

Practical Stats Newsletter for January 2020

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In this newsletter:

- A. Practical Stats Courses
- B. Our February Webinar
- C. New Video Viewing, for Free

A. Practical Stats Courses

On our online training site: <http://practicalstats.teachable.com/>

Our Nondetects And Data Analysis (NADA) course is available online. It's a complete coverage of data analysis with nondetects and 'remarked data': summary statistics, regression, group testing, and even some multivariate methods, all without substituting fabricated numbers like  $\frac{1}{2}$  the detection limit. One year's access to the materials costs \$695. The R scripts included provide new functionality to make data analysis easier, and are a step forward from the NADA package in R.

Our Applied Environmental Statistics courses cover methods from simple statistics through trend analysis. They are also an introduction to using R software, the most widely used statistics software in the world. They are available in two parts, each \$650 USD for a 1-year access for one person. Or get both courses together in a bundle for \$1200 USD. See our online training site at the link above.

B. Our February Webinar

Our upcoming webinar is "How Many Observations Do I Need?", a demonstration of what information you'll need in order to estimate how many observations you should collect to compute a confidence interval or test for a difference with a hypothesis test.

How Many Observations Do I Need?

a Practical Stats webinar

Tuesday Feb 4, 2020 11:00 AM MST

Register at:

<https://attendee.gotowebinar.com/register/314571780469866507>

or view it later online (see section C below).

This is one of the most common questions I am asked. This webinar will go over what information is needed for two-group parametric and nonparametric hypothesis tests (t-test and Wilcoxon rank-sum test). We'll also look at what software is available to answer this question for two-group as well as more complicated situations.

You'll find more information on the nonparametric approach in our April 2008 newsletter "Sample size calculations for nonparametric tests" that is posted in our Newsletter Archive. The topic is also a new chapter in the 2<sup>nd</sup> Edition of Statistical Methods in Water Resources [to be published by the US

Geological Survey]. Whenever that long-awaited book is available, you'll find the link to download it at <http://www.practicalstats.com/info2use/books.html>

### C. New Video Viewing, for Free

Coming in February is a new Videos page on practicalstats.com. Recordings not directly related to our online courses, such as the upcoming February webinar, will be freely available to stream on that new page. If you can't make the live webinar on February 4<sup>th</sup>, you'll be able to go to

<http://www.practicalstats.com/videos/>

and view it at any time. Of course 1-hour videos covering some of the topics from our two online courses are already freely available on our Online Training Site,

<http://practicalstats.teachable.com> .

These include videos on:

1. Intro to Nondetects and Data Analysis
2. Fitting Distributions to Data with Nondetects
3. Testing Differences in Groups of Data With Multiple Detection Limits
4. The Mystery of Nondetects: How Censored Data Methods Work
5. Correlation and Regression for Data with Nondetects
6. Seven Perilous Errors in Environmental Statistics
7. Intro to R

Both our courses and webinars can be streamed in your timezone, at any time of day you want to view them, on a computer or tablet or larger-format smartphones.

'Til next time,

Dennis Helsel

Practical Stats LLC

-- Make sense of your data