National Science Foundation (NSF) program to promote scientific progress nationwide

Western EcoSystems Technology, Inc. (WEST)

- Environmental and Statistical Consulting
- 180 full-time employees
- Offices in 10 states/provinces
- Remote staff in another 14 states/provinces



WEST/EPSCoR Data-Science Workshops

- **Goal**: Motivate learning and mastery of computational and data-science technologies and theory through experience in completing analyses in ecology
- 4-6 per year through 2022
- More info
  - https://west-inc.com/news-insights/workshops/
  - https://microcollaborative.atlassian.net/wiki/spaces/DSC/pages/1749352457/

Workshop Philosophy and Expectations

"Education is not the filling of a pail, but the lighting of a fire"

- William Butler Yeats (or Plutarch?)

Workshop Materials

- Will be emailed before each session
- Available online at GitHub
  - https://github.com/gbarrile/AbundanceWorkshop
  - Materials under active development this week
  - Long-term home for materials if you want to revisit later

- This workshop is an outgrowth from a wonderful online course developed by Gabe Barrile about Population Modeling in Ecology
  - https://github.com/gbarrile/PopEcoModeling

Content

- Session 1 (11/29): N-Mixture model
- Session 2 (12/1): Distance sampling
- Session 3 (12/3): Capture-mark-recapture
- Session 4 (12/6): Open work time

- Same Zoom link each time

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