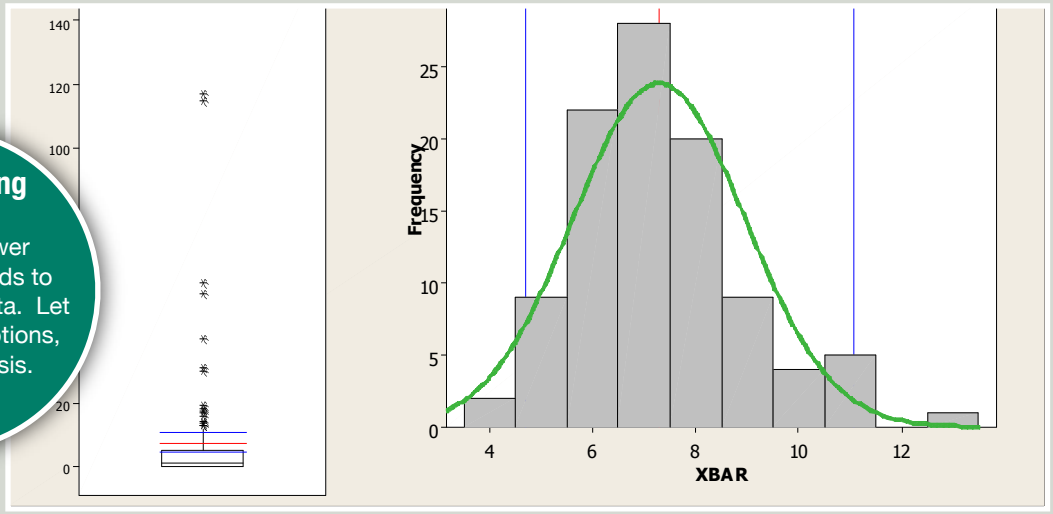
= Practical Stats

www.practicalstats.com



Bootstrapping

One of the newer statistical methods to analyze messy data. Let data, not assumptions, drive the analysis.

Applied Environmental Statistics

Statistics, down to earth

This 4.5 day course develops hands-on expertise for all environmental scientists who interpret data and present their findings to others. A complete understanding of how statistical methods work unfolds through applications to field-oriented problems in water quality, air quality, and bio contaminants. Statistical methods are explained in the light of data with nondetects, outliers, and skewed distributions. Methods for estimation and prediction are illustrated along with their common pitfalls. Emphases include nonparametric methods, including permutation tests and bootstrapping.

Course Content:

- Trend analysis -- is it getting better or worse?
- Confidence, prediction, tolerance & equivalence intervals.
- How hypothesis tests work.
- Parametric, nonparametric and permutation tests. When to use which.
- How to build a good regression equation.
- Dealing with outliers.
- When are transformations OK?
- How many samples do I need?
- and more.

Interactive and relevant

Student exercises follow each lecture to ensure that when you return to the office, so does your new knowledge