

## WEST Inc. Environmental Sampling Course



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

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

WEST Inc. offers 3 to 5 day workshops covering the statistical theory, field implementation, and analysis of data collected by environmental surveys. Length of the workshop depends on the topics included and can be customized to the specific needs of clients. In general, it is the goal of this workshop to familiarize participants with statistical sampling concepts and definitions, the “where”, “when”, and “how” of spatial sampling, and the basic statistical analyses for status and trend estimation. Participants who complete this course should be able to design and implement useful environmental surveys, as well as be conversant on topics surrounding large and complex surveys. A basic understanding of statistical linear models, and a laptop computer, is required. Analyses are conducted in Microsoft Excel and R. One-half to one-third of the workshop is devoted to indoor computer exercises and outdoor mock projects.

The general topics usually covered by this course are:

- Definitions and terminology for environmental sampling
- Site selection methods
- Stratification
- Panel rotation
- Field methods, both enumeration and distance-based inclusion
- Analyses to estimate status and trends

For a price quote, contact Dr. Trent McDonald ([tmcdonald@west-inc.com](mailto:tmcdonald@west-inc.com)).